

INVITATION FOR QUOTATION

TEQIP-III/2018/geca/Shopping/2

16-Mar-2018

To,

Sub: Invitation for Quotations for supply of Goods

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

| Sr. No | Brief Description | Quantity | Delivery Period (In days) | Place of Delivery | Installation Requirement (if any) |
|--------|--|----------|---------------------------|--|--|
| 1 | DVD Player Demonstration kit | 1 | 45 | Govt. Engineering College, Ajmer NH-8, Barliya Circle, Ajmer, Rajasthan 305025 | On site installation and testing required (price included in quotation) |
| 2 | LCD TV Demonstration kit | 1 | 45 | | |
| 3 | LED TV Demonstration kit | 1 | 45 | | |
| 4 | Opto-Electronic devices Characteristics Trainer kit | 1 | 45 | | |
| 5 | PCB Fabrication setup | 1 | 45 | | |
| 6 | Public address System | 1 | 45 | | |
| 7 | Soldering desoldering station | 2 | 45 | | |
| 8 | Transistor radio AM kit | 1 | 45 | | |
| 9 | Transistor radio FM kit | 1 | 45 | | |

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. Quotation,
 - 3.1 The contract shall be for the full quantity as described above.
 - 3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
 - 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.
 - 3.4 Applicable taxes shall be quoted separately for all items.
 - 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - 3.6 The Prices should be quoted in Indian Rupees only.
4. Each bidder shall submit only one quotation.
5. Quotation shall remain valid for a period not less than **45** days after the last date of quotation submission.
6. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

 - 6.1 are properly signed ; and
 - 6.2 confirm to the terms and conditions, and specifications.
7. The Quotations would be evaluated for all items together.
8. 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.

 - 8.1 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.

8.2 The bidder whose bid is accepted will be notified of 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.

9. Payment shall be made in Indian Rupees as follows:

Delivery and Installation - 90% of total cost

Satisfactory Acceptance - 10% of total cost

10. All supplied items are under warranty of **12** months from the date of successful acceptance of items.

11. You are requested to provide your offer latest by **10:00** hours on **05-Apr-2018** .

12. Detailed specifications of the items are at Annexure I.

13. Training Clause (if any)

14. Testing/Installation Clause (if any) **On site installation and testing require price must be included in quotation**

15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.

16. Sealed quotation to be submitted/ delivered at the address mentioned below,
N.H.8 , BARLIYA CIRCLE, NEAR NARELI TEMPLE, AJMER

17. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

Annexure I

| Sr. No | Item Name | Specifications |
|---------------|------------------------------|--|
| 1 | DVD Player Demonstration kit | <p>Signal System : PAL/ NTSC</p> <p>Playable Discs formats : DVD-VIDEO; DVD+/-R/RW; Audio CD; CD-R/RW (All 8 cm/12 cm discs)</p> <p>File Compatibility : .avi/.mpg/.mpeg/.mp3/.wma/.jpg/.jpeg</p> <p>Sampling frequency : 8 to 48 KHz (MP3), 32 to 48 KHz (WMA)</p> <p>Bit Rate : 8 to 320 kbps (MP3), 32 to 190 kbps (WMA)</p> <p>LASER : Semiconductor LASER</p> <p>LASER Wave Length : 650/635 nm</p> <p>Modulation : EFM</p> <p>On-Screen Display : Title number, Chapter number, Playing time, Channel, Language, Subtitle, Angle</p> <p>Video Output : 1.0V (p-p), 75 ohm, Sync negative, RCA jack x 1</p> <p>Audio Output : 2.0Vrms (1 KHz, 0dB), 600 ohm RCA jack (L/R) x 1</p> <p>Panel Control : Power On/Off, Open/Close, Play/Pause</p> <p>Remote Control Battery : 1.5V, (R03, AAA size)</p> <p>USB Reader : 1 X USB 2.0</p> <p>Power Supply : AC 110-240V 50/60Hz</p> <p>Power Consumption : 11W</p> <p>Bus Power Supply (USB) : DC 5V, 500 mA</p> <p>Product Tutorials : Online (Theory, procedure, reference, results etc)</p> <p>Included Accessories : Mains Cord, Remote, Pencil Cell, A/V Cable, DVD</p> |
| 2 | LCD TV Demonstration kit | <p>Display Type : LCD, HD</p> <p>Screen Size : 21 Inch (53cm)</p> <p>Display Resolution : 1280(H) X 1024(V) pixels</p> <p>Contrast Ratio : Dynamic Contrast Ratio (1000:1)</p> <p>Brightness : 400 cd/m2 brightness</p> <p>Viewing Angle : 160(H) X 160(V)</p> <p>Refresh Rate : 60 Hz</p> <p>Video Interface : Video Input/ VGA input</p> <p>Audio Interface : RCA L & R</p> <p>Audio Output Power : 5W X 2</p> <p>Receiving System : PAL BG/I/DK and NTSC</p> <p>Channel Coverage : VHF-2-12; UHF21-69; CATV (X~Z+2, S11S41)</p> <p>Antenna Input Impedance : 75? unbalanced</p> |

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| | | Application : Color Television/ PC Monitor Connectivity USB : 1 X USB 2.0 (MPEG, JPEG, MP3) Other Connectivity : HDMI, RF In, AV In. VGA In, VGA Audio In Composite A/V Component Video Analog Audio Test Points : More than 40 Switched Faults : More than 40 Remote Battery : UM-4, "AAA" 1.5V (2 no.) Power Supply : AC 110~230V, 50Hz |
| 3 | LED TV Demonstration kit | Technical Specifications : <u>Display</u> Display Type : LED, HD Screen Size : 20 Inch (50cm) Display Resolution : 1600 X 900 pixels Display Color : 16.7 Million Display Colors Viewing Angle : 170(H) X 170(V) Refresh Rate : 50 Hz Video Interface : Video Input/ VGA input Audio Interface : RCA L & R Audio Output Power (RMS) : 8W X 2 Receiving System : PAL BG/I/DK and NTSC Channel Coverage : VHF-2-12; UHF21-69; CATV (X~Z+2, S11S41) Antenna Input Impedance : 75? unbalanced Application : Color Television/ PC Monitor <u>Connectivity</u> USB : 1 X USB 2.0 (MPEG, JPEG, MP3) Other Connectivity : HDMI, RF In, AV In. VGA In, VGA Audio In Composite A/V Component Video Analog Audio Test Points : More than 50 Switched Faults : More than 40 Remote Battery : UM-4, "AAA" 1.5V (2 no.) Power Supply : AC 110~230V, 50Hz |
| 4 | Opto-Electronic devices Characteristics Trainer kit | <u>Inbuilt Variable DC regulated power supply</u> Output Voltage : 0-3VDC On Board Digital Meters Voltmeter : 0-3VDC Ammeter : 0-50MicroADC/0-5mA (Dual Range). <u>Diode & Components Provided</u> Phototransistor |

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| | | <p>Photo diode LDR High quality Aluminum front panel mounted on light weight shock proof plastic cabinet Symbol diagram printed on Aluminum Front Panel all important test Points should be brought out on front panel Power requirement : 230 VAC 10%, 50Hz. Weight : 1.5 Kg Approx. Dimensions (mm) : 300(L) x 175(B) x 75(H)</p> |
| 5 | PCB Fabrication setup | <p>(1) PCB Curing machine (Oven)</p> <ul style="list-style-type: none"> • Tabletop unit for curing of liquid photoresist. • Timer controlled heating system for fast and efficient PCB curing. • PCB Size : 250mm x 300mm (10' x12"). • Heating : Heaters with thermostat controls • Timers : Preset timer • Electrical Power: 230V / 50Hz. 5A Socket <p>(2) PHOTO RESIST DIP COATING MACHINE</p> <ul style="list-style-type: none"> • The Machine should be table top and compact. • A single Operation unit for coating of laminates with Photoresist. • The machine ensures uniform controlled thickness of Photoresist on copper clad • Max Board size - 250mm x 300mm (10 x 12") • Rectangular Tank Capacity : 2 litres • Dips one PCB at a Time • Electrical Power: 230V/50Hz, 5A Socket <p>(3) DOUBLE SIDED U.V.EXPOSURE UNIT</p> <ul style="list-style-type: none"> • A tabletop double sided exposing unit for high resolution exposure of PCBs. • Maximum Size : 300mm x 255mm (12" x 10") • U.V. Tubes : 2 x 4 (10 Watts) actinic tubes with single/double side option • U.V. Tube Size : 12 " (300 mm) • Chokes : Electronic Type • Timer : 0 - 10 minutes • Electrical Power : 230 V –50Hz, 5A Socket <p>(4) PROTO-ETCH ETCHING MACHINE</p> <ul style="list-style-type: none"> • For fast single and double sided PCB etching • Useful etching area : 250mm x 300mm (10' x12"). • Tank Capacity : 20 Litres. Includes a heater and air flow compressor. All construction materials are corrosion free. • Heater : Titanium – non corrosive with thermostat control • Timer : 0 - 4.0 minutes |

- Electrical Power : 230V/50Hz, 5A Socket

(5) PCB DRILLING MACHINE

- A compact tabletop High speed PCB drilling machine with a Quick Change Chuck
- Drill holding by precision chuck with lapped jaws
- Mains operated DC motor – Direct drive (no belt and pulley)
- 3 Step Speed Control
- Illumination of Work Area
- Motor Speed : upto 20,000 R.P.M.
- Range : 0.6 to 3.0 mm
- Base : Metal
- Electrical Power: 230V/50Hz, 5A Socket

(6) PCB SHEARING MACHINE -

- Benchtop Guillotine type shearing machine to cut PCB's and Laminates.
- Compact structure with central handle allows ease of cutting.
- Width : 300mm (12 ")
- Size : 400mm X 350mm

(7) ROLLER TINNING MACHINE –

- A tabletop unit for Tin/Solder coating of PCB's.
- A hand operated flywheel for easy coating of boards.
- Maximum PCB Width : 250mm (10")
- Maximum PCB Thickness:6 mm
- Solder Bath Capacity : 5 Kgs.
- Heaters : 2 x 500 Watts
- Rollers : Silicon Coated
- Roller Revolution: Gear Flywheel Drive
- Bearings : Teflon
- Electrical Power : 230 V - 50Hz, 5A Socket

(8) MACHINE FOR DYE/DEVELOPER (2 in 1 Unit)

- Max. PCB Size: 250mm x 300mm (10" x 12")
- Tank Capacity: 2 Ltr. for Developer solution
2 Ltr. for Dye solution.
- Air pump: Diaphragm type compressor pump
- Mechanical Timer: 0-4 min. to operate air pump

(9) CHEMICALS FOR THE ABOVE MACHINES

I Board Preparation & Cleaning

- 1) Single Sided PCB Laminate Nos 10
- 2) Paper Phenolic 300x 300mm(1x1 feet)

II For Dark Room

- 1) Safe Lamp Unit 1
- 2) Lith Film 250 x 300mm(10 x 12") Nos 10

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| | | <p>3) Lith Film Developer A&B(5 Ltrs) Pkt 1 4) Lith Film Fixer Bottle 1 5) Developing Trays Nos 3</p> <p>III For Photoresist Dip Coating machine 1) Liquid Photoresist Litres 2 2) Photoresist Thinner Litre 1 3) Photoresist Developer Litre 5 4) Photoresist Dye Litre 5 5) Jars Nos 2</p> <p>IV For Etching Machine 1) Etching Crystals Kgs 10</p> <p>V For PCB Drilling Machine Drill Bits 1) 0.80mm Nos 50 2) 1.00mm Nos 50</p> <p>VI For Roller Tin Machine 1) Solder 63:37 Kgs 5 2) Roll Salt Kgs 2 3) Flow Coat Litres ½</p> <p>(10) PCB Design Facility (1) PCB Drafting Aids Kit Tapes, pad and other materials for making PCB Artworks for making PCBs. (2) ARTWORK TABLE (Illuminated) Tabletop artwork and PCB inspection table with bottom illumination and diffused light. Area for work: 20" X 24"</p> |
| 6 | Public address System | <p>Technical Specifications :</p> <ul style="list-style-type: none"> • Power Output : 100W RMS at 10% THD • Pre-amplifier Output : 200mV • Line output : 1V/ 1KΩ • Input Channels : Mic: 5nos; 0.65mV/ 4.7K • Aux : 2 nos; 50 mV & 150 mV/470K • Frequency Response : 65 Hz to 15 KHz +/- 3dB • Tone Controls : Bass, Treble, Master Control • Speaker Outputs : 4 , 8 , 16 , 70-100V Line Matching • Speakers : 2 nos • Microphones : 2 nos (Dynamic) • Mains Supply : 230V AC ± 10%, 50/60Hz • Included Accessories : Mains cord 1 no Microphone 2 nos Speaker 2 nos |
| 7 | Soldering desoldering station | <p>Technical Specifications:</p> <ul style="list-style-type: none"> • Soldering : Power consumption :60W Input Voltage :190 to 290 V AC |

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| | | <ul style="list-style-type: none"> • Temperature range :180 to 270 V (180 to 480°C) • Temperature stability :±10°C • Temperature accuracy :±1°C of tolerance at idling time • Tip to ground potential : under 2 mV • Tip to ground resistance :under 2Ω • Desoldering: <ul style="list-style-type: none"> Desold : 70 watts Input : 170 to 270 V (190 to 290V AC) Temperature range : 180 to 480°C Pump : diaphragm type Vacuum : 600 mm/Hg • For SMD Rework <ul style="list-style-type: none"> Power consumption : 270W Air pump : diaphragm pump Capacity : 24L/min Hot air temperature : 200 to 550°C Temperature accuracy : ±1°C |
| 8 | Transistor radio AM kit | <p>Construction : Superhetrodyne</p> <p>Frequency Range : 980 KHz to 2060 KHz</p> <p>Intermediate Frequency : 455 KHz</p> <p>Input Circuits : 1) RF Amplifier 2) Mixer 3) Local Oscillator 4) Beat Frequency Oscillator 5) IF Amplifier 1 6) IF Amplifier 2</p> <p>Tuning : With variable capacitor (ganged) Dial marking on board</p> <p>Receiving media : Telescopic antenna / Cable</p> <p>Detectors: 1) Diode detector (for DSB) 2) Product detector (for SSB)</p> <p>Audio Output : Amplifier with speaker</p> <p>Automatic Gain Control : Switchable</p> <p>Switched Faults : 8 nos.</p> <p>Interconnections : 2 mm Banana sockets</p> <p>Test points : 30 nos.</p> <p>Power Supply : 110-220 V AC ±10%, 50/60Hz</p> <p>Power Consumption : 3 VA approximately</p> <p>o Operating Conditions : 0-40 C, 80% RH</p> <p>Dimensions (mm) : W 326 × D 252 × H 52</p> <p>Weight : Less then 2.5Kg</p> <p>Product Tutorial : Online (Theory, procedure, reference results, etc).</p> <p>Accessories : Patch cord 16" : 2 nos.</p> |

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| | | Tech Book Power Supply, Mains cord, Earphone:1 no. |
| 9 | Transistor radio FM kit | <p>Audio Construction : Superheterodyne FM Frequency Band : 88 MHz to 108 MHz Tuning Range : 96 MHz to 120 MHz IF Frequency : 10.7 MHz Input Circuit : 1. RF amplifier 2. Mixer 3. Local oscillator 4. IF amplifier 1 5. IF amplifier 2 6. FM Detector 7. Automatic Frequency Control Audio Output : Amplifier with speaker Tuning : Variable capacitor (ganged) dial marking on board Receiving media : Telescopic antenna / RF cable Switched Faults : 12 Nos Test Points : 50 Nos Power Supply : 110-220 V AC \pm10%, 50/60Hz Power Consumption : 3VA (approximately) Interconnections : 12mm Banana sockets Operating Conditions : 0-40 C, 80% RH Dimensions (mm) : W 326 \times D 252 \times H 52 Weight : 3 Kg approximately Included Accessories : Patch Cord : 20 Nos Mains Cord : 1 No Earphone : 1 No Tech Book Power Supply : 1 No</p> |

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

| Sl. No. | Description of goods (with full Specifications) | Qty. | Unit | Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments) | Total Price (A) | Sales tax and other taxes payable | |
|-------------------|---|------|------|--|--------------------|-----------------------------------|-------------------|
| | | | | | | In % | In figures (B) |
| | | | | | | | |
| Total Cost | | | | | | | |

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of ————— months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____