

*Maulana Azad*  
National Institute of Technology Bhopal - 462003

(An Institution of National Importance under MHRD, Govt. of India)



**LIMITED TENDER ENQUIRY**  
*FOR*  
*SUPPLY & INSTALLATION, TESTING & COMMISSIONING OF HIGH*  
*RESOLUTION PRISM BASED 3.2 MEGAPIXEL CMOS CAMERA AT MANIT*  
*BHOPAL*

Website: [www.manit.ac.in](http://www.manit.ac.in)  
Email Address: [info@manit.ac.in](mailto:info@manit.ac.in)

Fax No: 0755-2670562  
Telephone No: 0755-4051000, 0755-4052000

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No. MANIT/MECH/KRA/ENQ/05

Date:- 20/11/2018

**NOTICE INVITING TENDERS**

Sub: Supply, Installation, Testing & Commissioning of High Resolution Prism Based 3.2 Megapixel CMOS Camera at MANIT Bhopal.

Tenders are invited for Supply, Installation, Testing & Commissioning of High Resolution Prism Based 3.2 Megapixel CMOS Camera at MANIT Bhopal. Interested Manufacturers/Authorized Partner/Agencies may log on Institute website [www.manit.ac.in](http://www.manit.ac.in) and CPPP website [www.eprocure.gov.in/epublish/app](http://www.eprocure.gov.in/epublish/app) for further details. Tender Document can be downloaded and the duly completed be submitted to the **Central Store MANIT**, Bhopal - 462003.

Last date of receipt of complete tender document is **10/12/2018** up to 15.00 hours. The Director of the Institute reserves the right to accept or reject any or the entire tender in full or in part without assigning any reason whatsoever.

**Registrar**

*Maulana Azad*  
National Institute of Technology Bhopal - 462003

<b>IMPORTANT INFORMATION AT A GLANCE</b>		
Tender No & Date	No. MANIT/MECH/KRA/ENQ/05	
	Date:- 20/11/2018	
<b>SCOPE OF TENDER</b>		
Brief Description of Goods/Items	Quantity	Remarks
High Resolution Prism Based 3.2 Megapixel CMOS Camera at MANIT Bhopal.	<b>01</b>	Detailed Specification at Annexure-I
Estimated Cost of Tender	<b>Rs. 6,50,000.00</b> Approximately	
Location of Supplies & Installation	Department of Mechanical Engineering MANIT, Bhopal	
<b>TENDER DOCUMENT</b>		
Tender Document can be downloaded free of cost from Institute website <a href="http://www.manit.ac.in">www.manit.ac.in</a> and CPPP website <a href="http://www.eprocure.gov.in/epublish/app">www.eprocure.gov.in/epublish/app</a>		
<b>Last Date &amp; Time of Submission of Tender</b>	<b>10/12/2018 up to 15:00 hours</b>	
<b>Date &amp; Time of Opening of Bids</b>	<b>10/12/2018 at 15:00 hours</b>	
<b>Expected Delivery Period</b>	<b>Eight weeks from issuance of order</b>	
Details of Contact Persons for Technical Query if any		
<b>Dr. K. R. Aharwal</b> <b>Designation: Associate Professor</b> Tel No: 0755 4051605 Email: krahamwal@gmail.com		
Details of Contact Person for Commercial Query		
<b>Shri Harish Vaidya</b> Asstt. Registrar- Stores & Purchase 0755-4051040 harishvaidya@manit.ac.in		

## INSTRUCTIONS TO BIDDERS

<b>1 Scope of Supplies &amp; Work:</b>	
a	The Goods/ Items shall be supplied as per the specification & drawing mentioned in <b>ANNEXURE-I</b> .
b	Where ISI certification marked goods are available in market, procurement should generally be limited to goods with those or equivalent marking only. The warranty/AMC required must be specified
c	After the supply of Goods/ Items & Accessories as mentioned in the <b>ANNEXURE-I</b> , the bidder has to execute its installation at the designated location(s).No extra cost shall be paid for this reason.
<b>2 Delivery of Supplies &amp; Installation:</b>	
a	The purchaser interested for complete delivery of Goods/items along with Installation by bidder within stipulated time limit.
b	The material shall be inspected on receipt at site and bidder shall be responsible for any damage during the transit of Goods/Items.
c	The insurance cover including insuring the goods against the loss or damage incidental to manufacture or acquisition, transportation, storage and delivery/ installation shall be obtained by bidder in his own name and not in the name of purchases.
<b>3 Warranty &amp; After Sales Services:</b>	
a	The bidder shall offer on-site comprehensive warranty of Good/Items for 01 (One) year from the date of successful commissioning of goods at the designated location & shall cover each and every part of the goods including parts having limited life etc. The purchaser is not liable to pay any extra charges on any account during warranty period.
b	The bidder shall ensure to render after sales services during the warranty period to the satisfaction of purchaser.
c	The performance Bank Guarantee 10% of the basic value is required for the warrantee period.
<b>4 Eligibility Criteria:</b>	
a	Bidder should have registered with appropriate Authority.
b	Bidder should have minimum annual turnover (Double value of estimated cost of tender) in last year. CA certification in this regard is to be submitted.
c	Bidder should have GST Number & Income PAN both.
d	OEM Authorization Letter
e	Bidder must have completed the Supply, installation; testing & successful commissioning of High Resolution Prism Based 3.2 Megapixel CMOS Camera during last three years. Copy (s) of Work Order and Completion Certificate (s) must be submitted along with bid.
<b>5 Amendment of Tender Document:</b>	
a	At any time prior to the date submission of bids, the purchaser, may, for any reason, whether at its own initiative or in response to a clarification sought by a prospective bidder, amend bid document by issuing corrigendum. The

		corrigendum will be notified/ published in e-tendering website <a href="http://www.eprocure.gov.in/epublish/app">www.eprocure.gov.in/epublish/app</a> and Institute website only.
6	<b>Price Bid</b>	
	a	The Prices should be quoted in Indian Rupees only as per Annexure-I
	b	Purchaser (being a research Institution) is registered with the Department of Scientific & Industrial Research (DSIR) for the purpose of availing custom duty exemption in terms of GoI Notification No. 51/96-Customs dated 23 July 1996. The bidder should quote their prices considering the exemption certificate. If any certification needed by bidder, may be given to avail this benefit.
	c	Bidder shall take into account all costs including unloading at the location of purchaser, cartage etc. for giving delivery of material at site(s) before quoting the rates. In this regard no claim what so ever shall be entertained.
	d	The bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted unit prices.
	e	The price quoted in price bid shall be firm but subject to change in rate of applicable taxes if any.
	f	The Bidder should avoid the use of vague term such as “Extra as applicable”. Such offers shall be treated as non-responsive.
	g	No extra payment shall be paid on account of any discrepancy in nomenclature of items. The bidder shall seek clarifications if any before submitting the tender.
7	<b>Bid Submission:</b>	
		The tender must be placed in a properly sealed envelope super-scribed “ <b>Tender for the Supply, Installation, Testing &amp; Commissioning of High Resolution Prism Based 3.2 Megapixel CMOS Camera at MANIT Bhopal</b> ” with tender inquiry number and its due date addressed to The Director, Maulana Azad National Institute of Technology, Bhopal - 462003 and must reach the office of <b>Central Store MANIT, Bhopal - 462003</b> by <b>10/12/2018</b> up to 15.00 hours. The sealed Envelop should be consisting of followings:
	a	<b>INSTRUCTION TO BIDDERS</b> duly signed and accepted
	b	<b>ANNEXURE-I</b> duly signed and accepted.
	d	Copy of Certificate of Registration of Company/ firm/ Agency
	e	Copy of valid GST Number & PAN both.
	f	Certificate mentioning of Turnover for the last year.
	g	Copy of OEM Authorization Letter
	h	Copy (s) of Work order and completion certificate (s) in respect of SITC of High resolution prism based 3.2 Megapixel CMOS Camera during last three years.
	i	The bidder would have to quote the prices for the total scope of work item wise in the <b>ANNEXURE-II</b> . Partial quote are liable to be rejected
	8	<b>Evaluation of Bids:</b>
The Institute shall evaluate all the items together or separately depending upon nature of items of circumstance and compare the quotations determined to be substantially responsive i.e. which		
a		are properly signed;
b		Confirm to the eligibility criteria of the vendor; and
	c	Confirm to the terms & conditions, and technical specifications.
9	<b>Validity of Tender:</b>	

	a	The tender shall be valid for a period of 60 days from the date of opening of the bid of tender. Terms and financial details submitted in the bid shall be treated as firm during the 60 days period.
	b	In exceptional circumstances, prior to the expiry of the bid validity period, the purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing.
10	<b>Notification of Award:</b>	
	a	Prior to the expiry of the period of bid validity, the purchaser shall notify the successful bidder, in writing, that its bid has been accepted. The notification letter shall specify the sum that the purchaser will pay to the bidder in consideration of the <b><i>Supply of Goods/ Items</i></b> with the details of selected location.
11	<b>Penalty Clause:</b>	
	a	The bidder shall indicate the period within which the ordered quantity will be supplied along with Installation & Commissioning of Goods/ Items. The bidder shall note that in case bidder fails to do so within the period of delivery indicated by the bidder in bid of this tender, penalty @ 01% of value of the order per week of delay would be levied subject to maximum 10 weeks. It means, the bidder shall have the liability of delayed supply to the maximum of 10 weeks after expiry of scheduled delivery date.
12	<b>Terms of Payment:</b>	
	a	The Payment shall be made within 30 days by purchaser after supply and installation of Goods/ Items.
13	<b>Jurisdiction:</b>	
	a	In the event of any dispute the legal matter shall be subjected to the jurisdiction of Bhopal court only.
We confirm with our acceptance to the instructions as given above.		
Date:		BIDDER'S NAME & SIGNATURE WITH SEAL
<i>These duly signed "Instructions to the Bidders" as under shall be attached with bid of the tender as a mark of acceptance of bidder and any tender not confirming the instructions as under is liable to be rejected.</i>		

## Maulana Azad National Institute of Technology Bhopal – 462003

Broad Specification of Goods / Item / Work Supply, Installation, Testing & Commissioning of High Resolution Prism Based 3.2 Megapixel CMOS Camera at MANIT Bhopal.

Technical Specification of required camera		Quantity	Delivery Period	Place of Delivery
Sensor	1/1.8" 3-CMOS global shutter (IMX265)	01	8WEEKS	Department of Mechanical Engineering MANIT Bhopal (M.P)-462003
Active pixels	2064 (h) x 1544 (v) x 3 (R,G,B)			
Frame rate, full frame	55.6 frames/sec. @ 8-bit			
Pixel size	3.45 $\mu\text{m}$ x 3.45 $\mu\text{m}$			
Pixel clock (Camera Link)	37.125 / 74.25 / 84.85 MHz			
Read-out modes Full ROI (single) Binning	2064 (h) x 1544 (v) up to 55.6 fps H: 16 to 2064 pixels in 16 pixel steps V: 2 to 1544 lines in 2 line steps 1x2, 2x1, 2x2			
EMVA 1288 Parameters Absolute sensitivity Maximum SNR	12-bit output format 3.66 p (l = 525 nm) 40.37 dB			
Traditional SNR*	>60 dB (0 dB gain, 10-bit)			
Video signal output	8/10/12-bits per channel <sup>†</sup> (24/30/36-bit RGB)			
Video modes	Normal, Single ROI, Multi ROI, Sequencer			
Gain	Manual control - master mode or individual R/G/B channels Auto gain control - off, continuous, one-push			
White balance	Off, 4 presets (3200K, 5000K, 6500K, 7500K), or one-push/continuous AWB using gain or exposure time (3000K to 9000K)			
Gamma/LUT	0.45 to 1.0 (9 steps) or 257-point programmable LUT			
Shading correction	Flat shading, color shading			
Trigger input	Camera Link, Opto In (2), Pulse Generators (4), Software, NAND			



	Out (2), User Output (4)			
Exposure modes	Timed/EPs, Trigger Width, Auto			
Electronic shutter	(can be set independently for R/G/B channels) 14.73 $\mu$ s to 8 sec. in 1 $\mu$ s steps (8-bit) 14.73 $\mu$ s to 8 sec. in 1 $\mu$ s steps (10-bit)			
Auto Level Control (ALC)	Shutter range from 100 $\mu$ s to 13.427 ms, gain range from 0 dB to +12 dB. Tracking speeds and max. values adjustable.			
Pre-processing functions	Color enhancer, edge enhancer, color space conversion (RGB to HSI, XYZ, sRGB, Adobe RGB), blemish compensation (200 px/channel)			
Operating temp. (ambient)	-5°C to +45°C (20 to 80% non-condensing)			
Storage temp. (ambient)	-25°C to +60°C (20 to 80% non-condensing)			
Regulations	CE (EN61000-6-2, EN61000-6-3) FCC Part 15 Class B, RoHS/WEEE			
Power 12-pin PoCL	+12V to +24V DC $\pm$ 10%. TBD W typical @ +12 V +12V DC $\pm$ 10%. TBD W tpical @ +12 V			
Lens mount	C-mount			
We confirm with our acceptance to the technical specification as given above.				
Date:			<b>BIDDER'S NAME &amp; SIGNATURE WITH SEAL</b>	

**ANNEXURE- II**

<b>FORMAT FOR SUBMISSION OF BID PRICE</b>	
To,	
The Director	
MANIT- Bhopal- 462003	

Sub:	Price Bid with reference to Tender Document No: _____ dated _____
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SN	Product Description with make & Model	Discounted unit price	Qty	Qty Price	GST	Total Price
1	2	3	4	5	6	7(5+6)
Total offered Price						
Total ( In Words)						

The followings things are confirmed and undertake by us that:	
a	The price quoted above are inclusive of basic price, statutory levies and taxes, duties, Transportation, Incidental services (including Insurance, Loading/ unloading, Packing & Forwarding charges, Installation etc.) at site.
b	Taxes are subject to change/ revision.
c	Offer price shall be valid for a period of 60 days from the date of opening of bid of this tender.
d	We will be agreed to offer services for on-site comprehensive warranty on the Goods/ Items supplied through this tender for two (02) years.
e	We agree with the terms and conditions specified in “Instructions to Bidders” and if selected, the execution of supplies would be made in compliance.
Date:	Signature of Authorized Bidder with proper rubber stamp
	Name:
	Designation:
	Mobile No: