



## ENQUIRY LETTER

GOVERNMENT POLYTECHNIC, PUNE.

University road, Pune-411016.

Phone: 020-25655907, 020-25676818 (Personal), Fax: 020-25656217.

Email: gppmain@dataone.in, gppune1@dataone.in Website: www.gppune.ac.in

## Re-Quotation.

Ref. No. GPP/Stores/WS/2018-19/355

Date: 18.01.2019

Tender Form Fee Rs.- NIL

### INVITATION OF QUOTATION

Sealed quotations are invited from eligible manufacturers/dealers/distributors for the supply of following equipment/machinery on the terms & conditions mentioned below.

Sr. No.	Name of the item with specifications	Quantity required	Total estimated cost
01	<b>Black smithy Hearth :-</b> Size 4feet x 4 feet with 1 H.P Single Phase motor & blower 15" round . Alongwith fire bricks with installatioin.	01	60000/-
02	<b>Belt &amp; Disk Sander:-</b> 2 H.P. Electric Motor , Size 6" x 48"	01	18000/-

#### TERMS AND CONDITONS

- 1) The quotation should be submitted in "Two-Bid" format.
- 2) The 'First Envelope' should contain the 'Technical-Bid' and should be super scribed as 'Envelope No.- 1-Technical Bid.' "Quotaion for the supply of Equipment" Ref No.- GPP/Stores/WS/2018-19/355 Dt.08.01.2019 , Due date 01/02/2019 up to 05:00 PM.  
**This envelope should contain the following documents. :**
  - a) Covering letter for submitting the documents on the letter head of the firm, mentioning postal address, contact No, Email address & website address (If available), With name, signature and seal of the firm.
  - b) Firm's registration certificate from any Government body.
  - c) GST registration certificate.
  - d) **Proof of payment of GST upto 31 July 2018.**
  - e) PAN card copy of the firm.
  - f) Original equipment manufacturer certificate if the bidder is manufacturer.
  - g) Authorization/Distributorship certificates from the original manufacturer, regarding support during bidding process & warranty period, if the bidder is not a manufacturer.
  - h) Technical literature/leaflet of the item regarding specifications make & model of the equipment.
  - i) Undertaking of the bidder for quality and aftersales service and support.
- 3) The 'Second envelope' should contain the 'Financial bid' of the item quoting the rates inclusive of all taxes and F.O.R. Destination in format as per the Annexure attached, on the letter pad of the firm. This envelope should be super scribed as 'Envelope No.-2-Financial bid'. "Quotaion for the supply of Equipment" Ref No.- GPP/Stores/WS/2018-19/355 Dt.18.01.2019 , Due date 01/02/2019 up to 05:00 PM.
- 4) The two envelopes should be sealed in a 'Third envelope' and should be super scribed as "Quotation for supply of equipment", Ref No.- GPP/Stores/WS/2018-19/ 355 Dt.18.1.2019 , Due date 01/02/2019 up to 05:00 PM.
- 5) **The last date of submission of bid is 01/02/2019 5:00 PM and date of opening the technical bid is 02/02/2019 11:00 AM.**
- 6) Financial bids of only technically qualified bidders will be opened.
- 7) The bid should be inclusive of all taxes, cartage, packing, installation, commissioning, training & warranty.



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- 8) The rates quoted should be valid for 180 days from the last date of submission of offer.
- 9) The delivery of the stores should be made within 4 weeks from the date of supply order. Otherwise the order will be cancelled.
- 10) The payment will be made only after delivery, successful installation, commissioning & training of the stores at this institute. No advance payment will be made before the delivery of the stores.
- 11) The payment will be made by RTGS/NEFT/ECS.
- 12) This institute may call additional documents and/or information required for processing the bid.
- 13) This institute reserves the right to reject any or all bids without assigning any reason thereof.
- 14) If the stores is rejected, the supplier will have to replace and take back the defective stores his own risk and cost.
- 15) E-mail quotations will not be accepted.

*ialmond*

Principal

Govt. Polytechnic, Pune

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1. Director of Technical Education M.S. Mumbai (Desk No.3). It is requested to Publish the enquiry on websit.
2. Join Director RO, Pune. It is requested to Publish the enquiry on websit.
3. The Head of concerned Department for information.
4. The Head of Computer Department, for Publishing on the Institute's website in time limit.
5. Main Notice Board, G.P.Pune.





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### Annexure

[To be submitted by Bidder on Letterhead of the firm]

Ref No.:-

Date:

To,

The Principal  
Government Polytechnic,  
Shivaji Nagar, University Road,  
Pune – 411016

**Sub:** Quotation for Supply of Equipment.

Ref. No.: GPP/Stores/WS/2018-19/355 Date: 18.1.2019

Sir,

I/We submit our most competitive offer in response to your quotation enquiry as referred above in accordance with the conditions of the contract. Our quotation is given below.

Sr. No.	Description of Item	Qty.	All Inclusive Cost per Unit (Rs.)	All Inclusive Total Cost (Rs.)
01	<b>Black smithy Hearth</b> :- Size 4feet x 4 feet with 1 H.P Single Phase motor & blower 15" round . Alongwith fire bricks, with installation.	01		
02	<b>Belt &amp; Disk Sander</b> :- 2 H.P. Electric Motor, Size 6" x 48"	01		

We hereby confirm that this quotation is valid for 180 days as required in clause 8 of the terms & condition of the bid.

Yours faithfully,  
Authorized Signature  
Name & Title of Signatory:  
Name of Bidder/Office Stamp:  
Address:

3/24



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### Re-Quotation.

Ref. No. GPP/Stores/DDGM/2018-19/356

Date: 18.1.2019

**Tender Form Fee Rs.- NIL**

### INVITATION OF Re-QUOTATION

Sealed Re- quotations are invited from eligible manufacturers/dealers/distributors for the supply of following equipment/machinery on the terms & conditions mentioned below.

Sr. No.	Name of the item with specifications	Quantity required	Total estimated cost
01	Female Mannequins	04	14000/-
02	Flat lock Sewing Machine	02	64000/-
03	Female dress form	10	35000/-
04	Vaccum Ironing Table	01	30000/-

### TERMS AND CONDITONS

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- 3) The '**Second envelope**' should contain the '**Financial bid**' of the item quoting the rates inclusive of all taxes and F.O.R. Destination in format as per the Annexure attached, on the letter pad of the firm. This

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Ref. No.: GPP/Stores/DDGM/2018-19/356 Date: 18.1.2019

Sir,

I/We submit our most competitive offer in response to your quotaion enquiry as referred above in accordance with the conditions of the contract. Our quotation is given below.

Sr. No.	Description of Item	Qty.	All Inclusive Cost per Unit (Rs.)	All Inclusive Total Cost (Rs.)
01	<b>Female Mannequins</b> :- Fiber Realistic Glossy Female Mannequins with sclpted hair and easy to dismental.Made in compliance with industry standard.	04		
02	<b>Flat lock Sewing Machine</b> :- Flat lock sewing machine L J-62000,High Speed off the arm machine for flat seaming(Oil Free)Dimension-17 in(L)x12 in (W)x17 in (H) Weight:50 lb (Machine Head only),Stitch type-ISO 406,605,608,Sewing Speed-3800rpm-3000rpm ,Knives of cutting both upper and lower knives are made of steel.	02		
03	<b>Female dress form</b> :- Half white Female dress form - Natural body with very strong pinnable material.Pinnable dress form with collapsible shoulder with flat hip.With flange at right and left sides of body.With bump out side seams to enable you feel them	10		

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	when draping with fabric.Heavy duty traditional cast iron base with 4 wheels.Easily adjust the height by stepping on afoot pedal.Size 8(Quantity 5) ,Size-10(Quantity 5)			
04	<b>Vaccum Ironing Table:-</b> Vacuum Ironing Table RV 4425-80 Flat top Ironing Table with optional swivel arm with buck for ironing of small parts. Working Size 1300*800 mm, Depth-800mm, working area height 800mm,Vaccum motor 0.75(hp).	01		

We hereby confirm that this quotation is valid for 180 days as required in clause 8 of the terms & condition of the bid.

Yours faithfully,

Authorized Signature

Name & Title of Signatory:

Name of Bidder/Office Stamp:

Address:





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## Re-Quotation.

Ref. No. GPP/Stores/IT/2018-19/357

Date:18.01.2019

**Tender Form Fee Rs.- NIL**

## INVITATION OF QUOTATION

Sealed quotations are invited from eligible manufacturers/dealers/distributors for the supply of following equipment/machinery on the terms & conditions mentioned below.

Sr. No.	Name of the item with specifications	Quantity required	Total estimated cost
01	CCTV Surveillance System with 8CCTV camera	01	80000/-
02	Macromedia Flash 8	01	70000/-
03	Oracle 11i	05	50000/-

## TERMS AND CONDITONS

- 1) The quotation should be submitted in "Two-Bid" format.
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6) Financial bids of only technically qualified bidders will be opened.

7) The bid should be inclusive of all taxes, cartage, packing, installation, commissioning, training & warranty.

8) The rates quoted should be valid for 180 days from the last date of submission of offer.

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Ref. No.: GPP/Stores/IT/2018-19/357 Date: 18.1.2019

Sir,

I/We submit our most competitive offer in response to your quotaion enquiry as referred above in accordance with the conditions of the contract. Our quotation is given below.

Sr. No.	Description of Item	Qty.	All Inclusive Cost per Unit (Rs.)	All Inclusive Total Cost (Rs.)
01	<b>CCTV Surveillance System with 8CCTV camera:-</b> General Analog Video Input Ports 8 Digital Alarm Inputs 8 (maximum voltage 12V; maximum sync 100mA) Digital Alarm Outputs 8 Security Password-protected administrative interface; HTTPS access to the administrative interface Certifications/Ratings/Patents CE, FCC Class B, C-Tick UL/cUL listed Electrical Port RJ-45 connector for 100/1000 BASE-TX Auto MDI/MDI-X Cable Type Cat5 or better Power Input 12 VDC/24 VAC (power supply included) Power Consumption 24W (max) Environmental Operational Temperature 50° to 122°F (10° to 50°C)  Operational Humidity 20% to 80%, noncondensing	01		

10/24





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02	<b>Macromedia Flash 8:-</b> Photoshop, Flash Player, Dreamviewer General Localization English Category creativity application Subcategory creativity - web design / publishing Package Type retail Distribution Media CD-ROM Version 8 Manufacturer Adobe	01		
03	<b>Oracle 11i:-</b> Oracle Database 11g continues to lower costs and deliver a higher quality of service by: clustering and consolidating enterprise application databases onto fast, reliable and scalable private clouds, maximizing availability and eliminating idle data center redundancy, accelerating performance by compressing data onto low-cost storage partitions, securely protecting information and enabling compliance, and doubling DBA productivity and reducing the risk of change.	05		

We hereby confirm that this quotation is valid for 180 days as required in clause 8 of the terms & condition of the bid.

Yours faithfully,

Authorized Signature

Name & Title of Signatory:

Name of Bidder/Office Stamp:

Address:



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Ref. No. GPP/Stores/Elect/2018-19/358

Date:

### Re-Quotation.

**Tender Form Fee Rs.- NIL**

### INVITATION OF QUOTATION

Sealed quotations are invited from eligible manufacturers/dealers/distributors for the supply of following equipment/machinery on the terms & conditions mentioned below.

Sr. No.	Name of the item with specifications	Quantity required	Total estimated cost
01	<b>Kit of Study and observation of output waveform of different triggering circuit , UJT triggering, R - triggering , RC triggering:-</b> Different triggering circuit , UJT triggering with pluse transformer , R -triggering , RC triggering . Separate points for observations of waveforms. Complete with working manual &necessary patch cords.	01	11 000/-

### TERMS AND CONDITONS

- 1) The quotation should be submitted in "Two-Bid" format.
- 2) The 'First Envelope' should contain the 'Technical-Bid' and should be super scribed as 'Envelope No.-1-Technical Bid.' "Quotaion for the supply of Equipment" Ref No.- GPP/Stores/Elect/2018-19/358 Dt. 18.01.2019 , Due date 01/02/2019 up to 05:00 PM.  
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Sr. No.	Description of Item	Qty.	All Inclusive Cost per Unit (Rs.)	All Inclusive Total Cost (Rs.)
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Authorized Signature

Name & Title of Signatory:

14/24





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Date: 18.01.2019

**Tender Form Fee Rs.- NIL**

## INVITATION OF QUOTATION

Sealed quotations are invited from eligible manufacturers/dealers/distributors for the supply of following equipment/machinery on the terms & conditions mentioned below.

Sr. No.	Name of the item with specifications	Quantity required	Total estimated cost
01	<b>Mortar Cube Moulds</b> :- Size 70.7 mm X 70.7 mm X 70.7 mm	03	24000/-
02	<b>Pycnometer ( PY - 01)</b> : Comprises a 1 kg glass jar with brass cone, locking ring and rubber seal.	02	1600/-
03	<b>Combined Inclined Plane And Friction Slide Apparatus</b> (without Trolley & Weights )	02	5800/-

## TERMS AND CONDITONS

- 1) The quotation should be submitted in "Two-Bid" format.
- 2) The 'First Envelope' should contain the 'Technical-Bid' and should be super scribed as '**Envelope No.- 1-Technical Bid.**' "Quotaion for the supply of Equipment" Ref No.- GPP/Stores/APM/2018-19/359 Dt. 18.1.2019 , Due date 01/02/2019 up to 05:00 PM.  
**This envelope should contain the following documents. :**
  - a) Covering letter for submitting the documents on the letter head of the firm, mentioning postal address, contact No, Email address & website address (If available), With name, signature and seal of the firm.
  - b) Firm's registration certificate from any Government body.
  - c) GST registration certificate.
  - d) **Proof of payment of GST upto 31 July 2018.**
  - e) PAN card copy of the firm.
  - f) Original equipment manufacturer certificate if the bidder is manufacturer.
  - g) Authorization/Distributorship certificates from the original manufacturer, regarding support during bidding process & warranty period, if the bidder is not a manufacturer.
  - h) Technical literature/leaflet of the item regarding specifications make & model of the equipment.
  - i) Undertaking of the bidder for quality and aftersales service and support.
- 3) The '**Second envelope**' should contain the '**Financial bid**' of the item quoting the rates inclusive of all taxes and F.O.R. Destination in format as per the Annexure attached, on the letter pad of the firm. This

15/24



## ENQUIRY LETTER

GOVERNMENT POLYTECHNIC, PUNE.

University road, Pune-411016.

Phone: 020-25655907, 020-25676818 (Personal), Fax: 020-25656217.

Email: [gppmain@dataone.in](mailto:gppmain@dataone.in), [gppune1@dataone.in](mailto:gppune1@dataone.in) Website: [www.gppune.ac.in](http://www.gppune.ac.in)

envelope should be super scribed as 'Envelope No.-2-Financial bid'. "Quotaion for the supply of Equipment" Ref No.- GPP/Stores/APM/2018-19/359 Dt.18.1.2019 , Due date 01/02/2019 up to 05:00 PM.

4) The two envelopes should be sealed in a 'Third envelope' and should be super scribed as "Quotation for supply of equipment", Ref No.- GPP/Stores/APM/2018-19/ 359 Dt. 18.1.2019 , Due date 01/02/2019 up to 05:00 PM.

5) **The last date of submission of bid is 01/02/2019 5:00 PM and date of opening the technical bid is 02/02/2019 11:00 AM.**

6) Financial bids of only technically qualified bidders will be opened.

7) The bid should be inclusive of all taxes, cartage, packing, installation, commissioning, training & warranty.

8) The rates quoted should be valid for 180 days from the last date of submission of offer.

9) The delivery of the stores should be made within 4 weeks from the date of supply order. Otherwise the order will be cancelled.

10) The payment will be made only after delivery, successful installation, commissioning & training of the stores at this institute No advance payment will be made before the delivery of the stores.

11) The payment will be made by RTGS/NEFT/ECS.

12) This institute may call additional documents and/or information required for processing the bid.

13) This institute reserves the right to reject any or all bids without assigning any reason thereof.

14) If the stores is rejected, the supplier will have to replace and take back the defective stores his own risk and cost.

15) E-mail quotations will not be accepted.

Principal

Govt. Polytechnic, Pune

### Copy to by email –

1. Director of Technical Education M.S. Mumbai (Desk No.3). It is requested to Publish the enquiry on websit.
2. Join Director RO, Pune. It is requested to Publish the enquiry on websit.
3. The Head of concerned Department for information.
4. The Head of Computer Department, for Publishing on the Institute's website in time limit.
5. Main Notice Board, G.P.Pune.





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### Annexure

[To be submitted by Bidder on Letterhead of the firm]

Ref No.:-

Date:

To,

The Principal  
Government Polytechnic,  
Shivaji Nagar, University Road,  
Pune – 411016

**Sub:** Quotation for Supply of Equipment.

Ref. No.: GPP/Stores/APM/2018-19/ 359 Date: 18.01.2019

Sir,

I/We submit our most competitive offer in response to your quotaion enquiry as referred above in accordance with the conditions of the contract. Our quotation is given below.

Sr. No.	Description of Item	Qty.	All Inclusive Cost per Unit(Rs.)	All Inclusive Total Cost (Rs.)
01	<b>Mortar Cube Moulds :-</b> Size 70.7 mm X 70.7 mm X 70.7 mm	03		
02	<b>Pycnometer ( PY - 01) :</b> Comprises a 1 kg glass jar with brass cone, locking ring and rubber seal.	02		
03	<b>Combined Inclined Plane</b> And Friction Slide Apparatus (without Trolley & Weights )	02		

We hereby confirm that this quotation is valid for 180 days as required in clause 8 of the terms & condition of the bid.

Yours faithfully,  
Authorized Signature  
Name & Title of Signatory:  
Name of Bidder/Office Stamp:

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Email: gppmain@dataone.in, gppune1@dataone.in Website: www.gppune.ac.in

## Re-Quotation

Ref. No. GPP/Stores/E&TC/2018-19/360

Date:-18.01.2019

**Tender Form Fee Rs.- NIL**

## INVITATION OF QUOTATION

Sealed quotations are invited from eligible manufacturers/dealers/distributors for the supply of following equipment/machinery on the terms & conditions mentioned below.

Sr. No.	Name of the item with specifications	Quantity required	Total estimated cost
01	Colour TV Trainer	01	50000/-
02	89C52/89V51 Microcontroller Trainer Kit	01	60000/-
03	Temperature P,PI,PID controller	01	45000/-
04	Understanding Local Area Network (LAN) module	01	75000/-

## TERMS AND CONDITONS

- 1) The quotation should be submitted in "Two-Bid" format.
- 2) The 'First Envelope' should contain the 'Technical-Bid' and should be super scribed as '**Envelope No.-1-Technical Bid.**' "Quotaion for the supply of Equipment" Ref No.- GPP/Stores/E&TC/2018-19/360 Dt. 18.1.2019 , Due date 01/02/2019 up to 05:00 PM.  
**This envelope should contain the following documents. :**
  - a) Covering letter for submitting the documents on the letter head of the firm, mentioning postal address, contact No, Email address & website address (If available), With name, signature and seal of the firm.
  - b) Firm's registration certificate from any Government body.
  - c) GST registration certificate.
  - d) **Proof of payment of GST upto 31 July 2018.**
  - e) PAN card copy of the firm.
  - f) Original equipment manufacturer certificate if the bidder is manufacturer.
  - g) Authorization/Distributorship certificates from the original manufacturer, regarding support during bidding process & warranty period, if the bidder is not a manufacturer.
  - h) Technical literature/leaflet of the item regarding specifications make & model of the equipment.
  - i) Undertaking of the bidder for quality and aftersales service and support.
- 3) The '**Second envelope**' should contain the '**Financial bid**' of the item quoting the rates inclusive of all taxes and F.O.R. Destination in format as per the Annexure attached, on the letter pad of the firm. This envelope should be super scribed as 'Envelope No.-2-Financial bid'. "Quotaion for the supply of Equipment" Ref No.- GPP/Stores/E&TC/2018-19/360 Dt. 18.1.2019 , Due date 01/02/2019 up to 05:00 PM.

18/24





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- 4) The two envelopes should be sealed in a 'Third envelope' and should be super scribed as "Quotat ion for supply of equipment", Ref No.- GPP/Stores/E&TC/2018-19/360 Dt. 18.1.2019 , Due date 01/02/2019 up to 05:00 PM.
- 5) **The last date of submission of bid is 01/02/2019 5:00 PM and date of opening the technical bid is 02/01/2019 11:00 AM.**
- 6) Financial bids of only technically qualified bidders will be opened.
- 7) The bid should be inclusive of all taxes, cartage, packing, installation, commissioning, training & warranty.
- 8) The rates quoted should be valid for 180 days from the last date of submission of offer.
- 9) The delivery of the stores should be made within 4 weeks from the date of supply order. Otherwise the order will be cancelled.
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- 13) This institute reserves the right to reject any or all bids without assigning any reason thereof.
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Principal

Govt. Polytechnic, Pune

- Copy to by email** –1. Director of Technical Education M.S. Mumbai (Desk No.11). It is requested to Publish the enquiry on websit.
2. Join Director RO, Pune. It is requested to Publish the enquiry on websit.
  3. The Head of concerned Department for information.
  4. The Head of Computer Department, for Publishing on the Institute's website in time limit.
  5. Main Notice Board, G.P.Pune.

19/24



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### Annexure

**[To be submitted by Bidder on Letterhead of the firm]**

**Ref No.:-**

**Date:**

To,

The Principal  
Government Polytechnic,  
Shivaji Nagar, University Road,  
Pune – 411016

**Sub:** Quotation for Supply of Equipment.

Ref. No.: GPP/Stores/E&TC/2018-19/360 Date: 18.01.2019

Sir,

I/We submit our most competitive offer in response to your quotaion enquiry as referred above in accordance with the conditions of the contract. Our quotation is given below.

Sr. No.	Description of Item	Qty.	All Inclusive Cost per Unit (Rs.)	All Inclusive Total Cost (Rs.)
01	<b>Colour TV Trainer :-</b> 1.1 It is to be Ideal training equipment to teach the operation of a LED Colour TV Receiver 1.2 The complete Colour TV Trainer should be incorporated on a single panel 1.3 Superior quality LED Color TV with Remote Control 1.4 Ease in visual observation & identification of the electronic circuit and mechanical parts 1.5 A multi-coloured layout should be provided on the panel and includes various TV sections, TV screen Section, Faults & Test Points Section, Speakers and block diagram 1.6 Should have facilities for measurement of voltages and observation of waveforms on test points 1.7 Soldering free, non-destructive Fault Simulation should be provided by switches to simulate faults 1.8 The Trainer should works as normal fully functional TV when controls are normal 1.9 Remote Control (Tx) with batteries to be provided in actual form <b>2. TECHNICAL SPECIFICATIONS:</b> 2.1 Type: TFT HD LED Colour TV Receiver 2.2 Size - diagonal: 19" 2.3 Display Resolution : 1920 x 1080 Full HD	01		

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	<p>2.4 Receiving System: PAL          2.5 Tuner Channel: 1 – 199          2.6 Input (Interfaces): Antenna, VGA, Audio in, HDMI, USB          2.7 Audio Output: Stereo (5W x 2)          2.8 Speaker Type: Down Firing + Full Range          2.9 Faults: Ten Faults (minimum) Soldering free, non-destructive Faults should be provided          2.10 Test Points: 15 Test points (minimum) Provided for measurement / observation of voltages / waveforms          2.11 Model with trainer in vertical mode with stand to be kept on table for proper height during experimentation and structure should be mounted on 20mm aluminum profile plate strictly.          C. STANDARD ACCESSORIES:          1. Fully Functional Remote Control          2. Batteries (for Remote Control)</p>			
02	<p><b>89C52/89V51 Microcontroller Trainer Kit:-</b>          This system should consist of 89C52 microcontroller based system with following specifications          Monitor Software: 16KB of system memory, which allows the user to enter, verify, debug or execute the program from the on-board PC keyboard and display or through serial mode. Online assemble and disassemble should be required on the all modes of operation.          Mode of operation:- PC Mode with USB interface facility for PC interfacing. Student can write the programs with help of on line assembler on board and using Cross-c compiler and download it on the memory for execution on embedded daughter board.          For on line checking applications, following application modules should be required on board interfacing facility          1. Inputs: 8 inputs using 8-way four DIP switches with LED indications and outputs are available on          10 PIN FRC convenient to make the connections with LED indications.          2. Display: 16x2 Alpha-Numeric LCD display with back-light and Six-digit 7-segment displays connected through 10 PIN FRC connector to CPU board.          3. Keypad: 4x4 key matrix.          4. Relay: 02 nos SPDT relay.          5. TRF-PIO: Traffic Light Simulator with 12 LED's in three colour (Green, Yellow and Red).          6. ADC_PIO: AD809 8-bit ADC with one potentiometer and Led indications.          7. DAC-PIO: DAC-0808 8-bit DAC for square, triangular, Ramp and Sine wave generation.          8. ADC-12: 12-bit ADC AD547 with one potentiometer and Led indications (Optional).          9. DAC-12: 12-bit DAC DA7541 DAC for square, triangular, Ramp and Sine wave generation (Optional).</p>	01		

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10. Elev-PIO: Four level Elevator with up/down facility.

11. DCM-PIO: 12V operated DC MOTOR INTERFACE UNIT with PWM control method.

12. STP-PIO: 12V, 2Kg stepper motor with drive board, Step indications on the board and inputs switches for applying the inputs.

13. Robot Project module:-The application module should consists of a mobile robotic kit integrated sensors such as white line sensors, infrared proximity sensors, Pick & place etc LED indicators – separate for each sensor, separate for each motor for forward / reverse direction, separate blinking LED for movement indication, buzzer for halt condition indication and actuators such as DC motors in differential drive & motor driver and should support various experiments given in the manual, such as :

1. Motor Control using Digital combinational Circuits.
2. White line following using Digital combinational Circuits.
3. Wall Hugging (following) using Digital combinational circuits.
4. Obstacle avoidance using ultrasonic sensors using Digital combinational circuits.

16. Power supply: inputs-230V,Outputs: -+/-5V, +/-12V@1A.

17. Cross-C- Compiler and debugger: - :- Powerful 01- users Kiel -C –compiler or equivalent for 8051 core microcontrollers.

It should offer the most advanced IDE in the market as well as plenty of practical examples and a comprehensive documentation, allowing a quick and easy programming.

Advanced code assistant: Hit CTRL + SPACE to get the list of all available variables, constants, and routines which one can insert at cursor position. Parameter assistant for routines: There should be no need to memorize all the procedure parameters, just to follow the parameters request. Hit CTRL + SHIFT + SPACE to activate the Parameter Assistant. It should be as simple as that Debugger with many advanced options: Easily monitor variables and registers while simulating the program.

Detailed statistics:Execution time, routine start address, nesting, memory charts, and other invaluable information.

Built-in routines: This tiny code sample should read ADC channel 2 and display the result in second line of LCD, with 1 sec delay afterwards. Code explorer is provided for user. The details for codes which are available for user as follows:-

- a) Code Editor:-It has highly adaptable Code Editor, fashioned to satisfy needs of both novice users and experienced programmers. With Editor's advanced features, developing your application becomes easy and comfortable.
- b)Code Assistant:-Code Assistant is a valuable tool, saving you time in code writing. If you type first few letters of a word and press CTRL+SPACE, all valid identifiers matching the letters you typed will be prompted in a floating panel





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<p>(see the image). Now you can keep typing to narrow the choice, or you can select an item from the list.</p> <p>c) Parameter Assistant:-Parameter Assistant feature is invoked whenever you open a parenthesis "(" or press CTRL+SHIFT+SPACE. If you have typed a name of valid function or procedure, the expected parameters will be prompted in a floating panel. As you type the actual parameter, next expected parameter becomes highlighted.</p> <p>d) Auto Correct:-Auto Correct feature automatically corrects your common typing mistakes. You can add your own preferences to the list of recognized typos.</p> <p>e) Syntax Highlighting:-You can configure Editor colours and syntax highlighting to best suit your needs - from background color to specific keywords.</p> <p>f) Enhanced Undo/Redo Option:-Code Editor lets you perform Undo/Redo option up to 1024 times, making debugging less tiresome task.</p> <p>g) Print and Print Preview:-Code Editor has an option of printing the active window in case you need your program code in paper. Print Preview feature lets you arrange layout of the page before printing.</p> <p>h) Software Simulator:-The Source-level Software Simulator is an integral component of the compiler for 8051 environment. It is designed to simulate operations of the 8051 MCUs and assist the users in debugging C code written for these devices.</p> <p>i) Breakpoints:-You can manage breakpoints from the Breakpoints dialog. Double clicking an item jumps to the appropriate breakpoint line in the code.</p> <p>j) Watch Window:-The Software Simulator Watch Window is the main Software Simulator window which allows you to monitor program items while simulating your program.</p> <p>k) Statistics:-After successful compiling, you can review detailed statistics on your code. There are five tab windows: provides overview of RAM and ROM memory usage in form of histogram.</p> <p>l) Implemented Tools:-It is very useful for 8051 includes a number of useful implemented tools to help you develop your application more quickly and comfortably.</p>			
<p>03 <b>Temperature P,PI,PID controller :-</b> Temperature controller with facilities for P, I, D and relay control blocks ,Operating temperature: Ambient to 90°C ,Separate controls for P, I, D channel gains , ,Fast 5W oven fitted with IC temperature sensor ,Forced cooling option to ready the oven for next experiment ,Digital display of set and measured temperature on a 3½ digit built-in DVM ,IC regulation in controller circuit power supplies ,220V±10%, 50Hz mains operation ,Supporting literature and patch cords included ,No accessories required .</p>	01		
<p>04 <b>Understanding Local Area Network (LAN) module :-</b>  <b>Hardware</b>  <b>Topology</b>          i) Star ii) Bus iii) Ring          • Nodes: 4 Nodes.          • Data Rate: Data Rate</p>	01		



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<ul style="list-style-type: none"> <li>• Interconnection : RJ45 connection cable to connect hardware to computer LAN card</li> <li>Software</li> <li>Topology selection</li> <li>i) Star ii) Bus iii) Ring</li> <li>Protocol selection i) Stop and Wait ii) Go back to n</li> <li>iii) Selective repeat iv) Sliding window</li> <li>v) Token Ring vi) Token Bus</li> <li>vii) CSMA / CD viii) CSMA / CA</li> <li>• Packet Size: 128, 256, 512, 1024, 2048, 4096, 8192, 16384</li> <li>• Inter packet delay: 1000,2000,3000, 4000,5000ms</li> <li>• Error generation: Bad packet, acknowledgment lost and auto error generation</li> <li>• Encryption and decryption of data</li> <li><b>Network details</b></li> <li>• Indication of computer name, IP address, Port number, status of network, MAC address and operating system on computer.</li> <li><b>SPECIFICATIONS</b></li> <li>• 8x 10x100 Mbps RJ-45 Nway ports</li> <li>• Complies with IEEE802.3 and IEEE802.3x standards</li> <li>• Supports MDI/MDI-x auto crossover</li> <li>• Up to 200 Mbps data transfer rates ( full duplex )</li> <li>• Energy efficient</li> <li>• <b>EXPERIMENTS</b></li> <li>• Study of network topologies</li> <li>• Study of Ethernet LAN and Wireless LAN</li> <li>• Study of data encryption and decryption</li> <li>• Implementation and study of stop and wait protocol</li> <li>• Implementation and study of go back to n protocol</li> <li>• Implementation and study of selective repeat protocol</li> <li>• Study of token ring and token bus protocol</li> <li>• Study of sliding window protocol</li> <li>• Study of CSMA / CA protocol</li> <li>• Study of CSMA / CD protocol</li> <li>• Measure of throughput and the effect of bit errors on various protocol</li> </ul>	
---	--

We hereby confirm that this quotation is valid for 180 days as required in clause 8 of the terms & condition of the bid.

Yours faithfully,  
 Authorized Signature  
 Name & Title of Signatory:  
 Name of Bidder/Office Stamp:  
 Address:

24/24