

PROCEEDINGS OF THE PRE-BID CONFERENCE HELD ON 10 December 2020 AT ICAST CONFERENCE HALL, CSIR-NAL, TOWARDS PROCUREMENT OF HEAT TREATMENT (VACUUM AND INERT ATMOSPHERE) FURNACE WITH QUENCHING FACILITY.

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

SI. No.	Name & Designation		Role	
1	Dr. C. M. Ananda	Chief Scientist, ALD	Chairman	
2	Dr. Soumendu Jana	Chief Scientist/PR	Member	
3	Mr. Vineet Kumar	Chief Scientist/ CAD	Member	
4	Mr. Saikrishna,C.N	Sr.Principal Scientist	Member - Convener (TSC)	
5	AO or his representative		Member	
6	FAO or his representative		Member	
7	CoSP/SPO 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 and thereafter requested SPO to brief the Bidders on the salient features of the commercial terms. The Indenting Officer to read out the clarification sought by the bidders and the replied thereto 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.

Dr. Soumendu Jana

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

Encl: as above.

Member - Convener (T&PC)

CoSP-Member

Admin - Member

Member - Convener (TSC)

Member

Dr. C M Ananda Chairman-T&PC

Vineet Kumar

Member

CSIR-NATIONAL AEROSPACE LABORATORIES BENGALURU - 560 017

TENDER NO.: NAL/PUR/MSD/231/20-Z

DATE & TIME :10-Dec-2020 @ 10:30 AM

VENUE: THROUGH WEBEX

Pre-Bid Conference for PROCUREMENT OF HEAT TREATMENT (VACUUM AND INERT ATMOSPHERE) FURNACE WITH QUENCHING FACILITY.

ATTENDANCE SHEET - T&PC MEMBERS

Sr. No.	Name		Signature
1	Dr. C. M. Ananda, Chief Scientist, ALD	Chairman	C.M. Swood
2	Dr. Soumendu Jana, Chief Scientist-PR	Member	
3	Mr. Vineet Kumar, Chief Scientist, CAD	Member	Over 1
4	Mr. Saikrishna, C.N, Sr. Principal Scientist, MSD	Member- Convenor - TSC	for K.V. damarely & mo
5	FAO or his representative	Member	asherety
6	AO or his representative	Member	somet day
7	CoSP/SPO or his representative	Member-Convenor T&PC	

ANNEXURE - I

NATIONAL AEROSPACE LABORATORIES BENGALURU - 560 017

R NO.: NAL/PUR/MSD/231/20-Z & TIME : 10-Dec-2020 @ 10:30 AM

VENUE: ICAST Conference Hall, CSIR-NAL, HALAirport Road, Kodihalli, Bengaluru-560017

Pre-Bid Conference for PROCUREMENT OF HEAT TREATMENT (VACUUM AND INERT ATMOSPHERE) FURNACE WITH QUENCHING FACILITY

Sr. No.	Name of the Firm	Name & Designation of Representative	E-tender Registration (Yes/No)	Email ID	Signature
1	Vaceum Teethi	Representative Mar Ranga Rose & Mar Mohan Sirath,			
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ANNEXURE - I

CSIR-NATIONAL AEROSPACE LABORATORIES BENGALURU

TECHNICAL QUERIES & CLARIFICATION

Tender No.

: NAL/PUR/MSD/231/20-Z

Item Description quenching facility

: Heat Treatment (Vacuum and inert atmosphere) furnace with

Sr. No.	Query / Clarification Sought	Clarification/Amendment
Part A:	Technical Clarification	
1.	What is the charge material and job dimensions?	Charge material is Titanium base alloys. The maximum job dimension is 200×200×200 mm ³ by volume (excluding the basket size).
2.	What is the operating pressure?	The operating pressure shall be (a) When used as vacuum furnace: Dynamic vacuum level of 2×10 ⁻² mbar (at least) (b) When used as inert atmosphere furnace: Slightly above the atmospheric pressure Note: For both (a) and (b), quenching of charge will be under positive pressure of inert gas.
3.	Does the annealing time mentioned in sl. no. 5 of section 4.2.2 of chapter 4 is the soaking time after reaching the operating temperature?	Yes 10 to 60 minutes mentioned is the actual annealing time required for the charge.
4.	Does the total cycle time mentioned as 30-90 minutes excludes the maximum heating time of 2 hours?	Yes The total cycle time mentioned for one batch of heat treatment excludes the initial furnace heating time to set temperature. Further, the total cycle time is inclusive of the charge annealing time, the time required for evacuation/argon filling of chambers, charge transfer, quenching etc.
5.	Is the furnace construction for a horizontally mounted furnace? What about the placement of the chambers - inline or otherwise?	Yes, the furnace shall be constructed as a horizontal mounted furnace. However, the placement of the three chambers need not be inline, and can be designed suitably so as to accommodate in the total floor area provided [4.25 m (L) ×4.25 m (B) ×2.50 m(H)].

6.	Do the firm's responsibility is for building furnace as per the technical specifications? The process responsibility and material characterization is responsibility of CSIR-NAL.		
7.	The scope of supply includes Pneumatic and water supply?	Yes The scope of supply includes suitable air compressor for operation of pneumatic components, and water chiller for closed loop water cooling. CSIR-NAL shall provide for input power source (415 V, 50 Hz, 3 phase supply), water medium for chiller and inert gas supply with two stage regulator.	
Part E	3: Commercial Clarification		
1.	Can the due date for submission of e-bid be extended further by 15 days? Firms feel that tender submission time is too short for equipment conceptualization, design and tender document preparation.	The due date for submission of e-bid can be extended to 7 th January 2021.	
2.	Can the furnace delivery schedule be increased to 4-5 months after placement of P.O.?	The delivery schedule can be 4 months from the date of placement of P.O.	

(C.N. Suikevielina)

M. Svjata)

CSIR-NATIONAL AEROSPACE LABORATORIES BENGALURU

COMMERCIAL QUERIES & CLARIFICATION

Tender Id

: 2020_CSIR_63025_1

Tender No.

: NAL/PUR/MSD/231/20-Z

Item Description

: Heat Treatment (Vacuum and Inert Atmosphere) Furnace with

Quenching Facility

Sr. No.	Query / Clarification Sought	Clarification/Amendment
1	Sr. No.5 - NIT / ITB Clause No.1.16 Submission of Bid Security (BS) / Earnest Money Deposit (EMD)	Sr. No.5 - NIT / ITB Clause No.1.16 Submission of Bid Security (BS) / Earnest Money Deposit (EMD)
	Rs.1,00,000/- [Rupees One Lakh Only]	BIDDER TO SUBMIT BID SECURING DECLARATION.
	The Bid Security/Earnest Money Deposit shall be deposited through Bank Guarantee/Demand Draft drawn in favour of "The Director, National Aerospace Laboratories, Bengaluru". The original Bid Security/EMD must be delivered to address mentioned in Sr.No.1 above on or before bid submission date and time as mentioned in "Date Sheet" failing which the bid shall be summarily rejected.	Refer Annexure-B, Chapter -8] The Bid Security Declaration in the name of "The Director, National Aerospace Laboratories, Bengaluru" to be part of the Technical Bid, failing which the bid is liable to be rejected.
2	Performance Security The amount of the Performance Bank Guarantee shall be 10% of the contract value to be submitted within 21 days from the date of PO valid up to 60 days after the date of completion of performance obligations including warranty obligations.	GCC /SCC Clause 2.13.1 Performance Security The amount of the Performance Bank Guarantee shall be Three Percent (3 %) of the contract value to be submitted within 21 days from the date of PO valid up to 60 days after the date of completion of performance obligations including warranty obligations.

Controller of Stores & Purchase For and behalf of CSIR