



INDIAN INSTITUTE OF TECHNOLOGY MADRAS

भारतीय प्रौद्योगिकी संस्थान मद्रास

CHENNAI 600 036, INDIA

चेन्नै 600 036, भारत

DEPARTMENT OF MATHEMATICS

गणित विभाग

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Professor & Head / प्राध्यापक और अध्यक्ष

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Ref: IITM/MA/2018/IPD/ 1140

Date: 14/09/2018

DUE DATE: 20.09.2018 at 3.00 p.m.

Dear Sir,

1. Quotations are invited in duplicate for the various items shown below/overleaf/**enclosed list**.
2. The **quotations are to be in two parts as Technical Offer and as Commercial offer**: The two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in separate envelopes must be enclosed in the one bigger envelope duly sealed and super scribed with reference number and due date and must be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. **Fax and Email quotation are not acceptable**.
4. Quotations should be valid for 60 days from the due date and period of delivery required , warranty terms etc. should also be clearly indicated. A minimum of one year warranty is required from the date of commissioning.
5. Local firms to quote for free delivery to this Institute. If quoted for Ex-Godown delivery charges be indicated separately.
6. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples / machine/ equipment if called for should be submitted / demonstrated at free of charges, and collected back at the supplier's expenses. Compliancy certificate is to be provided indicating conformity to the technical specifications
7. GST and such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. If this is not indicated no such claim will be admitted at any stage.
8. Goods should be supplied carriage paid and insured.
9. Goods shall not be supplied without an official supply order.
10. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
11. The Guarantee period of the item may be indicated clearly.
12. The payment will be made after completion of the supply and satisfactory installation of the equipment/item.
13. **Acceptance and Rejection**:- I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
14. **The quotes should be addressed to "The Head, Department of Mathematics, IIT Madras, Chennai 600036.**

Yours faithfully,


Head of the Department

अध्यक्ष / HEAD
गणित विभाग

Department of Mathematics
आई.आई.टी.मद्रास / IIT Madras
चेन्नै - 600 036 / Chennai - 600 036

Items required: as per specifications enclosed.

75 Inch Interactive Professional Display - 1 No.			
Panel	Diagonal Size		75
	Type		120Hz Direct LED
	Resolution		3,840 x 2,160
	Brightness(Typ.)		300nit (w/o Touch Glass)
	Contrast Ratio(Typ.)		Mega
	Viewing Angle(H/V)		178:178
	Response Time(G-to-G)		8ms
	Operation Hour		16/7
Sound	Speaker Type		Built in Speaker (10W x 2) (Down Firing w/Bass Reflex)
		VIDEO	HDMI Rear1, HDMI Rear2 (ver 2.0), HDMI Front3 (ver 1.4), DVI-D, DP
		USB	USB 1, 2 (Rear), USB 3 (Front), PC USB (Front)
		AUDIO	Audio
	EXTERNAL	Touch Out	Touch Out 1 (Rear), Touch Out 2 (Front)
		CONTROL	RS232C(in/out) thru stereo jack, RJ45, Wi-Fi
		SENSOR	IR Sensor(Display Control)
Touch	Type		IR (Infra Red)
	# of Drawing		4 drawing (SoC), 10 drawing (External Windows PC)
	Touch Pen Type		Passive Pen
	Object Recognition Range		8mm
	Touch Response Time		7ms
Power	Type		Internal
	Power Supply		AC 100~240V 50/60Hz
	Power Consumption	On mode [W]	265(Typical), 370(Rating)
		Sleep mode	less than 0.5W
		Off mode	less than 0.5W
Mechanical Spec	Dimension (mm)	Set	1741.5 X 1012.1 X 86.8
		Package	1865 X 467 X 1152
	Weight (kg)	Set	55.9 → 54.8
		Package	69.5 → 68.4
	Color		Black
	VESA Mount		400 x 400
	Protection Glass		Yes
	Stand Type		Wall Mount
	Power Cable Length		3m
	Accessory		Pen Holder
	Operation	Operating Temperature	
Humidity		10~80%	
Feature	Key		Slim & Light LFD with Built-in MagicInfo Player S5, SSSP
	Special	H/W	Super Clear Coating, Temperature Sensor, Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W x 2), WiFi Module Embedded
		S/W	MagicIWB S5
		Platform	Kant-M (Tizen 3.0)
	Internal Player (Embedded H/W)	Processor	Coretex A72 1.7GHz Quad-Core CPU
		On-Chip Cache Memory	L1 Instruction Cache : 48KB L1 Data Cache : 32KB L2 Cache : 2MB
		Clock Speed	1.7GHz Quad-Core CPU
		Main Memory Interface	3GB 3ch 64bit LPDDR4 1.6GHz
		Graphics	2D & 3D Graphic Accelerator Data Format : 32bpp Output resolution : 3840x2160p
		Storage	8GB (3.88GB Occupied by O/S, 4.12GB Available)
		Multimedia	Video Decoder - MPEG 1/2/4, H.263, H.264/AVC - UHD H.264/AVC, VC-1, AVS/AVS+, MVC - VP8, VP9, HEVC, JPEG Audio DSP(Decoder) - MPEG, AC3, AC4, DD, MP3 and etc
		IO Ports	USB 2.0
	Operating System	Tizen 3.0 (VDLinux)	
	Warranty	Three Years	
Accessories	Included		
		Passive Pen, Power Cable	

85 Inch Professional Signage Display - 2 Nos.

Panel	Diagonal Size	Class	85
		Measured	84.5" / 214cm
	Type		120Hz Slim Direct LED BLU
	Resolution		3840x2160(16:9)
	Brightness(Typ.)		500nit
	Contrast Ratio (Typ.)		5000:1
	Viewing Angle(H/V)		178/178
	Response Time (G to G)		6ms(Typ.)
	Display Colors		16.7M(True Display) 1.07B(Ditherd 10bit)
	Color Gamut		72%
	Operation Hour		24/7
	Haze		44%
	Display	Dynamic C/R	
H-Scanning Frequency		30 ~ 81kHz	
V-Scanning Frequency		48 ~ 75HZ	
Maximum Pixel Frequency		594MHz	
Sound	Speaker Type		Built in Speaker(15W + 15W)
Connectivity	INPUT	RGB	D-Sub, DVI-D, Display Port 1.2 (2), Display Port 1.1 (1)
		VIDEO	HDMI 1.4 (3)
		HDCP	HDCP1.4 (→ support UHD 30hz)
		AUDIO	Stereo mini Jack, RGB, DVI, HDMI
		USB	USB (S/W update only)
	AUDIO	Stereo mini Jack	
	EXTERNAL CONTROL		RS232C(in/out), RJ45
	EXTERNAL SENSOR		IR
Power	Type		Internal
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz
	Power Consumption	On mode [W]	368(Typical), 450(Rating), 495(Max)
		Sleep mode	less than 0.5W
		Off mode	less than 0.5W
Mechanical Spec	Dimension(mm)	Set	1903.4 x 1090.5 x 105.1
		Package	2050 x 1265 x 472
	Weight (kg)	Set	50.1
		Package	66.9
	VESA Mount		600x400
Bezel Width (Top/Side/Bot) (mm)		13.2/13.2/19.3	
Operation	Operating Temperature		0°C~ 40°C
	Humidity		10~80%
Feature	Key		UHD LFD Display
	Special	H/W	Temperature Sensor,Pivot Display, Clock Battery(80hrs Clock Keeping), Built in Speaker(15W 2ch), Video Wall(15x15(OSD))
		S/W	FHD 4 PBP Support (2/3/4 PBP), Auto Source Switching & Recovery, LFD Home UI, Button Lock, DDC CI, DHCP with RJ45 MDC Urgent Message by MDC, Hot key option, Plug&Play (Initial Setting)
Warranty			Three Years
Accessories	Included		Quick Setup Guide, Warranty Card, DP cable, Power Cord, Remote Controller, Batteries