



**CENTRE FOR NANO AND SOFT MATTER
SCIENCES**

**Arkavathi, Survey No. 7 Shivanapura, Dasanapura Hobli,
Bengaluru North 562162**

Autonomous Institution under the Dept. of Science & Technology, Govt. of India

INVITATION TO TENDER

Date: 25 July 2024

**No. CeNS/2024-25/ Tender of “LED Array Simulator with the capability to simulate
AM 1.5G Spectrum.”**

The Centre invites GeM tender/bid for supply, installation and commissioning of the following scientific equipment.

“LED Array Simulator with the capability to simulate AM 1.5G Spectrum.”

The Tender documents may be submitted along with relevant Earnest Money Deposit (EMD). The terms and conditions may clearly be noted before submission of the tender.

The participating firms must and should produce all the relevant documents through **GeM Portal / CPP portal only**, offline documents or any physical form of documents is not acceptable.

The due date for submission of tender is 16th August 2024, Tuesday, 14.30 hours

Yours faithfully,

Sd/-

Administrative Officer

Encl: as above.

Annexure –I

INSTRUCTIONS

1. Definitions:

- a. The terms ‘Purchaser’ shall mean the Administrative Officer, Centre for Nano and Soft Matter Sciences, Arkavathi, Survey No. 7, Shivanapura, Dasanapura Hobli, Bengaluru North 562162.
- b. The term ‘Supplier’ shall mean the person, firm or company with whom or with which the order for the supply of Items/Equipment is placed.
- c. The terms ‘Purchase Order’ shall mean the communication signed on behalf of the Purchaser by an officer duly authorized intimating the acceptance on behalf the Purchaser on the terms and conditions mentioned or referred to in the said communications accepting the tender or offer of the supplier for supply of Items/Equipment.

2. **Receipt of tender:** The tender must reach this office by **13.30 hours** on the due date. Late and delayed Tenders will be liable to be rejected.

3. **Validity of the offer:** (a) The quotation should be valid for a minimum period of 120 days from the date of opening of the tender. If the day up to which the offer is to remain open is declared a closed holiday, the offer shall remain open for acceptance till the next working day.

(b) Quotations qualified by vague and indefinite expressions such as ‘Subject to immediate acceptance’, ‘subject to prior sale’ or any other riders will not be considered.

4. **Right of acceptance:** This Centre does not pledge itself and reserves to itself the right of accepting the whole or any part of tender or portion of the quantity offered and the firm shall supply the same at the rate quoted. In case any MOQ (Minimum Order Quantity or MOU (Minimum Order Unit) is applicable, the same should be mentioned specifically.

(a) No correspondence /discussions /visits whatsoever will be entertained on the subject unless specifically called by this office after opening the tenders for technical discussions. Any violation of this will render the quotations invalid and the firm is liable to be blacklisted.

(b) The details of the contact person for clarification regarding technical related matters may be mentioned in the tender document.

(c) The firm may give any of their commercial terms, if required in their techno-commercial offer only, and price quotation should contain only price.

- (d) Office stamps of tenderers must be affixed below their signatures.
 - (e) Corrections, if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.
 - (f) The firm shall provide Banking information for payment or any other purpose
5. **Delayed supplies:** In case of delayed supplies, liquidated damages at the rate of 0.5 percent per week or part thereof of delay with a maximum of 5 percent of the value of supply order/contract will be levied.
6. **Extension of delivery time:** As soon as it is apparent that supply dates cannot be adhered to, an application shall be sent by the Supplier to the Purchaser. If failure, on the part of the Supplier to deliver the Items/Equipment in proper time shall have arisen from any cause which the Purchaser may admit as reasonable ground for an extension of the time (and buyer decision shall be final to allow such additional time as it is considered to be justified by the circumstances of the case). In case of payment through Letter of Credit, if any, the banking charges for the LC amendment will be on supplier's account.
7. **Guarantee and replacement:** The Supplier shall guarantee that the Items/Equipment supplied shall comply fully with the specifications laid down, for material workmanship and performance. The Guarantee should be as mentioned in the specification.
8. **Acceptance of items/equipment:**
- a) Items supplied are subject to inspection and acceptance and the supplier should collect/replace the rejected items at their cost and risk.
 - b) The Items/Equipment shall be tendered by the Supplier for inspection at such places as may be specified by the purchaser at the Suppliers own risk, expenses and cost.
- It is expressly agreed that the acceptance of Items/Equipment is subject to final approval by the Purchaser, whose decision shall be final.
9. **Banking charges:** All banking charges applicable outside India, if any, will be on **supplier's account.**
10. Please note that faxed/email quotations shall not be accepted under any circumstances.
- 11. Preference will be given to 'Class-I local supplier' as per the Government of India Notification No. P-45021/2/2017-PP (BE-II) dated. 04 June 2020. Accordingly relevant documents i.e. a statement**

showing percentile of local content with respect to manufacture of the item, spares, service and assembling, if any, are Mandatory

CONDITIONS FOR TECHNO-COMMERCIAL BID

TECHNICAL

1. a) All available Technical Literature(s), Catalogue(s) and other data in support of the specifications and details of the item(s) should be furnished along with the offer.
- b) Approximate net and gross weight of the items offered shall be indicated in the offer. Packaging dimensional details should also be indicated in the offer.
- c) Insurance against all the transit and handling risks on a 'WAREHOUSE to WAREHOUSE' basis for a sum equivalent to 110% of C & F Cost shall be separately indicated.
- d) SPECIFICATIONS:

Items/Equipment offered should strictly confirm to our specifications indicated. Deviations, if any should be clearly indicated by the Supplier in their quotation. The Supplier should also indicate the Make/type and provide catalogue(s), Technical literature(s) and sample(s), wherever necessary along with the quotations. Test certificates wherever necessary should be forwarded along with the supplies.

2. Any firm representing the principal supplier should submit authorized dealership certificate in original from the principal company. Further, in case of imported products, OEM or Authorized Seller of OEM should have a registered office in India
3. Full details of supplies of the same equipment(s) made to users in India, if any shall be enclosed.
- 4. Provide List of user details in India.**
5. Full details of facility of service after sales available in India for the period covered by warranty and thereafter shall be furnished.

6. A complete set of instruction and operation manual should be supplied at the time of installation.
7. Final performance should be guaranteed at the site.
- 8. Compliance Statement for the point-wise specifications in the format should mandatorily be enclosed.**
9. The Centre reserves the right to make its own assessment on any of the technical details provided and decide on the suitability of the equipment offered.

COMMERCIAL

1. **Terms of payment:**

The payment in INR shall be made through NEFT/RTGS after successful installation and against submission of Performance Bank Guarantee equal to 10% value of the equipment, having validity up to a period of 3 months after expiry of Warranty. Complete details such as the bank account number/IFSC/SWIFT/Bank Address, etc. should be provided along with the price bid.

2. Duties, Taxes where legally leviable and intended to be claimed should be distinctly shown in the Tender.

3. **Duty Exemption:** Please note that the Purchaser is eligible for concessional Customs Duty, under the Govt. of India Notification **No. 11/280/1993-TU-V dated 28 April 2022**

4. **Delivery period:** **Delivery** is the essence of the contract. The supplier should adhere to delivery schedule as indicated in the Purchase order, failing which Clause 5 of Annexure-I shall be enforced.

5. **Delivery terms:** Delivery should be to CeNS.

6. In case Items/Equipment offered requires maintenance after the expiry of the warranty, the approximate charges for comprehensive as well as on-call basis maintenance should be indicated. Details of availability of local support should also be given.

7. **Packing, forwarding and insurance:** The supplier will be responsible for the stores being sufficiently and properly packed for transport by air, to withstand transit hazards and ensure safe arrival at the destination. The packing and marking shall be done by and at the expenses of the supplier. The Purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Supplier and the Purchaser shall pay only for such Items/Equipment as are actually received in good condition, in accordance with contract.

8. **Test certificate:** Wherever required, Test Certificate should be sent along with the relevant dispatch documents.

9. Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

OTHER CONDITIONS FOR PRICE BID

1. The price should be indicated on unit basis only. No unilateral revision in price will be admissible.
2. In case any of the subheads are included in the total cost, the same should be specified. Any exemption of duties / taxes / any other should be indicated. The Centre is eligible for concessional Customs Duty, under the Govt. of India Notification No. **11/280/1993-TU-V dated 28 April 2022.**
3. Any optional item indicated in techno-commercial bids must be priced separately.
4. Currency in which the price is quoted must clearly be mentioned.
- 5. Applicable PAN, GST & MSME certificates etc. should be enclosed.**
- 6. Compliance Statement for the point-wise specifications should mandatorily be enclosed.**
- 7. Discount: Special discount for educational institutions shall be mentioned in the price bid.**
- 8. Warranty: As per the specification document.**

Annexure II

TENDER FORM

Tender Ref. No.

To

**The Administrative Officer,
Centre for Nano and Soft Matter Sciences,
Arkavathi, Survey No. 7, Shivanapura, Dasanapura Hobli,
Bengaluru North 562162**

I/We agree to furnish required supplies/services as detailed in the Techno-Commercial Bid or such portions thereof as you may specify in the Acceptance of Tender/Supply Order at the prices given in the Price Bid in accordance with the General Terms and Conditions governing the contract/supply order enclosed hereto duly accepted on receipt of order for the same.

I/We agree to hold this offer open until _____ and shall be bound to supply/commission/erect the equipment and dispatch the same within the specified period.

I/We agree to supply and commission/erect the equipment and complete the whole of the work and hand over to the purchaser within the period of _____ weeks, from the date of receipt of intimation from you regarding acceptance of this tender/receipt of supply order.

I/We have understood the specifications and have drawn up the Techno-Commercial Bid in accordance with the requirements and have accordingly submitted the Price Bid.

I/We understand that CeNS reserves the right to reject any or all offers without assigning any reasons. It is also understood that the offers may be accepted either in whole or in part.

The details of remittance of Tender Application Fee and EMD are as under:

Details	Demand draft enclosed	Details of EMD Remittance		
		SBI Collect Ref No & Date		
(i) EMD (there is no EMD submission for below 5 lakhs items)	Yes/No			

If (i) above is 'No', details of Certificate of exemption:

Date:

Signature and Seal of Supplier

Name & Address

Specification Document for “LED Array Simulator with the capability to simulate AM 1.5G Spectrum.”

1. Introduction

This document outlines the specifications for the procurement of an LED array simulator capable of simulating the AM1.5G spectrum for research purposes. The system should be capable of providing stable, reliable output with minimal setup and maintenance requirements.

2. Technical Specifications

- **Spectral Range:** 350 nm to 1050 nm
- **Spectral Distribution:** AAA spectral distribution over a 15 mm diameter area
- **Temporal Stability:** Class A stability
- **Maintenance Requirement:** Zero maintenance; minimal warm-up time
- **Plug-and-Play:** Easy setup, plug it in, turn on, and start using
- **Software Control:** Free software for controlling intensity of each LED
- **Individual LED Control through Software:** Ability to control intensity at specific wavelengths with software:
 - 390 nm, 450 nm, 515 nm, 600 nm, 630 nm, 660 nm, 730 nm, 850 nm, 950 nm
- **Spectral Deviation:** < 70%
- **Spectral Coverage:** > 80%
- **Working Distance:** 8.5 cm (3.35 inches)
- **Irradiance (at Working Distance):** 1000 W/m²
- **Maximum Lamp Time:** 10,000 hours
- **Weight:** Less than 650 grams
- **Connectivity:** USB

4. Standard Accessories

- LED simulator unit
- Optical breadboard
- Adjustable height stand
- Software (free)
- Power cord
- Instruction manual

5. Vendor Requirements

- **Experience:** Vendor must demonstrate experience in installing at least 5 similar systems with successful operational outcomes.
- **Support:** Vendor should provide adequate support and training for system operation and maintenance.

6. Warranty and Support

- **Warranty:** Minimum 2-year warranty covering parts and labor.
- **Support:** Comprehensive technical support must be available during installation, setup, and throughout the operational lifespan.

Mandatory conditions:

- 1) The vendor must have supplied “**LED Array Simulator with the capability to simulate AM 1.5G Spectrum.**” to more than 5 places.
- 2) The vendor must have a service support office available in Bangalore.
- 3) Site Visit is Mandatory

Note: special discount for educational institutions shall be mentioned in the price bid.