



## MOHANLAL SUKHADIA UNIVERSITY:UDAIPUR

NO.:Univ/ FMS /limited tender /1414

Dated 27/02/20

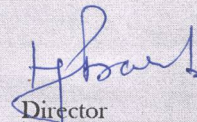
### LIMITED TENDER NOTICE

Sealed tenders are invited for purchase of the following articles:

<u>Name of the articles</u>	<u>Quantity required</u>	<u>Remarks</u>
Supply Installation and Commissioning of Interactive Touch Display Panel Board	one	Specification enclosed

### TERMS & CONDITIONS:

1. Tenders must be submitted in properly sealed envelopes duly marked tender for Interactive articles addressed to the undersigned and should reach this office on or 5/03/20 before 3:00 a.m./p.m.  
The tenders will be opened on the same day at 4.00 p.m.
2. The University reserves the right of accepting and rejecting the tenders without giving any reason.
3. Intending tenderers will have to depositing earnest money of Rs. 3900/- in the name of the Director Faculty of Management Studies Mohanlal Sukhadia University, Udaipur.
4. The above rates will be valid upto one year.
5. All rates quoted must be F.O.R. declaration (University Store) and should include all taxes.
6. Samples may please be send alongwith the tender.
7. Tenders received after the prescribed date and time will not entertained and rejected outright.



Director

**DIRECTOR**

MOHANLAL SUKHADIA UNIVERSITY  
Faculty of Management Studies  
Mohanlal Sukhadia University, Udaipur  
UDAIPUR





Tender Specification Description	Tender Specification Requirement	Yes	No
<b>Touch Interactive Flat Panel Display</b>			
<b>Display</b>			
Active Screen Size ("inch)	75"		
Display Backlight	DLED		
Display Area	0		
Display Ratio	16 : 9		
Resolution	3840*2160 or better		
Display Colors	10 bit or better		
LCD Brightness	>450cd/m2 or better		
Contrast Ratio (Typical)	4000:1 or better		
Response Time (Typical)	4ms or better		
Viewing Angle	178°		
Life time (working hours)	>50,000 hours or better		
Display Orientation	Landscape		
Reference Frequency	120Hz or better		
<b>Speakers</b>			
Speakers	Shout be SEAMLESSLY build-in the display		
Max.Power Output	2x15 Watts or above		
Speaker Position	Seamlessly mounted in lower side of the display. Front facing, Forward through		
Rated Impedance	8Ω		
Freq.Response	180Hz-20kHz		
Output S.P.L.	84 ± 3dB		
<b>Touch</b>			
Touch Technology Deployment	Touch feature should be seamlessly build-in the display and NO overlay is allowed		
Touch Sensor	Advanced IR		
Surface material of touch surface	Anti-Glare & Anti-Finger Print Glass		
Protection	3M antigalre		
Haze	2%~5%		
Touch Screen Writing Tools	Nano Pen (>3mm width) included or Finger		
TOUCH Response time	≤4ms or better		
Positioning Accuracy	±1mm or better		
Transmission Range	5M		
Transparency	>88% or better		
Surface Hardness	H7 or More than H7		
Glass thickness	4 mm		
HID Support	Must have a provision to connect with any external sources		
Touch Points in	Must have a touch capability of MINIMUM 20 points		

Windows			
Touch Points in Embedded OS	Must have a touch capability of MINIMUM 10 points		
Writing Tool	Shall use with Nano Pen (>3mm width) included or Finger		
Scan Speed	133Hz or better		
Communication Interface	inbuilt - USB-A type		
<b>Ports</b>			
Requirement of Front access ports with flip	For the purpose of ease access the display must have the following ports in the front side and must have flip cover to close when not in use		
Minimum required Input ports at Front side of the display	1 x HDMI(1.4 , 4K@30Hz):- To connect with any resources 1 x Exclusive USB1 for Touch :- To connect with any resources and operate 2 x Exclusive USB for Media Play function:- To directly view the contents from USB 1 x Microphone(3.5mm):-To connect any external microphone		
Minimum Requirement of AV Inputs at rear side	HDMIx1(2.0,4K@60Hz) + USB for Touch Port 1 while using HDMI port HDMIx2 (2.0,4K@60Hz)+ USB for Touch Port 2 while using HDMI port DPx1 (4K@60Hz)+ USB for Touch Port 3 while using Display port VGAx1 (1920x1080@60Hz) + USB for Touch Port 4 while using VGA port		
Minimum requirement of AV Outputs at rear side	HDMIx1(4K@60Hz)- Transmit the signal to other display with equipment with High definition 3.5mm Line out x 1 DC Out (5V 2A) x1 SPDIF out x 1		
Minimum Requirements for other ports at rear side	USB 2.0 x2 : - To directly view the contents from USB RS232 x1 :- Device Controlled by any third party controller RJ45 x1 :- Input port of Local area network RJ45 x1 :- Output port of Local area network USB 3.0 x1 :- To connect external USB camera OPS Slot (4K@60Hz):- To connect OPS PC for windows function		
<b>Remote Control</b>			
Technology	Infrared		
Battery Type	AAA Cell		
<b>Smart System / On Board System</b>			
Multimedia File Formats Supported	Support all major types of multi-media files		
GUI - Graphic User Interface	The display must have GUI for ease access of resources, functions and shortcuts. This GUI shall be any proprietary OS but must be computable with Android coding.		
Discussion / White Board	Build-in white board ( seamless writing) with inbuilt browser		
Wireless casting Application	A wireless presentation software comes with inbuilt for inroom presentation Maximum connectivity of BYOD devices - 4 / 6 users ( Android 4 user / Win 6 user) <b>Control</b> - The setup should be in such a way that the presenter should have control of the GUI of this Remote Interactive Presentation Kit from the Touch Interactive Flat Panel Display <b>Display capability</b> - Equipment should have capability to display 4 /6 sources at a time system Supported - Win/Mac/ios/Android		



Display Management	CENTRALLY MANAGE ALL YOUR INTERACTIVE DISPLAYS : Easily manage and deploy apps, configure display settings, add licences, use digital signage features or broadcast emergency messages to all interactive displays, without ever having to leave your desk.		
Wireless Broadcasting Application	SHARE CONTENT TO AUDIENCES OF ANY SIZE HASSLE-FREE BROADCASTING Joining the broadcast is simple: Access the Broadcast webpage and Share your screen in real-time from your interactive display to any participant connected. Easily invite up to 200 participants to connect their own device from the meeting room, classroom, lecture theater or any other place in the world with a network connection.		
Other features	The onboard system supports....Annotation, saving and send email of annotation files and selecting the inputs and changing the volume , Scheduling function for meeting room schedules , Buildin wifi(2.4G/5G) and so on		
File Commander	Helps to easily open your USB drive and access your documents / files . <b>Additional features in File commander :</b> <b>Add Cloud :</b> Cloud Based file storage services are availbale . User can directly download their documents or files and access during presentation. <b>FTP :</b> File Transfer Protocol (FTP) is the commonly used protocol for exchanging files over the Internet <b>Local Area Network :</b> A local area network (LAN) is a group of computers and associated devices that share a common communications line or wireless link to a server.		
Email support	Pre loaded Aqua mail - you can easily email your whiteboard content to anyone		
Business calendar	A pre loaded business calenser is available you can set schedules and synchronize with Google calendar for meeting room schedules		
Customized GUI	User can easily customized their own background and logo's		
Multimedia File Formats Supported	Support all major types of multi-media files		
Object Recognition	This product supports object recognition and produces different effects according to the diameter and size of the input objects. <ul style="list-style-type: none"> <li>● Fist/palm: identified as an eraser (100 pt).</li> <li>● Fine Pen (3mm): suggested to use while writing.</li> <li>● Thick Pen ( ≥ 8 mm)/ finger: suggested to use when you want to highlight</li> </ul>		
OTA (Over-the-Air) Update	Upgrade the latest firmware for your displays through our OTA Update support and keep them running smoothly at all times		
Smart Eye protection	Smart Eye Protact keep your eye vision safe from IFPD's light		
Blue light filter	Blue light contributes to digital eye strain; IFPD's glasses that block blue light may increase comfort for users		
Chipset	MTK8386 or higher		
CPU	ARMv8 A73*2+A53*2 ( A53 : 1.05-1.3GHz; A73 : 1.15-1.5GHz) or higher		
GPU	Mali-G51MP2 650 MHz or higher		
RAM	3GB or higher		
ROM	16GB build in or higher		
External Memory	32GB TF card (build in) or higher		
Total In-built Memeory	48GB ( Inbuilt TF Card slot support max 64GB) or higher		
Android Version	8.0.0 or higher		

Android resolution	4K		
<b>OPS PC (4K)</b>			
Model	S044P621		
CPU	i5-7200U		
GHZ	3M Cache, up to 2.80 GHz		
RAM	4G *2		
HD drive	128G SSD		
TPM	2.0		
MIC	3.5mm*1		
HDMI	1; HDMI 1.4 4K@24HZ		
line out	3.5mm*1		
USB 2.0	2		
USB 3.0	2		
1000 Mbit/ RJ45	1		
Build-in Wifi	1		
OPS interface	TX24A support 4K@60HZ		
OS	pre-install Win 10 Pro English ( non-license)		
Dimension	L*W*H: 120*180*30 mm		
<b>Transportation/Storage</b>			
Working Voltage	AC 100-240V, 50/60Hz		
Power Consumption	Maximum ≤400W Standby Mode ≤0.5W		
<b>Transportation/Storage</b>			
Storage Temperature/Humidity	-15°C~55°C/20~90%RH(Non coagulation)		
Working Temperature/Humidity	0°C-40°C/20~80%RH(Non coagulation)		
Mounting Capabilities	Display must have facility to mount on floor stand or wall brackets		
<b>System Safety</b>			
Self shutdown	Must self shutdown during abnormal temperature		
<b>Features and Applications Touch Interactive Display</b>			
Inbuilt Soft features	The touch interactive display must have inbuilt onboard writing software. Thus, this software shall has the capability to write some thing on the display and store in on-board system even WITHOUT any PC/Laptop/External device		
	The display must have the facility of send the written contents by mail, take printout and transfer to pen drive as well		
	This software which is embedded in the On-Board system shall have capability to write(Annotate) on top the contents that are shown from Pen drive direct / External PC / Any such sources		
External software	Touch interactive display shall also be supplied with specialised software which shall be installed in PC/Laptop. This software should have features of different writing capabilities like Pen, Highlighter, laser pen, geometric pen, text pen and so on. The software shall also have features of Screen record, screen capture, import files, export files and saving the content in different versions and so on.		
Inbuilt Internet access	The touch interactive diplay mush have inbuilt WiFi (2.4G/5G). So that the presenter shall visit the internet to show/access the conten/information even withoput PC/LAPTOP		

<b>Wall Mount Kit</b>			
Suitable wall mount kit with accessories	Equipment has to be supplied with suitable wall mount kit and accessories		
Installation	Horizontal installation		
<b>Mandatory Requirements</b>			
Local Office for Bidder	The Bidder must have their office within 100km surrounding		
Proof of document	Any telephone bill, taxi payment receipts and any such documentary proof		
Manufacturer	The Manufacturer must have office in India and proof the same shall be furnished		
Manufacturer's authorization	The bidder must submit the authorization certification		