Date: 31.08.2020
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 – 12 – DA – 002- (DESIGN PHILOSOPHY- CIVIL, STRUCTURAL & ALLIED WORKS) and GEOTECHNICAL INVESTIGATION REPORT	24 of 25	8.9.0	Roof sheeting	Referred **Clause 8.9.0** states "Roofing over steel trusses shall be with non-Asbestos fibre reinforced cement corrugated sheet (as per IS:14871) roofing 6mm thick up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8mm dia. G.I. plain and bitumen washers or with self-drilling fastener and EPDM. All accessories like flashing, capping, shall be made of the above specified material. The gutter shall be of 180mm dia. half round moulded PVC." Bidder propose to use "Precoated galvalume steel sheeting of thickness 0.65mm with self-tapping screw for fixing with structural members." Please confirm	Tender Condition prevails	Civil
2.	32645 – 12 – DA – 002- (DESIGN PHILOSOPHY- CIVIL, STRUCTURAL & ALLIED WORKS) and GEOTECHNICAL INVESTIGATION REPORT	33 of 42	-	Existing structure in Unit plot plan	Bidder request to furnish the existing structure foundation drawing to understand the foundation type and access its impact on the new facility. If the existing structure is supported on pile, then existing pile may affect the new facility pile layout.	The nearby existing structure foundation drawings have already been issued in reply to prebid Query 1. The shed structure indicated in Unit plot plan is temporary structure which does not have pile foundation and this structure will be removed by owner.	Civil
3.	32645-11-PS-001-PGT (PERFORMANCE GUARANTEE)	6 of 9	5.1.f	Utility Consumption	Owner mentioned, loading toward utility consumption as per 5.1.f under performance guarantee test run clause. But, it is not clear that how many unloading cycle is to be considered per day during to estimate work cost. So Kindly request you to confirm number of unloading cycle per day to be considered to estimate work cost. Bidder recommends to consider 1 No. of loading cycle for guarantee test.	Average power consumption of 3 unloading cycles during Performance Guarantee Test Run of 72 hrs shall be considered. Refer Corrigendum published vide tech_prebid_567857.	Process
4.	-	-	-	Power Guarantee	For total power consumption estimation can you confirm that Non process load (like HVAC, Lightning, Cable losses, UPS battery charge etc.) need to be included during total power estimation?	Tender conditions along with Corrigendum published vide tech_prebid_567857 shall prevail.	Process
5.	4893 FACT tank\ ITB\ work_567857\ PROCESS_FILE_1_OF_6	26 of 80	2.12.3	Flare Stack	**Bidder's Query:** ITB specifies Flare Should be provided with dual firing system and dual flame scanner for flame detection for pilot as well as main flame indication of the same to be given in PLC. With respect to above, bidder understands that bidder shall be providing single flame front ignition panel located near equipment and two pilot burners for the flare tip with one set of thermocouple per pilot burner for flame detection. Flame detection of main flame is not generally not considered. Kindly confirm the bidder understanding. **Owner's Reply:** Flame detection of main flame is not required. However, no. of pilot burners along with individual flame detectors and all necessary fittings shall be as per standard design practice/requirement and shall be provided with sufficient redundancy as applicable for ammonia services.	Refer Corrigendum published vide along pre-bid query no.11- technical reply for no. of pilot burners. Dual firing system with single flame front ignition panel located near Flare at grade level to be provided.	Mech Package

Sl. No	Section No. of Bid Doc.	Page No.	Clause No.	Subject	Bidder's Query	Owner / PMC Reply	Discipline
					Bidder's Query: Noted reply for flame detection. For Dual firing system, Bidder suggest to consider single flame front ignition panel located near Flare. Kindly confirm bidder understanding.		
6.	Prebid query 2 Annexure -1,Area plot plan (32657-03-AP-00001)	-	-	Existing ammonia tank area unit plot plan	Bidder request Owner, to provide unit plot plan for existing ammonia tank area including following details. 1.Location of all Existing Equipments. 2.Location Pipe rack & pipe supports & cross section of pipe rack indicating Elevation.	1. Please refer uploaded Plot plan and survey drawings of the facility for the location of the existing equipments 2. Bidder to consider new Pipe rack, pipe supports & road crossing for the new facility.	Piping
7.	PROCESS_FILE_1_OF_6, 32645-11-PS-001-SW		1.3	Tie in points with existing facility	Bidder request Owner to provide Tie in location for Process tie ins .	All tie in points are located within the premises of existing Ammonia storage tank facility and barge unloading area.	Piping
8.	General	-	-	Piping Layout drawing in Existing area	Bidder request Owner, to provide existing Piping Layout & support drawing near to ammonia tank area, interconnecting pipe rack & jetty area.	Bidder to consider new Pipe rack, pipe supports & road crossing for the new facility.	Piping
9.	PROCESS_FILE_1_OF_6, 32645-11-PS-001-SW	-	1.2.2	Provision for future tanker unloading connection	As per **Clause 1.2.2**,"The unloading piping shall be provided with provision for extension to future tanker unloading adjacent to existing tanker unloading bay." Bidder understands, as a provision, Bidder will provide 2" tapping with valve & blind flange, further extension of this line up to future tanker unloading area will be carried out by Owner. Owner to confirm bidder's understanding.	Refer to pre-bid query no.10-technical reply.	~~Piping,~~ Process
10.	PIPING_FILE_3_OF_6,special requirements 32645-PS-001-		POINT NO 22,3D Modelling	3D modelling in Existing area	Bidder understands that ,3D modelling is limited to only new ammonia tank area. In existing ammonia tank area, interconnecting Piperack & jetty area 3D modelling will not be carried out . Owner to confirm bidder's understanding.	Bidder has to prepare 3D model for all new facility including existing tie in points	Piping
11.	PIPING_FILE_3_OF_6,special requirements 32645-PS-001-	-		Point no.24 Piping Deliverable in Existing ammonia tank area, jetty area & interconnecting pipe rack	Bidder understand that, Piping deliverables in existing area(existing ammonia tank ,interconnecting Pipe rack & Jetty area) shall be generated in following manner. 1.***Piping isometric*** (Extracted from 3D software; please note only piping shall be modelled for extraction of isometric purpose, any other existing/New facility shall not be modelled) 2. ***Piping GAD: -*** Existing area for which AutoCAD drawing are available same drawing shall be updated with new lines appearing in this Project. Existing area for which Drawing are not available, pipe routing mark-up shall be incorporated on existing PDF drawing. Owner to confirm bidder's understanding	Bidders understanding is correct for the Piping deliverables in the existing area. But for all new facilities deliverables shall be as per tender specifications.	Piping

Sl. No	Section No. of Bid Doc.	Page No.	Clause No.	Subject	Bidder's Query	Owner / PMC Reply	Discipline
12.	Pre-bid Query No.6 reply point no 12 & 03ES010/10	1 OF 2	1.2.1 Sr Number. i	supply of 10% excess pipe length for all size & materials	As per prebid query reply lot-6 point no 12, Mandatory spares are not required. However as per clause 1.2.1 Sr.number i (03ES010/10),it is mentioned that "*10% excess pipe shall be supplied for all sizes & material.*" In view of above, Bidder request Owner to provide clarification on above point.	Bidder shall supply 10% excess pipes for all sizes & materials .	Piping
13.	CIVIL_FILE_4_OF_6, Specific requirements of work 32645-12-DA-001	1 OF 2	Clause No-1 para -2 Pump house & Pump foundation	Requirement of Pump house	As per ITB document ,Specific requirements of work 32645-12-DA-001 , clause no-1, Para-2 ,under civil & structural work pump house is mentioned. Bidder understands that, all pumps (CW pumps, ammonia transfer pump ,Effluent transfer pumps) appearing in this project are open to sky & there is no requirement of pump house for these pumps. Owner to confirm bidder's understanding.	Bidders understanding is correct	~~Piping~~ Civil
14.	Scope of work 32645-11-001-SW Clause 1.8	7 of 10	1.8	EOT crane for Compressor house	Bidder understands that, EOT crane shall be provided for only for ammonia compressor house & for Instrument air compressor Monorail with chain pulley block is sufficient. Owner to confirm, Bidder's understanding.	Refer reply towards TQ Lot 5 point No.18	~~Piping~~ M&PCE
15.	Prebid Query Reply Lot-5 Sr. no. 24			Valve flange facing for Vapour Ammonia service	As per Owner's reply to TQ sr. no. 24 (lot-5), it is mentioned that for vapour ammonia side of the tank Flanged Valve (STSG) shall be used as per Owner's specification. Owner to note that above referred specification is not available in ITB. Bidder understands that STSG means Small Tongue & Groove type facing according to ASME B16.5. Owner to confirm Bidder's understanding and provide relevant specification for Bidder's reference.	Bidder's understanding is correct. SGST means Small Tongue & Small Groove as per ASME B16.5	Piping