

CSIR-NATIONAL AEROSPACE LABORATORIES  
Knowledge & Technology Management Division (KTMD)  
PB 1779, HAL Airport Road, Kodihalli,  
Bangalore-560017

Tel # 080 25086132/6135/6194 Fax # 080 25086009  
Email: [vasant71@nal.res.in](mailto:vasant71@nal.res.in), [kapchary@nal.res.in](mailto:kapchary@nal.res.in)

January 2, 2023

Dear Sir/Madam,

Sub: Request for Quotations for NAL stall design and fabrication on turnkey basis in AERO INDIA 2023 to be held at Air Force Station, Yelahanka, Bengaluru from 13-17 February, 2023

Note: RFQ to be submitted in Two Bid System

- (i) Technical Bid: Design Bid with Technical Specification
- (ii) Commercial Bid: Commercial bid will be opened Only for designs shortlisted by the NAL internal committee

Bid Submission	Last Date of Submission	Opening Of Bid (Date & Time)
Technical Bid – soft copy by E-mail.	Jan.23, 2023 till 5PM	January 24, 2023 at 11AM at - CSIR-NAL
	Only Shortlisted Designs will be informed by January 25, 2023 by e-mail.	
Commercial Bid - in a separately sealed cover to be sent by speed post or courier or in person	Jan.23, 2023 till 5PM	January 27, 2023 at 11AM at CSIR-NAL. <u>Only Shortlisted Designs Commercial Bids will be Opened.</u>

\*\*\* DISCLAIMER: CSIR-NAL is not responsible for any delay in receiving the bids.

Last date for the submission of both BIDS at CSIR-NAL, Bangalore is **23<sup>rd</sup> January 2023** (on or before **05.00 pm**).

**Technical Bid by e-mail to:** [vasant71@nal.res.in](mailto:vasant71@nal.res.in), [kapchary@nal.res.in](mailto:kapchary@nal.res.in) (soft copy is preferred in PDF or JPEG). Please provide the details of nodal point of contact for communicating with CSIR-NAL

**Commercial Bid in Sealed Cover** clearly mentioning “COMMERCIAL BID FOR AERO INDIA 2023 STALL DESIGN” to be sent by speed post or courier or in person to the following address:

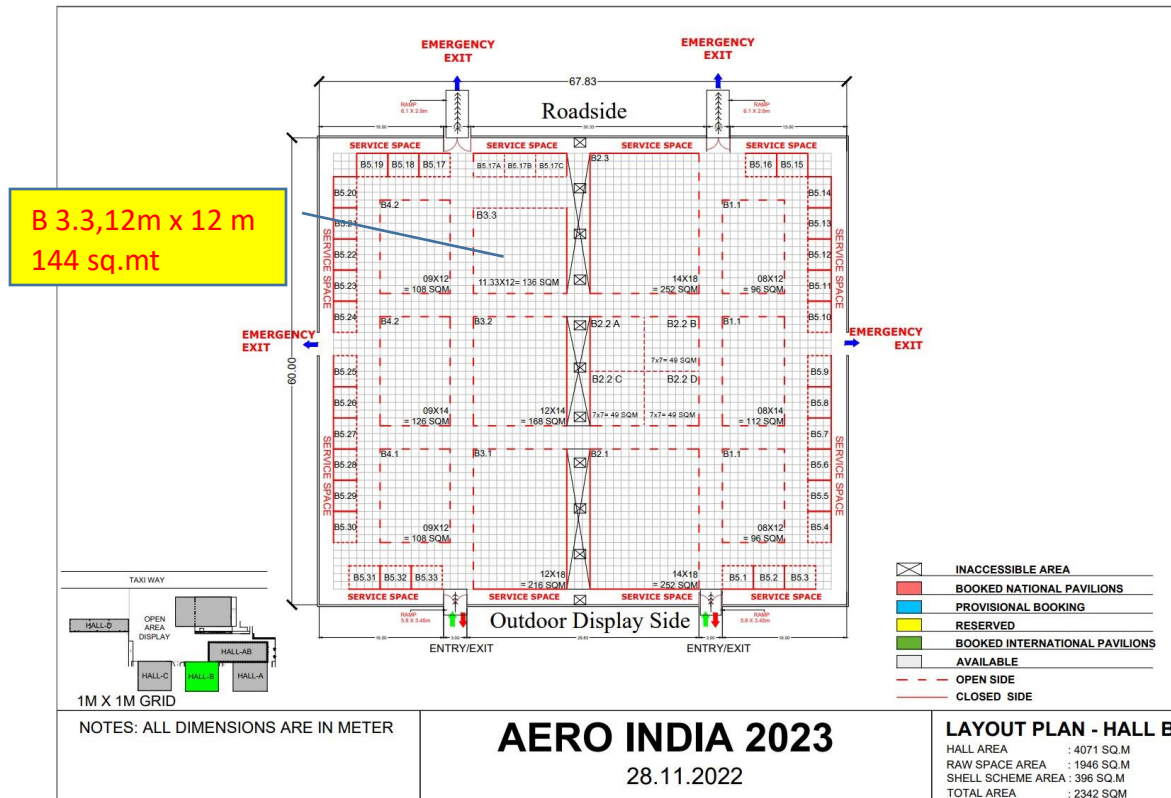
Mr. Vasant Pilare  
Pr. Scientist,  
Knowledge & Technology Management Division (KTMD)  
PB 1779, HAL Airport Road, Kodihalli, Bangalore-560017  
Tel: 080-25086132 Mob: 9845909388  
E-mail: [vasant71@nal.res.in](mailto:vasant71@nal.res.in)

## General Information

- NAL stall is located in **Hall B (B3.3)** (Copy of Exhibition Floor Plan attached with NAL space indicated in yellow shade)
- NAL has **raw indoor space of 144 mt** ( 12 m width x 12 m length)
- NAL stall has opening on three sides as shown in the figure
- List of exhibits to be displayed are attached

## WORK SCOPE

- Conceptualizing, designing, drafting and construction of theme based exhibition pavilion - Designer Pavilion with Wooden Construction.
- **Design should be creative with new concepts.** It should be free from any imitation and infringements of **third party intellectual property rights.**
- Fabrication and installation of customer specific stand designs.
- To provide Graphics, Focus Lighting, Signage, Vinyl cuttings, Wooden flooring, Electrical points, etc. complete as per RFQ.



## DETAILS OF STALL DESIGN

The stall design will include the following:

- The preferred layout plan of the stall with location of RTA mock-up, Conference Hall, Pantry & Store Room with dimensions is shown in [Annexure-1, firms need to stick to this layout plan.](#)
- The stall innovative designs and aesthetics shall be based on the layout plan in Annexure-1

**Display podiums (low height – 20 inches) should have electrical connections (5amp/15 amp) and display boards (acrylic) of appropriate size (A4) for exhibits.**

### Sample podiums for reference



### A. PRODUCTS TO BE DISPLAYED ON PODIUMS

1) Display podium size – 20 inches (Height) x 2.5 ft (width) x 3 ft (length) = **15 nos. Podium in Total**

- 1A exhibit - 2.5 m WT Model
- 2A exhibit - e VTOL
- 3A exhibit - Carbon Fiber & Prepreg
- 4A exhibit – Wankel Engine
- 5A exhibit - Eco-friendly process for Al alloy
- 6A Exhibit – Stealth technologies & FSS Radome
- 7A Exhibit – Multi Zone Hot Bonder
- 8A EXHIBIT - Autoclave

**All above exhibits need power points (5/15 amp) & plug points – 20 nos. in Total**

1A exhibit – 2.5 m WT Model (podium height – 20 inches)



2A exhibit - e VTOL (podium height – 20 inches)



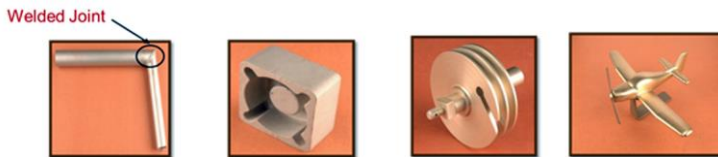
3A exhibit - Carbon Fiber & Prepreg (podium height – 20 inches)



4A exhibit – Wankel Engine (podium height – 20 inches)



5A exhibit - Eco-friendly process for Al alloy (podium height 20 inches)



6A Exhibit – Stealth technologies & FSS Radome (podium height 20 inches)



7A Exhibit – Multi Zone Hot Bonder (podium height 20 inches)



8A Exhibit – Autoclave (podium height 20 inches)



#### **B. SPACE FOR RTA MOCKUP DEMONSTRATION**

- **Space of 15 feet x 25 feet** at the Left hand corner of the stall as shown in **Annexure-1**
- **Base strong enough to withstand weight of 500-600 kg and fixtures.**
- Covered space with front open along 15' width (2 side walls 6 feet in length) with top covered consisting of focused lights. Inside of walls black painted with front wall white. The design should be aesthetic and integral part of the overall stall design.
- Lights, power points and plug points 10 nos. (5A/15 A) along with 1 pedestal fan
- Tables standard octonorm tables – 3 nos.





### **C. PRODUCTS TO BE DISPLAYED ON FLOOR**

- 1) Location for Aircraft Models



RTA



SARAS MKII



HANSA-NG

### **D. OTHER REQUIREMENTS**

- 1) DIGITAL LED SCREEN 75 inches (**1 nos.**) and 55/65 inches (**6 nos**) wall fixing and CONCEALED WITH THE WALL and auto-play with USB. The screen should be capable of playing videos ( both vertical & horizontal) /interface from pen drive/USB.
- 2) Reception table with two chairs and brochure stand of 5-7 compartments
- 3) **One Receptionist & One helper for all 5 days**
- 4) Three discussion table with six chairs
- 5) Fabricating **CONFERENCE ROOM** of suitable size as shown in Annexure-1. The wall facing walkway should be glass partition (full length & height). The conference hall shall be provided with 3+2+2 high quality sofa, side glass tables-2, center big glass table-1 of high quality, brochure stand, Glass door 3 feet width, power points for laptop etc., complete

- 6) Fabricating **STORE ROOM AND PANTRY** of size as shown in **Annexure-1** including supply of following
  - (a) Coffee vending machine including refills /consumables with disposable cups (approx. to make 150 cups per day)
  - (b) Mini refrigerator, and
  - (c) Water dispenser with RO filtered water-can and disposable cups.
- 7) Provide Graphics, Lighting, Signage and Vinyl cutting for fascia, focus lights for models etc. complete as required for the stall
- 8) **Wooden platform** capable of withstanding heavy weights with contrast colour wooden flooring as per your design
- 9) **Stanchion tape** barrier with stand for covering **entire stall** opening sides to prevent crowd
- 10) Backlit Poster (**TRANSLIT FILM QUALITY**) of required numbers (approximately **4 nos.** of size 8ft (H) x 10 ft (L) – out of 4, one is **perforated vinyl poster** to be fixed on the glass partition of Conference Hall. Maximum **10 nos. of size 3 feet x 5/6 feet** ) and at the desired location. The backlit posters should be **flush with the wall (NO box type projecting outside the wall)** as shown in the following figure. **ALL POSTERS DESIGNS WILL BE PROVIDED BY NAL.**

**Sample for backlit poster arrangement**



**QUOTATION IN TWO STAGE BID SYSTEM**

- Firms are requested to quote for design and fabrication on **TURNKEY BASIS**
- The final cost/quote shall include all levies and taxes (GST). The TDS will be deducted as per the existing rules while making payment.
- **CSIR-NAL will NOT pay/reimburse any SECURITY DEPOSIT and/or ONE TIME ROYALTY if any paid by the vendor to the organizers such as DEO or CII or Service Provider etc., whatsoever in nature.** The quoted rate should be for the final fabrication and installation at Yelahanka Airforce Station, Bangalore including transportation, labour, materials etc. complete in all respect. Any conditional offers will be summarily rejected.
- The quotation shall also include contractor pass charges and electrical charges for fabrication of stall before the starting of the event.
- You are requested to provide **MAXIMUM 2 DESIGN OPTIONS. RATE FOR EACH DESIGN SHOULD BE QUOTED SEPARATELY IN A SINGLE COVER.**



- **CSIR-NAL being the government organization NO ADVANCE PAYMENT request is considered and quotes with advance payment terms will be rejected.**
- Stand design should be innovative and of international standards
- Complete solution to stand construction, lighting, signages, stall name, flooring, interiors etc.,
- Cost effective and high quality construction
- Quality checks on materials and workmanship
- **Delivery of the fabricated stall by 3 pm on 10<sup>th</sup> February 2023**

**Note**

- The organizational Committee reserve the right to accept or reject any or all the quotations without assigning any reason.
- The organization also reserves the right to cancel the whole quotation process
- For more details and any clarifications, please contact Event Coordinators **Mr.Vasant Pilare (Ph # 080 25086132 or Mob # 9845909388) or Mr.Chari (Ph# 080-25086135/6136, 9886341031)**

With regards,



**Mr.Vasant Pilare**  
**Principal Scientist & Convener, Stall Design Committee**  
**CSIR-NAL, Bengaluru**  
**Tel: 080-25086132**  
**M:+91 9845909388**

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Layout Plan of NAL Stall Hall B (B 3.3)

