Tele: 0532-2250702

C.M.P. Degree College, Allahabad

(A Constituent College of Allahabad University)

M.G. Marg, Allahabad- 211002

Ref No. CMP/1061/2023 Date : 19.10.2023

LTE

Dear Sir/Madam

C.M.P.Degree College invites LTE from registered firms for **purchase of laboratory equipments for DCA department.** Quotations are invited from individual registered firms by registered post up to **2.00 P.M. on 06.11.2023** and shall be opened at **2.30 P.M. on the same day.** Please quote your rates in attached bill of quantity. Interested bidders may download the tender documents from the college web-site address: **www.cmpcollege.ac.in.** Write tender No. **CMP/1061/2023** on envelope.

Sl.No	Description of items	Quantity	Amount
1	List enclosed		

1. While submitting the quotation following should invariably be mentioned:
   a) Details of specification.
   b) Lowest rate F.O.R. destination.
   c) Discount, if any.
   d) GST at confessional rate as applicable to the Educational Institutions.
   e) Period of validity.
   f) Firm delivery time from the date of receipt of confirmed order, condition of supply and terms of payment.

N.B.

1. Under no circumstances unsealed quotation will be entertained in the office.
2. Quotations received after the due date shall not be considered.

19.10.2023
Convenor
Purchase Committee

Principal 19.10.23

Technical specifications required for Digital Electronics laboratory in DCA

S No	Items with specifications	Required unit
1.	**LOGIC GATES : UNIVERSAL GATES (NAND & NOR GATES).** 5 Volts /150 m Amps D.C. Regulated Power Supply. 2 Logic '1' & 2 Logic '0' Inputs provided on 4 mm output sockets on the engraved front panel with 2 Red LED Output Indicators 4 'NAND' & 4 'NOR' Gates & their respective I.C's placed internally below the panel	04
2.	**DIGITAL TRAINER FOR HALF ADDER & FULL ADDER.** Half & Full Digital Adders has been designed to verify the truth table for Digital Half Adder & Full Adder. Fixed output DC regulated Power supply of 5V. Two 'EX-OR' Gates, IC no 7486 are mounted inside the cabinet & connections brought out on sockets. Two 'AND' Gates, IC no 7408 are mounted inside the cabinet & connections brought out on sockets. One 'OR' Gate, IC no 7432 is mounted inside the cabinet & connections brought out on sockets. Three Logic inputs, logic "0" & logic "1" selectable using SPDT switches. Two output indicators mounted on the front panel to observe the output status.	04
3.	**4 BIT ADDER AND SUBTRACTOR.** DC Regulated Power Supply 5V/150mA, 4 Logic inputs selectable using SPDT switches, 4 output LED indicators, circuit diagram printed & connections brought out at sockets on the front panel.	04
4.	**4 BIT MAGNITUDE COMPARATOR TRAINER.** **TECHNICAL SPECIFICATIONS:** DC Power Supply +5V,150mA. Operated on Mains power 230V, 50Hz +10%.Eight independent logic level inputs to select High / Low TTL levels, each with a LED to indicate high / low status and termination .Three independent buffered logic level indicators for High / Low status.IC 7485 With Combinational Circuit given onboard.,Front panel built with high class insulated Printed Circuit Board sheet with printed circuits and symbols.,Connections are brought out through 2mm Coloured Sockets .Patch Cords 2mm .,The trainer is housed in ABS Plastic cabinet ,Instruction manual	03
5.	**ENCODER & DECODER CIRCUITS.** DC regulated power supply 5VDC/150mA, 4 SPDT switches provided for selecting logic 1 & logic 0,1HZ monoshot clock pulse, 4 output indicators, circuit diagram for IC 7490, IC7447 & 7-segment display printed & connections for various inputs & outputs brought out at the sockets on the front panel.	03
6.	**MULTIPLEXER AND DEMULTIPLEXER TRAINER.** **Technical specifications:** DC Power Supply +5V,150mA,Operated on Mains power 230V, 50Hz +10%,Twenty-One independent logic level inputs to select High / Low TTL levels, each with a LED to indicate high / low status and termination.,Sixteen independent buffered logic level indicators for High / Low status.And gate operation given onboard.,IC for Multiplexing 74150 and 74153 is provided on board with Combinational Circuit.,IC for Demultiplexing 74154 and 74138 is provided on board with Combinational Circuit.,Front panel built with high class insulated Printed Circuit Board sheet with printed circuits and symbols .Connections are brought out through 2mm Sockets .Patch Cords 2mm .,The trainer is housed in ABS Plastic cabinet.,Instruction manual	04
7.	**RS, D, T, JK & JK MASTER SLAVE USING NAND GATE FLIP FLOP.** TECHNICAL SPECIFICATIONS: DC Power Supply +5V,150mA, •Operated on Mains power 230V, 50Hz +10%, Four independent logic level inputs to select High / Low TTL levels, each with a LED to indicate high / low status and termination. Two independent buffered logic level indicators for High / Low statu. A Pulser to provide the pulses manually for triggering.,One 7473 IC provided on board for JK and T type Flip Flop.,One 7474 IC Provided on the board for D Type Flip Flop ,One RS Flip Flop Circuit is provided on Board using TTL Gate.,One JK Master Slave Flip Flop is provided on Board using TTL Gate .,One JK Flip Flop is provided on Board using TTL Gate. Front panel built with high class insulated Printed Circuit Board sheet with printed circuits and symbols. Connections are brought out through 2mm Coloured Sockets.Patch Cords 2mm. ,The trainer is housed in ABS Plastic cabinet/Wooden. Instruction manual	04
8.	**4 BIT UP / DOWN COUNTER.** Training Board consists of one fixed D.C. Regulated Power Supply, I.C. 74193 is placed inside and connection brought out on panel, 2 Sockets for up & sown count pins, 4 Logic Output Indicators & 1 HZ monoshot clock pulse switch also provided on the front panel.	04
9.	**4 BIT RIPPLE COUNTER.**	04

Dr. Sarita Srivastava
Convener DCA

19.10.2022
Dr. S.K. Mishra
Convener, Purchase Committee

19.10.22
Prof. Ajay Prakash Khare
Principal