

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/GB/587/19-Y

Dated: 17-Feb-2020

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 | Qty |
|--------|----------------------------------------------------------------------------------------------------------------|-----------------|-----|
| 1 | Electrical items LED lights, fitting, lamps, chokes, starter etc., Please refer Annexure for list of items. | As per Annexure | |

| | |
|-----------------------------|-------------------------------------------------------------|
| Single / Double Bid | Single |
| Bid Security (EMD) (in INR) | Bid Security Declaration should be enclosed with quotation. |
| Performance Security | Nil |

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
फोन / Phone : (का./ Off) : +91 - 80 - 2508 6040 - 45, फैक्स / FAX : +91-80-2526 9611



SCHEDULE CUM CRITICAL DATE SHEET

| | | | |
|----|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1 | Name of Organization | CSIR-National Aerospace Laboratories, Bengaluru | |
| 2 | Tender Reference No | NAL/PUR/GB/587/19-Y dated: 17-Feb-2020 | |
| 3 | Tender Type (Open/Limited/EOI/Auction/Single) | Open | |
| 4 | Type/Form of Contract (Work / Supply / Auction / Service / Buy / Empanelment / Sell) | Supply | |
| 5 | No of Covers (One/Two/Three/Four) | One | |
| 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 | Electrical items LED lights, fitting, lamps, chokes, starter etc., | |
| 11 | Work Description | Electrical items LED lights, fitting, lamps, chokes, starter 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 - | 24-Feb-2020 | 1800 Hrs |
| | b) Document Download Start Date- | 24-Feb-2020 | 1800 Hrs |
| | c) Bid Submission Start Date- | 24-Feb-2020 | 1800 Hrs |
| | d) Bid Submission End Date- | 09-Mar-2020 | 1000 Hrs |
| | e) Bid Opening Date- | 10-Mar-2020 | 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 | |

LED light fitting, lamps, chokes, starter etc.

| SL No | Description of materials | Qty | Unit |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| 1 | 18W/22W,T8 Retro indoor LED tubes of length 1200mm, high quality aluminium housing and PC diffuser for LED linear lamp ensure soft and glare free lighting, LED tube color shall be cool day white light, color temperature 6000-6500k and light output 2000lumens and color rendering index of >86 . The LED tubes shall be suitable for fixing of existing conventional tube light/mirror optic luminaries. Suitable on operation of 230 volts, 50 Hz power supply of make: Philips/CG/Jaguar/HPL/RR electric | 500 | Nos |
| 2 | 18/23W,LED cool white surface mounting square panel with aluminium die cast housing including control drives etc.,. Suitable for operation on 230V ac supply of make: Philips | 100 | Nos |
| 3 | 15W, round LED down light with aluminium die cast housing the cutout shall be 155mm dia the necessary fixing clamps for suitable for false ceiling including control drives etc.,. Suitable for operation on 230V ac supply of make: Jaguar/HPL/Philips/CG/RR electric | 50 | Nos |
| 4 | 12W/15W,LED cool white surface mounting square panel with aluminium die cast housing including control drives etc.,. Suitable for operation on 230V ac supply of make: Jaguar/Philips/CG/RR electric | 150 | Nos |
| 5 | 30W LED lensed type street light pressure die cast aluminium housing, heat resistant control driver, toughened glass with frame, IP66 protection, better optics for uniform distribution The fixing clamps shall not less than 50mm. Suitable for 230V, AC supply of make: Philips/Jaguar/HPL/CG/RRelectric | 50 | Nos |
| 6 | 60W LED lensed type street light pressure die cast aluminium housing, heat resistant control driver, toughened glass with frame, IP66 protection, better optics for uniform distribution The fixing clamps shall not less than 50mm. Suitable for 230V, AC supply of make: Philips/Jaguar/HPL/CG/RRelectric | 50 | Nos |
| 7 | 120W LED flood light lensed type with high grade aluminium pressure die cast cover toughened glass, lamp efficiency 120 lumen/watt, optics high spread using high quality lenses and reflector, wide beam angle 120°, multiple LEDs are used in series - parallel array to form COB. control gear CC Control drive with efficiency 85% LED life with L70 criterion 50,000 operating hours, over voltage protection up to 300V, surge protection 4KV, isolation up to 1.5KV, short circuit protection and open circuit protection fixture and LED conform to LM-79 & LM-80 respectively. Suitable for 230V, AC supply of cat HPLLEDFL12060S of make: HPL or eqvt in Crompton greaves/Bajaj/ Philips/Jaguar/RR electric | 10 | Nos |

LED light fitting, lamps, chokes, starter etc.

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| 8 | 150W LED flood light lensed type with high grade aluminium pressure die cast cover toughened glass, lamp efficiency 120 lumen/watt, optics high spread using high quality lenses and reflector, wide beam angle 120° deg, multiple LEDs are used in series - parallel array, control gear CC Control drive with efficiency 90% LED life with L70 criterion 50,000 operating hours, over voltage protection up to 300V, surge protection 4KV, isolation up to 1.5KV, short circuit protection and open circuit protection fixture and LED conform to LM-79 & LM-80 respectively. Suitable for 230V, AC supply of cat ref: HPLLEDFL15060D of make: HPL or eqvt in Crompton greaves/Bajaj/ Philips/Jaguar/RR electric | 10 | Nos |
| 9 | 100W LED lensed type high bay luminaries with high grade aluminium pressure die cast cover toughened glass, lamp efficiency 120 lumen/watt, optics high spread using high quality lenses and reflector, wide beam angle 120°, multiple LEDs with efficiency 85% LED life with L70 criterion 50,000 operating hours, THD less than 5%,over voltage protection up to 300V, surge protection 4KV, isolation up to 1.5KV, short circuit protection, heavy duty heat sink and open circuit protection fixture etc.,and LED conform to LM-79 & LM-80 respectively. Suitable for 230V, AC supply of make: HPL / Philips / CG / Jaquar/ACR | 15 | Nos |
| 10 | 200W LED lensed type high bay luminaries with high grade aluminium pressure die cast cover toughened glass, lamp efficiency 120 lumen/watt, optics high spread using high quality lenses and reflector, wide beam angle 120°, multiple LEDs with efficiency 85% LED life with L70 criterion 50,000 operating hours, THD less than 5%,over voltage protection up to 300V, surge protection 4kV, isolation up to 1.5KV, short circuit protection and open circuit protection fixture and LED conform to LM-79 & LM-80 respectively. Suitable for 230V, AC supply of make: of make: HPL / Philips / CG / Jaquar/ACR. | 30 | Nos |
| 11 | 36 Watt fluorescent tube light with color cool day light 6000 K and lumen output of 3250 lumens and color rendering index of 86 suitable on operation of 230 volts, 50 Hz power supply of make: Philips/ CG/Osram. | 600 | Nos |
| 12 | 36 Watt fluorescent warm tube light 3000 K colour temperature and lumen output of 2400 lumens and color rendering index of 80 suitable on operation of 230 volts, 50 Hz power supply of make: Philips/ CG/Osram. | 100 | Nos |
| 13 | 14W, 2feet ,TL-5 type warm white tube light Cat ref: TL-5 14W of make : Philips | 50 | Nos |
| 14 | 14W, 2feet ,TL-5 type Cool day tube light Cat ref: TL-5 14W of make : Philips | 50 | Nos |

(Signature)
12/02/2020

LED light fitting, lamps, chokes, starter etc.

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| 15 | 12W Constant current LED driver input voltage 230V, I/P current 75mA, PF 0.95 ATHD < 10% operating temperature e 10 to 70°C output voltage 28V-40 V DC, O/P current 300mA number of channel single suitable for 12W, LED square panelt luminare of make: RR electric/Bajaj | 20 | Nos |
| 16 | 36W Constant current LED driver input voltage 230V, I/P current 155mA, PF 0.95 ATHD < 10% operating temperature 10 to 70°C output voltage 60-80V DC, O/P current 700mA number of channel single suitable for 12W, LED square panelt luminare of make: RR electric/Bajaj | 20 | Nos |
| 17 | 90W Constant current LED driver input voltage 230V, I/P current 300mA, PF 0.95 ATHD < 10% operating temperaturee 10 to 70°C degree C output voltage 36V DC, O/P current 2.4A number of channel single suitable for 90W, LED Street light luminare of make: Bajaj | 50 | Nos |
| 18 | 60W, Constant current LED driver input voltage 230V, I/P current 300mA, PF 0.95 ATHD < 10% operating temperature 10 to 70°Cdegree C output voltage 36V DC, O/P current 2.4A number of channel single suitable for 90W,LED Street light luminare of make: HPL | 50 | Nos |
| 19 | 200W Constant current LED driver input voltage 230V, I/P current 1.6A, PF 0.95 ATHD < 10% operating temperature -25 to + 70 degree C output voltage 12V DC, O/P current 16.67A number of channel single suitable for 200W, Rain proof signage board LED make: ADS or equivalent | 50 | Nos |
| 20 | 10kV surge protector , continious voltage 280V, I/P current 16A(fussed) PF 0.95 rated frequency 48Hz to 62Hz max. peak fault current 10kA single channel suitable for street 200W, LED street light luminariese: Bajaj/ADS/ HPL | 50 | Nos |
| 21 | 4x14W Electronic Ballast THD shall be >10% suitable for 4x14W TL-5 luminaries and operation 230V, 50Hz AC supply, of make: Philips | 50 | Nos |
| 22 | 2x36W Electronic Ballast THD shall be >10% suitable for 2x36W FTL luminaries and operation 230V, 50Hz AC supply, of make: Philips | 50 | Nos |
| 23 | 1x36W Electronic Ballast THD shall be >10% suitable for 1x36W FTL luminaries and operation 230V, 50Hz AC supply, of make: Philips | 150 | Nos |
| 24 | 9W LED lamp / Bulb, BC type in build driver of suitable on operation of 230 volts, 50 Hz power supply of make: Philips | 50 | Nos |
| 25 | 36W copper choke, open type VPIT suitable for 1x36W TL fitting, make: Philips/ Crompton greaves | 50 | Nos |
| 26 | 36/40W tube light starter suitable for 36/40W florcent lamp of make : Philips/CG | 150 | Nos |
| 27 | 40W, Incandescent lamp BC type of make: Philips/Osram/CG | 20 | Nos |
| 28 | 60W, Incandescent lamp BC type of make: Philips/Osram/CG | 40 | Nos |

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.