

Invitation for e-Bids / Notice Inviting e-Tender**Tender No. NAL/PUR/CCF/128/24/GeM****Date: 23-Jul-2024**

CSIR - National Aerospace Laboratories (NAL), Bengaluru, Republic of India, is one of the premier research laboratories under aegis of Council of Scientific and Industrial Research (CSIR), an autonomous body under the 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 e-bids from the Manufacturers, their distributors and Indian Agent of Foreign Principals, if any, for the procurement of the following Goods/Services for its day-to-day research

Sr. No.	Tender No.	Brief Description of material (s)	Quantity	Type of Bid	Mode of Procurement
1	NAL/PUR/CCF/128/24/GeM	Design, Fabrication, Packaging, Transportation, Insurance, Supply, Erection and Commissioning of 01 no. Skid-Mounted IBR Certified Electrical Steam Boiler Capacity 500kg/hr at 10kg/cm ² pressure (as per specification attached)	01 Set	Single Stage Two Bid	(Gem Bidding)

- E-Bids are invited through the electronic tendering process and the Tender Document can be downloaded from the Government e-Marketplace Portal i.e., <https://gem.gov.in>. **The submission of e-Bids will be only through the GeM portal <https://gem.gov.in>. Bids will not be accepted in any other form.**
- Interested bidders' may obtain further information from the office of the:
Stores & Purchase Officer
Purchase Section
CSIR- National Aerospace Laboratories
PB No.1779, HAL Airport Road, Kodihalli, Bengaluru – 560017
Karnataka-India
Tel #: 080 2508 6091 / 6097 / 6040 / 6041
Fax #: 080 25269611
Email : purchase@nal.res.in, damodharrao@nal.res.in
- The prospective bidders' should adhere to deadlines specified in Tender details corresponding to this Tender on GeM portal <https://gem.gov.in>.
- Bid Security (BS) / Earnest Money Deposit (EMD):**
The bidders has to furnish/submit BID SECURING DECLARATION as per the FORMAT, in the name of "The Director, National Aerospace Laboratories, Bengaluru", without which the bid is liable to be rejected.
- The Schedule for Submission of e-Bids and Opening of e-Bids is as follows:

Date & Time of Submission of e-Bid		Date and Time of Opening of e-Bid	
Date	Time (IST)	Date	Time (IST)
18-Aug-2025	11.00 am	18-Aug-2025	11.30 am

- Open Tender enquiry:**
Only Local suppliers with prescribed local content as detailed in DIPPT Order No. P-45021/2/2017-PP (BE-II) dated 16th Sep, 2020 and subsequent orders issued by Ministry of Finance, Government of India from time

to time, are eligible for bidding. bidders' must enclose the certificate declaring the local content of supplies as per the format.

7. Global Tender Enquiry:

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 authorisation letter from their principal. To maintain sanctity of tendering system, one Indian Agent **cannot** represent **two** different foreign principals in one tender.

- (a) In case of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry.

One manufacturer can also authorize only one agent/ dealer. There can be only one bid from the following:

i)	The Principal manufacturer directly or through one Indian agent on his behalf; and
ii)	Indian/foreign agent on behalf of only one principal.

- (b) Foreign bidders' must disclose the name and address of agent and representative in India and Indian bidders' must disclose their foreign principal or associates.

- (c) If bidders' is Indian Agent of Foreign Principal, the following instruction shall be complied and as amended from time to time as on the date of issue of Tender:

i)	Bidders' must necessarily comply with conditions of "Make in India" Order No. F-45021/2/2017-PP (BE-II) dated 16-Sep-2020 of Ministry of Commerce and Industry, Government of India, as amended from time to time on the date of issue of Tender.
ii)	The bidders' shall comply with restrictions under Rule 144(xi) of the GFR 2017 related to restrictions on participation of Foreign bidders' and their Authorised Indian Agent/Dealer in terms of Order No.P-45021/112/2020-PP(BE-II) (E-43780) dated 24-Aug-2020 of the Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade, as amended from time to time as on the date of issue of Order.

Note: Kindly refer to the first page of Notice Inviting Tender for tender type/mode of procurement and submit the bid accordingly

9. The bids of those bidders' failing to comply the following clauses will be summarily rejected.

- (a) The bidders' proposing to supply finished products directly/indirectly from bidders' of Countries sharing the land border with India should submit copy of registration done with the Ministry of Home Affairs and Ministry of External Affairs.
- (b) If the products supplied are not from bidders' of Countries sharing Land border with India, the bidders' should enclose a declaration
- (c) The debarment of a bidders' in this tender, if any, is reciprocal of that Principal's Country, if it is Import.

Note: Kindly refer to the first page (NIT) for tender type (i.e. Open Tender Enquiry / Global Tender Enquiry) and submit your bid accordingly.

10. As per Govt. of India procurement policies,

- a) The purchaser intends to give purchase/service preference to local supplies (Preference to Make in India) in case the cost of procurement is up to Rs.50.00 (fifty) lakhs.
- b) The procuring entity intends to give purchase/service preference to products/goods manufactured by micro, small and medium enterprises.

11. Bidders' are requested to refer to the instructions regarding Procurement Policies for "Make in India", issued by Ministry of Commerce and Industry, Department of Industrial Policy and Promotion dated. 28-May-2018, and 4-Jun-2020 and guidelines as and when issued.

12. Printed conditions, if any, submitted along with the quotation shall not be binding on us.

13. Bidders' to certify the quoted price is not higher than the price quoted with other Government Institution for similar specifications and quantity during the current financial year.

14. Payments shall be made promptly by the Purchaser but in no case later than thirty (30) days after submission of the invoice or claim by the Supplier. While claiming the payment, the supplier should certify in the

bill/invoice that the payment being claimed strictly in terms of the contract and all obligations on the part of the supplier for claiming the payment have been fulfilled as required under the contract.

15.

Mandatory fields in Tax Invoice and Receipt Vouchers	
Invoice Number and Date	Name, address and GSTIN of the supplier
Shipping and billing Address	Customer Name & GSTIN [CSIR-NAL] Bank Details
HSN Code/SAC Code	Place of Supply
Taxable value and discounts	Item details i.e. description, quantity (number), unit, the total value
Signature of the Supplier	Rate and amount of taxes i.e. CGST/SGST/IGST

16. Kindly, note CSIR-NAL GST No.29AAATC2716R1ZB. The bidders' are requested to furnish their GST no. in their invoice, failing which NAL will not be able to make the timely payment.
17. Unsolicited / conditional / unsigned Quotations/Quotations received after the due date and time shall be summarily rejected. The bidders' shall comply the terms and conditions of the tender, failing which, the offer shall be liable for rejection.
18. The prospective bidders' are requested to refer to the Standard Terms and Conditions available on NAL Internet (www.nal.res.in) under the icon Tender-Purchase before formulating and submitting their bids'.
19. The Director, CSIR-National Aerospace Laboratories (NAL), Bengaluru, India reserves the right to accept or reject any bids or accept all tenders either in part or in full or to split the order, or to annul the bidding process without assigning any reasons there for.

Thanking you,

Yours faithfully

**Sd-
Stores & Purchase Officer
For and on behalf of CSIR-NAL**

Tender No.:

BID-SECURING DECLARATION FORM

Date: _____

Bid No. _____

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

(a)	have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
(b)	having been notified of the acceptance of our Bid by the purchaser during the period of bid validity <ul style="list-style-type: none"> (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)

in the capacity of (insert legal capacity of person signing the Bid Securing Declaration).

Name: (insert complete name of person signing the Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of : (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

Tender No.:

SELF DECLARATION CERTIFICATE FOR LOCAL CONTENT

In Respect of NIT/RFQ No.issued by CSIR-National Aerospace Laboratories, Bengaluru

I, the undersigned, (full names), do hereby declare, in my capacity as of(name of bidder / OEM), the following:

(a) The facts contained herein are within my own personal knowledge.

(b) I have read and understood the requirement of Local Content and same is specified as percentage calculated in accordance with the definition provided at clause 2 of revised **Public Procurement (Preference to Make in India) Order 2017**.

"Local content" as per above order means the amount of value added in India which shall be the total value of items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value in percent."

(c) I have satisfied myself that the goods/services/works to be delivered in terms of the above-specified NIT comply with the local content requirements and I hereby confirm in respect of quoted item(s) that:

(i) Local Content is equal to ----- (in percentage) and come under 'Class-I Local Supplier Category' (The local content requirement to categorize a supplier as Class I Local Supplier is minimum 50%)

Or

(i) Local Content is equal to ----- (in percentage) and come under 'Class-II Local Supplier Category' (The local content requirement to categorize a supplier as Class II Local Supplier is minimum 20%)

(Tick appropriate Category of Local Supplier).

(d) The local content calculated using the definition given above are as under:

Sl. No	Name of Item / Equipment	Local content calculated as above (%)	Location of local value addition (Location shall be the specified as name of city or district, etc.)	Imported content including all Customs duties (%)
Note: Attach separate sheet duly signed if space is not sufficient.				

(e) I understand that if we are offering products with local content less than the minimum requirement prescribed under Clause 5 of the above order, we will fall under the category of Non-Local Suppliers. We can't claim ourselves as Class-I local suppliers/ Class-II local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.

(f) I also understand; false declarations will be in breach of the code of integrity under rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

SIGNATURE:

DATE: _____

Seal / Stamp

NB:

(i) Before completing this declaration, bidders must study the General Conditions, Definitions, Government Directives applicable in respect of Local Content & prescribed tender conditions.

(ii) In case the bidder is supplier and not OEM, then the above mentioned MII certificate should be given by the OEM in their letter head.

(iii) Local content percentage shall be declared item wise or tender wise strictly as per the terms of the tender.

(iv) Local Content Declaration to be signed by Chief Financial Officer or other Legally Responsible Person Nominated in Writing by The Chief Executive or Senior Member/Person with Management Responsibility (Corporation, Partnership or Individual).

(v) The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

Tender No.: NAL/PUR/

Format for declaration by the Bidder for Code of Integrity & Conflict of Interest (This declaration should be furnished on the Bidders Letter Head

Ref. No: _____

Date _____

To,

(Name & address of the Purchaser)

Sir/Madam,

With reference to your Tender No. _____ dated _____ I/We hereby declare that we shall abide by the Code of Integrity for Public Procurement as mentioned under Para 1.3.0 of ITB of your Tender document and have no Conflict of Interest.

The details of any previous transgressions of the Code of Integrity with any entity in any country during the last three years or of being debarred by any other Procuring Entity are as under:

- a)
- b)
- c)

We undertake that we shall be liable for any punitive action in case of transgression/contravention of this code.

Thanking you,

Yours Sincerely,

Signature

(Name of the Authorised Signatory)

Company Seal

Tender No.: NAL/PUR/

SELF CERTIFICATION

With reference to Clause No. 1.1.3, of this tender and GoI, Ministry of Finance Order No.: F. No. 6/18/2019-PPD, dated 23rd July, 2020, on “Restrictions under Rule 144 (xi), of the General Financial Rules (GFRs)”, & OM No. F. No. 18/37/2020-PPD, dated 8th February, 2021, and as amended from time to time on the date of issue of Tender:

It is certified that

- ☐ We are not a bidder of a country which shares a land border with India.

OR

- ☐ We are a bidder of a country which shares a land border with India, however, we are eligible to bid in any procurement whether of goods or services as we are registered with the Competent Authority as specified in Ministry of Finance (GoI) Order No. 6/18/2019 – PPD, dated 23rd July 2020. Copy of valid registration is attached.
- ☐ Tick as applicable

Place:

Date:

Authorised Signatory Name:

Company Seal

TERMS & CONDITIONS

Tender No.		
Sr. No.	Approximate weight of the Consignment	Approximate dimensions of the consignment
1		
2	Indian Customs Tariff No. and HSN No. (ICT & HSN No.)	
3	Country of Origin	
4	Percentage of Local Content	
5	Annual Turnover	
6	Type of Supplier	
7	Mode of Shipment By Air / SEA / Road / e-download	
8	Port of Destination	Final Destination
9	Delivery Term (INCO Term), as the case may be	
10	Delivery Schedule including Supply, Installation, Commissioning, Training & Acceptance	
a)	Delivery of the Item BoQ/NIT [In weeks / Days / Months] from the date of PO / LC / ILC / Advance [Mention the appropriate term]	
b)	Installation & Commissioning from the date of Delivery of item [In weeks/Days/Months]	
c)	Training from the date of Installation & Commissioning of item [In weeks/Days/Months]	
d)	Acceptance from the date of Training [In weeks/Days/Months]	
11	Installation & Commissioning (if any) Quoted Price inclusive or exclusive	
12	Training (if any) Quoted Price inclusive or exclusive	

13	Partial Shipment [If partial shipment required, the charges incurred towards partial shipment to be borne by Bidder]	
14	Payment Term	
15	Currency of Bid/Quotation	
16	Statutory Levies [GST/IGST or any other taxes, duties] % of tax to be mentioned.	
17	Bidder GST No.	
18	Bidder Bank Details along with Cancelled cheque	
19	Insurance Coverage	
20	Warranty	
21	Agree to submit Performance Security, if any	
23	Validity of offer	

24	Order to be placed [Full address, Tel #, Fax #, Email Id, Contact Person]	
25	Nature of the item [to be specified] Hazardous/Radio Active/ Perishable/ Dangerous/ Shelf-life or any other	
26	Bidder to mention in the quote, any special carrier requirement is necessary for transport viz Special License, ODC etc.,	
27	Any other	
Note:	Unit Price indicating currency FOB (named port of shipment or FCA (named place of delivery))	

- The bid will be treated as incomplete if bidder has not quoted for all the components given in ~~scope~~ of supply and the incomplete bid will be rejected. The bidder should also include all incidental services in their quote. The bid will be commercially ~~eval~~ for the components in the scope of supply.
- Bidders are Strictly informed to submit:
 - Technical Compliance to the Product specifications,
 - DATA Sheet of the product offered,
 - Local Content Certificate,
 - Valid OEM Authorisation Certificate.
 - The accessories supplied along with the equipment should be of the same OEM Brand. Failing which the offers will be rejected.
- ADVANCE SAMPLE
 - Agree to provide Advance Sample(s) for buyer's approval before commencement of supply (wherever applicable)
 - Open to all authorized dealers of OEM only (wherever applicable)

Specification for skid Mounted IBR Certified Electrical Steam Boiler

1.0 SCOPE OF WORK

The scope includes DESIGN, FABRICATION, PACKAGING, TRANSPORTATION, INSURANCE, SUPPLY, ERECTION, AND COMMISSIONING OF 01 NO. SKID-MOUNTED IBR CERTIFIED ELECTRICAL STEAM BOILER with all required accessories and integration at NAL. The integration of this boiler requires a small section of 2-inch pipeline with isolation valves, NRV and flanges (Approx. length 4 meter from proposed boiler) to the existing PRV station.

2.0 EQUIPMENT DUTY & OPERATION

- Application: Supply of saturated process steam
- Operation: Continuous duty
- End Use: For pilot plant at CSIR–NAL

3.0 GENERAL SPECIFICATIONS

Parameter	Specification
Boiler Type	IBR Certified-1950 with latest Amendment , Electric boiler (non-electrode type) , Shell Type single unit
Steam Output (F&A 100°C)	500 kg/hr
Design Pressure	10.0 kg/cm ²
Working Pressure	8.5 kg/cm ²
Saturated Steam Temperature	189°C (maximum)
Thermal Efficiency	98 ± 2%
Feed Water Temp.	20°C
Feed Pump Motor Power	Vendor to specify
Steam Outlet Valve Size	Vendor to specify
Power Supply available	415V, 3 Phase, 50 Hz
Electric Heater Capacity	To be specified by vendor
Total electrical load and cable rating requirement	To be specified by vendor
Overall Dimensions & Dry Weight	To be specified by vendor
Available height at site	4.5 meter
Complete specification along with drawings, bought out items for boiler offered	Vendor has to provide along with quotation.

4.0 STEAM BOILER SYSTEM COMPONENTS

4.1 Boiler Pressure Parts & Mountings

- Skid-mounted shell-type pressure vessel
- Boiler Shell material of construction: SA 515/516 gr 70 or eq.
- Boiler tube material of construction : BS 3059 BT
- Flanged immersion heaters : Ni –Cr heater with sheath incoloy or eq.
- Boiler manhole : Yes
- Mineral wool insulation with aluminium/Stainless steel cladding
- Boiler mountings as per IBR standard:
 - Steam outlet valve – 1 no.
 - Auxiliary steam valve – 1 no.
 - Safety valves (spring-loaded) – 2 nos.

- Blow-down valve with cock– 1 no.
- Water level indicators – 2 nos.
- Steam pressure gauge – 1 no.
- Vendor has to provide IBR certification for the steam boiler.

4.2 Feed Water System

- Motorized feed pump with interconnecting piping and fittings
- Feed and check valves

4.3 Boiler Accessories as per IBR standards

- Manual Blow-down Valve – 1 no.
- Auto Blow-down Valve – 1 no.
- Steam Stop Valve – 1 no.
- Safety Valves – 2 nos.
- Water Level Gauge with Drain Cock & Protectors – 1 Set
- Header with Siphon & Cock – 1 Set (SS)
- Boiler drain and vent connections included

4.4 Control & Instrumentation

- PID Controller for Pressure with redundancy – 2 no. (Eurotherm/Eq)
- PID Controller for Temperature with redundancy – 1 no. (Eurotherm/Eq)
- Heater overheating protection to be provided.
- Pressure switch for heater ON/OFF control
- Level switches for auto water level control and low-water cut-off
- Pressure indicator and electric safety relay
- Hooter for alarms
- Process safety interlocks for safe operation

4.5 Electrical Control Panel

- Pre-wired panel with:
 - MCCB, MCB, auxiliary contactors
 - ELR for earth leakage
 - Annunciator for fault indication
 - Indicating lamps, rotary/cam switches
 - Overload relays, current transformers
 - Make: L&T/Siemens/Eq
 - Power connection: 415V, 50Hz, 3-phase, 4-wire
 - Protection type: IP 55
 - Panel cooling exhaust fans

5.0 PROCESS UTILITIES AVAILABLE

Utilities at Battery Limits (NAL-Supplied)

- Water: 2” DM & Soft Water SS Headers available. Vendor has to arrange for piping from these headers (approx. 5 meters away from boiler) to the boiler with necessary fittings and filters.

- Electrical: Mains incoming cable to panel as per vendor specs

6.0 PIPING CONNECTION TO PRV STATION

Vendor Scope (IBR Grade Piping)

- Approx 4 meters of 2" seamless pipe (IBR steam piping work)
- 1 Nos. Glove Valves (2")
- 2 Nos. Tee Joints (2")
- 3 Nos. 90° Elbows (weldable)
- Required sockets and fittings
- Hot insulation (mineral wool) for entire pipeline with Al cladding
- Piping and fitting, welding is to be as per IBR certification. The complete pipeline after assembly to be tested with 15 bar of hydrostatic pressure.
- At the site a steam PRV station is available and connected to old boiler. This PRV station is to be used for proposed electrical boiler with isolation valves and other pipe fitting as a parallel arrangement.

7.0 STRUCTURAL SUPPORT

Complete skid-mounted design for plug-and-play operation. Easy access for all valves and instruments.

8.0 PERFORMANCE REQUIREMENT

Vendor must demonstrate 24-hour continuous operation at rated capacity (500 kg/hr) and compliance with pressure and temperature parameters.

9.0 CABLING & ELECTRICAL SAFETY

- Power cable from NAL up to isolator
- Vendor must ensure proper internal earthing
- Control panel must include:
 - Hooter
 - Emergency trip
 - Safety interlocks

10.0 DOCUMENTATION TO BE SUPPLIED

3 Hard Copies + Digital Copies of:

- General Assembly and P&ID Drawings
- Electrical Wiring Diagrams
- Operation & Maintenance Manuals
- Preventive Maintenance Checklist & Troubleshooting Guide
- Test certificates & IBR documentation
- Specification for spares

11.0 WARRANTY & SERVICE

12 months from the date of acceptance. All lodging, boarding, and travel costs for installation & commissioning at NAL are to be borne by the vendor.

12.0 VENDOR QUALIFICATION CRITERIA

- Must be OEM or authorized vendor (with valid authorization)
- Must have supplied at least one similar or higher capacity boiler in the last 3 years to a reputed organization e.g Govt organization/PSU/Process plants etc. (PO copy and work completion certificate required)