

Installation of Geodesic Aluminium Dome roof in existing External floating roof tanks at Siliguri Marketing Terminal (NRL): Pre-Bid Meeting

Date: 14th February 2024 (11:00 am)
Mode: Video Conferencing (MS Teams)

Parties who attended pre-bid meeting:

WADCO BUSINESS SOLUTION
TANK TECH
SARASWATI TECHINFRA PVT. LTD.
CTS TANK SYSTEMS INDIA PRIVATE LTD.
INDUSTRIAL ENGINEERS AND FABRICATORS PVT LTD
M/S BLISS ANAND PVT. LTD.

Queries raised during the pre-bid discussion and replies furnished by NRL team is as below:

S.NO.	CLAUSE NO.	CLAUSE DESCRIPTION	QUERY	NRL's reply
1	2.0 BRIEF SCOPE OF WORK			
A	POINT B	Approval of drawing, design, QAP & ITP shall be done by competent third party like TUV, CEIL, EIL, PDIL who has experience of hydrocarbon storage tank design and inspection as per API.	Requested to add Bureau Veritas India Pvt. Ltd.in this list for third-party approval of drawing, design, QAP & ITP.	Agreed for inclusion of Bureau Veritas India Pvt. Ltd., DNV as the third-party under the clause.
B	POINT J	Rim seal fire protection system removal and fitment during dome roof installation is in vendor's scope. Any damaged occurred shall be rectified by the vendor at their own cost.	AS per OSID 108 clause 8 - If aluminium geodesic roof is installed on the tank for a capacity beyond 5000 KL, then Rim seal fire protection can be eliminated. So, there is no need of refitment of the Rim seal fire protection system.	Damage during removal shall be rectified by the vendor at their own cost, even if refitting is not required.
2	3.0 SPECIFICATION			

A	POINT O	Dome design shall comply normal and emergency venting as per API 2000. The dome shall incorporate screened peripheral circulation venting with open centre vent.	Domes designed in line with API 650 Appendix G are watertight. Recommended a free vented dome in accordance with API 650 appendix G. For an aluminium dome roof, a venting calculation are based on API650 H.5.2.2 whereas venting calculations according to API 2000 are relevant for IFR. The geodesic aluminium's dome meets API 650 specs for free vented domes, which do not require emergency vents.	Understood venting circulation is as per API 650 H.5.2.2 for internal floating roof tank. But as per OISD 244 CLAUSE 6.4.1 Fixed cum floating roof tank is considered as fixed roof tank for tank having in same dyke, which may violate dyke capacity requirement. It is mentioned that if window(vent) is provided in shell it will be considered as floating roof tank. As discussed with OISD, the shell vent in shell is as per API 2000(OISD 244, Clause 7.9 for open vent).Hence only the venting (Air circulation design) i.e Inbreathing and outbreathing shall be as per API 2000 Clause 4.3.3.1. Emergency vent is not required.
3	4.0 Materials:			
A	POINT A	Triangulated dome frame struts: 6061-T6 aluminium or equivalent to Clause API 650 G 2.	Suggested for mentioning AA 6005A-T61 also as it is equivalent to 6061-T6. The strength of AA6005A-T61 is really higher which has been reported by the Aluminium Association, and its properties are identical.	Specifications mentioned in the tender are the minimum. Higher spec materials will be acceptable at no extra cost. However other than 6061-T6 aluminium, agency has to provide the documentary evidence that properties and tolerances of the same is equivalent or higher than 6061-T6 and it conforms to Aluminium Standards and Data, as published by the Aluminium Association (Washington, D.C.).
B	POINT D	Perimeter tension/compression ring: 6061-T6 aluminium.	Same as, Point A above, suggested and proposed NRL for employing AA 6005A-T61 also as it is equivalent to 6061-T6. The strength of AA6005A-T61 is really higher which has been reported by the Aluminium Association, and its properties are identical.	Specifications mentioned in the tender are the minimum. Higher spec materials will be acceptable at no extra cost. However other than 6061-T6 aluminium, agency has to provide the documentary evidence that properties and tolerances of the same is equivalent or higher than 6061-T6 and it conforms to Aluminium Standards and Data, as published by the Aluminium Association (Washington, D.C.).
4	Scope of Supply	b) Power and water will be supplied by NRL free of cost at a single point subject to availability. Contractor will have to make their own arrangement to tap power and water from the nearby tapping points.	Please confirm that Power and water will be supplied by NRL.	Power and water will be supplied by NRL free of cost at a single point. Proper tapping / connections from the existing nearby point shall be made by the vendor at their own cost.
5	BOQ	The item description given in the BOQ. is "Installation od Dome Roof"	The scope of work clearly define that this tender is for supply & installation of Geodesic Domes. The correct description should be " supply & installation of Geodesic Dome of respective Dia of Tank. Request to modify the BOQ accordingly.	Typographical error. Correct description as "supply & installation of Geodesic Dome of respective Dia of Tank"

6	Commercial - Payment Terms			
A	Clause No. 14	Terms of payment: a) 40% payment shall be released after receipt of materials at SMT Site and joint inspection by NRL & Supplier's representative. b) 20% payment shall be released after fifty percent (50%) successful completion of installation at worksite after acceptance by EIC of NRL. c) 30% payment shall be released after successful and complete commissioning. d) 10% payment or rest of payment shall be released after complying the final inspection recommendation and submission of relevant document as mentioned in clause 2(S) and 8(A) of special conditions of contract. Agency shall submit all necessary document required for closing of contract as per GCC of NRL for release of final payment	Since , we have to make upfront payment to our sub-vendor mainly for Aluminium Metal so we request to modify these payment terms as under for smooth cash flow at our end. a) 10 % against submission of Design & drawings documents b) 60% against supply of Dome Materials at SMT site on pro-rata basis as per BOQ c) 20% payment shall be released after completion of installation at worksite after acceptance by EIC of NRL on prorata basis as per BOQ. d) 10% payment shall be released after successful and complete commissioning and after complying the final inspection recommendation and submission of relevant document as mentioned in clause 2(S) and 8(A) of special conditions of contract. Agency shall submit all necessary document required for closing of contract as per GCC of NRL for release of final payment. (On pro-rata basis as per BOQ). Further, please note that , In case NRL - SMT is not able to hand over the tanks for dome installation within three months from the date of delivery of materials then milestone (b) i.e. 20 % should be released immediately without any further delay.	Tender Condition prevails.
7	Contractual Period			
		11.CONTRACTUAL PERIOD: Agency shall comply the job within following period after awarding the date of work order: a) Design, drawing, QAP, ITP approval: 1 Month. b) Receipt of material at Siliguri Marketing Terminal: 4 Months c) Installation and commissioning after handing over the tanks by NRL: 2 Months	Requested to change the Contractual Period as under:- Agency shall comply the job within following period after awarding the date of work order: a) Design, drawing, QAP, ITP approval: 1 Month. b) Receipt of material at Siliguri Marketing Terminal: 5 Months c) Installation and commissioning after handing over the tanks by NRL: 2 Months for each tank.(4 Months for two tanks) Total contractual period shall be 10 Months.	CONTRACTUAL PERIOD: Agency shall comply the job within following period after awarding the date of work order: a) Design, drawing, QAP, ITP approval: Within 1 Month from date of PO. b) Complete Receipt of materials at Siliguri Marketing Terminal: Within 6 Months from date of PO. c) Installation and commissioning after handing over the tanks by NRL: 3 Months for two tanks. (NRL will hand over both the tanks together for parallel execution) Total contractual period shall be 09 (Nine) Months from date of issuance of the PO (Purchase Order) by NRL.

		for each tank.(4 Months for two tanks) Total contractual period shall be 9 Months.		
8	Liquidated Damage for delay			
		It is mentioned in ATC that L.D. applicable for delay is as per GCC, however this document is not available in the tender documents downloaded thru e-portal.	Please provide General Conditions of Contract (GCC) document.	Available in NRL website.
9	Bid Submission Date			
		The current bid submission date is 11:00 Hrs. of 21.02.2024	We request to extend the bid submission date by one week i.e. up to 28.02.2024	Agreed for extension up to 28.02.2024
10	10 of 52 of Tender OC34000050	Pre-qualification criteria: No dome roof manufacturers details are requested as per PQC clause	This being a highly specialized technical product, the bidder. should necessarily indicate the name of a globally reputed & accepted dome roof manufacturer with the bidding documents.	PQC cannot be modified. Agency has to supply the material as per specification mentioned in the contract
11	Clause 4.0 A, page 16 of Tender OC34000050	Material specification: Triangulated dome frame struts: 6061-T6 aluminium or equivalent to Clause API 650 G 2	Please be informed that, Aluminium alloy grade AA6005A-T6 is also accepted as equivalent material to 6061-T6. Moreover, we have got approval for many domes with the material 6005A-T6 to various projects in IOCL, HPCL, MRPL etc. Therefore, kindly approve this also as equivalent material.	Specifications mentioned in the tender are the minimum. Higher spec materials will be acceptable at no extra cost. However other than 6061-T6 aluminium, agency has to provide the documentary evidence that properties and tolerances of the same is equivalent or higher than 6061-T6 and it conforms to Aluminium Standards and Data, as published by the Aluminium Association (Washington, D.C.).
12			Is barricading to be done all around the tank and from ground level up to the height of the tank OR is localized barricading to be done only at the location where the hot job will be done.	Localized only where hot job will be done.