

**Technical Evaluation Sheet**  
**(Tender Ref. No. CUSB/PSD/EE/TENDER/09/2018-19, Dated: 27/06/2018)**

**Annexure "A"**

**Item Details with Technical Specifications**

Digital Classroom is an integrated solution including Cabinet, Mini PC, Multimedia Controller, In Built Visual Presenter, Short Throw Projector, Electronic Interactive Board, Green Board, Audio System & Power Back Up.			M/s. Globus Infocom Ltd.	M/s. Hue Services	M/s. Universal Entp.	M/s. Agmatel India Pvt. Ltd.	M/s. Nice Infotech	M/s. DS Digital
S. No.	Feature	Description/Specifications						
<b>Cabinet</b>								
1	Cabinet	Wall Mounted Lockable Enclosure to house Mini PC, Multimedia Controller & Inbuilt Visualiser  <b>As per Corrigendum: The specification mentioned for cabinet may be wall mounted or in-built in electronic digital podium.</b>	Yes (Wall mountable)	<b>Yes (Not clear whether wall mountable or podium.</b>	Yes (Wall mountable)	Yes (Both option are available)	Yes (Wall mountable)	Yes (Wall mountable)
			<b>Both option must be provided (Wall mounted or in-built electronic digital podium.</b>					
2	Material of Cabinet	CRCA Steel Sheet	Yes	Yes	Yes	Yes	Yes	Yes
<b>Mini PC</b>								
3	Small Form Factor	Computer should be of 2 litres Volume or less	Yes	Yes	Yes	Yes	Yes	Yes
4	CPU	Intel Core i3 (7th Gen with minimum 3.5 GHz Processing Speed)	Yes	Yes	Yes	Yes	Yes	Yes
5	RAM	4 GB (Upgradable up to 32 GB)	Yes	Yes	Yes	Yes	Yes	Yes
6	Hard Disk	1 TB or better	Yes	Yes	Yes	Yes	Yes	Yes
7	In-Built Wi-Fi / Wireless LAN Card	Should have a inbuilt Wi-Fi / Wireless LAN Card	Yes	Yes	Yes	Yes	Yes	Yes
8	Ports (Min.)	HDMI x 1, DP(Display Port) x 2, USB 3.0/3.1 ports x 6, LAN Port x 1	Yes	Yes	Yes	Yes	Yes	Yes
9	Keyboard & Mouse	Wireless	Yes	Yes	Yes	Yes	Yes	Yes
10	Operating System	Windows 10 Professional Preloaded	Yes	Yes	Yes	Yes	Yes	Yes
<b>Multimedia Controller</b>								
11	Controller	Should have Power On/Off, Projector/Display On/Off, External PC input, VGA, Touch pad keys.	Yes	Yes	Yes	Yes	Yes	Yes
12	Input / Output Port on Front Panel of the Cabinet	VGA IN, USB 3.0 x 2, HDMI IN	Yes	<b>No (USB 2.0) Not as per specification, should be clarified.</b>	Yes	Yes	Yes	Yes

In -Built Visual Presenter								
13	Type	Portable	Yes	Yes	Yes	Yes	Yes	Yes
14	Technology	CMOS	Yes	Yes	Yes	Yes	Yes	Yes
15	Image Capture Size	Minimum A4 Size (210x297 mm)	Yes	Yes	Yes	Yes	Yes	Yes
16	Native Resolution	Full HD 1920 x 1080 or better	Yes	Yes	Yes	Yes	Yes	Yes
17	Optical Zoom	12x or better	Yes	Yes	Yes	Yes	Yes	Yes
18	Digital Zoom	8x or better	Yes	Yes	Yes	Yes	Yes	Yes
19	Video Frame Rates	30 FPS or better <b>As per Corrigendum- 20 FPS or better</b>	Yes	Yes	Yes	Yes	Yes	Yes
20	Focus Arrangement	Auto Focus	Yes	Yes	Yes	Yes	Yes	Yes
21	Camera Head Rotation Angle	Camera head rotation angle-180 degree in horizontal and 180 degree in vertical or better	Yes	<b>No (No verticle features) Should be clarified.</b>	Yes	Yes	Yes	Yes
22	Light Source	White LED	Yes	Yes	Yes	Yes	Yes	Yes
Short Throw Projector Specifications								
23	Brightness	4000 ANSI Lumens or better <b>As per corrigendum - 3000 or more Lumens</b>	<b>Yes (Lumens should be clarified)</b>	<b>Yes (Lumens should be clarified)</b>	<b>Yes (4000 Lumens)</b>	<b>Yes (4000 Lumens)</b>	<b>Yes (4000 Lumens)</b>	<b>Yes (4000 Lumens)</b>
24	Contrast Ratio	22000:1 or better	Yes	<b>No (1200:1) Should be clarified.</b>	Yes	Yes	Yes	Yes
25	Native Resolution	WXGA (1280x800) or higher	Yes	Yes	Yes	Yes	Yes	Yes
26	Throw	Short Throw	Yes	Yes	Yes	<b>Not mentioned, should be clarified.</b>	Yes	Yes
27	Keystone	Projector should have both vertical and horizontal keystone correction of minimum $\pm$ 30 degrees each and provision for corner correction.	Yes	Yes	Yes	Yes	Yes	Yes
28	Minimum Lamp Life	10000 Hrs in Normal Mode, 15000 Hours in Economy Mode	Yes	Yes	Yes	Yes	Yes	Yes
29	Input Ports	HDMI -1 ,VGA - 2, Audio IN, RCA x 1, S-Video x 1	Yes	Yes	Yes	Yes	Yes	Yes
30	Other Ports	USB, RS 232, LAN(RJ 45)	Yes	Yes	Yes	Yes	Yes	Yes
31	Output	VGA, Audio Out	Yes	Yes	Yes	Yes	Yes	Yes
32	Throw Ratio	0.50 or better	Yes	Yes	Yes	Yes	Yes	Yes
33	Digital Zoom	0.8X-2.0X	Yes	Yes	Yes	Yes	Yes	Yes
34	Aspect Ratio	16:10	Yes	Yes	Yes	Yes	Yes	Yes

35	In built Speaker	Minimum 20 Watts RMS to deliver full range sound 20Hz-20KHz	Yes	Yes	Yes	Yes <b>(customized 20 watt) Not clear, confirmation required.</b>	Yes	Yes
36	Input Power Supply	As per Indian standard with compatible power cable & con-nector	Yes	Yes	Yes	Yes	Yes	Yes
37	Accessories	All device driver and cables for connecting with computer	Yes	Yes	Yes	Yes	Yes	Yes
38	Remote	Projector should be supplied with full function remote control having a laser pointer inbuilt in the remote control	Yes	Yes	Yes	Yes	Yes	Yes
39	Cable Management	Projector should come with Cable Management Hood on the back of the projector to eliminate Cables clutter	Yes	Yes	Yes	Yes	Yes	Yes
40	Other Accessories	Wall mount kit and Cables (of 5 meter length HDMI, Power) should be supplied along with projector	Yes	Yes	Yes	Yes	Yes	Yes
<b>Electronic Interactive Board Specifications</b>								
41	Technology	Infrared(IR) or better	Yes	Yes	Yes	Yes	Yes	Yes
42	Active Area Diagonal Size (inches)	Minimum 78 Inches Diagonal <b>As per corrigendum - 78" or higher upto 96". Higher may be consider upto 96".</b>	Yes (78")	<b>Yes (size should be mentioned)</b>	Yes (78")	Yes (82")	Yes (78")	Yes (78")
43	Surface of the Board	Ceramic coated scratch resistant surface. The surface should have 100 percent eraseability when any specified writing medium is used.	Yes	Yes	Yes	Yes	Yes	Yes
<b>It should be possible to fully erase the marking of Whiteboard marker pen on the surface using ethanol.</b>								
44	Hot keys	On both sides of the Boards with description of Icons	Yes	Yes	Yes	Yes	Yes	Yes
45	Resolution	30000*30000 or better	Yes	Yes	Yes	Yes	Yes	Yes
46	Touch Input	Finger & Stylus	Yes	Yes	Yes	Yes	Yes	Yes
47	Accuracy	1mm or better	Yes	Yes	Yes	Yes	Yes	Yes
48	Interface	USB	Yes	Yes	Yes	Yes	Yes	Yes
49	Multi-Touch	Minimum 6 points touch	Yes	Yes	Yes	Yes	Yes	Yes
50	OS Driver Support	Windows 10 and Linux	Yes	Yes	Yes	Yes	Yes	Yes
51	Operational Temperature	0-45°C	Yes	Yes	Yes	Yes	Yes	Yes

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, Ro-tate, undo, image gallery, print, floating keyboard and Back-ground 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.	Yes	Yes <b>(information reg. zoom 3 is not clear)</b>  <b>Confirmation required.</b>	Yes	Yes	Yes	Yes
53	Accessories	USB interface cable, Stylus holder with 2 stylus	Yes	Yes	Yes	Yes	Yes	Yes
<b>Green Board</b>								
54	Size	78 Inches Diagonal exactly the same size as Interactive Board	Yes	Yes	Yes	Yes	Yes	Yes
<b>System Audio</b>								
55	System Audio	Solution should be supplied with minimum 100 watts RMS amplifier and two speakers housed in array of minimum 25 W RMS each	Yes	Yes	Yes	Yes	Yes	Yes
<b>Power Backup</b>								
56	Power Backup	Solution should be supplied with minimum 1 KVA UPS with inbuilt batteries with minimum 15-20 Minutes backup time with suitable housing	Yes	Yes	Yes	Yes	Yes	Yes
<b>Online UPS should be provided</b>								

	Tender Fee of Rs. 500/-		DD No. 299072 Allahabad Bank	MSME Certificate (P/152)	DD No. 717530 BOI	DD No. 003017 HDFC	DD No. 845547 Vijaya Bank	DD No. 510001 Std. Chartered
	EMD of Rs. 4 Lakhs		FDR NO. 827548	MSME Certificate (P/152)	TDR No. 505149 BOI	DD No. 003016 HDFC	TDR No. 356833 Vijaya Bank	DD No. 510000, 509999, 509998, 509997 Std. Chartered

3.a.	Physical	One single completed work order of installation & commissioning of 56 smart classrooms or two completed work order of installation & commissioning of 42 smart classrooms or three completed work order of installation & commissioning of 28 smart classrooms.	<b>Supplier name in the DGS&amp;D Supply Order is not clear. Other documentary evidence is required.</b>	<b>No any Supply Order in the name of Bidder.</b>	Complied	Complied	Complied	Complied
3.b.	Financial (Figure in Crores)	The firm should have average annual financial turnover of at least Rs. 10 crores during the preceeding last 3 consecutive financial years. Audited balance sheet for 2014-15, 2015-16 & 2016-17.	2014-15 - Rs. 12.19/- 2015-16 - Rs. 42.00/- 2016-17 - Rs. 100.40/- (P/24-29)	2014-15 - Rs. 21.16 2015-16 - Rs. 23.33 2016-17 - Rs. 28.82 (P/33-88)	2014-15 - Rs. 12.12/- 2015-16 - Rs. 16.75/- 2016-17 - Rs. 11.83 (P/58-66)	2014-15 - Rs. 28.38- 2015-16 - Rs. 128.68/- 2016-17 - Rs. 250.30/- (P/88-103)	2014-15 - Rs. 28.86 2015-16 - Rs. 30.15 2016-17 - Rs. 45.44 (P/67-76)	2014-15 - Rs. 15.77/- 2015-16 - Rs. 23.40/- 2016-17 - Rs. 29.27/- (P/14-21)

**Note: Bidders may submit their comments (if any) to the Registrar on [registrar@cub.ac.in](mailto:registrar@cub.ac.in) on or before 01/08/2018 upto 2:00 PM.**

**Financial bid shall be opened on 02/08/2018 at 2:30 PM at University Panchanpur, Gaya Campus. For further updates, kindly keep visiting University website.**