

## PURCHASE ORDER

Reference No:

TEQIP-III/2018/geca/Shopping/18  
GECA/TEQIP-III/2018/19

Date of Issue:

~~25-Sep-2018~~

20/10/18

Subject:

GECA/TEQIP-III/2017-18/QEEE-QEEE LAB

Purchaser:

Government Engineering College, Ajmer  
N.H.8 , BARLIYA CIRCLE, NEAR NARELI TEMPLE,  
AJMER

Supplier Name:

M/s Electronics (India)  
B 131-A Parshawnath colony, nirman nagar  
ajmer road jaipur, jaipur, Rajasthan, 302019

With reference to our correspondence, **Government Engineering College, Ajmer** is pleased to award this detailed Purchase Order to **Electronics (India)** for supply of items as per the details given below at a total cost of **486750.00 (Four Lakh Eighty Six Thousand Seven Hundred and Fifty Only)**:

Sr. No	Item Name	Quantity	Unit Cost (Rs.)	Total Cost (Rs.)	Delivery Period
1	Digital Podium	1	187500	187500	45
2	Interactive Board (DTS)	1	225000	225000	45

Total price (without taxes) : Rs. **412500.00**

Total applicable taxes : **18 %**

Total price (with taxes) : Rs. **486750.00**

Total Octroi : Rs. **0**

Delivery : **Government Engineering College, Ajmer**

Testing/Installation Clause (if any) : **Onsite testing and installation required cost must be included in quotation**

Training Clause (if any) :

Technical Specifications : **As per Annexure - 1**

Delivery Period : **As specified for each item from date of issue of confirmed purchase order or as early as possible.**

Warranty : **12**

Payment Terms :  
**Delivery and Installation - 90% of total cost**  
**Satisfactory Acceptance - 10% of total cost**

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For  
**Government Engineering College, Ajmer**

  
(Authorized Signatory)

Name & Designation  
Principal  
Govt. Engineering College,  
AJMER

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Accepted by

Signature

Date

Address

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## Annexure I (Digital Podium)

Sr. No	Item Name	Specifications
1	Type/Mounting	Free Standing
2	Construction	The podium shall be wheel mounted capable of moving in all directions with a facility of lock them while the Electronic podium is in use. The enclosure shall be made of Polymer Powder Coated Steel Body with wooden top panels, designed to work in suitable environmental conditions. The wooden top shall have lock and key and should have a sliding cover for opening/closing easily. The Podium should have housing and connectivity for Visual Presenter while the visualiser is in use and not in use. At the time of using the Visualiser, drawer can be opened and Visualiser can be used. The construction of the podium should be such that, while the podium is locked and not in use, there should not be any port exposed/ visible on the outer body for breakage/mishandling.
3	Display	Built-in highly sensitive Interactive Panel with manual tilt, a mechanism to make the Panel stable so that it does not shake while writing with following minimum features -
(a)	Screen Type	LED
(b)	Size	53.0 cm (21 inches) or higher
(c)	Resolution	1920 x 1080 or higher
(d)	Aspect ratio	16:9/16:10
(e)	Computer interface	One USB, One VGA/DVI/HDMI Port
(f)	Interactive Resolution	4000 Lpi (lines per inch)
(g)	Response Time	5ms
(h)	Viewing Angles	170(H) ; 160(V)
(i)	Touch	Finger and Stylus
(j)	Reading accuracy	±0.5 mm (center)
(k)	Tracking speed	Approximately 200 points per second
(l)	Pen Pressure sensitivity	2048 Levels
(m)	Speakers	Display panel should have Inbuilt Speaker
(n)	Annotation software	Annotation software shall include features like draw, choose, pens, annotate, erase, color, shapes, sizes, text, edit, fonts, stamp, move, capture picture, video, save, rotate, undo, image gallery, print, floating keyboard and background etc.
4	System Details	
(a)	Processor	Minimum 3.0 GHZ, 3 MB Cache on motherboard
(b)	Industrial Grade Chasis	Small form factor chasis in mini form factor for operation in suitable temperature environments.
(c)	Chipset	Suitable chipset for the processor.
(d)	Memory	2 GB or higher

(e)	HDD/Storage	500 GB or higher
(f)	Expansion I/O	2 USB, LAN 10/100/VGA
(g)	Audio	1 x Line-out/1 Line-in
(h)	Operating System	Windows 10 pre loaded
(i)	Antivirus	Norton Anti Virus/Mcafee or equivalent with 1 year license
5	Console Panel Ports accessible from outer body of Podium.	
(a)	RGB Input	1 x HDMI & VGA Input (other than the input of the PC in the podium to facilitate extra PC / Laptop etc.)
(b)	USB Input	USB Port on the panel to facilitate inputs directly from Pen Drives / USB based hard disk Drive etc.
(c)	LAN Connection	RJ 45 LAN Port at the panel to connect network
(d)	Display	Selection switch to toggle between various sources for the output on the projection screen through a touch panel.
6	Built in devices	
(a)	Gooseneck Microphone	Gooseneck Microphone with XLR output.It should be Phantom powered so that there is no requirement of batteries thereby eliminating consumable cost.The gooseneck length should be atleast 21.5cm with ON/OFF switch and with LED light indicating ON/OFF status.The gooseneck microphone shall be permanently polarized condenser, highly directional featuring hypercardioid /lobar directivity.
(b)	Wireless Microphone Units	The podium shall have a Reciver with a range of 15 mtr & shall come with 1 Handheld Mic, One Collar mic and one Head set microphone.
(c)	Built in Amplifier	Built-in devices on the Panel with easy access and control consisting of:
	Power	50 Watts minimum
(d)	Speakers	Two speakers of Minimum 20 W each shall be a part of standard supply.
(e)	Central Controller with Panel	The podium shall have a controller with minimum 2 VGA inputs, 2 Audio Inputs, 2 Video inputs and required outputs to exploit all the funtionality of the podium and a built in Video Scalar feature.
7	Sliding Trays	Provision for keeping laptop and Keyboard & Mouse
8	Locking Mechanism	All the locks (3/4) fitted in the powder coated steel body should have a single key. Different podiums key should not be interoperable.
9	Power Supply	180 -240V, 50Hz, AC Supply
10	Security	Integrated authentication System having RFID, Password protection & Physical Key for secure access to system.
11	Fans	Suitable cooling fans to be provided in the lower body.

## Interactive Board (DTS)

Sr. No	Item Name	Specifications
1	Cabinet	Wall Mounted Lockable Enclosure
2	Material of Cabinet	CRCA Steel Sheet
<b>Computer Specifications</b>		
3	Small Form Factor	Computer should be of 2 liters Volume or less
4	CPU	Intel Core i3 (7th Gen with minimum 3.5 GHz Processing Speed)
5	RAM	4 GB (Upgradable upto 8 / 16 GB)
6	Hard Disk	1 TB or better
7	In-Built Wi-Fi / Wireless LAN Card	Should have a inbuilt Wi-Fi / Wireless LAN Card
8	Ports (Min.)	VGA x 1, HDMI x 1, USB 2.0 x 3, USB 3.0 x 2, LAN Port x 1
9	Standard Keyboard	Wireless Keyboard
10	Optical Mouse	Wireless Mouse
12	Sound Bars	Should have 100 watts rms amplifier and 2 x 50 Watt rms speakers housed in array
13	Operating System	Windows 10 Professional Preloaded
<b>Multimedia Controller</b>		
14	Controller	Should have Power On/Off, PC On/Off, Projector On/Off, Volume Control, Mute, External PC input, VGA input, touch pad keys.
15	Input / Output Port on Front Panel of Digital Teaching Device	Computer Audio IN, VGA IN, USB 3.0 x 2, HDMI, LAN Port
<b>Power Backup</b>		
16	Power Backup	Digital Teaching Device should have minimum 1 KVA UPS with inbuilt batteries with 15-20 Minutes backup time with casing
<b>In -Built Visual Presenter</b>		
17	Type	Portable
18	Technology	CMOS
19	Image Capture Size	Minimum A4 Size (210x297 mm)
20	Native Resolution	Full HD 1920 x 1080 or better
21	Optical Zoom	12x or better
22	Digital Zoom	10x or better
23	Video Frame Rates	30 FPS or better
24	Focus Arrangement	Auto Focus
25	Camera Head Rotation Angle	90 degrees in Horizontal and 135 degrees in vertical or better
26	Light Source	White LED
<b>Short Throw Projector Specifications</b>		
27	Brightness	4000 ANSI Lumens or better
28	Contrast Ratio	22000:1 or better
29	Native Resolution	WXGA (1280x800) or higher
30	Throw	Short Throw
31	Keystone	Projector should have vertical and horizontal keystone correction of minimum $\pm 30$ degrees each and provision for corner correction.

32	Minimum Lamp Life	6000 Hrs in Normal Mode, 10000 Hours in Economy Mode
33	Input Ports	HDMI -1 ,VGA - 2, Audio IN, RCA x 1, S-Video x 1
34	Other Ports	USB, RS 232, LAN(RJ 45)
35	Output	VGA, Audio Out
36	Throw Ratio	0.50 or better
37	InBuilt Speaker	Minimum 10 Watts
38	Input Power Supply	As per Indian standard with compatible power cable & connector
39	Accessories	All device driver and cables for connecting with computer
40	Other Accessories	Wall mount kit and Cables (of 5 meter length HDMI, Power) should be supplied along with projector
<b>Electronic Interactive Board Specifications</b>		
41	Technology	Infrared(IR) or better
42	Active Area Diagonal Size (inches)	Minimum 78 Inches Diagonal
43	Surface of the Board	Ceramic coated scratch resistant surface. The surface should have 100 percent erasability when any specified writing medium is used. It should be possible to fully erase the marking of Whiteboard marker pen on the surface using ethanol.
44	Hot keys	On both sides of the Boards with description of Icons
45	Resolution	30000*30000 or better
46	Touch Input	Finger & Stylus
47	Accuracy	1mm or better
48	Interface	USB
49	Multi-Touch	Minimum 6 points touch
50	OS Driver Support	Windows 10 and Linux
51	Operations Temperature	0-45°C
52	Software Features	Annotation software shall include minimum features like choose, pens, annotate, erase, color, shapes, sizes, text, Edit, fonts, stamp, move, capture, picture, video, save, Rotate, undo, image gallery, print, floating keyboard and Background etc.. The software should have network classroom feature to conduct remote teaching by having interaction through all the three types of media Audio, Video and Text.
53	Accessories	USB interface cable, Stylus holder with 2 stylus
<b>Green Board</b>		
54	Size	78 Inches Diagonal exactly the same size as Interactive Board