

**PROCEEDINGS OF THE PRE-BID CONFERENCE HELD ON 30-08-2023 THROUGH WEBEX TOWARDS PROCUREMENT OF "DUAL RAM ELECTRO MECHANICAL ACTUATORS FOR SECONDARY FLIGHT CONTROLS".**

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

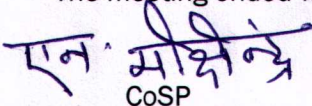
Sl. No.	Name & Designation		Role
1	Dr. G.K Singh	Chief Scientist, FMCD	Chairman
2	Dr C.N. Sathyanarayana	Chief Scientist, STTD	Member
3	Mr. Vineet Kumar	Chief Scientist, CAD	PD-SARAS Member
4	Mr. Bhaskar Chakravarthy	Chief Scientist, CAD	Specialist Member
5	Mr .Kumaresan	Sr Pricincipal Scientist	Specialist Member
6	Mr. Lakshminarayana	Chief Scientist, RNCAC	Project Leader
7	Smt. Lakshmi Devi, V.	Principal Scientist, ALD	Invitee
8	Mr. Narasimha Rao Balla	Sr.Principal Scientist, RNCAC	Member - Convener (TSC)
9	CoSP or his representative		Member - Convener (T&PC)

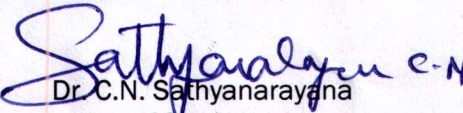
The list of Prospective bidders who attended the Pre-bid Conference is as per **Annexure-I**.

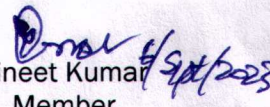
At the outset, the Chairman welcomed all the Members and the representatives of the Bidders and briefed in general the scope of the Project. The Indenting Officer to read out the clarification sought by the bidders and the replied there to as detailed in **Annexure-II (Part A: Technical Clarification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

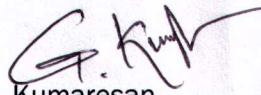
The meeting ended with a vote of thanks to the Chair.

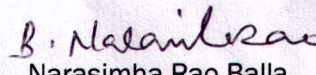
  
CoSP  
Member-Convener (TPC)

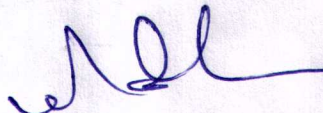
  
Dr. C.N. Sathyanarayana  
Member

  
Vineet Kumar  
Member

  
Bhaskar Chakravarthy  
Specialist Member

  
Kumaresan  
Specialist Member

  
Narasimha Rao Balla  
Member - Convener (TSC)







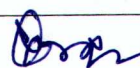

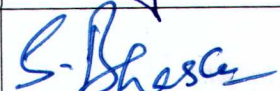
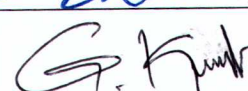

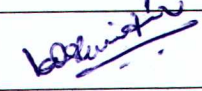
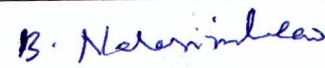


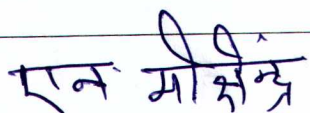
Dr. G. K. Singh  
Chairman-T&PC



NATIONAL AEROSPACE LABORATORIES				
BENGALURU - 560 017				
TENDER NO.: NAL/PUR/CAD/001/23(S)			ANNEXURE - I	
DATE & TIME : 30-08-2023 @ 11:00 AM				
VENUE: THROUGH WEBEX				
Pre-Bid Conference for Procurement of "Dual Ram Electro Mechanical actuators for secondary Flight controls"				
ATTENDANCE SHEET - PROSPECTIVE BIDDERS				
Sr. No	Name of the Firm	Name & Designation of Representative	E-tender Registration (Yes/No)	Email ID
1	M/s Ametek Instruments pvt Ltd	Narendra.CP Director-Sales		<a href="mailto:narendra.cp@ametek.com">narendra.cp@ametek.com</a>
2	M/s Sika Interplant Systems Limited	Ganesh Kumar M Product Manager		<a href="mailto:ganesh.kumar@sikaglobal.com">ganesh.kumar@sikaglobal.com</a>
		Harish Kumar G Business Development Executive		<a href="mailto:harish.kumar@sikaglobal.com">harish.kumar@sikaglobal.com</a>
3	M/s Micronel Global Engineers Pvt Ltd	Ms. Priya Ashok Manager sales		<a href="mailto:mp@micronel.com">mp@micronel.com</a>
		Mr. Mohammed Shariff Sr Maager Sales		<a href="mailto:p1@micronel.com">p1@micronel.com</a>

B. Narasimhan  
( B. NARASIMHAN )  
( Indenter )

  
( LAKSHMINARAYANA )

CSIR-NATIONAL AEROSPACE LABORATORIES			
BENGALURU - 560 017			
TENDER NO.: NAL/PUR/CAD/001/23[S]			ANNEXURE - I
DATE & TIME : 30-08-2023 @ 11:00 AM			
VENUE: THROUGH WEBEX			
Pre-Bid Conference for Procurement of "Dual Ram Electro Mechanical Actuators for secondary flight controls"			
ATTENDANCE SHEET - T&PC MEMBERS			
Sr. No.	Name		Signature
1	Dr. G.K.Singh, Chief Scientist, FMCD	Chairman	
2	Mr. J. Ramaswamy Setty, Sr. Principal Scientist, ACD	Member	
3	Mr. Dilip Kumar Sahu, Sr. Technical Officer-2, CAD	Member	
4	Mr. Vineet Kumar, Chief Scientist, CAD	Member	
5	Dr C.N. Satyanarayana	Member	
6	Mr. Bhaskar Chakravathy, Chief Scientist, RNCAC	Specialist-Member	
7	Mr Kumaresan	Specialist-Member	
8	Mr S.C. Lakshminarayana	Project Leader	
9	Smt. Lakshmi Devi, V. Principal Scientist, ALD	Invitee	
10	Mr. Narasimha Rao Balla, Principal Scientist, RNCAC	Member-Convener -TSC	
11	COFA or his/her representative	Member	
12	COA or his/her representative	Member	
13	CoSP or his representative	Member-Convener (T&PC)	




**CSIR-NATIONAL AEROSPACE LABORATORIES  
BENGALURU**

**TECHNICAL QUERIES & CLARIFICATION**

Tender No. : NAL/PUR/CAD/001/23(S)  
Item Description : Procurement of "Dual Ram Electro Mechanical Actuators for secondary flight controls)"

Sr. No.	Query / Clarification Sought	Clarification/Amendment
1	Indenter requested participants about the list of documents.	participants expressed that they want to come back with an E-mail, if any concerns are there by the end of the day. However, M/s Ametek mentioned no concerns with the list of documentation.
2	M/s Micronel raised the queries as follows 1.Actuator equipped with brushed motor. In this case no electronic control board is implemented inside the actuator to drive the electric motor. Actuation speed will be variable depending on external load applied (electric motor and kinematic chain will be sized to guarantee the requested performance at specified rated load)  2.Actuator equipped with brushless motor. In this solution the actuator will be equipped with an electronic control board to drive the electric motor at constant speed (also with variable external loads).	The physical dimensions and rate of speed as as mentioned in chapter 4 with minimum cost to be maintained.
3	M/s Micronel enquired that actuator shall have a mechanical redundancy but not electrical redundancy ( Through e mail dated 30- Aug -2023)	The physical dimensions and rate of speed as mentioned in chapter 4 with minimum cost to be maintained
4	participants were requested further any concerns/points on the Chapter4	Nil
5	participants were requested any concerns/points on the Chapter6 ( Qualification requirements)	Nil

Signature of IO & PL

  
(CAROLINE MARGRETT)