

**PROCEEDINGS OF THE PRE-BID CONFERENCE HELD 11<sup>th</sup> May 2022 THROUGH WEBEX, TOWARDS DESIGN, FABRICATION, TESTING, SUPPLY, INSTALLATION AND COMMISSIONING OF 100 CUBIC METER VERTICAL AIR STORAGE TANK**

The Pre-Bid Conference was held and the following T&PC and TSC members attended the meeting: -

Sl. No.	Name & Designation (T&PC)		Role
1	Dr. Ramesh Kumar. M	Chief Scientist, ACD	Chairman
2	Dr. Soumendu Jana	Chief Scientist/PR	Member
3	Dr. J. N. Balaraju	Sr. Principal Scientist / SED	Member
4	Mr. Sunil Prasad	Sr. Scientist/ALD	Member
5	Mr. S. Murugan	Sr. Principal Scientist/ATF	Member - Convener (TSC)

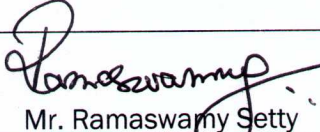
Sl. No.	Name & Designation (TSC)		Role
1	Mr. Ramaswamy Setty	Sr. Principal Scientist/ACD	Member
2	Mr. Niraj Kachhap	Scientist/NTAF	Member
3	Mr. Kamboji Prakash	STO-3/ACD	Member

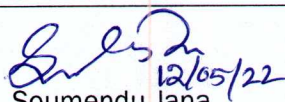
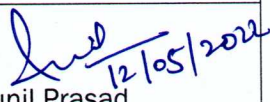
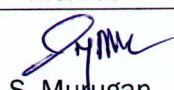
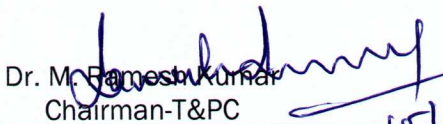

The list of Prospective bidders who attended the Pre-Bid Conference is as per **Annexure-I**.

At the outset, the Chairman welcomed all the Members and the representatives of the Bidders and briefed in general the scope of the Project. The Indenting Officer to read out the clarification sought by the bidders and the replied there to as detailed in **Annexure-II (Part A: Technical Clarification and Part B: Commercial Clarification, if any)**.

The representatives present were satisfied with the replies given and it was informed that the corrections / additions / clarifications given, as discussed during the Pre-Bid Conference would be hosted on the website of CSIR-NAL and all prospective bidders are required to take cognizance of the proceedings of the Pre-Bid Conference before formulating and submitting their bids as stipulated in bidding Documents.

The meeting ended with a vote of thanks to the Chair.

TSC Members		
 Mr. Ramaswamy Setty	- Did not Attend - Mr. Niraj Kachhap	- Did not Attend - Mr. Kamboji Prakash

T&PC Members		
- Did not attend - Dr. J. N. Bala Raju Member	 Dr. Soumendu Jana Member	 Sunil Prasad Member
 S. Murugan Member - Convener (TSC)	 Dr. M. Ramesh Kumar Chairman-T&PC	 12/5/22

**CSIR-NATIONAL AEROSPACE LABORATORIES  
BENGALURU**


**ANNEXURE II (Part A)**

**TECHNICAL QUERIES & CLARIFICATION**

**Tender No.** : NAL/PUR/ATF/201/21-Z[0]  
**Item Description** : Design, Fabrication, Testing, Supply, Installation and Commissioning of 100 cubic meter vertical Air Storage Tank.

<b>AMENDMENTS/ADDENDUM</b>		
<b>Sr. No.</b>	<b>Query / Clarification Sought</b>	<b>Amendment/Addendum</b>
1	Motorised valve details	<u>Amendment: List of deliverables, Sl.no.6 – Section 4.2, Chapter 4</u> 8-inch manual gate valve with Material of construction of valve body as per ASTM A105 forged steel shall be considered in place of Motorised Gate valve.
2	Manhole	<u>Amendment: Manhole - Section 4.3.1, Chapter 4</u> 600 mm diameter manhole shall be considered in place of 1000 mm diameter manhole.
3	Surface finish/painting	<u>Amendment: Painting – Section 4.4.5, Chapter 4</u> The exterior of the tank shall be blasted with copper slag to SA 21/2 SIS 05 5900 and treated with one coat of Zinc Silicate primer of 70 microns thick, one coat of Epoxy- two components polyamide of 70 microns thick and final top coat of Polyurethane, of 50 microns – White colour.
4	Requirement/Exemption of PESO/CCOE clearance	<u>Addendum: Inspection &amp; testing, Section 4.4, Chapter 4</u> Exemption for CCoE clearance: As per SMPV rules (2015), under Part II sec.3, general exemptions granted for air storage vessel, “..received and consumed in processing such that the gas stored with maximum working pressure shall not exceed the requirement for feeding and consuming points for a period not exceeding sixteen hours...” Since the proposed air storage tank usage for storing and processing will not exceed sixteen hours and hence PESO/CCOE clearance is not required.
5	Supply of Air for acceptance test at purchaser site	<u>Addendum: General terms &amp; condition, Section 4.7, Chapter 4</u> Necessary air required for acceptance test at purchaser site as per details under section 4.4.5 will be provided by CSIR-NAL.
6	Size of safety relief valve	<u>Addendum: Technical input – safety relief valves, Section 4.3.1, Chapter 4</u> 8-inch inlet size with flanged ends Safety relief valve having minimum orifice area of 21300sq.mm on air and gas applications. Make: Faingerleser/Equivalent

CLARIFICATIONS		
1	Requirement of drain valve	1.5-inch port with Ball valve shall be provided at straight joint (5) as per detail furnished under section 4.4.5, para 1, page 50.
2	Requirement of land filling and compacting for floor concreting	Additional filling not required; Existing soil shall be levelled, compacted and concreted as per details furnished under section 4.3.1 , Chapter 4, Civil works – Concrete flooring
3	Material of construction for gate valve, vent valve and NRV	Material of construction of valves as per ASTM A105- Forged steel
4	Material of construction of fasteners	Fasteners material for pressure connections such as blind flanges etc., shall be of SA 193. Gr. B7 bolt and SA 194 Gr. 2H for nut. Fasteners material for non-pressure parts shall conform to ASTM A-307, Gr. B. (Bolts & Nuts).
5	Material of construction of gaskets	Compressed asbestos fibre / Teflon with minimum working pressure of 40 Bar. Recommended make : Champion/ Equivalent
6	Manufacturer details of Gate valve, NRV, Vent valve, Relief valve, pressure gauges and other accessories	Any reputed manufacturer with heritage proven records, capable of supplying spares in future shall be considered. Recommended make for Gate/NRV/Vent valves: L&T/Pneucn/ Equivalent. Recommended make for Safety Relief valves: Faingerleser / Equivalent. However the manufacturer details shall be presented during preliminary design review for CSIR-NAL approval

 11/5/2022

Signature of IO & PL

( S. Murugan )

**CSIR-NATIONAL AEROSPACE LABORATORIES  
BENGALURU**

**COMMERCIAL QUERIES & CLARIFICATION**

**Tender No.** : NAL/PUR/ATF/201/21-Z[0]  
**Item Description** : Design, Fabrication, Testing, Supply, Installation and Commissioning of  
100 cubic meter vertical Air Storage Tank

Sr. No.	Query / Clarification Sought	Clarification/Amendment
— NIL —		

*mmk/20*  
13/05/2022  
Stores & Purchase Officer  
For and on behalf of CSIR



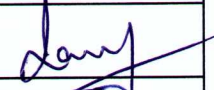
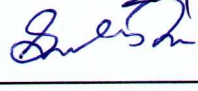
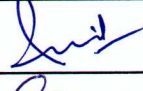
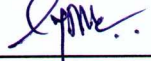
CSIR-NATIONAL AEROSPACE LABORATORIES  
BENGALURU - 560 017

TENDER NO.: NAL/PUR/ATF/201/21-Z  
DATE & TIME : 11-May-2022 @ 11.00 AM  
VENUE: THROUGH WEBEX

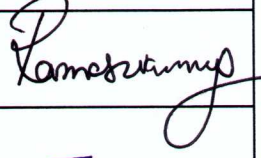
ANNEXURE - I

**Pre-Bid Conference for Design, Fabrication, Testing, Supply, Installation and Commissioning of 100 cubic meter vertical Air Storage Tank**

ATTENDANCE SHEET - T&PC MEMBERS

Sr. No.	Name			Signature
1	Dr. Ramesh Kumar. M	Chief Scientist, ACD	Chairman	
2	Dr. Soumendu Jana	Chief Scientist/PR	Member (Through WebEx)	
3	Dr. J. N. Balaraju	Sr. Principal Scientist / SED	Member	—
4	Mr. Sunil Prasad	Sr. Scientist/ACD ALD	Member	
5	Mr. S. Murugan	Sr. Principal Scientist/ATF	Member - Convener (TSC)	

Technical Sub-committee Members

Sr. No.	Name			Signature
1	Mr. Ramaswamy Shetty	Sr. Principal Scientist/ACD	Member	
2	Mr. Niraj Kachhap	Scientist/NTAF	Member	—
3	Mr. Kamboji Prakash	STO-3/ACD	Member	—