

**Annexure- A**

**Pre-bid Queries related to Tender No: CDACP/NSM-DC-NIT-TIRUCHIRAPPALLI/20-21/328 Name of Work :Design, Site Preparation, Supply, Installation, Testing, Commissioning and AMC services of Basic Infrastructure for the establishment of a Data Center at NIT Tiruchirappalli**

<b>Name of the Bidder-- APC Schneider</b>			
<b>S. No</b>	<b>Section / Page No</b>	<b>Clause Reference</b>	<b>Type of Package</b>
		<b>Query From Bidder</b>	<b>C-DAC Response</b>
1	Section / Page No	Section IV/32 of 98 Clause Reference 7.2	Type of Package HVAC
		Adiabatic dry cooler requires make up water to ensure for effective working. Pls provide the present site water quality report which will help us to design the water treatment system if required.	Water treatment system as per P & ID is required .Municipal water with TDS < 100 and bore water is also available.
2	Section / Page No	Section IV/32 of 98 Clause Reference 7.2	Type of Package HVAC
		Pls clarify whether Local municipal water is available at site OR Borewell water is available.	Municipal water as well as bore well water is available.
3	Section / Page No	Section IV/32 of 98 Clause Reference 7.2	Type of Package HVAC
		Pls clarify the inlet and outlet water temperature from the Adiabatic Dry Cooler.	Leaving Water temperature from Adiabatic Dry Cooler should be maximum 31 Deg C and Consider Delta T as 10-13 Deg C
4	Section / Page No	Section IV/32 of 98 Clause Reference 7.2	Type of Package HVAC
		Pls clarify the required temperature tolerance for cooling water from Adiabatic Dry Cooler.	+2 Deg C.
5	Section / Page No	Section IV/32 of 98 Clause Reference 7.2	Type of Package HVAC
		Kindly allow Approved make OEM specification for the Adiabatic Dry Cooler	Adiabatic Dry Cooler should match technical specification as per Tender Document and performance as per requirement .
6	Section / Page No	Section IV/32 of 98 Clause Reference 7.2	Type of Package HVAC
		Kindly allow Approved make OEM operating logic for the Adiabatic Dry Cooler	Adiabatic Dry Cooler should match technical specification as per Tender Document and performance as per requirement .

7	Section / Page No Section IV/32 of 98 Clause Reference 7.2Type of Package HVAC	What is the minimum Bleed flow rate thru the DLC racks at very low IT load? Can we assume it to be 30 %	Bleeding flow rate of 30 LPM per rack
8	Section / Page No Section IV/32 of 98 Clause Reference 7.2Type of Package HVAC	Kindly let us know the type of flow control valve within the DLC rack.(is it 2 way OR 3 way ?)	2 Way
9	Section / Page No Section IV/32 of 98 Clause Reference 7.2Type of Package HVAC	Pls clarify what accessories / valves are required at the inlet and outlet connection of the Liquid cooled racks. (such as specifications of the ball valves / y strainers / balancing valve etc)	In P & ID Drawing it has given, Isolation valve , Y Stariner, Mechanical balancing valve is already given.
10	Section / Page No Section IV/32 of 98 Clause Reference 7.2Type of Package HVAC	Pls clarify the type of piping connection compatible to the liquid cooled racks. ( MS pipe or Flexible pipe )	Refer P & ID , Connection to DLC rack will be by 32 NB Hose pipe and same is not part of this tender scope.
11	Section / Page No Section IV/32 of 98 Clause Reference 7.2Type of Package HVAC	Pls clarify what is the maximum hydraulic pressure that the Liquid cooled racks can withstand. This is required to correctly position the pumps and also to limi the hydraulic pressure testing of the pipe line post completion of the works.	Differential pressure of 25 Kpa in Primary loop,
12	Section / Page No Section IV/32 of 98 Clause Reference 7.2Type of Package HVAC	pls clarify what type of flow control arrangement is provided for the liquid cooled racks such as 2 way modulating control valve or 3 way modulating control valve	2 Way modulating valve
13	Section / Page No Section IV/32 of 98 Clause Reference 7.2Type of Package HVAC	In case of a 2 way control valve, pls clarify what is the minimum water flow rate allowed.	Bleeding flow rate of 30 LPM per rack

14	Section / Page No Section IV/32 of 98 Clause Reference 7.2 Type of Package HVAC	Pls clarify on the fouling factor to be considered for the selection of the Dry cooler.	Fouling factor with DM water shall be .00009 meter square kelvin per watt
15	Section / Page No Section IV/40 of 98 Clause Reference 7.5 Type of Package HVAC	Regarding Horizontal centrifugal monoblock pumps. Pls allow to use vertical inline as well as Horizontal Monoblock pumps.	Allowed , This should match Tender requirement
16	Section / Page No Section IV/40 of 98 Clause Reference 7.8 Type of Package HVAC	Butterfly valves pressure rating is indicated as 16.5 KSC where as check valves pressure rating is indicated as 10.5 KSC. Kindly clarify whether we should design the system with PN10 rated valves OR PN 16 rated valves.	PN10
17	Section / Page No Section IV/40 of 98 Clause Reference 7.5 Type of Package HVAC	Kindly allow us to consider the vertical inline pumps with integral flow and pressure measuring arrangement.	Allowed
18	Section / Page No Section IV/41 of 98 Clause Reference 7.13 Type of Package HVAC	Kindly allow SITC of floor supply air grills of MS construction with powder coating since MS powder coated grills will have better load bearing capacity	As per Tender
19	Section / Page No Section IV/47 of 98 Clause Reference 9 Type of Package HVAC	Kindly allow usage of 4 X 9 TR DX PAC in place of 2 X 18 TR units	Allowed
20	Section / Page No General Clause Reference Type of Package Drawings	Kindly share the autocad version of all the RFP drawings.	Request to mmg@cdac.in
21	Section / Page No Section-IV / 29 of 93 Clause Reference 6.2 Type of Package DG Set	Daytank with capacity of 450 lit which will be external or internal.	This should be internal inside of Canopy
22	Section / Page No Section-IV / 31 of 93 Clause Reference 6.6 Type of Package TVSS	Can we select the TVSS as per the panel requirement instead of < 0.5ns.	As per Tender

23	Section / Page No Section-IV / 44 of 93 Clause Reference 9 Type of Package Early Streamer Lightning Arresstor	Site has already installed with Lightning Arresstor, still we need to consider the Lightning Arresstor.	Yes , As per Tender
24	Section / Page No Make List 73 of 85 Clause Reference Type of Package LT Cables	All the LT cables should considered with FRLS type.	As per Tender
25	Section / Page No Make List 73 of 85 Clause Reference Type of Package DG Set	DG Set Make is not indicated in Make List, the same is required.	Refer Corrigendum
26	Section / Page No General IBMS Clause Reference Type of Package General IBMS	Please provide the location of BMS room and also clarify whether new BMS room to be created or existing BMS Room to be used	There is no specific BMS room. The controls necessary for Data centre alone can be kept in the data centre itself.
27	Section / Page No Section-IV page 47 of 93 Clause Reference 8.8 Type of Package WLD	Water leak detection- Please clarify on type WLD system requirement - Conventional type with zone cable with BMS integration/Basic addressable type with BMS communication/ Addressable system with graphic display on panel . If we can go for conventional zone type WLD system , can we consider C system as given make for addressable WLD system	Addressable type with BMS communication
28	Section / Page No Clause Reference Type of Package UPS	Please confirm PF for Battery Sizing for 200KVA and 20kVA UPS. Is it 0.8 or 0.9 PF?	For IT load i.e. for UPS of 200 KVA battery selection to be on 0.92 to 0.95 power factor and for NON IT load i.e. for 20 KVA UPS battery selection to be done on 0.85 pf.
29	Section / Page No Clause Reference Type of Package UPS	Please confirm back up required for both the UPS , is it 10 min or 15 min.	Refer Section IV of Tender point no 6 Clause no 6.1 page no 29. Required information is provided in the Table.

30	Section / Page No Clause Reference Type of Package General Civil	BMS Room not shown in the Layout- Do we need to build any BMS room, if so please provide the details .	There is no specific BMS room. The controls necessary for Data centre alone can be kept in the data centre itself.
31	Section / Page No Clause Reference Type of Package Exemption in Taxes	Please elaborate GST % for all Supply of products and Services	Bidders should quote the correct Tariff Rate of GST. Any exemption/concession certificate will not be provided.
32	Section / Page No Clause Reference Type of Package Request to add clause	<p><del>B)</del> <b>SUSPENSION:</b> The Seller shall have the right to suspend the execution of works, in part to whole, due to any of the following reasons:</p> <p>i) <del>D</del> Delay or default by the Buyer in providing encumbrances free site fronts or right to access site or approach road to site.</p> <p>ii) <del>S</del> Seller Payment are withheld / suspended beyond reasonable time limit;</p> <p>If the suspension lasts for more than 90 days, the seller shall be entitled to terminate the contract. Upon such termination, Seller shall be entitled to payment of amounts for the works already carried out and all other incidental costs incurred including costs of material already ordered or under production, cost of demobilizing and liabilities due to vendors and sub-contractors of the Seller. In addition, either Party shall be entitled to suspend the work due to occurrence of any force majeure conditions, which are beyond the control of the affected Party with</p>	No Change

33	Section / Page No Clause Reference Type of Pack	<p>34. MISCELLANEOUS PROVISIONS:</p> <p>The deliverables provided by Seller under this Agreement contain or may contain components and/or technologies from the United States of America (“US”), the European Union (“EU”) and/or other nations. Buyer acknowledges and agrees that the supply, assignment and/or usage of the products, software, services, information, other deliverables and/or the embedded technologies (hereinafter referred to as “Deliverables”) under this Agreement shall fully comply with related applicable US, EU and other national and international export control laws and/or regulations.</p> <p>Unless applicable export license/s has been obtained from the relevant authority and the Seller has approved, the Deliverables shall not (i) be exported and/or re-exported to any destination and party (may include but not limited to an individual, group</p>	No Change
34	Section / Page No Clause Reference Type of Package Completion period	<p>In view of the present Pandemic situation, overall time required for manufacturing &amp; delivery to the site for equipments will be high. In view of this, request you to increase the completion period from 4 months to 6 months.</p>	As per Tender

<b>Name of the Bidder-- WQ India</b>			
<b>Sr.No</b>	<b>Section / Page No</b>	<b>Clause Reference</b>	<b>Type of Package</b>
		<b>Query from OEM</b>	<b>C-DAC Response</b>
1	Section / Page No Page no 73 , Annexure D List of Recommanded Makes Clause Reference Power Distribution Unit (PDU- Inside the Rack) : Vertiv/APC-Schneider - /Raritan/Eaton/Numeric/Enlogic Type of Package	Inclusion of WQ INDIA make for PDU	This should match Tender Technical Requirement
2	Section / Page No Page no 73 , Annexure D List of Recommanded Makes Clause Reference Racks (42 U IT and BMS ) : Schneider, Valrack, Vertiv(Emerson), EFS, Rittal, Netrack Type of Package	Inclusion of WQ INDIA make for Rack	This should match Tender Technical Requirement
<b>Name of the Bidder-- GJ Decors</b>			
<b>Sr.No</b>	<b>Section / Page No</b>	<b>Clause Reference</b>	<b>Type of Package</b>
		<b>Query from OEM</b>	<b>C-DAC Response</b>
1	Civil	UPS & Battery Room Existing AHU is Installed. So space for battery and UPS not available.	Space is sufficient