

**PROCEEDINGS OF THE PRE-BID CONFERENCE HELD ON 08-Jun-2023 THROUGH WEBEX TOWARDS  
CFRP MOULDS-RUDDER AFT BOX.**

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


Sl. No.	Name & Designation	Role
1	Dr. Giresh Kumar Singh Chief Scientist, Dy. Head - FMCD	Chairman
2	Dr. CN Sathyanarayana Chief Scientist, Jt. Head - STTD	Alt. Chairman & Member
3	Mr. J. Ramaswamy Setty Sr. Principal Scientist, ACD	Member
4	Mr. Dilip Kumar Sahu, Sr. Technical Officer-2, CAD	Member
5	Mr. Vineet Kumar Chief Scientist, CAD	PD-SARAS Member
6	Mr. Kundan Kumar Verma Principal Scientist, ACD	Specialist Member
7	Mr. Kotresh M Gaddikeri Chief Scientist, ACD	Specialist Member
8	Mr. C. Siddeshwar Principal Scientist, ACD	Member
9	Mr. D. Karuppannan Sr. Scientist, ACD	Member - Convener (TSC)
10	COA or his/her representative	Member
11	COFA or his/her representative	Member
12	CoSP or his representative	Convener (T&PC)

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).

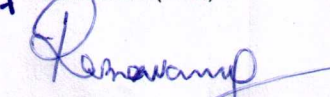
The representatives present were satisfied with the replies given and it was informed that the corrections / additions / clarifications given, as discussed during the Pre-Bid Conference would be hosted on the CPP portal/website of CSIR-NAL and all prospective bidders are required to take cognizance of 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.

  
CoSP  
Convener (TPC)

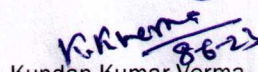
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CoFA  
Member-Finance & Accounts

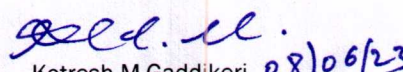
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AO  
Member- Admin


  
J. Ramaswamy Setty  
Member

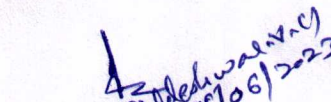
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Dilip Kumar Sahu  
Member

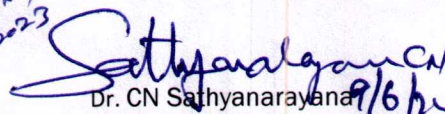
  
Vineet Kumar  
Member

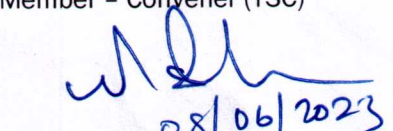
  
Kundan Kumar Verma  
Specialist Member

  
Kotresh M Gaddikeri  
Specialist Member

  
D. Karuppannan  
Member - Convener (TSC)

  
Mr. C. Siddeshwar  
Member

  
Dr. CN Sathyanarayana  
Alt. Chairman & Member

  
Dr. Giresh Kumar Singh  
Chairman-T&PC





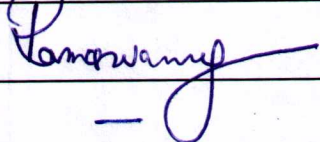
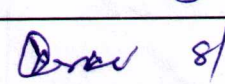
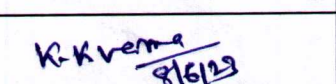
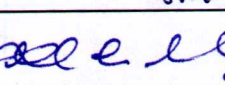
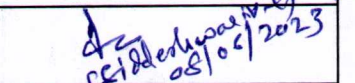


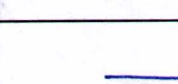
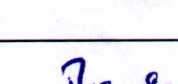
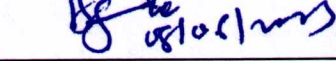
**CSIR-NATIONAL AEROSPACE LABORATORIES  
BENGALURU - 560 017**

TENDER NO.: NAL/PUR/ACD/284/22-Z  
DATE & TIME : 08-Jun-2023 @ 11:00 AM  
VENUE: THROUGH WEBEX

ANNEXURE - I

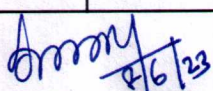
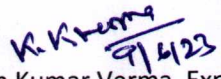

**Pre-Bid Conference for Supply of CFRP Moulds-Rudder Aft Box.**

**ATTENDANCE SHEET - T&PC MEMBERS**

Sr. No.	Name		Signature
1	Dr. Giresh Kumar Singh	Chairman	
2	Dr. CN Sathyanarayana	Alt. Chairman & Member	
3	Mr. J. Ramaswamy Setty, Sr. Principal Scientist, ACD	Member	
4	Mr. Dilip Kumar Sahu, Sr. Technical Officer-2, CAD	Member	
5	Mr. Vineet Kumar, Chief Scientist, CAD	Member	 8/6/2023
6	Mr. Kundan Kumar Verma, Principal Scientist, ACD	Specialist-Member	 K-K Verma 8/6/23
7	Mr. Kotresh M Gaddikeri, Chief Scientist, ACD	Specialist-Member	 08/06/23
8	Mr. Siddeshwar C, Principal Scientist, ACD	Member	 Siddeshwar C 08/06/2023
9	Mr. D. Karuppannan, Sr. Scientist, ACD	Member- Convenor -TSC	 D. Karuppannan 8/6/2023
10	COFA or his/her representative	Member	
11	COA or his/her representative	Member	
12	CoSP or his representative	Convenor (T&PC)	 8/6/2023



## Annexure - I

Pre-Bid Conference Online Participant's Attendance Sheet						
Tender No: NAL/PUR/ACD/284/22-Z(S)				Date : 08/06/2023 & Time : 11.00AM		
Pre-bid conference for 'Carbon Fiber Reinforced Plastics (CFRP) Mould -Rudder AFT Box'						
Meeting Start Time	Meeting End Time	Name	Attendee Email	Join Time	Leave Time	Attendance Duration
2023-06-08 10:19:14	2023-06-08 12:08:07	Advance+D3:D14d Composites Division	mjaugustin@nal.res.in	2023-06-08 10:38:43	2023-06-08 12:08:12	90 mins
2023-06-08 10:19:14	2023-06-08 12:08:07	CSIR-NAL Purchase Section	spo@nal.res.in	2023-06-08 10:58:20	2023-06-08 12:08:12	70 mins
2023-06-08 10:19:14	2023-06-08 12:08:07	Kartik Oza	kartik.oza@indutch.in	2023-06-08 10:38:44	2023-06-08 10:45:09	7 mins
2023-06-08 10:19:14	2023-06-08 12:08:07	Kartik Oza	kartik.oza@indutch.in	2023-06-08 10:45:49	2023-06-08 12:08:04	83 mins
2023-06-08 10:19:14	2023-06-08 12:08:07	Mohammad Shabbir Ansari	mashabbir@tasl.aero	2023-06-08 11:01:06	2023-06-08 12:08:12	68 mins
2023-06-08 10:19:14	2023-06-08 12:08:07	Muralidhar Nayak	muralidhar@tasl.aero	2023-06-08 11:01:16	2023-06-08 11:22:06	21 mins
2023-06-08 10:19:14	2023-06-08 12:08:07	Priyank	p.barot@gbtcomposites. com	2023-06-08 11:32:55	2023-06-08 12:02:36	30 mins
2023-06-08 10:19:14	2023-06-08 12:08:07	Priyank GBT COMPOSITES TECH LTD	p.barot@gbtcomposites. com	2023-06-08 11:15:14	2023-06-08 11:32:19	18 mins
2023-06-08 10:19:14	2023-06-08 12:08:07	Sunil Sundar	sunil@ushtara.com	2023-06-08 10:56:22	2023-06-08 11:31:15	35 mins
2023-06-08 10:19:14	2023-06-08 12:08:07	Sunil Sundar Ushtara Engineering	sunil@ushtara.com	2023-06-08 11:31:59	2023-06-08 11:50:25	19 mins
2023-06-08 10:19:14	2023-06-08 12:08:07	Valdel Advanced Technologies Pvt Ltd	venkata.ranga@valdelat .com	2023-06-08 11:00:56	2023-06-08 12:07:50	67 mins
2023-06-08 10:19:14	2023-06-08 12:08:07	vsrao	vsrao_rr@yahoo.com	2023-06-08 11:00:35	2023-06-08 12:07:51	68 mins
 Shri D Karuppahnan, I/O & Convener		 Dr. Kundan Kumar Verma, Expert Member (TSC)		 Kotresh M Gaddikeri, Project Leader		



**CSIR-NATIONAL AEROSPACE LABORATORIES  
BENGALURU**

**TECHNICAL QUERIES & CLARIFICATION**

Tender No. : TENDER NO: NAL/PUR/ACD/284/22-Z (S)  
Item Description : Supply of Carbon Fibre Reinforced Plastic (CFRP) Mould - Rudder Aft Box  
Pre-Bid meeting date : 08.06.23 at 11.00 AM by Hybrid Mode

Sr. No.	Query / Clarifications Sought	Clarifications/Amendment
1	<p>4.2.8.2 Contour inspection should also be carried out in assembled condition (LH+RH) by using Laser tracker (LT) with valid calibration in the presence of CSIR-NAL team. Contour Tolerance: <math>\pm 0.7</math> mm.</p> <p>With regard to the above clause in the tender, the following clarifications were sought.</p> <p>a) Whether contour tolerance is for full or half depth of the profile?</p> <p>b) In assembled condition of LH and RH moulds, it is not possible to check the contour along the full chord length because of narrowing section towards trailing edge.</p>	<p>a) Clarification: Contour Tolerance of <math>\pm 0.7</math> mm is for half depth of the aerofoil. The contour inspection should be carried out using a laser tracker having valid calibration. The laser tracker inspection should use one common reference for inspecting contour of LH &amp; RH moulds in assembled condition.</p> <p>b) Clarification: In assembled condition of LH and RH moulds, the contour inspection is to be carried out till the accessible area by laser tracker probe. This is already given in the Tender Clause No. 4.2.9.5.</p>

*Karuppannan D*  
9/6/2023  
Signature of I/O  
(Karuppannan D)

*KR Verma*  
9/6/23  
Signature of Expert member  
(Kundan Kumar Verma)

*Siddeshwar C*  
9/6/2023  
Signature of member  
(Siddeshwar C)

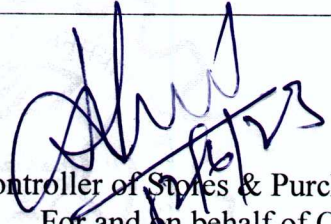
*Kotresh M Gaddikeri*  
09/06/23  
Signature of PL  
(Kotresh M Gaddikeri)

**CSIR-NATIONAL AEROSPACE LABORATORIES  
BENGALURU**

**COMMERCIAL QUERIES & CLARIFICATION**

**Tender No.** : TENDER NO.: NAL/PUR/ACD/284/22-Z  
**Item Description** : CFRP Moulds-Rudder Aft Box.

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

  
Controller of Stores & Purchase  
For and on behalf of CSIR