

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/STTD/234/21-Y

Dated: 09-Dec-2021

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	32 V DC (Variable) DC Power Supply Unit.	Nos	02
Please refer annexure for detailed specification			

Single / Double Bid	Single	Tender Type	Open
Bid Security (EMD) (in INR)	Bid Security Declaration should be enclosed with quotation	Bid submission end date	30-Dec-2021 10.00 Hrs
Performance Security	3% of the purchase order value	Bid opening date	31-Dec-2021 11.00 Hrs

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)/Quotations received after the due date and time **shall be summarily rejected**. The Bidder shall comply the terms and conditions of the tender, failing which, the offer shall be liable for rejection.
05. **The bids of those Bidders failing to comply with the following clauses will be summarily rejected**
  - a. The Bidders proposing to supply finished products directly/indirectly from vendors 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 vendors of countries sharing land border with India, the Bidders have to enclose a declaration to that effect.

पी बी सं. 1779, एचएएल एयरपोर्ट रोड , कोडिहल्ली, बेंगलुरु - 560 017, भारत,  
P B No 1779, HAL Airport Road, Kodihalli, Bengaluru - 560 017, INDIA  
फोन / Phone : ( का./ Off ) : +91 - 80 - 2508 6040 - 45, फैक्स / FAX : +91-80-2526 9611



<http://www.nal.res.in>

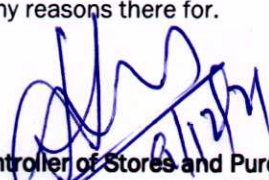


[purchasek@nal.res.in](mailto:purchasek@nal.res.in)



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

06. Bidders are requested to refer to the instruction 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
07. **The prospective bidders are requested to refer to the Standard Terms and Conditions available on NAL Internet ([www.nal.res.in](http://www.nal.res.in)) under the icon Tender-Purchase before formulating and submitting their bids**
08. 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.

  
Controller of Stores and Purchase  
For and on behalf of CSIR



**SPECIFICATION FOR 32 V DC (VARIABLE)**  
**DC POWER SUPPLY UNIT**

Supply of 32V DC (adjustable DC voltage output ) solid state power supply unit made out of well fabricated CRCA sheet steel, well painted aesthetic look, movable with suitable wheels with locking arrangements (Parking brake), louvers with fine mesh detachable covers on all side except bottom and front door type panel for instruments and controls.

Input supply	: 3 phase, 415V $\pm$ 10%, 50Hz $\pm$ 5%, 4 WIRE system
Output	: 32 V DC Adjustable (10-100% of O/P voltage selectable)
Current	: 400A
Line regulation	: $\leq$ 1%,
Load regulation	: $\leq$ 1%,
Overload	: 110% Continuous 150% for 1 minute
Ripple	: $\leq$ 1% rms of rated output voltage
Enclosure	: IP20
Cooling	: Fan cooled (2 cooling fans with meshed louvers be provided)
Application	: For power supply to Engine test bed/iron bird of SARAS aircraft

**Specifications**

- 3 Phase, 50Hz AC Input with suitable rating MCCB.
- Output terminal should be brought through copper bus to carry 800A and suitable tapping arrangement for both positive and negative supply for higher current equipments.
- DC Output Distribution Box- MCBs 200A - 3 Nos, 100A – 1 No, 10A – 2 Nos

**Indication**

- 3.5 Digital Voltmeter (Input and output)
- 3.5 Digital Ammeter (Output)
- Line power ON,
- Phase fail (3 phase),
- DC output ON,
- Line over/under voltage,
- Overheat,

- DC over/under Voltage.

**Protection**

- Input over/under voltage protection
- DC over voltage protection
- Phase fail (Input)
- Over heat protection
- Soft start feature
- Over load protection with adjustable time delay

**General requirements**

- Noise :  $\leq 65$ dB
- Emergency stop
- Reset push button
- The DC output voltage is varied by potentiometer with locking arrangement after required setting.
- User manual and drawing
- Warranty for 12 months from the date of delivery

**Pre-despatch Inspection at vendor's premise:**

- Physical and functional acceptance inspection
- Demonstration of ripple voltage, load test, Line regulation and load regulation etc. to the NAL rep before delivery to NAL

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**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
	(i) fail or refuse 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:**

1. 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.
2. Bid Security declaration must be signed in by the Proprietor/CEO/MD or equivalent level of Officer of the company.