

### Clarifications regarding HVAC System for PC Teaching Block at AIIMS, New Delhi..

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S. No.	Reference	Bidders Query	Annexure-I Clarifications
1	A-1.1/11.0; BOQ-AC-Page1/Specs-AC-page14	Pls confirm weather star delta starter or soft starter is required. Since the specifications says that starter shall be as per the manufacturer standards. (Specs-AC-page-14) whereas the BOQ asks for soft starter panel.	As per BOQ.
2	2.0; Specs-AC-Page-10	Some of the approved manufacturers provide capacity control from 100% to 25%/20% of full load pls confirm.	Shall be as per tender document.
3	5.0/6.0; Specs-AC-Page 11,12	Pls confirm weather we have to provide marine water boxes on evaporator and condenser.	Shall be as per tender document.
4	5.0/6.0; Specs-AC-Page 11,12	Chillers coming from China shall comply with GB code, the national pressure vessel code of China instead of tender specified ASME code.	Shall be as per tender document.
5	1.4; Specs-AC-Page-91	The pressure drop along the condenser side shall be higher upto 7m H2O instead of 5m H2O.	The pressure drop along the condenser side shall be 7m wg.
6	Chillers	Please confirm the country of origin for chillers.	Shall be as per tender document.
7	2.2; Specs-AC-Page-15	The standard cooling coil thickness provided by the AHU manufacturers is 0.41mm instead of 0.44mm. Pls confirm.	Shall be as per tender document.
8	5.1/5.2/6.0; Specs-AC-Page-9,11,13	Please confirm weather we have to consider proportional thermostats in AHU's/FCU's prices as these are separately quantified under BOQ item no.15.7 under subhead piping.	Shall be as per tender document.
9	15.1; Specs-AC-Page-21	Butterfly valves are available from sizes of 40mm & above. We shall be considering ball valves for sizes upto 40mm. Pls confirm.	Shall be as per tender document.
10	2; Specs-AC-Page-58	Please confirm weather we have to consider factory fabricated ducting or site fabricated ducting.	Shall be as per tender document.
11		List of Makes	Shall be as per tender document.
12		For AHUs:-	
		a) Coil Thickness : 0.41 instead of 0.44	Shall be as per tender document.
		b) Thickness of Outer sheet: 0.63 instead of 0.8	Shall be as per tender document.
		c) Outlet velocity	Shall be as per tender document.

13		Density and approved make for closed cell chemically cross linked polyethylene.	Density: 33 kg/ m3. Make: Trocellene / Supreme/ Paramount.
14		Density of under deck insulation	Density: 32 kg/ m3.
15		PN rating for balancing valve, gate valves and strainer	Shall be as per tender document.
16		Cost of insulation for chilled water pipe	Shall be as per tender document.
17		Diameter, RPM, Outlet velocity for axial, centrifugal fans as per selection software of manufactures.	Shall be as per tender document.
18		Secondary pumping system with 2-way valves.	2-way valves shall be considered instead of 3 way valves.
19	BOQ-item no.2.4.1	Hot water pump shall be Mono bloc type of the same capacity.	Shall be as per tender document.
20	BOQ-item no.5.1&5.2	Air Handling Unit - we have not included any kind of foundation and supporting arrangement for the same	Shall be as per tender document.
21	BOQ-item no.7	For item no.7 we will quote our standard Blue Star make ductable unit with standard filter.	Shall be as per tender document.
22	BOQ-item no.10.1	Tube Axial Fan - Fan RPM shall be 1440 in case of fire.	Shall be as per tender document.
23	BOQ-item no.17.0	Water Treatment system -- kindly provide detail specification with make for the same.	Shall be as per tender document.
24	BOQ-item no.20.2	Fire Dampers - Smoke Sensor will not be the part of HVAC.	Shall be as per tender document.
25	BOQ-item no.22.1&22.2	Ceiling Diffuser- square/circular diffuser, kindly clarify either the same is square or circular or notify the both in separate line item.	Shall be as per tender document.
26	BOQ-item no.35.0	Electrical Panel - ACB & MCB shall be non drawout type.	Shall be as per tender document.
27	BOQ-item no.40.0	Control Consol - control wiring will be done in item no. 39, we will not include the wiring with item no. 40.0	Shall be as per tender document.