

Tender Id: 2024_CSIR_202187_1

PROCEEDINGS OF THE PRE-BID CONFERENCE HELD ON 9th Aug 2024..... THROUGH WEBEX TOWARDS SUPPLY OF DESIGN, MANUFACTURING, INSPECTION, SETTING & ASSEMBLY AND CERTIFICATION OF HORIZONTAL STABILIZER, ELEVATOR (LH&RH), FIN, RUDDER ASSEMBLY JIGS, ICY GAUGES WITH ASSOCIATED TOOLS FOR SARAS MK-II

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

Sl. No.	Name & Designation	Role
1	Dr. G. Balamurugan	Chief Scientist Chairman
2	Mr. Ramaswamy Setty J	Chief Scientist Member
3	Dr. Achuthan C Pankaj	Chief Scientist
4	Mr. Dilip Kumar Sahu	Sr. Technical Officer-3 Member
5	Ms. Rashmi Hundekari	Chief Scientist PD-SARAS Member
6	Mr. Siddeshwar V Charantimath	Specialist Member
7		Specialist Member
8		Member - Convener (TSC)
9	COA or his/her representative	Member
10	COFA or his/her representative	Member
	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.

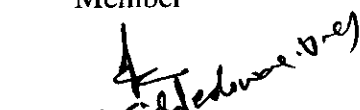
The meeting ended with a vote of thanks to the Chair.



CoSP
Convener-TPC



Dr. Achuthan C Pankaj
Member



Specialist Member

CoFA
Member-Finance & Accounts



Dilip Kumar Sahu
Member

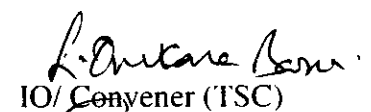
Specialist Member

J. Ramaswamy Setty
At. Chairman/Member

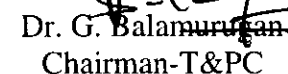
AO
Member- Admin



Rashmi Hundekari
Member



IO/ Convener (TSC)



Dr. G. Balamurugan
Chairman-T&PC

**NATIONAL AEROSPACE LABORATORIES
BENGALURU - 560 017**

TENDER ID: 2024_CSIR_202187_1
TENDER NO.: NAL/PUR/APMF/262/23
DATE & TIME : 9th Aug 2024, 11.00AM
VENUE: THROUGH WEBEX

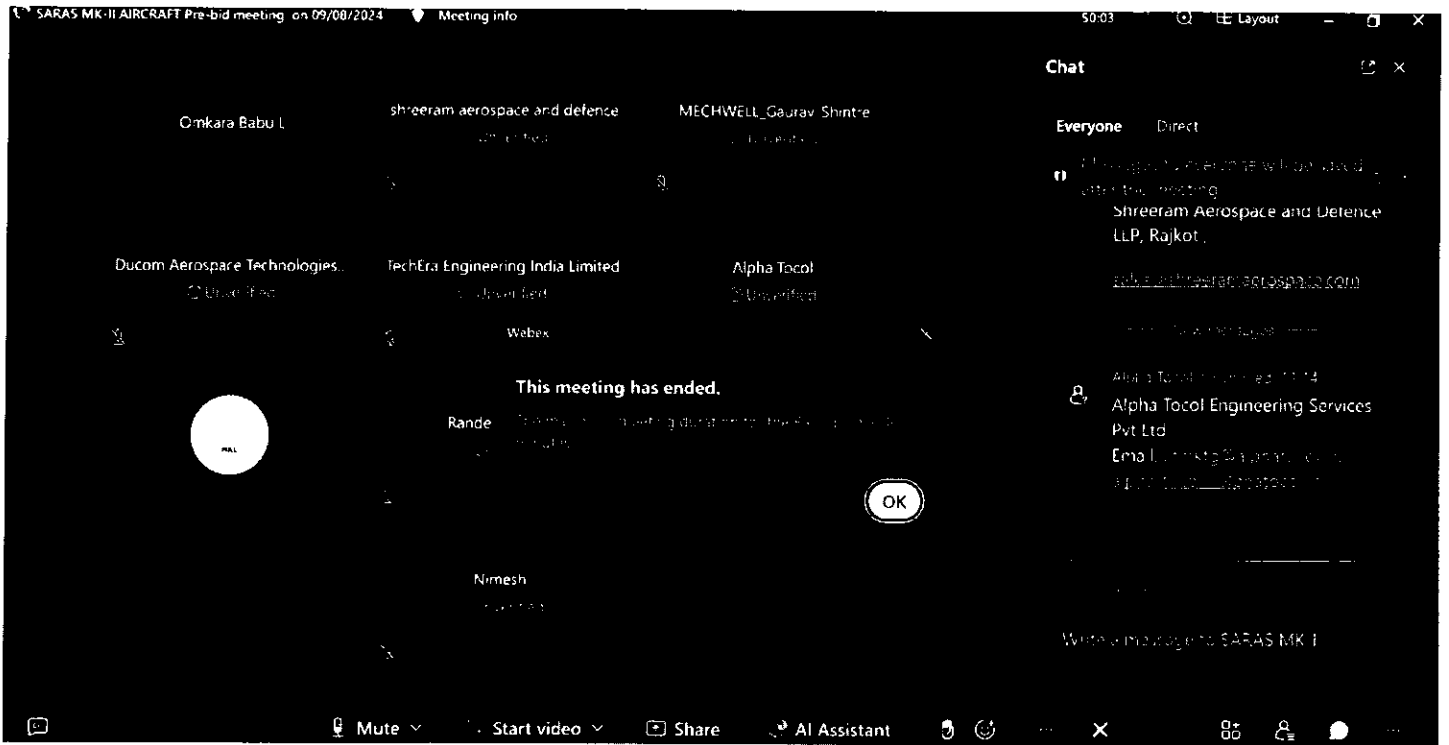
ANNEXURE - I

Pre-Bid Conference for ...DESIGN, MANUFACTURING, INSPECTION, SETTING & ASSEMBLY AND CERTIFICATION OF HORIZONTAL STABILIZER, ELEVATOR (LH&RH), FIN, RUDDER ASSEMBLY JIGS, ICY GUAGES WITH ASSOCIATED TOOLS FOR SARAS MK-II

Sl. No.	Name of the Firm	Name & Designation of Representative	E-tender Registration (Yes/No)	Email ID
1	meehwell Industries Ltd	Vivekanand Kulkarni Gokul Pawar	Yes.	gokul@meehwell.org vivekanand.kulkarni@meehwell.in
2	Aerostar Avionics Pvt Ltd	SWAMY R.S KESHAV PRASAD	Yes	swamy@aerostar.com
3	Shreekom Aerospace	GIRISH HK	Yes	Sales@ShreekomAerospace.com
4	Legend Technology (P) Pvt Ltd.	R. Vishnu Varadhan Reddy Bhagavathu.	Yes	Projects@legendtechnology.com
5	CNC India Tools & Services (P) Ltd. B. Gore -	1) SENDIL KUMAR R 2) V. Sairadh	Yes	sendil@cnc-india.com sairadh@cnc-india.com
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R. Omkare Sam

(Signature)



A. Chakraborty

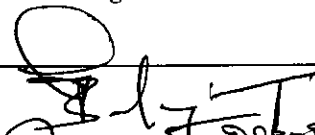
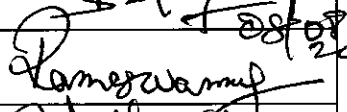
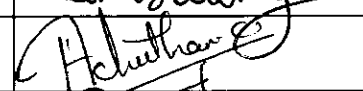
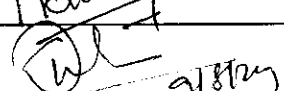
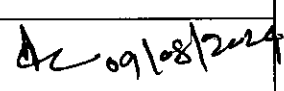
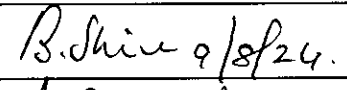
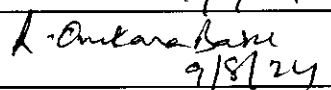
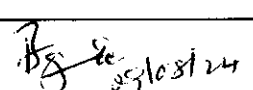
Ushakant G

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

TENDER ID: 2024_CSIR_202187_1
TENDER NO.: NAL/PUR/APMF/262/23
DATE & TIME : 9th Aug 2024, 11.00AM
VENUE: **THROUGH WEBEX / OFFLINE**

ANNEXURE - I

**Pre-Bid Conference forDESIGN, MANUFACTURING, INSPECTION, SETTING & ASSEMBLY AND
CERTIFICATION OF HORIZONTAL STABILIZER, ELEVATOR (LH&RH), FIN, RUDDER ASSEMBLY JIGS,
ICY GUAGES WITH ASSOCIATED TOOLS FOR SARAS MK-II
ATTENDANCE SHEET - T&PC MEMBERS**

Sl. No.	Name		Signature
1	Dr. G. Balamurugan	Chairman	
2	Mr. J. Ramaswamy Setty	Alt. Chairman/Member	
3	Dr. Achuthan C Pankaj	Member	
4	Mr. Dilip Kumar Sahu	Member	
	Ms. Rashmi Hundekari	PD-SARAS	
5	Mr. Siddeshwas Charandimath	Specialist-Member	
6	Mr. B. SHIVARAM	Specialist-Member	
7	L. OMKARA BABU	Indentor-Convenor -TSC	
8	COFA or his/her representative	Member	
9	COA or his/her representative	Member	
10	CoSP or his representative	Convenor (T&PC)	

**CSIR-NATIONAL AEROSPACE LABORATORIES
BENGALURU**

TECHNICAL QUERIES & CLARIFICATION

Tender Id : 2024_CSIR_202187_1

Tender No. : NAL/PUR/APMF/262/23

Item Description : Pre-Bid meeting on Design, Manufacturing Inspection Setting and Assembly and Certification of Horizontal stabilizer, Elevator (LH&RH), Fin and Rudder Assembly Jigs, ICY Gauges with Associated Tools for SARAS Mk-II Aircraft.

Sl. No.	Query / Clarification Sought	Clarification/Amendment
1	Contour template NMG tolerance?	Amendment: Added Contour template NMG tolerance ± 0.2 mm in Chp.4-Sec: 4.2.3.2 & 4.2.3.7 Sec: 4.2.3.12 & 4.2.3.17
2	Contour template Flatness tolerance?	Amendment: Added Contour template flatness tolerance ± 0.15 mm per meter length in Chp.4-Sec: 4.2.3.2 & 4.2.3.7 Sec: 4.2.3.12 & 4.2.3.17
3	Jig structure Flatness tolerance?	Amendment: Added Jig structure flatness tolerance ± 0.1 mm per meter length in Chp.4-Sec: 4.2.3.2 & 4.2.3.7 Sec: 4.2.3.12 & 4.2.3.17
4	OTP Tolerance?	Amendment: Added OTP (Optical Tooling Point) tolerance ± 0.15 mm in each axis in Chp.4-Sec: 4.2.3.2 & 4.2.3.7 Sec: 4.2.3.12 & 4.2.3.17
5	Assembly build sequence for Horizontal stabilizer, Elevator (LH&RH), Fin and Rudder Assemblies will be provided?	Clarification: Yes. Details given in in Chp.4-Sec:4.3.5
6	Regulatory authorities for inspection and certification?	Clarification: Yes. DGAQA is the only certifying authorities for inspection. Details given in in Chp.4-Sec:4.3.5
7	For CAD models, can we use any CAD Software?	Clarification: No. Only CATIA V5 R20 is to be used. Details given in Chp.4-Sec:4.3.2
8	Whether QAP will be provided by CSIR-NAL?	Clarification: No. QAP (Quality approval plan) has to be provided by Vendor in co-ordination with the QAAD, CSIR-

		NAL. Details given in Chp.4- Sec:4.3.5
9	Pre Dispatch Inspection will be carried out for each part?	Clarification: Yes. PDI to be done at Vendor's place in co - ordination with QAAD, CSIR-NAL. Details given in Chp.4- Sec:4.4.3
10	Acceptance criteria?	Clarification: Yes. Details given in Sec 4.4.5
11	Training on structural assembly?	Clarification: Yes. Tool usage instruction document should be provided by bidder. Details given in Chp.4- Sec:4.5
12	Whether drawing is needed to show all the dimensions for inspection or only Critical / Non-Critical dimensions may be shown in the drawing?	Clarification: Yes. Drawing should show all the dimensions for inspection along with Critical and Non-Critical dimensions in table.
13	Any PDR and CDR format?	Clarification: No specific format. Design concepts to be shared in ppt and 3D CAD models in Catia V520. Details given in Chp.4-Sec:4.3.2
14	Whether Drawing template will be provided by CSIR-NAL?	Clarification: Yes. Drawing template will be provided by CSIR-NAL with NAL logo and Vendor logo. Details given in Chp.4-Sec:4.3.2
15	Will CAD model is provided for bidding this tender?	Clarification: No. sufficient component description details are provided in chapter 4- Sec:4.2.3.1 & 4.2.3.6. and Sec:4.2.3.11 & 4.2.3.16.
16	Milestone deliverables details?	Clarification: Details given in Chp.4-Sec:4.8
17	Payment in stages	Clarification: Payment terms are negotiable as per CSIR norms.
18	How modification in component drawings are accounted?	Clarification: Vendor should absorb minor modifications. Major modifications will be discussed .


Signature of Indentor


Signature of Project Leader

**CSIR-NATIONAL AEROSPACE LABORATORIES
BENGALURU**

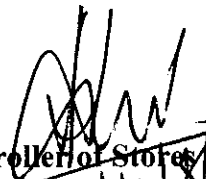
TECHNICAL QUERIES & CLARIFICATION

Tender Id : 2024_CSIR_202187_1

Tender No. : NAL/PUR/PMF/262/23

Item Description : Design, manufacturing, inspection, setting & assembly and certification of horizontal stabilizer, elevator (LH & RH), fin, rudder assembly jigs, icy gauges with associated tools for SARAS-MKII Aircraft

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


Controller of Stores & Purchase
For and behalf of CSIR