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 # 36

(Further elaboration of OGDCL/ENAR responses against previous pre-bid clarifications)

Item No.	Tender Document Reference	Query	OGDCL / ENAR Response	Further Elaboration of OGDCL/ENAR Replies
		PRE-BID CLARIFICATION # 2		
1	Scope of work for CP system	1. For this project, CP system will be considered for new facilities only . 2. No isolating joint is found in P&ID between existing piping and New piping, to minimize CP interference, pls provide existing CP system for existing buried pipings, such as ICCP or SACP, type of anodes.	1. CP system will be considered for new facilities i.e. tanks, buried pipes and any vessels etc as well as for relocated facilities .i.e. tanks & related piping. 2. No such type of information is mentioned on to P&ID's. It is the responsibility of bidder to determine the requirement of isolation joints at the time of detail engineering, and will be provided where required. Any existing information as required can be acquired during pre-bid site visit. CP system design/method/type of anodes shall be provided as per scope/criteria defined in Doc# 0221-ELA-6501 Electrical Design Basis, section#9.	Since existing CP system is based on impressed current and TR of same has been utlized for other nearby structures as well .i.e. pig launcher/reciever; therefore, new CP system to be considered for the subject project including of facilities to be relocated (diesel tank etc.) comes under the subject project. New CP system design/method shall be impressed current based on conductive polymeric anodes (Anode flex) for on-grade Storage tanks and closely distributed anode system for undergroung piping, scope and details already defined in basis of design, please refer Doc# 0221-ELA-6501 Electrical Design Basis, section#9. Requirement of isolating joints and their location is the part of detail engineering, therefore, EPCC Contractor shall determine the requirement of isolating joints during detail engineering and shall mention accordingly on to respective layout .i.e. piping layouts,CP layouts. Such type of information is not the part of process engineering, therefore, requiremnet is not justified, hence no need to mention on P & Id.
		PRE-BID CLARIFICATION # 5		
16	SEC-III Scope of Work Section 4.16 **Relocation of existing Diesel Tank, pumps and its associated systems.**	Additional equipment/material that are not suitable for further use shall be supplied by EPCC without any additional cost.. Tenderer's Query: 1, Bidder should consider the cost for additional materials in bidding stage, and the dismantled utilize evaluate report totally depends client or his consultant, so we are request client share the Bill of Quantity of additional materials. 2, Please provide P&ID, piping layout and related design documents of existing Diesel Tank, pumps and its associated systems.	1. Since the project is of EPCC nature, it is the responsibility of Contractor/bidder to evaluate the exising CP system and if it is suitable for re-use/re-utilize, as far as reasonable, shall be installed accordingly, otherwise new material shall be deisgned and provided accordingly as required. Regarding Bill of quantity, please note that it is the responsibility of bidder to visit site before submission of proposal and obtain all the information at their own and ascertain & consider all the anticipated/additional material in their scope that may require at the time of detail engineering or during execution phase. Material to be designed and shall be supplied in accordance with requirment stipulated in project/tender specifications. Deviation at later stage shall not acceptable. 2. P&ID is attached.	Same as commented above
10	-	Given the small number of new IOs on each wellhead (related to Methanol inj. Skid), we understand that these instruments are to be connected to available spare IOs in existing WHCP. Please confirm.	Bidder should collect this information during pre-bid site visit and may further clarify during pre-bid meeting.	Uch-1 1- ScadaPack357 RTU (on 07 Wells) and Cac Baker RTU 6532 on 08 wells. Space Availavlbe for I/O Points : DI=05, AI=04,DO=01 Uch-2 Siemns Simitac S7 300 PLC on 15 wells, Space Availavlbe for I/O Points : DI=35, AI=10,DO=25,AO=05

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PRE-BID CLARIFICATION # 10				
2	**SEC-III SOW** **5.0 Instrumentation and Control Engineering** Clause # 5.16	Due to the fact that is clear the request in SOW to up-grade existinig SCADA systems please provide for UCH-I plat e UCH-II plant reference of: - SCADA vendor name - SCADA model and type - SCADA date of installation	Bidder should collect relevent informtaion during pre-bid site and and further clarify during pre-bid site meeting.	**Uch-1** 1- Intech,Gregory & Cook S.A and Scheneider Electric 2-CAC Baker RTU 6532, SCADAPack 357 RTU, Intellimax HMI, Rockwell Factory Talk 10.0 3- 1999,2018,2019,2019 Cac Baker RTU's will be replaced within 2 years. **Uch-2** 1-TRC Advanced Technilogies INC 2- Siemens Simitac S7 300, Wonderware Intouch 2012 3- 2013
17	SEC-III Scope of Work Section 4.16 **Existing Cathodic protection equipment/material of aforementioned relocated diesel storage tank and piping, as far as practicable, shall be dismantled, relocated and to be installed**	Please provide documentation of existing Cathodic protection system: data sheet, drawings, details, etc.	Cathodic protection data of existing system shall be verified by bidder during pre-bid site visit and ascertain that whether it is feasible to relocate & to be used again for the new system. If it is not suitable to re-utilize then new CP system shall be designed and provided accordingly. CP system shall be designed and supplied in accordance with requirements stipulated in updated version of NACE and standards. New CP system shall be based on impressed current method and anode system based on closely distributed system shall be applied to underground piping and conductive polymeric anodes (Anode flex) for on-grade Storage tanks. All the existing data shall be acquired during pe-bid site visit.	Please refer our response against the serial no. 1 of PRE-BID CLARIFICATION # 2 (above).

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		PRE-BID CLARIFICATION # 11		
77	**SEC-III Scope of Work** Clause # 12.3.14, A Cathodic protection system shall be evaluated, supplied and installed by EPCC Contractor for corrosion protection against underground pipes and diesel tank (which will relocated from existing location) to be developed by EPCC Contractor.	Contractor understands existing CP system shall be evaluated for diesel tank and UG piping. Contractor requests Company to provide the existing CP details for consideration.	Cathodic protection data of existing system shall be verified by bidder during pre-bid site visit and ascertain that whether it is feasible to relocate & to be used again for the new system or not. If it is not suitable to re-utilize then new CP system shall be designed and provided accordingly.New CP system shall be designed and supplied in accordance with requirements stipulated in updated version of NACE standards. New CP system shall be based on impressed current method and anode system based on closely distributed system shall be applied to underground piping and conductive polymeric anodes (Anode flex) for on-grade Storage tanks	Please refer our response against the serial no. 1 of PRE-BID CLARIFICATION # 2 (above).
		PRE-BID CLARIFICATION # 12		
6	**As per Scope of work Clause: 12.3.12.5;** LAN and Telephone System shall be considrered for new MCC room. Also CCTV System is required.	Making reference to TLC systems, please provide for CCTV system: - Maker / Model / Type - existing architectura drawing - existing plant device layout information to be provide for UHC-I & UHC-II	Bidder should collect the relevent information during pre-bid site visit and shall clarify during Pre-bid site visit.	Latest available Model of the following brands shall be considrered for CCTV System; -Samsung -Sony -Panasonic -Bosh -Honeywell -Pelco

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		PRE-BID CLARIFICATION # 14		
5	**SEC-III_Scope of Work** Section 5.14	Instrument and I/O related to Methanol Injection shall be interfaced with dedicated wellhead control/SCADA system. 1,The total numbers of Methanol Injection skids required are eight(8),please provide the respective wellhead control system brand and model. 2, Please confirm that the wellhead control system have enough space and spare I/O channel for new I/O points.	Bidder should collect the relevent information during Pre-bid Site Visit and further clarify during Pre-bid meeting.	**Uch-1** 1- ScadaPack357 RTU (on 07 Wells) and Cac Baker RTU 6532 on 08 wells. Space Availavlbe for I/O Points : DI=05, AI=04,DO=01 **Uch-2** Siemns Simitac S7 300 PLC on 15 wells, Space Availavlbe for I/O Points : DI=35, AI=10,DO=25,AO=05
		PRE-BID CLARIFICATION # 26		
2	**50561-F-208** 5. Existing FT-2002 shall be replaced	Company please ty clarified maker/type/mode of existing FT in order to better understand the replacement activities to be foreseen.	Bidder should collect relevent information during pre-bid site visit and shall also be clarified during Pre-bid meeting.	Rosemout/Mass Probar/MBF-45
3	**50561-F-208** 4. This instruments shall be moved near to slug catcher (M-200) as tie-ins for FEC is to be taken after these existing instrument	Please provide maker/type/mode of existing ETU Analyzer in order to better understand te replacement activities to be foresee	Bidder should collect relevent information during pre-bid site visit and shall also be clarified during Pre-bid meeting.	Currently no BTU Analyzer is working at Uch-1 feed line. They have been shifted to other fields. However BTU Analyzer Daniel 500 of Emerson are installed at Uch-II Plant Gathering Area
5	**EXISTING SCADA SYSTEM**	Please provide reference for existing Electric SCADA System for supervision of electrical network: - Manufacturer Name and ref. Contact - SCADA Model - Existing philosophy and architecture	Bidder should collect relevent information during pre-bid site visit and shall also be clarified during Pre-bid meeting.	Kindly refer OGDCL/ENAR comment against Sr. No 2 of Pre-Bid Clarification # 10.