

PRE-BIQ QUERY - TECHNICAL				
<b>PACKAGE:</b> AIR COOLED CUMP CONDENSOR (WITH CST)				
<b>RFQ No:</b> T7B1R16501 / <b>NIT No.</b> 40048				<b>Date:</b> 16.08.18
S.No	Document Reference	Specification Requirement	BIDDER Clarification / Deviation	Comment Resolution BY BHEL
1	Doc No: PY-AS-4-M104-8419-01-S00-R00 Page 3 of 13, Cl 4.0 Para 4)	To facilitate auto start of ACDC, the fan motors and motor operated vent valves operation will be based on the opening of the pressure control valve i.e when the opening of the pressure control valve is more than 5% then the fans and vent valves of the ACDC will be operated	We shall provide the Motor Operated Vent valves (2" - 150#) on Tube Bundle Header and MAP Fan. Necessary system for Auto Start will not be in bidder Scope.	Noted.
2	Doc No: PY-AS-4-M104-8419-01-S00-R00 Page 4 of 13, Cl 5.0)		Fouling Resistance (Tube Side) is not provided and hence not considered. Overdesign margin - Not specified and hence not considered.	Noted.
3	Doc No: PY-AS-4-M104-8419-01-S00-R00 Page 7 of 13, Cl 7.0, pt (a)	Inlet Steam Header - 18": Flange joint of ACDC inlet with counter flange.	Our Terminal point at inlet will be at inlet flange of Tube Bundle Nozzle. There would be approx. 8 no inlet nozzle of 6" each ( 2 no inlet flange for each tube bundle).	BHEL shall terminate the inlet steam header to one point near ACDC, all the downstream distribution piping (as per the equipment designer) is including the bidder scope. The counter flange at the battery limit , along with gaskets and fasteners is included in the bidders scope of supply. Bidder to comply with the above requirement.
4	Doc No: PY-51379 Page 5 of 27, Cl 6.1, pt (g)	Even number of passes are preferred for simplicity .....	We propose to design the cooler with 1 Pass arrangement.	Noted. However, it is bidders responsibility to ensure the performance of the ACDC.

5	General		We presume IBR is not applicable. Please Advise.	Bidder understanding is correct.
6	General		Will the motors be VFD Compatible or DOL Type. Please advise	VFD is not applicable for fan motors.
7	Pg 3 of 13 Doc no: 8419-01-S00-R00 Rev 00 Dt 07.07.18 Cl.no.4 system description	The LP Steam header, pressure control valve and steam piping up to inlet terminal point of ACDC are not in ACDC vendor scope.	It is understood that the pipeline from steam header up to single terminal point (along with the flange and counter flange) will be provided by customer and from that point it is in BIDDER scope to distribute the inlet manifold evenly for the ACDC. Also Provide us the length of 18" pipe from steam header to the ACDC and the distance of terminal points which enable us to calculate the firm requirement of inlet manifold.	BHEL shall terminate the inlet steam header to one point near ACDC, all the downstream distribution piping (as per the equipment designer) is including the bidder scope. The counter flange at the battery limit , along with gaskets and fasteners is included in the bidders scope of supply. Bidder to comply with the above requirement.
8	Pg 8 of 13 Doc no: 8419-01-S00-R00 Rev 00 Dt 07.07.18 Cl no.8 & pt no. 4.1 of scope matrix	From LP header to a single point near ACC battery limit.		
9	Pg 2 of 10 Doc no: PY51385 Rev 00 Dt 10.07.18 Cl 4.1.4 General requirements	All nozzles on the vessel shall be #300 Rating	It has been specified that all nozzles shall be 300# rating. However, for the given design pressure and design temperature of ACDC, 150# will be sufficient for the nozzles. Kindly confirm whether we need to consider 300# for ACDC as well as condensate storage tank or it is applicable only for Condensate storage tank	For ACDC , Bidder to follow the piping material specification (A1A), attached as annexure-8 to the specification.  For vessel, all nozzles on the vessel shall be of # 300 rating.

10	-	-	Maximum plot area available for Air cooled condenser ( excluding Condensate storage tank).	Maximum plot area available for Air cooled condenser (excluding Condensate storage tank) is 14 M x 16 M. The plot plan sketch is attached for reference. All necessary walkaways, supporting structures, etc. shall also be accomodated inside the maximum plot area avaialble.
11			Number of open sides available for air inlet	Bidder to consider that 3 sides as open for design. One side of ACDC is covered by the condensate storage tank and pumps.

