

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
VIKRAM SARABHAI SPACE CENTRE (VSSC)
THIRUVANANTHAPURAM**

Tender for Laser diode driver IC

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT II (AVN)/VS202100448401 dated 04-10-2021

A. Tender Details

Tender No : **VSSC/PURCHASE UNIT II (AVN)/VS202100448401**

Tender Date : **04-10-2021**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE UNIT II (AVN)**

Centre : **VIKRAM SARABHAI SPACE CENTRE (VSSC)**

Procurement of Laser diode driver IC

Procurement of Laser diode driver IC

A.1 Tender Schedule

Bid Submission Start Date : **05-10-2021 14:00**

Bid Clarification Due Date : **11-10-2021 11:00**

Bid Submission Due Date : **08-11-2021 11:00**

Bid Opening Date : **10-11-2021 11:00**

Price Bid Opening Date : **15-11-2021 11:00**

B. Tender Attachments

NA

Instructions To Vendors

1. PROFORMA FOR TERMS AND CONDITIONS OF TENDER for indigenous stores items

1. Where counter terms and conditions/printed or cyclostyled conditions of sale have been offered by the tenders, the same shall not be deemed to have been accepted by the Purchaser unless the Purchaser's specific written acceptance thereof is obtained.
2. The Purchaser reserves the right to accept or reject any quotation fully or partly without assigning any reason therefore.
3. The Contractor shall at all times indemnify the Purchaser against all claims which may be in respect of the stores for infringement of any right protected by Patent, Registration or design or Trade Mark and shall take all risks of accidents or damage which may cause a failure of the supply from whatever causes arising and the entire responsibility for the sufficiency of all means used by him for the fulfilment of the Contract.
4. Successful tenderer will have to furnish in the form of a Bank Guarantee or in any other form as called for by the Purchaser towards adequate security for the materials/property provided by the purchaser for the due execution for the Contract.
5. Specifications: Stores offered should strictly conform to Purchaser's specifications. Deviations, if any, shall be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotation. Test certificate, wherever necessary, should be forwarded along with supplies. Wherever options are called for in our specifications, the tenderer should address all such options, wherever specifically mentioned by us, and the tenderer could suggest changes to specifications with appropriate response for the same. Even in such case, the tenderer should state why he cannot meet our specification/s and why he is suggesting the change.
6. Sales Tax and/or other duties/levies, where legally leviable and intended to be claimed, should be distinctly shown separately in the tender
7. Price quoted should be on the basis of FORdelivery at site. The Purchaser will not pay separately for transit insurance, and the risk and cost during transit shall be exclusively the responsibility of the Contractor and the purchaser shall pay only for such stores as are actually

received in good condition in accordance with the Contract.

8. Payment terms are full payment within 30 days from the date of receipt and acceptance of material ordered. Our Bankers are State Bank of India, Branch, (place).

9. Guarantee: The stores offered should be guaranteed for a minimum period of twelve months against defective stores design, operation or manufacture. For defects noticed during the guarantee period, replacement/repair should be arranged free of cost within a reasonable period of such notification. In cases where our specifications call for a guarantee period more than 12 months specifically, then such a period shall apply.

10. Packing and Forwarding: The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air, to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense to the Contractor.

11. 5.(a) 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 systems of unit must be furnished.

(b) Corrections, if any, in the quotation must be attested. All amounts shall be indicated both in words as well as in figures. When there is difference between the amount quoted in words and figures, the amount quoted in words shall prevail.

12. The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed not later than the date specified therein, and failure to do so, without adequate justification, may involve cancellation of the Contract at the discretion of the Purchaser

13. Quotation should be valid for at least 90 days from the date of opening of the tender.

14. ARBITRATION - In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Contract, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Offices of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre â Bengaluru (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and

binding between the Parties. The applicable language for Arbitration shall be "English" only. Work under the Contract shall be continued by the CONTRACTOR during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the DEPARTMENT or unless the matter is such that the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained.

C. Bid Templates

C.1 Technical Bid - Laser diode driver IC

1. INTEGRATED CIRCUITS

Item specifications for INTEGRATED CIRCUITS

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-------------------------------------|---|--------------------|-----------------------|--------|
| 1 | Item | Laser diode driver IC optimised for M-type laser diodes in continuous wave operation | Yes / No / Explain | | |
| 2 | Features | IC should have integrated circuitry for protection against destruction by ESD, excessive temperature and over current. IC should also be equipped with soft start to protect the laser diode when power supply is switched ON. Should have option for closed loop control of laser current using external monitor photodiode. Thermal pad should be present on IC | Yes / No / Explain | | |
| 3 | Laser current drive range | up to 350 mA | Yes / No / Explain | | |
| 4 | Supply voltage range | 3.6 V to 15 V | Yes / No / Explain | | |
| 5 | Over temperature shutdown threshold | between 140 degC to 165 degC | Yes / No / Explain | | |
| 6 | Operating ambient temperature range | -40 degC to 85 degC | Yes / No / Explain | | |
| 7 | IC turn-on delay | maximum 600 microseconds | Yes / No / Explain | | |
| 8 | Package type | SO8 package with thermal pad | Yes / No / Explain | | |

| | | | | | |
|----|--|------------------------------|--------------------|--|--|
| 9 | Supply current without load path | maximum 10mA | Yes / No / Explain | | |
| 10 | Supply current after reset | maximum 5mA | Yes / No / Explain | | |
| 11 | Reference voltage for external monitor photodiode used in closed loop control | between 230mV to 270mV | Yes / No / Explain | | |
| 12 | Reference voltage drift with temperature | less than 125 microvolt/degC | Yes / No / Explain | | |
| 13 | External monitor photodiode current range, used for closed loop control | up to 6.25mA | Yes / No / Explain | | |
| 14 | Saturation voltage(with reference to supply voltage) at laser diode drive pin with maximum drive current | maximum 1.5V | Yes / No / Explain | | |
| 15 | Overcurrent reset delay | maximum 600 microseconds | Yes / No / Explain | | |

Common Specifications (Applicable for all items)

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|---|--------------------|-----------------------|--------|
| 1 | Manufacturer part number and datasheet | Item should be from reputed manufacturer and Quote should clearly indicate the full manufacturer part number of the part quoted along with manufacturer datasheet highlighting the specifications | Yes / No / Explain | | |
| 2 | Manufacturer authorization | Supplier should attach authorization to sell/market this product | Yes / No / Explain | | |
| 3 | Original manufacturer CoC | Original manufacturer COC should be supplied. Stockist/supplier COC shall not be accepted | Yes / No / Explain | | |
| 4 | Rejection of quotation | Non compliance on 1,2,3 will lead to rejection of the quotation | Yes / No / Explain | | |

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|---|--|--|--------------------|--|--|
| 5 | MOQ | Quote for MOQ wherever applicable. MOQ specified should be based on manufacturer specifications. If MOQ is mentioned corresponding manufacturer details to be attached | Yes / No / Explain | | |
| 6 | Original packing offered by manufacturer | No loose packing of the item shall be accepted | Yes / No / Explain | | |
| 7 | Offer evaluation | In case the offer by a party is technically suitable consolidated lowest offer will be given preference | Yes / No / Explain | | |
| 8 | Percentage of local content | The percentage of local content should be specifically mentioned in the offer | Yes / No / Explain | | |
| 9 | Mandatory conditions | Compliance with specifications and reply to all item specifications and general specifications is mandatory to accept the quote. | Yes / No / Explain | | |

Supporting Documents required from Vendor

1. Supplier's manufacturer authorisation to sell/market the product

2. Manufacturers Certificate of conformance(COC)

3. Full part number along with the datasheet

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

| Sl. No. | Description | Compliance | Vendor Terms |
|---------|---|--------------------|--------------|
| 1 | ICs should be packed neatly | Yes / No / Explain | |
| 2 | All items should be accompanied with manufacturers certificate of conformance(COC). Devices supplied without manufacturers COC will be rejected | Yes / No / Explain | |
| 3 | I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. | Yes / No / Explain | |
| 4 | PO ordering address in full with Contact Persons Name, E-mail id, Phone No. [also attach your Quotation in PDF format without prices details]. | Yes / No / Explain | |
| 5 | You should update the address of your Principle/ agent [if applicable] in the new E procurement portal immediately . | Yes / No / Explain | |
| 6 | Foreign vendors are not permitted to quote 1.Only Class -I and Class-II Local suppliers as per make in India policy are eligible to participate in the bid. 2. The percentage of local content should be specifically mentioned in the offer, without which will be summarily rejected 3. Preference will be given to class-I Local Supplier and in their absence, class-II Local supplier will be considered. | Yes / No / Explain | |
| 7 | Taxes and other costs, if any. [Please Specify the rates]. Note: All Tax invoices issued by suppliers/service providers on or after July 01, 2017 shall invariably bear their GST registration number (GSTIN) and the applicable GST rates. In the absence of which, the invoices shall not be processed for payment. | Yes / No / Explain | |

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| 8 | VSSC is a Public Funded Research Institution under the administrative control of Department of Space and is eligible for partial exemption of IGST @ 5% against IGST EXEMPTION CERTIFICATE. | Yes / No / Explain | |
| 9 | Delivery Terms [Normal delivery terms - FOR Destination. | Yes / No / Explain | |
| 10 | Delivery Period [Please Specify the period, LD Clause applicable] | Yes / No / Explain | |
| 11 | Payment [Within 30 days after receipt and acceptance of item at our site]. | Yes / No / Explain | |
| 12 | Quote Validity: Minimum 180 days [for Two Part Tender] from the date of Tender opening. [Mandatory. Otherwise offer will not be considered for evaluation]. | Yes / No / Explain | |
| 13 | Liquidated Damages @ 0.5% per week subject to maximum of 10% of order value is applicable beyond the promised delivery schedule. | Yes / No / Explain | |
| 14 | This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dtd 04/06/2020- Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only. | Yes / No / Explain | |
| 15 | This is a TWO-PART tender i.e. Techno-Commercial Bid (Part-I) and Price Bid (Part-II) shall be submitted separately. All technical and commercial terms and conditions shall be furnished in the Techno-Commercial Bid while price shall be indicated only in the Price Bid. Uploading price details anywhere else other than the price-bid shall lead to unconditional rejection of the tender. Please make note of the same. Tenderers are advised NOT TO UPLOAD any documents revealing the price of the main equipment, accessories, spares or AMC in technical & Commercial bid. They are however, requested to upload UNPRICED BIDS (i.e. Price details masked) showing appropriate breakup of components of main equipment, individual accessories and spares as desired. | Yes / No / Explain | |

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|----|---|--------------------|--|
| 16 | Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India. The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide selfcertification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. They shall also give details of location (s) at which the local value addition is made. | Yes / No / Explain | |
| 17 | The vendor have to compulsorily submit the compliance statement online otherwise their offer will not be considered for further evaluation. Before entering the compliance statement, vendors are advised to refer the detailed specification provided. | Yes / No / Explain | |
| 18 | The Technical Specification/ Drawing/ Product Catalogues/ Works Carried by vendor/ Make offered etc. as a single PDF file without any financial details has to be uploaded online mode by the vendor. | Yes / No / Explain | |
| 19 | In cases if the item(s) offered exceed Rs. 10 Crores, the Class-I/Class-II Local Suppliers shall provide a Certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content. 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. | Yes / No / Explain | |
| 20 | Technical Bids will be opened at the scheduled due date & time. No further intimation will be sent in this regard. The schedule for price bid opening shown is only indicative. Price bids will only be opened in the case of parties who have been techno-commercially accepted, the details of which will be communicated at a later stage. | Yes / No / Explain | |

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|----|--|--------------------|--|
| 21 | If any of the bidders submit any forged or false documents along with the Tender, such tenders will be summarily rejected and such bidders will be blacklisted for all future tenders. | Yes / No / Explain | |
| 22 | Any other terms | Yes / No / Explain | |
| 23 | Country of Origin | Yes / No / Explain | |

C.3 Price Bid

| Sl. No. | Item | Quantity | Unit Price | Currency | Total Price | Remark |
|---------|---------------------|------------|------------|----------|-------------|--------|
| 1 | INTEGRATED CIRCUITS | 10.00 Nos. | | - | | |

Common charges (Applicable for all items)

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|-----------------------|--|
| Freight charge | |
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