

Date: 24.07.2020

Venue: Email

Sub: 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.	Subject	Bidder's Query	Owner / PMC Reply	Discipline
1.	32645-11-PS-001-SW Scope of Work	4 of 10	1.2.2	Ammonia Receipt/Unloading Facility	<p>As per ITB Clause no. 1.2.2 "The liquid header to be provided with Four nos. 50 NB liquid connecting points and similarly the vapor header to be provided with three nos. 50NB vapor connecting points for connecting to barge piping manifold using Flexible hoses.."</p> <p>Bidder understand that Flexible hoses from Barge unloading manifold to Barge piping are in owner scope & If under Bidder scope then bidder would like to confirm the Hose Material and Minimum Hose length requirement.</p> <p>Please confirm bidder understanding.</p>	Flexible hose shall be bidder's scope. The typical specification is attached as Annexure-1 .	Process
2.	32645-11-PS-001-PH Design Philosophy- Process 32645-11-PS-001-SW Scope of Work	10 of 15 4 of 10	2.9.2 1.2.8	Condenser	<p>As per Design Philosophy-Process "Condenser shall be designed for 110% of Maximum Compressor load." where as in Scope of work," Ammonia Condenser 2 nos. X 120% of maximum compressor load."</p> <p>As per 5.3 Order of precedence in design basis, Design Philosophy is a governing, So Bidder will design Ammonia condenser 110% of maximum compressor load as per design philosophy- Process.</p> <p>Please confirm bidder understanding.</p>	120% of maximum compressor duty.	Process
3.	32645-01-PS-001 PH2- Rev-3 -Mech - Static	4 of 9	2.8 & 2.9	Spray System, Tank Protection & Water Curtain System around control building	<p>As per referred ITB Clause, Water Spray System is required for Ammonia Tank as per TAC & NFPA guidelines.</p> <p>However as per TAC Manual for Hydrant clause 7.6.19 Note-6, "No water spray protection is required for ammonia spheres/tanks". Thus provision of Water Spray System for Ammonia Tank is violating TAC guidelines.</p> <p>As a general practice followed in earlier executed projects, instead of Water Spray System, Water Curtain System is provided at the top of tank.</p> <p>In view of above, Owner is requested to confirm acceptance for Water Curtain System with provision of One Ring at peripheral of tank at the top instead of Water Spray System for entire Shell area.</p>	Tender condition in conjunction with published Techno Commercial Corrigendum II shall prevail.	FF
4.	SPECIAL REQUIREMENT OF THE PROJECT (INSTRUMENTATION)	11 of 38	5.4.7	The price bid for the integration part shall be separate and shall be considered for price evaluation.	<p>Bidder understands that all Hardware, Software, Control room design etc. required for integration as per clause shall be included in base cost and separate cost required as per 5.4.7 shall only include pre-commissioning and commissioning charges for integration.</p> <p>Also, Bidder request Owner to provide revised Schedule F1 to enable to provide separate quote.</p>	The clause mentioning separate price for the integration not to be considered. Vendor to include the cost for integration also in the lumpsum price.	Instru& Contracts
5.	SPECIAL REQUIREMENT OF THE PROJECT(INSTRUMENTATION)	10 of 38	5.4.4	Existing Cable Route	Bidder request OWNER to provide cable route upto new control room. In case the route is utilising pipe rack planned for new tank, OWNER to specify space requirement for power and signal cable trays.	New control room location to be finalised by the bidder and hence cable route shall be decided during detailed engineering stage only. Bidder to consider 800mm space in the new proposed overhead pipe rack for routing of existing cables. The required cable trays, additional structural and cable laying will be in client	C&I

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						scope.	
6.	32645-02-PS-001 VL, R-2 Sub vendor list, Static	84 of 171	15	Ammonia Flare stack_Sub vendor list	Flare vendors are covered in ITB sub vendor list but same is not listed in revised sub vendor list_Static (32645-02-PS-001 VL, R-3) in addendum. Bidder proposes to proceed with listed vendor in ITB and same are indicated below. 1. AIROIL-FLAREGAS (INDIA) PVT LTD, INDRAD 2. ADOR TECHNOLOGIES LTD, PUNE 3. JOHN ZINC COMPANY LTD ,ENGLAND	Refer SI.No.54 of PrebidQuery No.5 reply	Package
7.	ITB\work_567857\MPCE_FILE_2_OF_6\Annexure-3\sub vendor list_Rotary (32645-01-PS-001 VL1, R-2)	87 of 171	9	Air Dryer Unit_Sub Vendor list	Air dryer Unit vendors are covered in ITB sub vendor list but same is not listed in revised sub vendor list_Rotary (32645-02-PS-001 VL, R-3) in addendum. Bidder proposes to proceed with listed vendor in ITB and same are indicated below. 1. ULTRAFILTER (INDIA) PVT LTD BENGALURU 2. MVS ENGINEERING LIMITED NEW DELHI 3. GASO ENERGY SYSTEMS (INDIA) PVT LTD PUNE 4. KILBURN ENGINEERING LIMITED. THANE 5. PROCESS EQUIPMENT ENGINEERING MUMBAI 6. PURIFLAIR INDIA LTD. VADODARA 7. LLOYDS STEEL INDUSTRIES LIMITED. MUMBAI 8. SAM GAS PROJECTS PVT LTD. GHAZIABAD 9. MELLCON ENGINEERS PVT LTD. NEW DELHI 10. SPX INDIA PRIVATE LIMITED. NEW DELHI 11. CLEAN AIR SYSTEMS. CHENNAI 12. DELAIR INDIA PVT LTD. GURGAON 13. INDCON PROJECTS & EQUIPMENTS LTD. NEW DELHI 14. TRIDENT PNEUMATICS PVT LTD COIMBATORE	Refer SI.No.54 of Prebid Query No.5 reply	Package
8.	SPECIFIC REQUIREMENTS OF WORK. DOC NO- 32645 – 12 – DA – 001	PAGE 1 OF 42	1.0 Civil and Structural Contractor's Scope of Work	SUBSTATION & CONTROL ROOM BLDG	Bidder understands, due to space constraint in plot plan, Substation and control room needs to be unified as Ground +1 RCC frame strbldg with walls of brick masonry with control room at first floor above the switchgear of substation without any future floor design requirement and not subjected to any blast load. Owner to confirm bidders understanding.	Tender condition shall prevail	Civil
9.	GENERAL CONDITIONS OF CONTRACT 32645-25-GCC-001 R0	20 of 34	ARTICLE-20 ACCOMMODATION AT SITE & COMMUNICATION FACILITIES	Land for temporary facility	20.2 OWNER/CONSULTANT shall allot levelled ground at convenient place in SITE within reasonable distance of the place of WORK where CONTRACTOR may build temporary structures for site office; store and fabrication shop and CONTRACTOR shall make arrangements for fencing and security. Bidder request owner to provide distance between project site and above mentioned Temporary facility land. Further please inform available quantum of area for setting up temporary facility & kindly provide mark-up of same on plot plan.	Tender condition shall prevail	Construction

ANNEXURE – 1

FLEXIBLE HOSE SPECIFICATION

FLEXIBLE HOSE FOR AMMONIA UNLOADING FROM BARGE

Flexible Hose Type : Corrugated Bellow type SS304/321 with SS304/321 wire over braiding
Size : 50 mm x 3000 mm Long
Service : For handling liquid Ammonia
Working Pressure : 50 kg/cm²
Working Temperature : -33°C
Test Pressure : 1.5 x Design Pressure
End Connections : SS304/321 flange with groove as per DIN 2512

Flange details:

Outside Dia. : 165 mm
PCD : 125 mm
Bolt hole diameter : 18 mm
No. of bolt holes : 4
Flange thickness : 18 mm
Groove ID : 72 mm
Groove OD : 88 mm