



## 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-24

Item No.	Tender Document Reference	Query	Response
1	P&ID Drawing No. 0221-PB-2103 (Sheet 1 of 3)	We understand that the PSVs (251-PSV-001A/B/C and 251-PSV-002A/B/C) of Suction KOD of Compressors will be sized for fire scenarios.  Please confirm.	It is to note that as per SEC - III _Scope of Work, detailed engineering is in bidder's scope. Furthermore, EPCC shall check and perform all possible scenarios for selection of all new PSVs as already stipulated in SOW.
2	Section# 3.2 of Basis of design (0221-A-1001, Rev.0).	The combined compressors flow of 458 MMSCFD is split to UCH-I and UCH-II as per operating capacities of UCH-I (i.e. 286 MMSCFD) and UCH-II (i.e. 172 MMSCFD) defined in section# 3.2 of Basis of design (0221-A-1001, Rev.0).  It is assumed that simultaneous tripping/ shutdown of both plants will not occur and our basis for evaluation of the existing flare system is that one plant either UCH-I or UCH-II will be shut down at once.  Please confirm our understanding above mentioned.	Refer to Cause & Effect Matrices of UCH-II Plant and Operation & Shutdown Philosophy clear understanding. Furthermore, Bidder to design the compression facilities in such a way that the safe, continuous and trouble free operation shall be carried out for all the cases after firming detailed engineering and safety studies. No price adder shall be entertained after award of contract.
3	-	Please provide AG Piping Specification.	Please refer "AA2" spec instead of "AG" spec. Also, please refer Sr. No.12 of Pre-Bid Clarification # 12.
4	-	Globe valve tag is not mentioned in Spec A4 for 6" size.	Bidder can refer Doc. No. 0221-PA-2010-B_Specification for Valves; Pg 21 of 184 (Tag No. VGL-103) for subject globe valve.
5	Piping Specification Doc No. 4985-PA-2002-09 P&ID Drawing No. 0221-PB-2101 & 4985-PB-2124	Following information are required related to DC Piping Spec (Spec and P&ID are also attached for your reference): a. Pipe Thickness of 24", 30" & 36" is not present in spec, please provide. b. ASTM Material of all piping items related to 36" size is not present, please provide. c. Branch connections are not available for: i. 30" x 6" ii. 30" x 8" iii. 28" x 20" iv. 30" x 20" v. 30" x 24"	a) Bidder to calculate the missing pipe thicknesses w.r.t design conditions and submit for OGDCL/ENAR review & approval (after award of contract, if successful)  b) ASTM material as mentioned for 28", 30" etc. shall be applicable for 36" size also.  c) Reducing tees, weldolets and reducers can be used for mentioned sizes as per standard global practices. However, such information shall be finalized by successful EPC bidder during detailed engineering stage.



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6	<p><b>Clause-3.2.2 (Commercial Bid) of Instructions to Bidder:</b></p> <p><u>In case of Chinese Bidder/Firm foreign component of the bid to be quoted in Chinese currency (Yuan).</u></p> <p><b>Clause-3.7 (Bid Bond) of Instructions to Bidder:</b></p> <p><u>The Bidders shall furnish, as part of their Bids, a Bid Bond (Annexure -VI) of an amount of United States Dollars One (01) Million Only or equivalent in Pak Rupees.</u></p>	<p>As per Clause-3.2.2, in case of Chinese Bidder/Firm foreign component of the bid is to be quoted in Chinese currency (Yuan), therefore, we understand that Chinese Bidder / Firm is also allowed to submit Bid Bond in shape of Bank Guarantee of Chinese Currency (Yuan) of value equivalent to USD 01 Million.</p> <p>Please confirm.</p>	<p>Bid bond in equivalent Chinese Yuan is acceptable, however bidder to strictly comply to guarantee format, validity requirement and list of banks given in the tender documents</p>
7	Piping Material Specification	<p>i. In Spec BC, Flanges are of class 150#, but Gaskets are of class 300#, further the Design Pressure-Temp chart is not matching with ASME B16.5 (Material Class 2.3). Please advise which rating to follow against Spec.BC.</p> <p>ii. In Spec A2, Flanges less than 4" NPS are of 300# rating and 4" NPS and above are of 150# rating. Please confirm if the spec has multiple flange ratings (150# / 300#) or please correct if it is a typo error.</p> <p>iii. In Spec A2, A4 &amp; A6, Bolt sizes are not mentioned.</p> <p>In Spec DC, Bolt sizes of 30", 36" sizes are not present</p>	<p>i. Flanges shall be of 300# in BC spec. Bidder to follow piping specs which are part of tender document.</p> <p>ii. Typo error. Flanges shall be of 150# in A2 spec for all sizes.</p> <p>iii. Bidder can assume standard bolt sizes for relevant flanges on the basis of rating as per relevant applicable code &amp; standard..</p>