

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
ISRO PROPULSION COMPLEX (IPRC)
MAHENDRAGIRI**

**Tender for Supply, Installation, Commissioning and Demonstration of
high definition 3D Inspection Microscope**

Bids to be submitted online

Tender No.: IPRC/PURGP2/IP202400055001 dated 17-05-2024

A. Tender Details

Tender No : **IPRC/PURGP2/IP202400055001**

Tender Date : **17-05-2024**

Tender Classification: **GOODS**

Purchase Entity : **PURGP2**

Centre : **ISRO PROPULSION COMPLEX (IPRC)**

Supply, Installation, Commissioning and Demonstration of high definition 3D Inspection Microscope

1. Kindly read all the instructions before quoting.
2. Last minute clarification on tenders will not be entertained.
3. Foreign vendors are not permitted to quote.
4. This is an E-Tender. Hence Postal/Fax/Email tenders will not be accepted.
5. Acceptance of Guarantee / Warranty, Security Deposit - if the quoted price is more than Rs.5.0 lakhs, PBG & LD Clause shall be specified in your Offer.
6. MSME preference is applicable only against the claim of the manufacturer and production of documentary evidence by the manufacturer for the registration of particular item under MSME
7. Items as per the Tender is eligible for Concessional rate of GST (i.e., @ 5%) as per Ministry of Finance, Dept. of Revenue Notification No. 24/2018 Central Tax (Rate) Schedule-I; Sl. No. 243B dated 31.12.2018 (Amendment to Notification No. 6/2018 - Central Tax (Rate) dated 25.01.2018 and Notification No. 1/2017 dated 28.06.2017) and Government of Tamil Nadu, Commercial Taxes & Registration (B1) Department G.O(Ms) No.18 Dtd. 25/01/2018 & Schedule-I; Sl. No. 243 B as per the amendment dated 31.12.2018 (Amendment G.O(Ms)No.170 dated 31/12/2018). Necessary concessional GST certificate will be issued. Please confirm your acceptance.

A.1 Tender Schedule

Bid Submission Start Date : **17-05-2024 17:00**

Bid Clarification Due Date : **13-06-2024 15:00**

Bid Submission Due Date : **18-06-2024 14:00**

Bid Opening Date : **18-06-2024 14:10**

B. Tender Attachments

NA

Instructions To Vendors

1. General Instructions

1. Last minute clarification on tenders will not be entertained.
2. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.
3. If a vendor is not able to submit bid against this tender due to any reason, such vendor is requested to post their REGRET message in the e-procurement portal with clear reasons or email to psogroup2@iprc.gov.in. Non submission of bids without regrets will be viewed seriously.
4. IPRC reserves the right to split the tendered quantity in part or whole on its sole discretion without assigning any reason.
5. IPRC has the right to cancel the tender without assigning any reason etc.
6. If any vendor submits forged / false documents along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.
7. Option Clause:-The purchaser reserves the right to increase/decrease the ordered quantity by up to 25-30 percent at any time, till final delivery date (or the extended delivery date of the contract), by giving reasonable notice even though the quantity ordered initially has been supplied in full before the last date of the delivery period (or the extended delivery period)

2. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

1. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.
2. As per the Rule 144(xi) of General Financial Rule, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the competent authority ie., Department for Promotion of Industry and Internal Trade (DPIIT).

3. Hence, Vendors or Agents of a Vendor (Indian or others) from a country sharing border with India shall submit copy of valid registration made with Department for Promotion of Industry and Internal Trade (DPIIT), Government of India along with the tender mandatorily, without which the offer will be treated as invalid.

4. Model Certificate for Tenders

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 fulfils all requirements in this regard and is eligible to be considered

5. Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

3. STANDARD TERMS AND CONDITIONS (DOS PM: 20)

1. ACCEPTANCE OF STORES:

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. 8 (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

2. DELIVERY:

(a) 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 on or before the specified dates.

(b) Should the Contractor fail to deliver the stores or any consignment thereof within the period prescribed for such delivery, the purchaser shall be entitled at his option either.

(i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or during which the delivery of such store may be in arrears subject to a minimum of 10%, or

(ii) to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or

(iii) to cancel the Contract or a portion thereof and if so desired to purchase or authorise the purchase of stores not so delivered or others of a similar description (where others exactly complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under sub-clause (ii) & (iii) of clause 10 (b) above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase or if there is an agreement to re-purchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. The manner and method of such re-purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of such re-purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

3. DISPATCH:

The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods dispatched. The consignment should be dispatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on "said to contain" basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

4. ERECTION OF PLANT & MACHINERY:

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser.

5. EXTENSION OF TIME:

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchaser's right to recover liquidated damages under clause 10 thereof.

6. GUARANTEE & REPLACEMENT:

- (a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.
- (b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.
- (c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.
- (d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.
- (e) The decision of the purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfill guarantee conditions outlined in clause 4 (a) to (e) above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) from a Bank approved by the purchaser for an amount equivalent to 3% of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

(g) All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of the stores at purchaser site.

(h) Even while the 12 months guarantee applies to all stores, in case where a greater period is called for by our specifications then such a specification shall apply in such cases the period of 14 months referred to in para 4 (b) & (c) shall be the guarantee period plus two months.

7. PERFORMANCE BANK GUARANTEE:

Supplier has to submit an interest free Performance Bank Guarantee for an amount equivalent to 3% (THREE PERCENT) of order value obtained from any scheduled Banks executed on Rs.200/- non-judicial stamp paper and shall be valid for a period of sixty days beyond expiry date of warranty period. The same shall be submitted along with Invoice towards final payment.

8. PACKING FORWARDING & INSURANCE:

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 of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

9. PRICES:

Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

10. REJECTED STORES:

Rejected stores will remain at destination at the Contractor risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of

the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

11. SECURITY DEPOSIT(SD):

The Supplier shall provide Bank Guarantee for an amount equivalent to the 3% (Three PERCENT) of the total Order value towards Security Deposit for the due performance of the Purchase Order. The Security Deposit can be submitted in the form of Bank Guarantee (format enclosed) or Fixed Deposit receipt obtained from any Nationalized/ Scheduled Bank and it shall be kept valid for a period of sixty days beyond the date of completion of the Purchase Order. This Security Deposit will be returned to the Supplier only upon successful completion of all the contractual obligations or shall be adjusted/ forfeited against non-fulfilment of any of the contractual obligations. The Security Deposit shall be submitted within 30 days from the date of receipt of Purchase Order.

12. TEST CERTIFICATE:

Wherever required, test certificates should be sent along with the dispatch documents.

13. The Purchaser shall mean the President of India or his successors or assigns.

C. Bid Templates

C.1 Technical Bid - Supply, Installation, Commissioning and Demonstration of high definition 3D Inspection Microscope

1. Microscopes - Supply, Installation, Commissioning and Demonstration of high definition 3D Inspection Microscope

Item specifications for Microscopes

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of Work	Supply, Installation, Commissioning and Demonstration of high definition 3D Rotational Inspection Microscope with the following specification.	Yes / No / Explain		
2	Feature 1	Microscope shall have built-in software to view, capture, store, retrieve and measure the specimens under observation.	Yes / No / Explain		
3	Feature 2	The design of microscope shall be such that all the features listed above shall be executed by using the internal memory of the microscope and USB drive attached to it.	Yes / No / Explain		
4	Feature 3	Microscope shall be capable to execute all the above functions without being connected to a separate CPU of a PC/Computer.	Yes / No / Explain		
5	Feature 4	Microscope shall have provision to connect a standard LED monitor to its internal memory for viewing the images and for measurement.	Yes / No / Explain		

6	Measurement capability	<p>a) Shall be capable to measure arc, angle, distance between two points etc. in geometrical shapes such as line, circle, rectangle, triangle and polygons.</p> <p>b) Shall be capable for converting the measurements taken to excel sheets.</p> <p>c) Measuring accuracy :The specifications of the monitor shall be as follows:± 5microns</p>	Yes / No / Explain		
7	Operation of the Microscope	<p>a) Shall have manual adjustment knobs for adjusting zoom and working distance.</p> <p>b) Shall be capable to operate by a standard USB mouse for measurement on captured images and for saving images.</p>	Yes / No / Explain		
8	Memory of the Microscope	Internal memory of the microscope and USB disk plugged to the internal memory of the microscope.	Yes / No / Explain		
9	Communication Ports	<p>Microscope shall have</p> <p>a)One HDMI Port for connecting the monitor</p> <p>b) Two USB ports</p>	Yes / No / Explain		
10	Image Quality	2500 x 1900 or better	Yes / No / Explain		
11	Focus	Manual Focus or automatic	Yes / No / Explain		
12	Optical Magnification	1.0X-4.0X or better	Yes / No / Explain		
13	Total Magnification	25X - 130X or better	Yes / No / Explain		
14	Field of View	20x10mm-3.0x1.8mm or better	Yes / No / Explain		
15	Sensor	8.0MP or better	Yes / No / Explain		

16	Resolution	Full HD or better	Yes / No / Explain		
17	Observation Modes	a) 3D Visual Inspection with 360 degrees rotation b) 2D Visual Inspection and Measurement	Yes / No / Explain		
18	Output	HDMI	Yes / No / Explain		
19	Light Source	Dual Light Source (Brightness 0-100 %adjustable) Front light : 200 PCS LED or better Side light : 20 PCS LED or better	Yes / No / Explain		
20	Items to be supplied	Microscope-Qty-1No., USB Drive- Qty-1No., Monitor with HDMI Cable-Qty.-1No., USB Optical Mouse-Qty-1No.	Yes / No / Explain		
21	Monitor Specifications (1of4)	Party shall supply an LED monitor of reputed make (Qty-1No.) along with the equipment. The specifications of the monitor shall be as follows:	Yes / No / Explain		
22	Monitor Specifications (2of4)- Display	Diagonal Viewing Size: Min.55cm, Horizontal Viewing Size: Min. 480 mm, Vertical Viewing Size: Min.270mm, Display Screen Coating: Anti-Glare, Viewing Angle: 160°/170°, Backlight Technology-LED,	Yes / No / Explain		

23	Monitor Specifications (3of4)- Contrast & Resolution	Contrast Ratio - 1000:1 (typical), Aspect Ratio-16:9, Pixel Pitch: 0.248 mmx0.248mm, Pixel Per Inch(PPI): 102, Maximum Preset Resolution: 1920 x1080 at 60Hz, Brightness-250 cd/m2(typical), Response Time-5 ms or better typical (Normal) (gray to gray)	Yes / No / Explain		
24	Monitor Specifications (4of4)- Connectivity & Power Input	Connectivity Ports: 1No.VGA, 1No.HDMI Powerinput-100V AC to 240 V AC / 50Hz or 60Hz±3Hz / 0.7A(typical)	Yes / No / Explain		
25	USB Drive Specification(1of2)	Party shall supply USB drive of a reputed make (Qty.- 1No.) along with the equipment.	Yes / No / Explain		
26	USB Drive Specification (2of2)	The specifications of the USB drive shall be the following: Shall be ultra-compact and portable USB flash drive, Memory StorageCapacity-64 GB(min.), Hardware Interface shall be USB 3.0.	Yes / No / Explain		
27	Calibration	Party shall do the calibration of the measuring system according to the standard calibration procedures. Party shall issue the calibration certificate for the equipment at the time of commissioning.	Yes / No / Explain		
28	Warranty	Minimum 12 months from the date of successful installation, commissioning and demonstration of the microscope.	Yes / No / Explain		

29	Pre-qualification Criteria	a) Party should have supplied similar digital measuring microscopes to reputed Industries in the past 10 years. b) Party shall submit the details of this supply in the form of purchase orders.	Yes / No / Explain		
30	AMC	Party shall provide quote for non-comprehensive AMC charges for three years as follows: a) For 1st, 2nd and 3rd year after expiry of warranty period b) Party shall also indicate the no. of visits planned per year under the scope of AMC.	Yes / No / Explain		
31	Spares	Party shall submit the list of spares required for the microscope with part no. and cost of each spare.	Yes / No / Explain		
32	Catalogue	All the items quoted shall be from a standard manufacturing range of the supplier and party shall furnish original product catalog (in English) along with the quote. Quote without product catalog will not be considered.	Yes / No / Explain		
33	Documents to be submitted along with the quote	a) Original product catalogue detailing the technical specifications and part nos. of the offered products as per the scope of supply. b) Quote for non-comprehensive AMC charges. c) List of spares with part no. and cost of each spare. d) PO copies of previous supply to reputed Industries.	Yes / No / Explain		

34	Documents to be submitted along with the equipment	a) Operating manual of the equipment including maintenance and troubleshooting details. b) Calibration Certificate c) Warranty Certificate	Yes / No / Explain		
35	Acceptance	a) Final acceptance of the machine will be provided only after satisfactory completion of the entire process which includes installation, commissioning, demonstration and training. b) Party has to demonstrate the operation of the equipment during the installation and commissioning process.	Yes / No / Explain		

Supporting Documents required from Vendor

1. Original product catalogue detailing the technical specifications and part nos. of the offered products as per the scope of supply.

2. Supporting documents

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Validity of Offer (specify)	Yes / No / Explain	
2	Delivery Period (specify)	Yes / No / Explain	
3	Delivery Terms: Normal delivery terms - FOR Destination (i.e., IPRC, Mahendragiri)	Yes / No / Explain	
4	Payment Terms: 100% within 30 days after receipt and acceptance of items (No advance payment is acceptable). Specify your Payment Terms.	Yes / No / Explain	
5	Security Deposit: The Supplier shall provide Bank Guarantee for an amount equivalent to the 3% (THREE PERCENT) of the total Order value towards Security Deposit for the due performance of the Purchase Order. The Security Deposit can be submitted in the form of Bank Guarantee or Fixed Deposit Receipt obtained from any Nationalized/ Scheduled Bank and it shall be kept valid for a period of sixty days beyond the date of completion of the Purchase Order. This Security Deposit will be returned to the Supplier only upon successful completion of all the contractual obligations or shall be adjusted/ forfeited against non-fulfilment of any of the contractual obligations. The Security Deposit shall be submitted within 30 days from the date of receipt of Purchase Order.	Yes / No / Explain	
6	Confirm: Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA	Yes / No / Explain	
7	Liquidated Damages: The delivery period / completion period shall be the essence of the Purchase Order. If the Supplier fails to meet delivery date within the time specified above or any extension thereof, the Department will recover from the Supplier as Liquidated Damages (LD) a sum of 0.5% of the total order value for each calendar week of delay subject to a maximum of 10% of the total order value. Confirm your acceptance.	Yes / No / Explain	

8	Name of PRINCIPAL, Address, Contact No, E-mail Id etc. (specify):	Yes / No / Explain	
9	Currency quoted (specify)	Yes / No / Explain	
10	Warranty / Guarantee Period: (specify)	Yes / No / Explain	
11	Taxes and other costs, if any: (Specify).	Yes / No / Explain	
12	Performance Bank Guarantee: Performance Bank Guarantee (PBG) for 3% of the order value shall be submitted along with your Invoice/prior to final payment. It shall be valid till the warranty/ guarantee period and shall have an additional claim period of 60 days.	Yes / No / Explain	
13	Only Class-I and Class-II Local suppliers as per Make in India Policy are eligible to participate in the bid. Percentage of Local Content for the offered item / items shall be specified	Yes / No / Explain	
14	MSME preference is applicable only against the claim of the manufacturer and production of documentary evidence by the manufacturer	Yes / No / Explain	
15	Bank Details (State Bank of India, Mahendragiri, Tirunelveli (Dist) - 627 133) Details of your bank shall be furnished.	Yes / No / Explain	
16	Any other terms	-	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Microscopes - Supply, Installation, Commissioning and Demonstration of high definition 3D Inspection Microscope	1.00 Nos.		-		