File No.: NAL/PUR//STTD/179/23 Date: 16/06/2025

Tender Id: 2025 CSIR 236570_1

PROCEEDINGS OF THE PRE-BID CONFERENCE HELD ON 16th June 2025 THROUGH WEBEX TOWARDS SUPPLY OF FAR-23 CERTIFIED PILOT AND COPILOT SEAT FOR SARAS MK II.

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

Sl. No.	Name & D	Role	
1	Dr. G. Balamurugan	Chief Scientist	Chairman
2	Dr. Achuthan C Pankaj	Chief Scientist	Alt. Chairman/Member
3	Mr. J Dhayanidhi	Chief Scientist	Member
4	Ms. Rashmi Hundekari	Chief Scientist	PD-SARAS Member
5	Mr. Prashanth R	Sr. Pr. Scientist	Specialist Member
6	Mr. Sharad Kumar	Sr. Pr. Scientist	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 reply 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.

Sr. CoSP / CoSP

Convener-TPC

Member-Finance & Accounts

Sr. CoA / CoA Member- Admin

Dr. Achuthan C Pankaj

Alt.Chairman/Member

Mr. J Dhayanidhi

Member

.

Mr. Prashanth R

Mr. Dilip Kumar Sahu Member

Ms. Rashmi Hundekari PD-SARAS Member

Specialist Member

Sharad Kumar TO/Convener (TSC)

Dr. G. Balamurugan

Chairman-T&PC

CSIR-NATIONAL AEROSPACE LABORATORIES BENGALURU - 560 017

ANNEXURE - I

TENDER ID: 2025_ CS/R_236570_1

TENDER NO .: NAL /PUR/STTD /179/23 (G)

DATE & TIME: 16/06/2025 (O 11707 Gm (15T)
VENUE: SARAS PROJECT THROUGH WEBEX
OFFICE

Pre-Bid Conference for SUPPLY OF FAR 23 CERTIFIED PROT SCO-PICOT SCATS

ATTENDANCE SHEET - T&PC MEMBERS

Sl. No.	Name	Signature		
1	Dr. G. Balamurugan	Chairman	B.L.	
2	Dr. Achuthan C Pankaj	Alt. Chairman/Member	Liku hair is	
3	Mr. J Dhayanidhi	Member	J. Wee	
4	Mr. Dilip Kumar Sahu	Member		
5	Ms. Rashmi Hundekari	PD-SARAS	Dushmi Marit	
6	Mr. Sharad Kumar	Indentor-Convenor -TSC	Marie	
7		Specialist Member		
8	PRASHANTH R	Specialist Member	Chard ()	
9	COFA or his/her representative	Member	harandy	
10	Sr. CoA / COA or his/her representative	Member	3	
11	Sr. CoSP / CoSP or his representative	Convenor (T&PC)	(B)	

CSIR-NATIONAL AEROSPACE LABORATORIES BENGALURU

TECHNICAL QUERIES & CLARIFICATION

Tender Id

: 2025_CSIR_236570_1

Tender No.

: NAL/PUR/STTD/179/23

Item Description: Supply of FAR-23 certified Pilot and Co-Pilot Seat for the Saras Mk II

Date

: 16th June 2025

Sl.	Query / Clarification Sought	Clarification/Amendment		
No.	Query , Charmenton Sought	Claimcadou/Amendment		
1	Seat Interface / Attachment	Clarification:		
	Track Specification:	The track and the interface are under the scope of the		
	A bidder asked if the floor's seat	supplier, where the supplier should comply with M		
	interface / attachment track	33601B. Additionally, CAD geometry of the cockpit floor		
	adheres to MS 33601B Standard	and a typical seat rail interface structure are provided to assist		
		bidders in understanding the interface design. It is re-		
		emphasised that the supplier must provide seat rails and seats		
		as per the tender document, which is a vital part of the		
		package.		
		TYPICAL SEAT RAIL SECTION -COCKPT FLOOR		
		Fig 1 Typical Soat Pail - Floor Interface Compate:		
2	Documentation Submission	Fig.1 Typical Seat Rail – Floor Interface Geometry		
2	Timeline Extension: (Section	Amendment: Supply of the Interface Control Document (ICD) must		
	4.6 of the tender doc)	adhere to the timelines in section 4.6 of the tender document.		
	A bidder inquired about	However, there is flexibility in providing the remaining		
	extending the documentation	documents (in section 4.2.5) up to the supply of the seats as		
	submission timeline	per the tender document.		
3	Ground Handling Equipment	Clarification:		
	(GHEs) Mentioned in Tender:	GHEs required for seat installation / storage / maintenance		
	A Bidder noted no mention of	and other services may be provided as additional items /		
	Ground Handling Equipment	accessories, and charges for these items can be listed under		
ļ	(GHEs) in the current tender			
	document.			
4	Tight Delivery Schedules:	Clarification:		
ļ	A Bidder was concerned about	_		
	the tight delivery schedules and	dules and current tender requires off-the-shelf seats with the delivery schedules as per the tender document.		
	requested an extension.			

5	Reference to SRP (Seat	Clarification:					
	Reference Point) and DEP	Dimensions provided already adhere to SRP and DEP					
	(Design Eye Point):	requirements. Bidders are encouraged to follow the specified					
	A bidder asked if there is a	seat dimensions and respect the cockpit envelopes provided					
	reference to SRP and DEP in the	therein.					
	specifications						
6	Anthropomorphic Data: A bidder inquired about	Clarification:					
	A bidder inquired about anthropomorphic data or human	The anthropometric data table is provided for bidders'					
	dimensions related to the seat.	convenience. The dimensions listed in the table are relevant					
	difference to the seat.	to the 3P to 97P pilot population. The seating system offered by the bidder should cater to the range of dimensions					
		provided in the table below.					
		· r—		Transport		ategory	1
		SI.	Anthropometry	Anthropo		ategory	
			Parameters	Dimensio		r for	İ
			<u> </u>	3P	50P	97P	
		1	Weight (Kg)	57.6	73.0	93.0	
		2	Standing height	162.7	172.7	183.8	
		3	Sitting height	83.7	89.9	96.5	
		4	Shoulder height	54.9	60.6	65.9	
		5	Leg length	99.0	107.0	116.3	
		6	Thigh length	53.5	59.2	65.0	
		7	Knee height	49.1	53.9	59.1	
		8	Arm reach	76.9	84.8	92.7	
•		9	Elbow reach	42.9	47.7	54.3	
		10	Shoulder width	40.0	44.5	53.5	
		11	Hip width	31.6	36.0	43.1	
<u> </u>		12	Eye level height	72.6	79.4	86.6	
7	Low-Fidelity CAD Model	Clarification:					
	Sharing Reiteration	A low-fidelity CAD model portion of the cockpit for					
		evaluation purposes will be shared, specifically for bidders					
		to conduct internal packaging studies. Interested bidders					
8	Dimension 'I' in Figure and	were requested to provide their email IDs for the same. Amendment:					
~	Chapter 4 Update	Dimension "I" will be updated in Figure 1 in Chapter 4					
L	p	Difficusion 1 will be upuated in Figure 1 in Chapter 4					

Signature of Indentor

Signature of Project Leader

CSIR-NATIONAL AEROSPACE LABORATORIES BENGALURU

COMMERCIAL QUERIES & CLARIFICATION

Tender Id

: 2025_CSIR_236570_1

Tender No.

: NAL/PUR/STTD/179/23

Item Description: Supply of FAR-23 certified Pilot and Co-Pilot Seat for the Saras Mk II

Date

: 16th June 2025

Sl.	Query / Clarification Sought	Clarification/Amendment		
No.				
1	Difficulty Downloading Tender Document:	Kindly refer Sl. No. 05 under General		
		Instructions to Bidders of the Tender		
		document.		
2	Excise Duty Exemption:	Only consessional Custom Duty		
		Exemption under Notification No.		
		51/96-Customs dated 23-July-1996 is		
		applicable as per Tender Clause No.		
		1.12.9 (a).		
3	Make in India Content Exemption:	MII Local content requirement is not		
ĺ		applicable to GTE. However,		
		Purchase preference to MII bidders, if		
		any is as per the Policy.		
4	Annual Turnover Cost Criteria	Equivalent currency in INR may be		
		provided.		
5	General Commercial Queries	Any commercial queries are to be		
		addressed to (purchasek@nal.res.in).		

Sr. Controller of Stores & Purchase

NATIONAL AEROSPACE LABORATORIES BENGALURU - 560 017

TENDER ID: TENDER NO.:

2025_CSIR_236570 1

NAL/PUR/STTD/179/23

DATE & TIME :

16/06/2025 @ 11:00am

VENUE: THROUGH WEBEX

Pre-Bid Conference for - SUPPLY OF FAR 23 CERTIFIED PILOT AND CO-PILOT SEATS FOR SARAS MK-II

SI. No.	Name of the Firm	Name & Designation of Representative	E-tender Registration (Yes/No)	Email ID
1	MTAR Technologies Ltd., India	Mr. Arun Krishna, Key Account Manager- Defence& Aerospace		arun.bugga@mtar.in
2	MTAR Technologies Ltd., India	Rohit Khera, Resident Director		Rohit.khera@mtar.in;
3	IAI Golan	S Amir, Projects Department Manager		samir@iai.co.il
4	IAI Golan	Avorenstein		avorenstein@iai.co.il;
5	IAI Golan	Ronen Regerman, VP Marketing	i	rregerman-inpvt@iaiworld.co.il
6	Martin Baker	C Venugopal, External Business Development, UK		VCheluvaiah@martin-baker.in;
7	Martin Baker	Alex Pritchard, Principal Design Draughtsman		
8	MANRICH SPECIALOPS INTERNATIONAL PVT LIMITED	Cdr Sreedeep Sreedharan (Retd), Assistant Director		defence@manrichdefence.com;
9	MANRICH SPECIALOPS INTERNATIONAL PVT LIMITED	Prachi Parmita, Manager- Projects		prachi@mgseating.com
10	TimeTooth Technologies Pvt. Ltd	Janhavi Nene, VP Engineering		janhavi@timetooth.com;
11	TimeTooth Technologies Pvt. Ltd	Girish Mudgal, Director		girish@timetooth.com
12	TimeTooth Technologies Pvt. Ltd	Imran, Project Manager		imran@timetooth.com

ANNEXURE - I