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मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान  
 इलाहाबाद-211004 (भारत)

**Motilal Nehru National Institute of Technology Allahabad**  
 Allahabad-211004 (India)

An Institute of National Importance as Declared by NIT Act, GOI, 2007

**INVITATION FOR SUPPLY DUAL CORE IMAGE/VIDEO PROCESSING SETUP BASED ON LINUX, COMPUTER VISION EXPERIMENTATION SETUP AND DIGITAL SIGNAL PROCESSING KITS BASED ON DSP 2000**  
*(For Contracts value estimated to cost less than Rs.25lakhs)*

1	<b>Closing Date/Time for submission of Quotations</b>	03/02/2017; 15:00 Hrs.
2	<b>Opening Date/Time of Quotations</b>	03/02/2017; 15:30 Hrs.
3	<b>Quotations to be submitted at</b>	The Office of Faculty-In-charge (Purchase) M.N.N.I.T. Allahabad, Allahabad-211 004 (U.P.)
4	<b>Place of opening of quotations</b>	The Office of Faculty-In-charge (Purchase) M.N.N.I.T. Allahabad, Allahabad-211 004 (U.P.)
5	<b>Tender Fee</b>	Rs. 200.00 (Non-refundable), in form of a Demand Draft drawn in favor of DIRECTOR, MNNIT Allahabad.
6	<b>Earnest Money Deposit (EMD)</b>	<b>Rs. 17,000/- (Rs. In words Seventeen Thousand only)</b> , in form of FDR/Bank guarantee, from any of the Commercial Banks, drawn in favour of "Director, MNNIT Allahabad" payable at Allahabad, and valid for a period of 45 days beyond the final bid validity period

To,

**Dear Sir**

You are invited to submit your most competitive quotation for the following goods/equipments. The quotation should be sent directly to the undersigned under Sealed Cover marked "Quotation Reference No., Date", and "The Due Date":

Sl. No.	Brief Description of the Goods	Quantity	Place Of Delivery
1.	Dual Core Image/Video Processing Setup Based On Linux	02 nos.	MNNIT Allahabad
2.	Computer Vision Experimentation setup	01 set	
3.	Digital Signal Processing kits based on DSP 2000	03 nos.	
(Detailed specifications of items in Sl. No. 1, 2 and 3 attached at <b>Annexure-B</b> )			

The sealed tenders must be submitted in the Office of the Faculty In-charge (Purchase), on or before **due date & time as mentioned above** in the office of the undersigned, in the presence of bidder's authorized representatives, who choose to attend and shall sign a register evidencing their attendance.

The tender/quotations NOT submitted in the prescribed format or Incomplete in any respect will be outrightly rejected.

**Faculty In-charge (Purchase)**  
 MNNIT Allahabad

## GENERAL TERMS & CONDITION (GCC)

1. **Bid Price**
  - (a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.
  - (b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
  - (c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
  - (d) The prices should be quoted in Indian Rupees only for indigenous items. For imported items/Equipments, the prices should be quoted in foreign currency.
  - (e) Each bidder shall submit only one quotation.
2. **Validity of Quotation**

Quotation shall remain valid for a period not less than **120 days** after the deadline date specified for submission.
3. **Evaluation of Quotations**
  - (a) The purchaser will evaluate and compare the quotations determined to be substantially responsive, i.e., which
    - (i) are properly signed; and
    - (ii) conform to the terms and conditions, and specifications.
    - (iii) will be with tender fees, and EMD required, if any.
  - (b) The Quotations would be evaluated separately for each item.
4. **Award of Contract**

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

  - Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
  - The bidder whose bid is accepted will be notified for the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order if falls under Govt. purchase rules, i.e., GFR-2005
5. **Formats and Signing of Bid**
  - Each & every pages of the submitted bid must carry the page numbers.
  - The bidders are not allowed to make additional and alteration in the tender document, any additions and alteration in the tender document, any additions and alterations shall be at bidder's risk. Conditional/modified tender are liable to be rejected.
  - The tender/quotations NOT submitted in the prescribed format or Incomplete in any respect will be outrightly rejected.
  - If the bid submitted without compliance sheet details of equipments the bid will be outrightly rejected.
  - The bid shall be typed or written in indelible ink and shall be signed by the Bidder/Tenderer or a person or persons duly authorized to bind the Bidder/Tenderer to the Contract. All pages of the bid, except for unamended printed literature, shall be initialed by the person or persons signing the bid.
  - Any interlineations, erasure or overwriting shall be valid only if they are initiated by the persons or persons signing the bid.
  - The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.
6. **Payment condition:** 100% Payment shall be made only after satisfactory delivery and installation of the goods. Advance payment is not permitted.
7. Normal Commercial warranty/ guarantee shall be applicable to the supplied goods.
8. **Payment will be cleared through e-payment mode (Format of e-payment form given at Annexure-D)**

## INSTRUCTIONS/GUIDELINES TO BIDDERS (ITB)

1. Bidders who had supplied the Government departments, PSUs/NITs/IITs/IIITs and reputed Institutions and Organizations should only apply.
2. The bidder should enclose the client list with contact address along with Phone/Fax for reference, for the quoted item.
3. Please quote the prices of F.O.R. Motilal Nehru National Institute of Technology Allahabad, Allahabad.
4. The Bidders are requested to submit their Quotation with EMD in the form of Demand Draft/ Bank Guarantee/ Short term Deposit of the cost of equipments/items in favor of "The Director, MNNIT, Allahabad" payable at Allahabad. Quotation without EMD will be summarily rejected. EMD's of all Bidders will be returned back after the purchase order /contract agreement is issued to successful bidder.
5. Successful Bidders must have to submit the performance security @10% of the purchase order or contract value and it will be retained up to the warranty period.
6. The bidder should enclose relevant documents wherever necessary to substantiate his eligibility.
7. The Institute is eligible for and can provide necessary documentation for Custom/Excise and Octroi exemption on demand, if permitted under rule.
8. Motilal Nehru National Institute of Technology Allahabad, Allahabad, reserves the right to reject, accept any or whole or part of any of the tender without assigning any reason thereof and no claim will be heard. In case of dispute, the decision of The Director, MNNIT, and Allahabad will be final and binding.
9. If the successful bidder is not able to supply the goods items within the delivery date specified in the purchase order, the purchase order will be automatically treated as cancelled after expiry of delivery date period. The vendor will have to submit an undertaking in this regard that this condition is acceptable to him. In case of extra ordinary circumstances the vendors must send a request for extension of validity of purchase orders, with proper justification prior to the expiry of validity date for consideration.
10. In case of sophisticated equipments, an on-site training needs to be provided with no extra cost.
11. The quotation must be accompanied by leaflets/operation manuals/books etc.
12. Wherever applicable the vendors must quote the branded /desired items.

CHECK LIST  
(ON THE LETTER HEAD OF THE BIDDER)

The Bid will be the compilation of following documents, along with required supporting documents. No document in support of minimum eligibility criteria will be accepted / entertained after opening of tender.

Sl. No	Documents
1.	Cover letter by bidder (On the Letter Head of the Bidder)
2.	Tender Fee
3.	Earnest Money Deposit (EMD), if required
4.	Cliental List for quoted item
5.	<b>Annexure-A</b> : Bid Proposal Sheet (On the Letter Head of the Bidder)
6.	<b>Annexure-B</b> : Compliance of bidder with reference to various equipments (On the Letter Head of the Bidder)
7.	<b>Annexure-C</b> : PRICE BID (On the Letter Head of the Bidder)
8.	<b>Annexure-D</b> : PROFORMA FOR DIRECT PAYMENT/TRANSFER TO BANK ACCOUNT BY MNNIT ALLAHABAD

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ANNEXURE-A

BID PROPOSAL SHEET  
(ON THE LETTER HEAD OF THE BIDDER)

To  
Faculty In-charge (Purchase)  
MNNIT Allahabad, Allahabad

**Subject:** Supply of “Dual Core Image/Video Processing and DSP etc.” at MNNIT Allahabad, Allahabad.

Dear Sir,

We, the undersigned Tenderers, having read and examined in detail the specifications as specified in this document in respect of Supply and Installation of **Dual Core Image/Video Processing and DSP etc.** at MNNIT Allahabad, Allahabad do hereby propose to supply the required products and services.

Tender No.				
Tender Fees submitted		YES / NO (Please strike off whatever is not applicable)		
Amount	Mode	Date of Issue	Name of Bank	Valid up to
	Demand Draft			
EMD submitted		YES / NO (Please strike off whatever is not applicable)		
Amount	Mode	Date of Issue	Name of Bank	Valid up to
	Demand Draft			

- (i) **ADDITIONAL PURCHASE/WORK ORDER:** We understand that the MNNIT Allahabad, Allahabad, in case of the requirements may also place repeat purchase order/work order on the company. In such cases, we shall accept and execute all the purchase/work order placed on us by MNNIT Allahabad, Allahabad.
- (ii) **BID PRICING:** We further declare that the prices stated in our proposal are in accordance with your Terms & Conditions in the bidding document. We further understand that the quantities as specified in this Tender may increase or decrease at the time of Award of Purchase Order as per the requirements of MNNIT Allahabad, Allahabad.
- (iii) **QUALIFYING DATA:** We confirm that we satisfy the qualifying criteria and have attached the requisite documents as documentary proofs. In case you require any further information/documentary proof in this regard during evaluation of our bid, we agree to furnish the same in time to your satisfaction.
- (iv) **CONTRACT PERFORMANCE SECURITY:** We hereby declare that in case the contract is awarded to us, we shall submit the performance Guarantee Bond in the form of Bank Guarantee for the amount mentioned at **clause No. 5 in ITB** of the total order value.
- (v) **PAYMENT TERMS:** We hereby declare that in case the contract is awarded to us, we agree with payment terms specified in the tender documents.
- (vi) **CERTIFICATE AND DECLARATION:**
  - a) I/We certify that no addition/modification/alteration has been made in the Original Tender Document. If at any stage addition /modification /alteration is noticed in the Original Document, I/We will abide by the terms and conditions contained in the original tender document, failing which MNNIT Allahabad reserves the right to reject the tender and/or cancel the contract
  - b) It has been certified that all information provided in tender form is true and correct to the best of my knowledge and belief. We hereby declare that our proposal is made in good faith, without collusion or fraud. No forged /tampered document(s) are produced with tender form for gaining unlawful advantage. We understand that MNNIT Allahabad is authorized to make enquiry to establish the facts claimed and obtained confidential reports from clients.
  - c) In case it is established that any information provided by us is false / misleading or in the circumstances where it is found that we have made any wrong claims. Further MNNIT Allahabad is also authorized to blacklist our firm/company/agency and debar us in participating in any tender/bid in future.
  - d) I / We assure the Institute that neither I /We, nor any of my /our workers, will do any act which is improper / illegal during the execution in case the tender is awarded to us.
  - e) I / We assure the Institute that I / We will NOT be outsourcing any work specified in the tender document, to any other firm.
  - f) Neither I / We, nor anybody on my /our behalf will indulge in any corrupt activities /practices in my /our dealing with the Institute.
  - g) Our Firm / Company / Agency is not been blacklisted or banned by any Govt. Department, PSU, University, Autonomous Institute or any other Govt. Organization.
  - h) I/We certify that, I have understood all the terms & conditions (GCC and ITB etc.), as indicated in enquiry of the tender document, and hereby accept all the same completely.
  - i) I/We, further certify that I/We, possess all the statutory /non-statutory registrations, permissions, approvals, etc., from the Competent Authority for providing the requisite services,
  - j) We understand that you are not bound to accept the lowest or any bid you may receive.
  - k) I/We hereby declare that this tender on acceptance communicated by you shall constitute a valid and binding contract between us.
  - l) I/We certify that the submitted quotation is duly paginated and contains from page no. 1 to .....

Date:

Signature and Seal of the Manufacturer/Bidder

Technical Compliance of Goods  
(ON THE LETTER HEAD OF THE BIDDER)

Sl. No.	Descriptions/Specification	Compliance (Yes/No)	Quoted Model
1.	<p><b><u>DUAL CORE IMAGE/VIDEO PROCESSING SETUP BASED ON LINUX:</u></b>            A set of Dual core Image and Video evaluation kit featuring dual core processor operating at 216 Mhz having 1 Video input port, supports composite or S Video, 128 Mbytes DDR2 DRAM, 2 Gbytes NAND Flash, UART, SD/MMC card interfaces, AIC33 Stereo codec, USB2 Interface, 10/100 Ethernet interface, IR Interface, SPI EEPROM, Real time clock via MSP430, 8 user LEDs, 4 position user DIP switch, 5 user push button switches, 14 pin JTAG emulation interface, 20 pin ARM JTAG emulation interface, JPEG and HD MPEG-4 SP production codec, Drivers for UART, I2C, SPI, EDMA, NAND,MMC, SD Card, USB Host/Gadget, U-boot loader also provided with a set of color camera and a TV tuner card. The entire system should be operated on Linux platform.</p> <p>A properly documented workbook featuring programs and codes for development of experiments like creating a negative, high pass filtering, changing the brightness and contrast of captures image, histogram of the captured image, compressing the image to 50% of its original size, zooming the capture image, creating a mirror image of the captured image, etc.</p>		
2.	<p><b><u>Computer Vision Experimentation setup:</u></b>            The board must have the following features on board:            The Computer Vision Experimentation setup based on Linux environment should contain 1 quantity of ARM Cortex A7 based DSP setup with camera. The setup contains board featuring 900MHz quad-core ARM Cortex-A7 CPU, On board 1 GB RAM, 4 USB ports, 40 GPIO pins, Full HDMI port, Ethernet port, Combined 3.5mm audio jack and composite video, Camera interface (CSI), Display interface (DSI), Micro SD card slot, Video Core IV 3D graphics core, The board should support Open CV library and experimentation based on Open CV should be provided and demonstrated. The board should be provided in a proper packing and necessary documents should be included.            The Computer Vision Experimentation setup based on Linux environment also contains 1 quantity of ARM Cortex A17 based DSP setup with camera. The setup includes a board featuring ARM Cortex A17 Quad Core CPU working up to 1.6Ghz, Power 5V/3A, RAM: 2GB, eMMC: 16GB, On board connector for uSD up to 128GB, 2.5" hard drive up to 4TB, USB: 1 x OTG, 3 x host, Ethernet: 1000M, Display: HDMI 2.0, eDP, LVDS, AV out, MIPI, Wireless: Bluetooth 4.0(BLE support), 802.11 a/b/g/n/c wifi, 3G, NFC, GPS, Audio: SPDIF, Headphone with line in, Mic, Misc: IR, debug UART, RTC, extension header: 50pin 2mm LVDS, 40pin 2.54mm for gpio, i2c, uart, spi, On board power management IC.</p>		
3.	<p><b><u>Digital Signal Processing kits based on DSP 2000:</u></b>            The board must have the following specification.            A set of three quantity each of Educational Practice Board for C2000 platform with a pluggable USB JTAG Emulator. Board contains C2000 Delfino series Digital Signal Controller operating at 150 Mhz, On chip 32-bit floating point unit, 68K bytes on-chip RAM, 512K bytes on-chip Flash memory, On board IEEE 1149.1 JTAG emulation connector with LED indication, 6 channel DMA controller (For ADC, McBSP, ePWM, XINTF, SARAM), on board memory includes 1M bytes (64kx16) off-chip SRAM memory, 256K I2C EEPROM interface, facility to flash the program using USB to be made available, On board USB Connector for UART-A interface, DB9 connector for UART-A interface, LED indication for Transmit and Receive data at UART-A, 3 pin header for UART-B interface, DB9 connector for CAN-A interface with onboard hardware Loop back mode feature, 4 pin header for CAN-B interface with onboard hardware Loop back mode feature, SPI and I2C devices, On board Power-On LED indication, Connector for Watchdog timer output, 20 Pin (10x2 header) Connector for 16 GPIO lines, DB25 Connector for 8 Digital Input and 8 Digital Output interface with +5V compatibility, Error + Trip +5V compatible connector for Inverter control module, LED at GPIO Pin as GPIO Test point, I2C based Off-Chip EEPROM interface, I2C based Off-Chip RTC interface, On board DB9 connector for 6 channel capture interface, DB25 connector for 12 channel PWM interface, Two DB15 connector having 16 channel 12 bit ADC (Sampling rate 12.5MSPS) with 3V input, protection using OpAmps with unity gain output, Potentiometer to test On-Chip ADC, DB9 connector for 4 channels on board SPI based DAC interface, Reset Switch with LED indication, Switch for Run/Program mode switching with LED indication, 4-way DIP Switch for 16 different boot mode selection, Input Voltage +9V DC, Test points for All the PWM, ADC and Power, Board to be supplied in a proper wooden box packing, A workbook featuring the case studies and working procedures on various on chip and off chip peripherals of Educational practice board for TMS320F28335. All the sample programs and codes for different peripherals to be provided along with the setup and demonstrated.</p> <p>Three quantity of USB JTAG Emulator having features like Supports Texas Instruments C2000 Digital Signal Processors with JTAG interface, It is compatible with Code Composer Studio™ development environment, Debug features (Emulation Connect/Disconnect, Read/Write memory, Read registers, Load program, Run, Halt, Step, Software and Hardware Breakpoint support, Real-Time Mode), Support for targets with 1.8v and 3.3v IO voltages, Support for USB High Speed (480 Mbit/s), Supports cable-break detection, Supports target power loss detection, Support for multiple FTDI devices, Adaptive clocking, LED light to indicate active USB connection, Compatible with CCSv5 only, The working of USB JTAG Emulator should be demonstrated with the above mentioned DSP kit</p>		

PRICE BID  
(ON THE LETTER HEAD OF THE BIDDER)

Sl. No.	Brief Description of the Goods	Quantity	Quoted Unit Rate in Rs	Total Amount (in Rs.)		Tax	
				In Figures	In Words	VAT	Any other charges (if any)
1.	Dual Core Image/Video Processing Setup Based On Linux	02 nos.					
2.	Computer Vision Experimentation setup	01 set					
3.	Digital Signal Processing kits based on DSP 2000	03 nos.					
(Detailed specifications of items in Sl. No. 1, 2 and 3 attached at <b>Annexure-B</b> )							

We agree to supply the above goods in accordance with the technical specifications for a total contract price of \_\_\_\_\_ within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of \_\_\_\_\_ months shall apply to the offered goods.

**Signature and Seal of the Manufacturer/Bidder**

ANNEXURE-D

PROFORMA FOR DIRECT PAYMENT/TRANSFER TO BANK ACCOUNT BY MNNIT ALLAHABAD

Sl. No.	Particulars	Information
1.	Firm [Beneficiary] Name	
2.	Code No. allotted by the MNNIT Allahabad [If code is not allotted yet, please enclose a cancelled cheque and copy of PAN card. Cancelled cheque & PAN card is to be submitted only once]	
3.	Complete Bank Account No. of the Firm [beneficiary]. [in case of change in bank account vendor should write to Account Office]	
4.	Bank Name	
5.	Branch Address	
6.	IFSC Code No.	
7.	Permanent Account Number	
8.	Mobile No. [for SMS]	
9.	Email ID [for information]	

We undertake that all information provided above is correct and MNNIT Allahabad will not be responsible in case of any error on the part of firm.

[Seal and Signature of the firm]