

UCH COMPRESSION PROJECT



Design Engineering, Procurement (Supply), Construction, Installation/Erection, Pre-Commissioning, Commissioning & Start-up (including performance testing and Reliability Guarantee Test) of Compression System at UCH Compression Project

Tender Enquiry No. PROC-FC/CB/PROJ/UCH(COM)-4462/2019

PRE-BID CLARIFICATION - 32				
SR No.	Tender Document Reference	Statement	Query	Response
1	(1) PRE-BID CLARIFICATION # 28 Item No. 3; (2) Line List 0221-LS-9335-0; (3) P&ID.	The Design Temperature (200°F) and Design Pressure (1350psig) not matching with the design parameters in PIDs and DC piping spec.	As per the Company Response of PRE-BID CLARIFICATION # 28-Item No. 3, it's shown that the design pressure/temperature for DC classes in Line List 0221-LS-9335-0 (1350Psig / 200°F) should be followed. But the pressure-temperature rating of DC class (F304L, Class 600) couldn't meet the design parameters of 1350Psig/200°F, the DC1 (and DC2) piping spec couldn't meet the design parameters also because F316L and F304L are the same material group and have same pressure-temperature ratings as per ASME code. Besides, Bidder found some other issues in Line List 0221-LS-9335-0 and piping spec "DC", "DC1"&"DC2", some of them are shown as below: (1) 0221-LS-9335-0 (Line List): The design temperature (200°F) is lower than the operating temperature (255.8°F) of some lines. Please see the red rectangle marked in Attachment #1 Issues about 0221-LS-9335-0 (Line List). (2) Wall thickness of "DC", "DC1"&"DC2" specs: Some of piping and components wall thickness are not enough based on design condition 1350Psig / 200°Fof "DC", "DC1"&"DC2" specs after checked. Please see the checking result in Attachment #2 Wall thickness checking of "DC", "DC1"&"DC2" specs. (3) "DESIGN CONDITIONS" which listed in "DC", "DC1"&"DC2" specs. For the above issues Bidder has some preliminary advice and solution as followings: (1) Bidder considered that how to determine the Design pressure/Design temperature should be clarified first, please kindly check whether below recommended principle to loud be accepted: (2) If the above recommended principle is OK, then Bidder will re-check and correct the specs (wall thickness, pressure-temperature ratings, etc.). Some of the specs maybe changed to EC (F316L, Class 900: then it will be a big cost impact on piping, instrumentation, equipment etc. materials for this project compared to "DC" spec which shown on FEED P&ID, line list, etc.). Please kindly check / confirm. Operating Pressure (NOP) MOP + 5% of MOP PAH + 5% of PAH 110% of PAHH 10 to 35 barg NOP + 5% of NOP MOP + 5% of MOP PAH +	1) Please note that operating temperature range is mentioned in referred Line list i.e. 172-255.8 °F which does not mean that operating temperature shall be higher than the design temperature (200°F). Bidder to further check during detailed engineering stage. 2) Bidder to propose suitable wall thicknesses of required pipe sizes after carrying out calculations and submit for OGDCL/ENAR review/approval (as already mentioned in previous clarifications) 3) Please note that existing piping specs of UCH-II GPF have been used in this project. Also, bidder to consider all aspects for the suitability of material with respect to design parameters as per P&IDs and Line list (part of tender document). Moreover, bidder to adhere with the tender requirements stipulated in SEC-III (Scope of Work); specifically on page # 9 & 10 of 114 regarding "Vetting/Endorsement/Verification/Updation of FEED data and. Performance of any additional studies or calculations required to further define equipment or system requirements, or to demonstrate the adequacy of the proposed design."