वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
Council of Scientific & Industrial Research
राष्ट्रीय वांतरिक्ष प्रयोगशालाएं
National Aerospace Laboratories

CSIR - NAL Estd. 1959
ISO 9001 : 2015
Certified Organization

INVITATION FOR BIDS/NIT

Tender No. NAL/PUR/KTMD/201/19-Y   **Dated: 11-Sep-19**

CSIR- National Aerospace Laboratories (NAL), Bengaluru, India is one of the premier laboratories under Council of Scientific and Industrial Research (CSIR), an autonomous body under Department of Scientific and Industrial Research, Government of India, New Delhi. CSIR-NAL is a Science and Knowledge based Research, Development and Consulting Organization. It is internationally known for its excellence in Scientific Research in Aerospace Engineering.

The Director, CSIR-NAL invites online quotation for procurement of the following item(s) for day to day research work.

Sl.No.	Description of Items	Unit	Quantity
1	Canteen management System, Touch Screen based Kiosk, Contact less Smart cards., etc. **Please refer Annexure-I & Annexure-II for detailed specification.**	As per Annexure-I	

Single / Two Bid	**Two Bid**
Bid Security (EMD) (in INR)	**50000/-**
Performance security	**10% of Contract value**

01. Tender Documents may be downloaded from Central Public Procurement Portal https://www.etenders.gov.in. Aspiring Bidders who have not enrolled/ registered in e- procurement should enroll/ register before participating through the website https://www.etenders.gov.in. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission'.

02. Tenderers can access tender documents on the website (For searching in the NIC site https://www.etenders.gov.in, kindly go to Tender Search option, select tender type and select ' Council of Scientific and Industrial Research' in organization tab and select NAL-Bengaluru-CSIR' in department type Thereafter, Click on "Search" button to view all CSIR-NAL, Bengaluru tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website https://www/etenders.gov.in as per the schedule given in the next page.

03. Either the Indian Agent on behalf of the Foreign principal or the Foreign principal can bid directly in a tender but not both. However, the offer of the Indian Agent should also accompany the authorization letter from their principal. To maintain sanctity of tendering system, one Indian Agent cannot represent two different Foreign principals in one tender.

04. Unsolicited / conditional / unsigned tenders (Quotations) **shall not** be considered. Quotations received after the due date and time **shall be summarily rejected**.

05. The Bidder shall comply the terms and conditions of the tender, failing which, the offer shall be liable for rejection.

06. The Director, CSIR- National Aerospace Laboratories., Bengaluru reserves the right to accept any or all the tenders either in part or in full or to split the order without assigning any reasons there for.

Raman Kumar
(Section Officer S&P)

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P B No 1779, HAL Airport Road, Kodihalli, Bengaluru - 560 017, INDIA
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http//www.nal.res.in   purchasek@nal.res.in

CSIR-National Aerospace Laboratories, Bengaluru-560 017, INDIA

SCHEDULE CUM CRITICIAL DATE SHEET

1	Name of Organization	CSIR-National Aerospace Laboratories, Bengaluru	
2	Tender Reference No	NAL/PUR/KTMD/201/19-Y dated: 11-Sep-19	
3	Tender Type (Open/Limited/EOI/Auction/Single)	Limited	
4	Type/Form of Contract (Work / Supply / Auction / Service / Buy / Empanelment / Sell)	Supply	
5	No of Covers (One/Two/Three/Four)	Two	
6	Tender Category (Services/Good/Works)	Goods	
7	Allow Resubmission (Only in online mode within scheduled period)	Yes	
8	Allow Withdrawal (Only in online mode within scheduled period)	Yes	
9	Allow Offline Submission	No	
10	Work Item Title	Canteen management System, Touch Screen based Kiosk, Contact less Smart cards., etc.	
11	Work Description	Canteen management System, Touch Screen based Kiosk, Contact less Smart cards., etc.	
12	Delivery Schedule	30 days from the date of purchase order	
13	Product Category (Civil Works / Electrical Works / Fleet Management / Computer Systems)	R & D Equipment	
14	Is Multi Currency Allowed	Yes	
15	a) Tender Publishing Date -	12-Sep-19	1800 Hrs
	b) Document Download Start Date-	12-Sep-19	1800 Hrs
	c) Bid Submission Start Date-	12-Sep-19	1800Hrs
	d) Bid Submission End Date-	30-Sep-19	1000 Hrs
	e) Bid Opening Date-	01-Oct-19	1100 Hrs
16	Bid Validity Days	90 days	
17	Address for communication	Stores and Purchase Officer CSIR-National Aerospace Laboratories, HAL Airport Road, Kodihalli, Bengaluru - 560017	
18	Inviting Officer	Director, CSIR-NAL	
19	Contact No	25086040, 25086041	
20	E-mail Address	purchasek@nal.res.in	
21	Detailed specification of item	Refer Invitation for bids / NIT	
22	Tender Terms & Conditions & Instruction for online bid submission	The prospective bidders are requested to refer to the Standard Tender Document available on NAL Internet (www.nal.res.in) under the icon Tender-Purchase before formulating and submitting their bids	

Note:

a) *Participation in this tender is by invitation only and is limited to the selected bidders. Unsolicited offers are liable to be ignored. However, bidders who desire to participate in such tenders in future may bring it to the notice of Procuring Entity and apply for registration.*

b) *To get registered as an approved bidder with the procuring entity please refer our website www.nal.res.in and submit.*

Canteen Meal Booking Software

Sl.No.	Description	Qty
1	Contact less Smart cards.	300 Nos
2	Touch Screen based Kiosk for Advance Food Booking.	5 Nos
3	POS terminal integrated with contact less smart card reader and LAN connectivity.	9 Nos
4	Thermal Printer with Auto cutter with serial port interface.	6 Nos
5	Canteen Management System Application Software. Commissioning and installation. Advance Canteen booking through Kiosk, Online. Integration of software with kiosk, POS terminal and Thermal printer. Provision for official bookings for projects. Onsite Manpower Support: 2nos.	1 Set

Specification

Contactless Smart cards

1Kb Mifare Smart Classica Cards with one side Colour Printing and the other black & while for identity and verification.
Frequency : 13.56MHz, .Protocol : ISO14443A, Unique ID : 32bits
EEPROM Size : 1024Bytes
Material : PVC
Temperature : -20°C ~ +50°C
Data Retention : 10 (year)
Write Endurance : 100,000(cycles)
Dimension : 85.6 × 54 × 0.86 (mm)

Touch Screen based Kiosk

17 inch Infrared Touch Screen display
1 or 2 point touch screen with vandal proof resistance
CPU with i3 processor mother board, 4GB RAM, 1TB hard disk loaded with Windows 10 OS.
Smart Card Reader supporting ISO 14443A & B Mifare,
ISO18092, operating distance minimum 30mm, operating frequency 13.56Mhz.
Thermal printer with auto-cutter with Printing Method Thermal
line printing, with built in interface USB + Ethernet 10/100Base-
T/TX , Print Speed Max. : 200 mm/sec (Receipt Version), Paper
Dimensions (mm): Roll paper 79.5 ± 0.5 (W) × Dia. 83, Dot /
Line: 576 dots, Dot / Inch: 203 dpi, Power Supply Voltage DC
+24V +/- 7%, Power Consumption (Operating)
Approx.1.5Am(mean), Reliability: Printer Mechanism Life 15
million lines, Auto Cutter Life 1.5 million cuts, MTBF 360,000 hours, MCBF 60 million.
KIOSK built using MS steel with powder coated.

POS terminal integrated with contactless smart card reader and with LAN, Serial Port and USB connectivity.

Processor :ARM 9 32bit Core CPU @ 400Mhz
Memory : 128MB RAM, Flash 256MB, Micro SD card reader as external flash memory.
Operating System: LINUX OS(Ver 2.6).
Display : 128X64 pixel Graphic-FSTN LCD with LED backlight.
KeyPad: 23 keys (0 - 9 numeric keypad, *, #, 6 function keys,
Power on/off, Back space, Paper feed, Cancel and Enter).
Printer: Thermal Graphic Priner
Smart Card Reader: Contact less smart card reader(ISO14443,Mifare, NFC.
Peripheral Ports: 1xR-232, 1XUSB Slave, 1XUSB Master
Communication Modules: LAN10/100 BASE-T; Standard RJ45connection.

Power Adapter: AC input 100 - 240V, 50/60Hz DC output 9V,2.2A
Enclosure: ABS+PC
Operating Temperature:0 degrees to 55 degrees Centigrade

Thermal printer with Auto Cutter

Print Technology
        Printing Method: Thermal line printing.
Print Font :
        Font Font A: 12 × 24 (Default); Font B: 9 × 17
        Paper width 80 mm: Font A: 48, Font B: 64, Special font A: 64,
        Special font B: 24.
Interface Built-in : USB + UIB (Serial or Parallel interface), Ethernet interface
Receive Data Buffer: 4 KB / 45 Bytes
Print Speed Max. : 200 mm/sec (Receipt Version)
Dot / Line: 576 dots
Dot Inch: 203 dpi
Paper Dimensions (mm): Roll paper 79.5 ± 0.5 (W) × Dia. 83.
Power:Supply Voltage DC + 24 V ± 7 %
Power Consumption (Operating) Approx. 1.5 A (mean)
Operating Temperature 5 - 45 ° C (41 - 113 ° F)
Humidity 10 - 90 % RH
Power Supply External power supply (Model: PS-180)
Reliability: Printer Mechanism Life 15 million lines.Auto Cutter Life 1.5 million cuts, MTBF 360,000 hours, MCBF 60 million