# PROCEEDINGS OF THE PRE-BID CONFERENCE HELD 30th NOVEMBER 2022 THROUGH WEBEX, TOWARDS FABRICATION AND ASSEMBLY OF TEST BOX.

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

SI. No.			Role	
1	Dr. Ramesh Kumar. M	Chief Scientist, ACD	Chairman (T&PC)	
2	Mr. T.C.Subba Reddy	Sc/Engineer 'G', ADA	External Member (TSC)	
3	Mr. Ravikumar.P	Chief Scientist, ACD	Member (TSC)	
4	Mr. J. Ramaswamy Setty	Chief Scientist, ACD	Member (TSC)	
5	Mr. Satish S Nimbal	Sr. Principal Scientist, ACD	Member (TSC)	
6	Mr. V. Mukesh	Principal Scientist, ACD	Member - Convener (TSC)	

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.

Mr. J. Ramaswamy Setty

Member

Mr. Ravikumar.P

f- like

Member

T.C. Subba Reddy External Member

Ge. Listhand

V. Mukesh

Member - Convener (TSC)

Mr. Satish S Nimbal

Member

Dr. M. Ramesh Kumar Chairman-T&PC

		CSIR-NATIONAL AE	ROSPACE LABORATORIES		
50g		BENGAL	URU - 560 017		
TENI	DER NO.: NAL/PUR/ACD/51	.2/21-Z		ANNEXURE -	
	E & TIME : 30-November-20	22 @ 11.00 AM			
-	UE: THROUGH WEBEX				
Pre-l	Bid Conference for Fabricat	tion and assembly of Test	Box		
		ATTENDANCE SHEET	- T&PC and TSC MEMBERS		
Sr. No.		. Name		Signature	
1	Dr. Ramesh Kumar. M	Chief Scientist, ACD	Chairman (T&PC)	Loury	
2	Mr. T.C.Subba Reddy	Sc / Engineer 'G', ADA	External Member (TSC)	Or- Sh read	
3	Mr. P. Ravikumar	Chief Scientist, ACD	Chairman (TSC)	Phik	
4	Mr. J. Ramaswamy Setty	Chief Scientist, ACD	Member (TSC)	Lamorum	
5	Mr. Satish S Nimbal	Sr. Principal Scientist/ ACD	Member (TSC)	A Labor	
6	Mr. V. Mukesh	Principal Scientist/ ACD	Member - Convener (TSC)	Muleur 20/a/ 2	

#### NATIONAL AEROSPACE LABORATORIES

		BENGALURU - 560	CONTRACTOR OF THE PARTY OF THE	
TENDE	R NO.: NAL/PUR/ACD/512/21-Z			ANNEXURE
DATE &	TIME : 30-November-2022 @ 11	00 AM		
/ENUE	: THROUGH WEBEX, CSIR-NAL, HA	AL Airport Road, Kodihalli, Bengal	uru-5 <mark>6</mark> 0017	
Pre-Bid	Conference for Design and Fabrica	tion of Molds for Air-intake and Duc	ct Assembly	
Sr. No.	Name of the Firm	Name & Designation of Representative	E-tender Registration (Yes/No)	Email ID
1	Indutch Composites Technology PVT Limited Gujarat	Jayesh Mewada Manager		jayesh.mewada@indutch.in
•		Madan Mohan Process Engineer	Yes	madan.mohan@indutch.in
2	RR Industries Hyderabad	Mr. V. Sreenivasa Rao Chief Executive Officer	- Yes	vsrao_rr@yahoo.com
2		Mr. M.Ramesh Designer		-
3	Valdel Advanced Technologies Pvt Limited Bangalore	Mr. Venkata Ranga Head Business Development	Yes	venkata.ranga@valdelat.com
J		Mr. Sheel Kumar Srivastava Head Engineering		sheel.srivastava@valdelat.com
	TATA Advanced Systems Limited	Mr.Muralidhar Nayak Manager - Tooling	Yes	muralidhar@tasl.aero
4		Mr.Dharnesh AR Asst.Manager		dharnesh.ar@tasl.aero
		Mr. Mukund Bhambure Business Development		mukund.bhambure@tasl.aero
		Mr. Gagandeep Manager		-
5	Kineco Limited	Mr. Rajiv Hubli Senior Vice-president	Yes	rajiv@kinecogroup.com
6	Larsen and Tourbo Limited	Mr. Karan Kosambi Assistant General Manager	Yes	KARAN.KOSAMBI@larsentoubro.com

| MUKESHV)

### **CSIR-NATIONAL AEROSPACE LABORATORIES BENGALURU**

# TECHNICAL QUERIES & CLARIFICATION

Tender No.

Item Description

: NAL/PUR/ACD/512/21-Z : Fabrication and Assembly of Test Box

Sr. No.	Query / Clarification	Sought	Clarifi	cation/Amendm	nent	factor of
1	Section 4.2.1 and 4 Delivery period of 1 requested in place of	0 months		ery period is ame r updated barch		
2	Section 4.2 Point no 8 is added			ermocol stand / plicable will be p		
3	Section 4.2.5 Point iii, iv and v is a	added	iv.	carried out uprocess follow per general MIL-A-8625. Thickness about salt fog corross electrical breamodised layer of defects. To compatible to NDT before materials have than 12.5mm range is 2.5 to non-Ferrous range.	the Aluminum sing chromic aved by hot was guidelines of the anodised later at the single resistance akdown requires shall be free the anodized primer and particle achining: Carrier machining or single section the preference of MHz for Feature at the same achining is as for the same materials. The preference of the same achining is as for the same achining is as for the same achining achining section the same achining achining section the same achining achining achining achining section the same achining achinin	acid anodizinter sealing the standar ayer shall har ons with go and also me irements. The from any kill ayer shall int finish ayout ultrasor for metallic ranickness more frequenter ous raw as he acceptan
Class	Single Discontinuity dia . FBH . mm	Multiple Discontinuity dia . FBH . mm		ance between acceptable ntinuities in mm	Linear discontinuity in mm	Loss of back wall echo permitted
В	2.0	25		25	1" of size 3/64	50%

3	Section 4.2.5 (continued) Point iii, iv and v is added	v. NDT after machining: Fluorescent Dye Penetrant test should be carried out on Aluminum alloy / metallic parts after machining / forming for any surface cracks. Apply the penetrant on the cleaned surface and dwell it minimum 20 minutes. Remove the excess penetrant and dry the part at 60-70 deg C for 15 minutes. Apply developer and inspect the part in dark room under black light for any surface cracks.
4	Section 4.2.6: Point h is added	Use the exploded view of the assembly for the design and development of assembly fixture (Refer – Exploded view of Assembly - Annexure-B)
5	Section 4.7:	Delivery of the items Days / Weeks / Months to be amended to 10 Months

Signature of 10

(MVKESH-V)

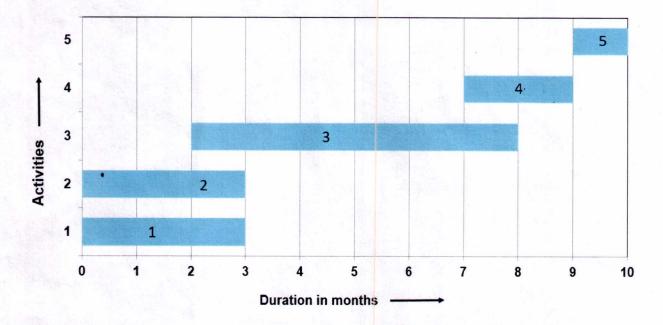
### Annexure-A

### **Updated Bar Chart**

#### 4.2.1 Time Lines for the Development Activity (Refer bar chart)

- i. Time for design and release of drawings for tools and assembly fixture: 03 months (To + 3 month)
- ii. Time for procurement of consumables and fasteners: 03 months (To + 3 months)
- iii. Time for fabrication of parts and assembly fixture: 06 months (T2 to 6 months)
- iv. Acceptance of parts and assembly fixture by NAL QA: 2 months (T7 + 2 months)
- v. Integration of test box and test article, followed by delivery to designated test centre at Jodhpur: 01 month (T9 + 1 month)

("To" denotes the date of release of purchase order from CSIR NAL)



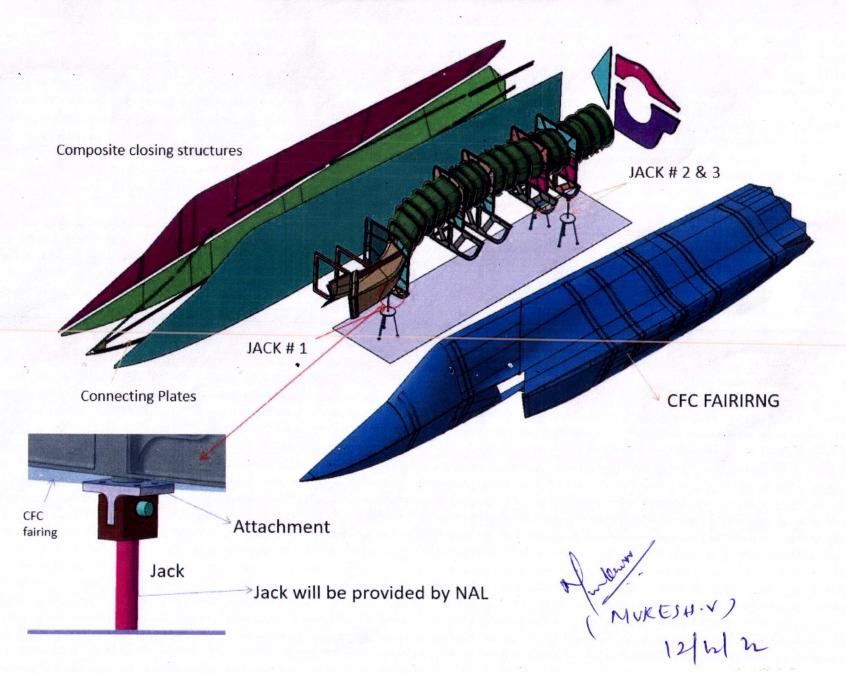
#### **List of Activities**

- 1) Design of tools and assembly fixture and release of drawings
- 2) Procurement of consumables, fasteners etc
- 3) Fabrication of parts (composite and metal) and assembly fixture
- 4) Acceptance of parts (composite and metal) and assembly fixture by NAL QA
- 5) Integration of test box with test article

Mortenial (MUKESA.V)
12/11/22

# Annexure-B

# **Exploded view of the Assembly**



### **CSIR-NATIONAL AEROSPACE LABORATORIES BENGALURU**

## **COMMERCIAL QUERIES & CLARIFICATION**

Tender No.

Item Description

: NAL/PUR/ACD/512/21-Z : Fabrication and Assembly of Test Box).

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

Stores & Purchase Officer For and on behalf of CSIR