

IISER Mohali is inviting quotes for an OIL FREE SCROLL TYPE AIR COMPRESSOR unit with dryer, receiver and installation of piping to dryer, receiver and N₂ generator etc.

Please send the envelope to:

Asst Registrar Purchase Section,

Address: IISER Mohali, Knowledge city,

Sector 81, SAS Nagar, Manauli PO 140306

Telefax : 2240266, 2240124

All quotes must reach by specified date and time as mentioned in the document provided by Stores and Purchase section. Certain couriers (like Professional Courier) do not deliver at our site. We will not be held responsible for any courier or postal delays. Quotes can be sent by email also to the following address:

stores@iisermohali.ac.in mukeshkr@iisermohali.ac.in

Given below are general specifications for the compressor, please provide a compliance sheet and other data requested. Please provide copy of brochure/catalogue. Small deviations in compliance may be accepted if the end usage is not affected as deemed by the technical committee. Vendors are required to give the true specs.

	Specification for Oil free Scroll compressor	Compliance statement. Clearly state if it complies or not. With details of relevant parameters
1	Delivery pressure: Should go up to 10 bar/145Psi and tunable to lower range	
2	Delivery capacity: Minimum of 340 L/min @ 10 bar upto a maximum of 450 lpm @ 10 bar	
3	Dry air pressure dew point: -40 deg C pdp or better using a drier (Drier to be quoted with system as per specs below)	
4	Internally coated SS air receiver: Anything around 20-40 L . Must be of non-corrosive materials like SS or Aluminium.	
5	Operation: It should be on standby mode and automatically start supplying on demand at drop of pressure from set values or must have optimizing drive features.	
6	Flow control regulator cum filter: Required	
7	Noise level: Should be ~ 60 dB(A) @ 1.5 m distance or better	
8	Dimensions: Around an area of 1m x 1m or smaller	
9	Ambient temperature: 0-40 deg C or wider	
10	Automatic control PLC or microcontroller or any other equivalent control system. System must automatically start and stop at pressure drop or have optimized controls to maintain set points.	

11	Starting Current : Must be ~ 20 Amps or less and running current ~ 6 Amps or lower. Must provide star-delta starter or any equivalent like controllers to reduce starting currents to this level as system needs to be on UPS.	
	Specification for Filter	
12	Quote for 3um filter, fine filter 1um, micro filter .1um Coalescing filters.	
13	Must handle 10% more than the compressors flow rate & upper pressure must also work at 6 bar or lower pressure.	
14	Pressure reduction must be less than 0.5 bar after filters and drier.	
	Specification for Drier	
15	Heatless PSA regenerative dryer with two active columns to automatically regenerate one and use another to produce dry air	
16	Dryer pressure drop should not be more than 0.5 bar	
17	Outlet air dew point of -40°C pressure dew point or better (must provide certification for PDP from droer manufactuer)	
18	Should be of vertical design covering an area of around 200x300mm	
19	Must handle around 20% more flow rate /pressure than the comprssors maximum and must also work as low as 6 bar.	
	Stainless steel Storage pressure vessels	
20	Quote for 100L , 200 L and 500 L tanks with pressure gauge (up-to 15 bar) and flow regulators	
21	All units must be vertical floor mountable by grouting and occupying less horizontal space Typically < 650 mm dia meter	
22	500 L must be mounted on roof if space is unavailable in room	
	Other accessories	
23	2" thick neoprene padding for compressor and drier units.	
	Installation:	
24	Please quote for installation of FRP rigid piping with 500 L receiver and 100 or 200 L in room for N2 after N2 Generator(1/2" tubing). 500 L tank may be shifted to roof 4.5 m high if space is not available.	
25	Include connections from compressor to receiver , receiever to dryer , dryer to N2 generator.	
	Warranty & comprehensive annual maintanance contract	
26	1 year Standard warranty with all parts and consumables.	
27	Replacement of all spares and consumables for 5 years on an annual CAMC basis.	

	Must include the following spares for the whole system	
28	Intake Filters , V Belts , Electro Magnetic Switches , Check Valves , Ventilating Fans , Tip Seals for compressor	
29	Air Drier : Alumina/borosilicate column of Drier , Pre Filter of Drier , pneumatic Coils , Tower Seals , Safety Valves , Seal and O-rings	
30	This is only a representative list of key components that may need changing Any-other item required for seamless functioning of the system not mentioned above must also be included.	
	Selection criteria:	
31	Only the following OEM brands Anwest Iwata, Atlas Copco , Hitachi and Kaiser are approved. Other brands must show customer references for presence in India as well as performance of product with more than 100 units globally.	
32	Authorization certificate from OEM must be provided to quote in this region. Quotes received out of authorized distribution area are likely to be rejected unless supported by appropriate letter from OEM head office in India	
33	Compressor capacity at 10 bar will be given 25% weight-age and price 75% weight-age in selecting the optimal product.	
34	Customer references with contact details of around ten customers from Research institutes like IITs, IISERs and other major national labs, large companies for dry compressors.	
35	Delivery time (Typically must be typically 4 weeks)	
36	Minor changes in Specifications may be accepted if end user requirements are found not to be majorly affected by the technical committee.	
	<u>Financial terms</u>	
37	No pre-payment will be made.	
38	Line of sight draft will be preferred over L/C expenses.	
39	Quote Shipping and Insurance till IISER Mohali.	
40	Customs exempt certificate will be provided if quoting in foreign currency.	
41	Up-to 10% performance bank guarantee to be provided for 1 year.	