

JAI NARAIN VYAS UNIVERSITY, JODHPUR

NO. JNVU/FE/ECE/RUSA/2020/ 2785

DATE: 29th January 2020

NOTICE INVITING BIDS

Sealed bids are invited on or before 10th February till 12:30 noon from reputed firms for purchase of ARM Learning Setup etc (total cost about Rs. 3.07 Lakhs) under RUSA grant for the Electronics & Communication Engineering Department, J N Vyas University, Jodhpur as per terms & condition of the tender. Bids forms and other details can be downloaded from <http://sppp.rajasthan.gov.in>

1. Tender Fee :Rs. 500/- plus 18% GST (Total Rs. 590/-) to be paid by DD in favor of "Registrar, Jai Narain Vyas University, Jodhpur"
2. Estimated Cost of Supply :Rs. 3.07 Lakhs
3. Earnest Money Deposit :Rs. 6200/- (Six Thousand Two Hundred only) 2% of Tender Value in favor of "Registrar, Jai Narain Vyas University, Jodhpur".
4. Download period of Tender : upto 10th February 2020.
5. Last Date & Time of Submission of Tender : upto 10th February 2020, 12:30 noon **at office of the Head,** Department of Electronics & Communication Engg., J N Vyas University, Jodhpur
6. Tender Opening: 10th February 2020, 1:00 pm

Head
Dept. of Electronics & Comm Engg
JNVU, Jodhpur

Faculty of Engineering & Technology
JNVU, Jodhpur

For Advertisement in News Paper

Sealed bids are invited on or before 10th February till 12:30 noon from reputed firms vide tender notice No. **JNVU/FE/ECE/RUSA/2020/2785** dated **29/01/2020** for purchase of ARM Learning Setup etc (total cost about Rs. 3.07 Lakhs) under RUSA grant for the Electronics & Communication Engineering Department, J N Vyas University, Jodhpur as per terms & condition of the tender. Bids forms and other details can be downloaded from <http://sppp.rajasthan.gov.in>



2020
JNVU
Jodhpur

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
FACULTY OF ENGINEERING, M.B.M. ENGINEERING COLLEGE
J.N.V. UNIVERSITY, JODHPUR

LIST OF EQUIPMENTS TO BE PURCHASED UNDER RUSA-I phase Sanction (upto 15/03/2020)

S.No.	Name of Items	Specifications & features	Tentative Qty.
1	ARM-7 Embedded Learning Setup	<p>(i) The set up shall work using an All-in one Integrated Development Tool for 8/32 bit controllers for ARM7 and also for 8051/PIC/AVR. Such licensed software shall be supplied by the supplier and shall be installed on PC (minimum i3 processor) to be provided by the purchaser.</p> <p>(ii) Educational practice board for ARM7 with LPC2148 microcontroller, 60Mhz, 512kB on-chip flash memory, 32KB on-chip SRAM + 8KB RAM for USB, 9-volt only operation with supplied AC adapter. It shall have on board Power-On LED indication, Reset Switch with LED indication, Switch for Run/Program mode switching, Two 20 Pin (10x2 box header) Connector for total 32 GPIO lines, USB Connector for UART0 interface with LED indication, DB9 connector for UART0 interface, DPDT switch available for UART0 connector switching between USB and DB9 connector, USB for Flashing, 3 pin header for UART1 interface, MMC/SD card connector, 14 pin (7x2 header) connector for 12 channels On-Chip ADC interface, 3 pin header for 2 channel On-Chip ADC interface, connectors for I2C and SPI lines, JTAG emulation connector (10x2 pins), DAC, Capture Match and PWM lines. Test points for Power supply signals.</p> <p>(iii) LCD Matrix Keyboard interfacing kit featuring 5X5 Matrix Keyboard and a LCD on the board suitable for performing various experiments suitable for ARM7.</p> <p>(iv) A general purpose input-output board having on board 8 LEDs, 4 Switches to be interfaced with above Educational Practice Board for ARM7.</p> <p>(v) Lab workbook featuring case studies on various on chip and off chip peripherals with soft copies of the examples to be provided with their live demonstration while installation/training.</p> <p>(vi) any needed cables/connectors, support programming tools, compiler/assembler etc.</p> <p>(vii) Learning materials CD</p> <p>(viii) Two times training program support at site.</p>	2
2	ARM Cortex M3 Embedded Learning Setup	<p>(i) The set up shall work using an All-in one Integrated Development Tool for CortexM3 platform for common 8/32 bit controllers. Such licensed software shall be supplied by the supplier and shall be installed on PC (minimum i3 processor) to be provided by the purchaser.</p> <p>(ii) Practice Board for ARM Cortex M3 LPC1768 32 bit</p>	2

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		<p>microcontroller, 100 Mhz speed. On chip 32-bit floating point unit, 68 KB SRAM and 512 KB Flash memory. It shall have on board - 20 pin JTAG emulation connector, ISP using on chip Boot loader S/W, 256 Kbit serial I2C EEPROM interface, USB Connector for UART-0 interface for Debug Console, LED indication for USB connection for Debug Console, 3 pin header for UART-0 interface, DB9 connector for UART-1 interface with Tx Rx indication LED, USB Connector for USB host interface, DB9 connector for CAN interface, 256 Kbit serial I2C EEPROM interface, Serial I2C based Temperature sensor, Serial SPI based MMC card interface, Power-On LED indication, 20 Pin (10x2 box header) Connector for 16 GPIO lines, User LED at GPIO Pin as GPIO Test point, Buzzer at GPIO Pin as GPIO Test point, 34 pin TFT LCD interface connector, RJ45 connector for Ethernet interface, Temperature sensor with interrupt out facility, 2x5 Pin connector for 6 channel ADC interface, Potentiometer to test On-Chip ADC, Reset Switch with LED indication, Switch for Run/Program mode (Boot mode selection) with LED indication.</p> <p><i>(iii)</i> A pluggable all in one General Purpose board suitable for ARM Cortex M3 with on board 8 LEDs, 2 7-Segment display, 16x2 LCD, 4 switch, 2x2 matrix keyboard, Relay interface, Stepper motor interface, DC motor interface, 10x2 box header connector for easy interface with CPU target board.</p> <p><i>(iv)</i> Lab workbook featuring case studies on various on chip and off chip peripherals with soft copies of the examples to be provided with their live demonstration while installation/training.</p> <p><i>(v)</i> any needed cables/connector, support programming tools, compiler/assembler etc.</p> <p><i>(vi)</i> Learning materials CD</p> <p><i>(vii)</i> Two times training at site.</p>	
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Signature

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TERMS AND CONDITIONS OF TENDER:

- (1) The Bidder is required to give confirmation of their acceptance of Conditions of the TE mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Seller in the Contract) as selected by the Buyer. Failure to do so may result in rejection of Bid submitted by the Bidder.
- (2) Tenders must be submitted through e-tendering process in TWO bid format. Bidder has to submit the offers as per specification given separately.
- (3) The tenders shall be submitted in English/Hindi Language.
- (4) Validity of Bids: The Bids should remain valid till Six months from the last date of submission of the Bids.
- (5) Firms are required to furnish additional details like TIN number, VAT/CST number, Bank address with NEFT Account, etc.
- (6) Clarification regarding contents of the TE: A prospective bidder who requires clarification regarding the contents of the bidding documents shall notify to the Buyer in writing about the clarifications sought not later than ten days prior to the date of opening of the Tender opening.
- (7) Tender is liable to be ignored if complete information is not given therein or if the particulars and data (if any) asked for in the schedule to the tender, are not fully filled in. Special attention must be paid to the delivery dates.
- (8) Tenders or modifications to tenders received after opening of tenders are to be called as Late Tender and liable to reject.
- (9) The tender will be opened at the office of the purchaser at the date and time specified in Invitation of Tenders.
- (10) **Right of Acceptance of Offer:** The **purchaser reserves** his right to accept partly or reject any offer without assigning any reason thereof. The purchaser does not pledge itself to accept the lowest or any tender and reserves to itself the right of acceptance the whole or any part of the tender or portion of the quantity offered and the tenderer shall supply the same at the rate quoted. Tenderer is at liberty to tender for the whole or any portion or to state in the tender that the rate quoted shall apply only if the entire quantity is taken from him.
- (11) **EARNEST MONEY DEPOSIT:** EMD AMOUNT WILL BE ~~Rs. 100000~~ **OR 2% OF VALUE OF QUOTED ITEMS, WHICH EVER IS LESS FOR THE DEPARTMENT**, IN THE FORM OF DEMAND DRAFT / F.D. OF NATIONALIZED BANK IN FAVOUR OF REGISTRAR, J.N.V. UNIVERSITY, JODHPUR, PAYABLE AT JODHPUR. DOWNLOAD TENDERS SHOULD ACCOMPANY THE **TENDER FEE OF Rs. 500/-** (NON-REFUNDABLE) IN THE FORM OF DEMAND DRAFT IN FAVOUR OF REGISTRAR, J.N.V. UNIVERSITY, JODHPUR, PAYABLE AT JODHPUR. TECHNICAL BID RECEIVED WITHOUT EMD WILL BE SUMMARILY REJECTED WITHOUT EVALUATION.

Ans

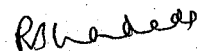
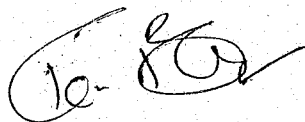
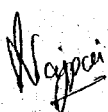
R. K. Sharma

R. K. Sharma

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SCOPE OF CONTRACT / SUPPLIES:

- (12) Incomplete quotations or quotations without essential accessories, toolings and fixtures in case of Tooled-up machines are liable to be ignored.
- (13) Equipment quoted should be complete in nature for specified working. Any accessories or component not specified in tender but necessary for complete working of quoted equipment will be considered as a part of tender specifications and will be included in scope of supplies.
- (14) Erection and commissioning of the equipment in all respect will be responsibility of supplier. Any civil work and other materials required for foundation and complete installation & commissioning of equipment supplied will be in scope of supply. All electrical cables, power point, MCB, plug points, etc. required for commissioning will be in scope of supplies. Electrical and power points and water connection point, if required, will be provided at one point within 5 meters of installation site. Supplier is to provide all connection, MCB, main-switch, cables, pipe-line, etc. from this point to equipment.
- (15) Detailed documentation and training of personnel, in operation and maintenance of the equipment will be supplier's responsibility.
- (16) Supply of equipment/s as specified with spares as desired. To fulfill the contract terms the vendor will have to subject the equipment to test and extend warranty/after sales service as specified.
- (17) To ensure completeness of the equipment the vendor shall include in his scope of supply all auxiliary items.
- (18) All above ground cables in the least shall be PVC insulated and PVC sheathed, all underground cabling shall be PC sheathed, single wire armoured and overall PVC sheathed. All control cables shall be of minimum 2.5 mm² section copper conductor. All power cables shall be suitable for 100% additional current over reputed cable manufactures rating recommendations at 40°C to compensate for de-rating due to various factors prevailing in site.
- (19) Delivery period quoted should be guaranteed
- (20) The Contractor shall provide packing and preservation of the equipment and spares/goods contracted so as to ensure their safety against damage in the conditions of land, sea and air transportation, transshipment, storage and weather hazards during transportation, subject to proper cargo handling. The Contractor must ensure that sturdy packing is used to withstand rough handling during transit by rail/road. The Contractor will be responsible for internal damages if any, when outwardly there is no damage to the package
- (21) Taxes and Duties:



- (a) If Bidder desires to ask for Goods and Service Tax GST (CGST/SGST/IGST) extra, the same must be specifically stated. In the absence of any such stipulation, it will be presumed that the prices include all such charges and no claim for the same will be entertained. (b) If reimbursement of any Duty/Tax is intended as extra over the quoted prices, the Bidder must specifically say so. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of such duty tax will be entertained after the opening of tenders. (c) If a Bidder chooses to quote a price inclusive of any duty / tax and does not confirm inclusive of such duty/tax so included is firm and final, he should clearly indicate the rate of such duty / tax and quantum of such offers summarily. (d) If a Bidder is exempted from payment of any duty/tax upto any value of supplies from them, he should clearly state that no such duty/tax will be charged by him upto the limit of exemption which he may have. If any concession is available in regard to rate/quantum of any Duty/tax, it should be brought out clearly. Stipulations like, the said duty/tax was presently not applicable but the same will be charged if it becomes leviable later on, will not be accepted unless in such cases it is clearly stated by a bidder that such duty/tax will not be charged by him even if the same becomes applicable later on. In respect of the Bidders, who fail to comply with this requirement, their quoted prices shall be loaded with the quantum of such duty/tax which is normally applicable on the item in question for the purpose of comparing their prices with other Bidders. (e) Any change in any duty/tax upward/downward as a result of any statutory variation in Excise/GST taking place within contract terms shall be allowed to the extent of actual quantum of such duty/tax paid by the supplier. Similarly, in case of downward revision in any duty / tax, the actual quantum of reduction of such duty/tax shall be reimbursed to the buyer by the Seller. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the Seller.
- (b) OCTROI DUTY & LOCAL TAXES: Bidder will clearly indicate, if applicable, if not indicated then it will be presumed that all are included in the cost price mentioned in the bid.

(22) **STANDARD TERMS OF PAYMENT:** 100% value of material plus 100% taxes, duties if any, will be paid after receipt of the material and its inspection and after complete satisfactory erection and commissioning as applicable.

(23) Guarantee:

The supplier shall guarantee among other things the following:

- (a) Satisfaction of technical and other parameters mentioned in the specification and contract.
- (b) Quality and strength of materials used in the manufacture of the equipment considering the applicable codes of practice and regulation.
- (c) Adequate factors of safety for all parts of the equipment to withstand the mechanical and / or electrical stresses developed therein under specific operating conditions.
- (d) Performance data furnished / specified for the equipment should be actually obtainable when the equipment is installed and tested at site.



25 **Warranty:-**

- (a) The supplier shall warranty that the equipment will be in accordance with the specification / contract suitable in design and workmanship for conditions envisaged in the specification.
- (b) The supplier shall warrant that the equipment will be free from defects in design, material or workmanship.
- (c) Supplier's obligations under the warranty, shall involve repair, rectification and making good at site the defect, imperfection or fault attributable to defective design, material or workmanship.
- (d) Inspection by purchaser's representatives at various stages would not relieve the supplier of his obligations under the warranty.
- (e) The contractor / seller hereby declares that the goods / store/ articles sold / supplied to the purchaser under this contract shall be of best quality and workmanship and new in all respects and shall be strictly in accordance with the specifications and particulars contained/ mentioned in the said contract. The goods/ stores/ articles would continue to conform to the description and quality aforesaid for a period of 12 months or for higher period as given by manufacturer from the date of final commissioning of the said goods/ stores/articles to the purchaser and that notwithstanding the fact that the purchaser (Inspector) may have inspected and/ or approved the said stores/ articles. If during the aforesaid period the said goods/ stores/ articles be discovered not conforming to the description and quality aforesaid or not satisfactory performing or have deteriorated, the decision of the purchaser in that regard shall be final and binding on the contractor/Seller. The purchaser shall be entitled to call upon the contractor/ seller to rectify the goods/ stores/ articles or such portion/ portions thereof as is found to be defective within the reasonable period or such specific period as may be allowed by the purchaser in his discretion on an application made thereon by the contractor/ seller and in such an event the above mentioned warranty period shall be applied to the goods/ stores/ articles rectified from the date of rectification thereof.

(26) **ENVIRONMENTAL/STATUTORY AND SITE CONDITIONS**
TROPICALISATION.

The equipment should be suitable for installation at a place where the climatic conditions change as follows: -

SUMMER WINTER MONSOON

MAX. TEMP. 50°C 24°C 40°C

MIN. TEMP. 30°C 0° C 25° C

R.HUMIDITY 18% 50% 98%

In addition to above, the atmosphere in summer is very dusty.

(27) **LIST OF DOCUMENTS TO BE SUPPLIED (as applicable):-**

1. Circuit diagrams for all P.C. Boards.
2. Components list/components specification.
3. Operation and Maintenance manuals (Mechanical, Electrical and Electronics).
4. Cable assembly details for all the cables including connector details.
5. Electrical wiring diagram.
6. Installation/commissioning procedures/documents.
7. Manufacturing drawing and material specification of all items.

(28) Training:

It will be necessary to impart training to six persons belonging to the Purchaser's organization in the disciplines of:-

- i. Operation and Maintenance
- ii. Programming and operation.

The vendor shall arrange this training at no additional charge.

(29) JURISDICTION:

All disputes arising out of this tender are subject to JODHPUR (Rajasthan) Courts jurisdiction only.

(30) Performance Bank Guarantee (PBG) as 10% of the cost of supplied items is to be deposited for one year.

Aggarwal

R Shrivastava

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JODHPUR