

Date : 11.05.2020
Venue : EmailSub : NEW 10000 MT DOUBLE WALL DOUBLE INTEGRITY AMMONIA STORAGE TANK AND ASSOCIATED FACILITIES FOR FACT-CD,
AMBALAMEDU ON LSTK BASIS

Sl. No.	Section No. of Bid Doc.	Page No.	Clause No.	Article, Paragraph No.	Requirement	Pre-bid Queries	FACT/FEDO Reply
A INSTRUMENTATION							
1	32645-01 -PS-001 SPL (INST) SPECIAL REQUIREMENT OF THE PROJECT (INSTRUMENTATION) and					Kindly provide System Architecture indicating Package PLC , Main PLC along with connectivity to New IOs & Existing IOs.FEDO shall also provide count for exiting IOs.	Already replied vide PRE-BID QUERIES: TECHNICAL-LOT 2 Section D Point No.1
	Replies to Pre-bid query dtd. 04.04.20 Instrumentation Sr. No. 5						
2	32645-14-DA-00001 Datasheet for programmable logic controller					Since, Datasheet do not indicate SIL certified PLC system. Hence, Bidder understand that standard PLC will be considered for all PLCs. Kindly confirm regarding Bidder understanding.	Already replied vide PRE-BID QUERIES: TECHNICAL-LOT 2 Section D Point No.2
	And Replies to Pre-bid query dtd. 04.04.20 Instrumentation Sr. No. 8						
3	32645-01-PS-001(SPL) INST : Special Requirement of Project	Page 3 of 38	5.1.1	2 nd Bullet Point	Supply of field instruments and control valves for the safe and efficient operation of the new and existing as per the latest specifications	Here Bidder understand that supply of any existing Field instrument is not in our scope as per paragraph mentioned on page 4 :old tank and associated instrumentation to the new control system. No new instruments / cable need to be supplied.....	Bidder's understanding is correct.
4	32645-01-PS-001(SPL) INST : Special Requirement of Project		5.2.1b		All IO modules used shall be supporting HART protocol.	Using Smart Transmitters & using HART Hand Held Communicator, all HART instruments can be easily configured. Hence no HART pass through IO cards are required for instrument configuration. Hence Standard IO Module without HART Pass through Feature shall be considered.	Tender conditions prevail.

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5	32645-01-PS-001(SPL) INST : Special Requirement of Project	7 of 38	5.2.5	Para 1	Package Item Integration Hardwired/Serial Communication with PKG PLC	Bidder don't consider any interface (hardwired as well serialcommunication) with central PLC for following Pkg items: - Public Address system - Fire Alarm System Also please confirm whether serial communication to be considered for following packages are to be considered Redundant or Non-Redundant: 1) Instr. Air Compressor 2) New Compressor PKG PLC 3) Old Compressor PKG PLC	<ul style="list-style-type: none"> • Bidder's suggestion is accepted. • Serial communication to Package PLCs is intended for Non-critical data exchange only. Hence Non redundant communication shall suffice.
6	32645-01-PS-001(SPL) INST : Special Requirement of Project	10 of 38	5.4.3		Existing Tank Instrumentation Integration : The tentative IO count is given below.	Bidder understand that the count given in Table is excluding existing compressor packages & all existing compressor IOs would be driven through existing PLCs & no additional IOs from existing compressor package to be considered. Only serial communication from Existing PLC to new Central PLC shall be considered.	I/O count given is typical and inclusive of hardwired IOs from existing compressors also. Bidder to note that as per the ongoing PLC upgradation (of relay panel) of these compressors, most of the IO will be handled/processed by the package PLC. Only limited information need to be hardwired to control room, which is to be decided during detailed engineering.
7	32645-01-PS-001(SPL) INST : Special Requirement of Project	10 of 38	5.4.3		All the RTD/ T/C IO in existing system will be converted by client to 4-20mA by installing transmitters	Kindly provide no. of existing temperature element for which TT is to be considered. In IO count table, only total AI count of 104 is mentioned.	The given I/O count is inclusive of RTD/Thermo couple I/Os
8	32645-01-PS-001(SPL) INST : Special Requirement of Project	11 of 38	5.4.6		Bidder to provide 3 nos of serial communication interface for integrating the PLCs of the existing ammonia compressor as part of the compressor interlock modification by FACT-CD.	Kindly clarify compressor interlock execution via Serial communication. Bidder do not recommend use of serial communication of any interlock modification. Serial comm. Shall only be used for information signal. Please confirm if interlocks are to be implemented between new & existing compressors.	Interlocks to be implemented between new & existing compressors are to be finalised during detailed engineering. Any such input/output to interlock shall be through hardwiring only.
9	32645-01-PS-001(SPL) INST : Special Requirement of Project	15 of 38	8		UPS	Bidder understands new UPS should cater to all existing loads as well. Kindly provide existing UPS load.	Dedicated UPS is not available for existing ammonia handling facilities. Approximately 3 KVA source power need to be considered by the bidder for the C&I of existing Ammonia Handling System (AHS-B)