

**NAHEP**

INSTITUTIONAL DEVELOPMENT PLAN
National Agricultural Higher Education Project
Sri Karan Narendra Agriculture University
Jobner-303329, Distt. Jaipur (Rajasthan)



Phone: 01425-254022; Email ID: pi.nahep@sknau.ac.in

No: SKNAU/NAHEP/Proc./2021-22/ 157

Date:08.03.2022

Activity No.: IN-SKNAU-JOBNER-179211-GO-RFQ/ Components for Video Conferencing Rooms

M/s- Perfection,
Plot no.8 Gulab Bagh Bajrang Nagar,
Kota, Rajasthan- 324001

Subject- Notification of Award/Purchase Order for the supply of Components for Video Conferencing Rooms

Ref. No.: SKNAU/NAHEP/Proc./2021-22/146/01.02.2022

Dear Sir,

This is to notify you that your quotation for the supply of components for video conferencing rooms is accepted on the terms and conditions laid down in the RFQ.

S. No.	Item Name	Qty. (No.)	Unit cost (Rs.)	Total Cost (Rs.)	GST (18%)	Gross Total (Rs.)	Delivery Period (Days)
1.	Components for Video Conferencing Rooms	01	2525525.00	2525525.00	454595.00	2980120.00	30 Days

Total Price (without GST) - 2525525.00

Total Applicable Taxes – 454595.00 (18% on Rs 2525525.00)

Delivery – Office of IDP-NAHEP, SKN College of Agriculture, Jobner, Jaipur

Technical Specification – As per Annexure-1

Warranty- Three Years warranty

Payment Terms- 100 % payment will be released only on receipt of complete satisfactory supply, installation and demo of ordered goods.

1. The successful bidder shall furnish the Performance Security of Rs **126276.00** (5% of the contract value without tax to the purchaser in the form of Demand Draft (DD) after the receipt of acceptance letter).
2. If the supplier fails to deliver the desired goods within period specified in the purchase order, liquidated damages will be applicable @ 0.07% per week and maximum deduction is 10% of the contract price.

You are requested to supply components for video conferencing rooms within stipulated period and raise bill in favour of the PI, IDP, National Agricultural Higher Education Project, Sri Karan Narendra Agriculture University, Jobner- Jaipur -303329

(Purchaser)


PI, IDP-NAHEP

Sri Karan Narendra Agriculture University,
Jobner- Jaipur -303329

Annexure 1

Name of Work: Supply and installation of different components for video conferencing rooms

Sr. No.	Product	Qty
A. For video conference room -1		
1	86-Inch Interactive Flat panel display with 600 nits Mini PC- i5, 8 GB RAM, 1 TB HDD, 512 GB SSD	1
2	Electronic Lectern with i5 mini PC, 8 GB RAM, 512 GB SSD, motorized, Multimedia controller, Gooseneck Mic, One Hand Held and one lapel Wireless microphone, Audio amplifiers and 4 wall mount speaker of 100 watt each	1
3	86-Inch Professional Display (Non-Touch)	1
4	65 inch Professional Display with Tilted Floor Mount stand for 65-inch Display	1
5	Pre-set Full HD PTZ USB 3.0 based Camera -with Optical Zoom- 10x, Digital Zoom - 12x, with Hand held Remote Control, for Software based VC with ceiling mount kit	1
6	Pre-set Full HD PTZ USB 3.0 based Camera -with Optical Zoom- 5x, Digital Zoom - 10x, with Hand held Remote Control, for Software based VC	1
7	Wired Boundary layer Microphone	3
8	3-KVA Online UPS with 30 minutes backup	1
9	1x4 HDMI Distribution Amplifier Switch	1
10	HDMI Tx-Rx Set with up to 30 Meter Transmission range	2
11	10-Port Audio Mixer	1
12	HDMI Cable 1 Meter	5
13	USB 3.0 Extender booster cable (15 Meter)	1
14	Cat-6 Ethernet Cable (Meter)	60
15	12U - Wall mount Rack	1
16	Cat-6 Ethernet Cable (Meter)	30
B. For video conference room - 2		
Sr. No.	Product	Qty
1	86-Inch Interactive Flat panel display	1
2	Electronic Lectern with i5 mini PC, 8 GB RAM, 256 GB SSD, motorized, Multimedia controller, Gooseneck Mic, One Hand Held and one lapel Wireless microphone, Audio amplifiers and 4 wall mount speaker of 100 watt each	1
3	Floor Mount stand for 86-inch Display	1
4	Pre-set Full HD PTZ USB 3.0 based Camera -with Optical Zoom- 10x, Digital Zoom - 12x, with Hand held Remote Control, for Software based VC with ceiling mount kit	1
5	Pre-set Full HD PTZ USB 3.0 based Camera -with Optical Zoom- 5x, Digital Zoom - 10x, with Hand held Remote Control, for Software based VC	1
6	Wired Boundary layer Microphone	1
7	3-KVA Online UPS with 30 minutes backup	1
8	HDMI Cable 1 Meter	3
9	USB 3.0 Extender booster cable (15 Meter)	1
10	Cat-6 Ethernet Cable (Meter)	30

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DETAILED SPECIFICATIONS OF INDIVIDUAL COMPONENTS

1. 86-Inch Interactive Flat panel display with Mini PC

Parameter	Specifications
Technology	DLED Backlight (IPS)
Display size (Diagonal)	86 inches or higher
Aspect Ratio	16:9 or better
Resolution	3840 X 2160 or higher
Contrast Ratio	5000:1 or higher
Brightness	600 cd/m ² or higher
Display colour	8 bit-16 million colours or better
Input Ports (Minimum)	HDMI x 3, RGB/VGA x 1, Audio x 1, PC slot x 1, RS232x1
Output Ports (Minimum)	Audio (Earphone out) x 1, SPDIF x1
USB Ports (Minimum)	USB 2.0 Type A x 3, USB 3.0 Type A x 4, USB 2.0 Type B for Touch x 2
Smart USB Port	All USB ports should support sharing Mode with Android, Internal PC or other External PC / Device
Camera Plate	Camera Plate on top for screw-in web cam installation
Communication port	RJ45 x 1 Gigabit LAN Port
Built In Speakers	2.1 Stereo Sound with in-built 20Watt x 2 speakers and 15 Watt x 1 Sub-Woofer or better
Viewing Angle	Horizontal 178 degrees, Vertical 178 degrees or better
Touch Technology	IR Recognition or better
Touch Points	10 Points or Higher
Writing Points	10 Points with automatically detect pen
Pen Recognition	Dual Pen recognition with 2mm tipped pens at real-time lag free response rate.
Split Screen	4 Way Split Screen content sharing software
Touch on/Off	Should have touch on/off functionality
Touch Response Time	15 Ms or better
OS Support/Embedded Player	Windows 10/ Windows 8/ Windows 7/Linux/Mac/Android Embedded Player CPU Inbuilt.
Stylus/Pen Holder	Frame/Structure of IFPD should have inbuilt magnetic mechanism
Networking	DHCP (Auto identification) and Static IP supported
Hardness, Anti Scratch, Anti-Glare	Minimum 9H hardness, scratch resistant, anti-glare, anti-crack resistant

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Software Features	Marker, Paint Brush, Highlighter, Laser Pen, Artificial intelligent Pen, Shape Pen, Magic Line Pen, Different sizes available with Region eraser, Shapes, Text, Generic consist of (shapes,3DShapes, Arrows & Tables), Integrated image search from internet, Search Light, Screen Curtain, inbuilt browser, screenshot, magnifier, calculator, soft keyboard, Clock, Stop Watch, Geometry Tools, Screen recording, integrated webcam, Desktop Annotation, White board with different backgrounds and colors, Cloud storage, Cloud Download, Page management system. Multiple numbers of images available with internet like nature, sport, Daily necessity, animals. ort documents/contents. Annotation of on video, PPT, PDF. Annotate on PC/ Laptop with the help of smart phone, New, Open, Save, save as, Import & Export (PNG, JPG, PDF, PPTX, IWB), Print, YouTube Drag & Drop, Magnifier, YouTube integration, Canvas moving, Inbuilt Animation libraries, follow me AI, Complete Ecosystem om mobile, web & PC, Google for Education partner, casting in & Casting out from Remote locations via browser, Android & iOS Apps
Save Option	Should have option to save directly to Google Drive and One Drive
Screen Mirroring, Wireless content sharing	Data from Mini PC should be shared wirelessly on multiple Phones/Tablets without any other hardware requirement.
Quiz	Should have in built tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging)
QR Code Scan	Should have file download feature in smart phone just by scanning the QR code
Video Conferencing Interface	Should support USB based PTZ cameras allowing Software based Video Conferencing
Integrated Wireless and Bluetooth Module	It should be dual band (2.4Ghz and 5Ghz). It should deliver fast wireless internet connection for interactive displays. It should support dual frequency of 2.4GHz and 5.0GHz bandwidth, along with the newest 802.11AC standard to provide up to 433Mbps transmission. It should also fast Bluetooth 4.0 connection
Certifications	BIS, CE & RoHS, FCC
Accessories	AC Power cord, User Manual, Remote control, USB interface cable, Two Stylus, Wall mount bracket
In-Built Android Hardware	
Android Resolution	3840 X 2160 or higher
CPU	Quad Core 1.2 GHz or Higher
Memory	3 GB or Higher Storage
Storage	32 GB eMMC or Higher
Android Version	8 or higher
Mini PC	
Form Factor	Mini PC should be of 2 litres Volume or less
CPU	Intel Core i5 (10th Gen or better processor)
RAM	8 GB RAM
Hard Disk	512 GB SSD and 1 TB or better

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In-Built Wi-Fi / Wireless LAN Card	Should have an inbuilt Wi-Fi / Wireless LAN Card
Ports (Minimum)	HDMI x 1, DP (Display Port) x 2, USB ports x 6, LAN Port x 1
Standard Keyboard	Wireless Keyboard
Optical Mouse	Wireless Mouse
Operating System	Windows 10 Pro upgradable to Windows 11 Pro

2. Electronic Lectern

Type/Mounting	Free Standing
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.
Display	Built-in highly sensitive Interactive Panel with adjustable Motorized tilt & a mechanism to make the Panel stable so that it does not shake while writing with following minimum features:
Screen Type	LED
Size	53.0 cm (21 inches) or higher
Resolution	1920 x 1080 or higher
Aspect ratio	16:9/16:10
Computer interface	One USB, One VGA/DVI/HDMI Port
Interactive Resolution	4000 LPI (lines per inch)
Response Time	5 Ms
Viewing Angles	170(H); 160(V)
Touch	Finger and Stylus
System Details	
Processor	Intel Core i5 (10th Gen or better processor)
Small Form Factor	Computer should be of 2 liters Volume or less
In-Built Wi-Fi /Wireless LAN Card	Should have an inbuilt Wi-Fi / Wireless LAN Card
RAM	8 GB
Hard Disk	512 GB SSD or better
Ports (Min.)	HDMI x 1, DP (Display Port) x 2, USB ports x 6, LAN Port x 1
Keyboard & Mouse	Wireless
Operating System	Windows 10 Pro
Antivirus	Norton Anti-Virus/McAfee or equivalent with 1 year license
Controller	
Ports on front Panel of Controller (Minimum)	VGA, HDMI, USB3.0 x 2, Audio IN or more

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Buttons on front Panel of Controller (Minimum)	Push buttons to control Volume Up & Down, Volume Mute and to switch sources of HDMI Visual Presenter, VGA Visual Presenter, HDMI Laptop, PC HDMI, VGA Laptop, VGA PC and Controller Power On/Off, Display Power on and Power Off or more
Ports on Rear Panel of Controller (Minimum)	USB 3.0 X 2, VGA Input x 2, VGA Output x 2, RCA Audio IN X 1, RCA Audio Output x 2, HDMI Inputx2, HDMI Outputx2
Built in HDMI Repeater	Yes (HDMI Output port should support 15mtr HDMI cable)
Controller Resolution Output	4K (3840 x 2160) Native
Power	5 V DC (Suitable Adaptor should be supplied with controller)
Built in devices	
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 at least 21.5 cm with ON/OFF switch and with LED light indicating ON/OFF status.
Built in Amplifier Power	500 Watts minimum
Speakers	Four speakers of Minimum 100 W each shall be a part of standard supply.
Wireless Microphone Units	Wireless Hand Held & Lapel microphone with receiver.
Sliding Trays	Provision for keeping laptop and Keyboard & Mouse
Power Supply	180 -240V, 50Hz, AC Supply
Security	Integrated authentication System having RFID, Password protection & Physical Key for secure access to system.
Fans	Suitable cooling fans to be provided in the lower body.
Logo	Should be provided with Acrylic logo.

3. 86-Inch Professional Display (Non-Touch)

Technology	DLED Backlight (IPS)
Display size (Diagonal)	86 inches or higher
Aspect Ratio	16:9 or better
Resolution	3840 X 2160 or higher
Contrast Ratio	5000:1 or higher
Brightness	600 cd/m ² or higher
Display colour	8 bit-16 million colours or better
Input Ports (Minimum)	HDMI x 3, RGB/VGA x 1, Audio x 1, PC slot x 1, RS232x1
Output Ports (Minimum)	Audio (Earphone out) x 1, SPDIF x1
USB Ports (Minimum)	USB 2.0 Type A x 3, USB 3.0 Type A x 4
Smart USB Port	All USB ports should support sharing Mode with Android, Internal PC or other External PC / Device
Camera Plate	Camera Plate on top for screw-in web cam installation
Communication port	RJ45 x 1 Gigabit LAN Port
Built In Speakers	2.1 Stereo Sound with in-built 20-Watt x 2 speakers and 15-Watt x 1 Sub-Woofer or better

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Viewing Angle	Horizontal 178 degrees, Vertical 178 degrees or better
Split Screen	4 Way Split Screen content sharing software
OS Support/Embedded Player	Windows 10/ Windows 8/ Windows 7/Linux/Mac/Android Embedded Player CPU Inbuilt.
Networking	DHCP (Auto identification) and Static IP supported
Hardness, Anti Scratch, Anti-Glare	Minimum 9 H hardness, scratch resistant, anti-glare, anti-crack resistant
Screen Mirroring, Wireless content sharing	Data from Mini PC should be shared wirelessly on multiple Phones/Tablets without any other hardware requirement.
Video Conferencing Interface	Should support USB based PTZ cameras allowing Software based Video Conferencing
Certifications	BIS, FCC, CE & RoHS
In-Built Android Hardware	
Android Resolution	3840 X 2160 or higher
CPU	Quad Core 1.2 GHz or Higher
Memory	3 GB or Higher Storage
Storage	32 GB eMMC or Higher
Android Version	8 or higher
Accessories	AC Power cord, User Manual, Remote control, USB interface cable, Wall mount bracket

4. 65 inch Professional Display with Tilted Floor Mount stand for 65-inch Display

Technology	DLED Backlight (IPS)
Display size (Diagonal)	65 inches or higher
Aspect Ratio	16:9 or better
Resolution	3840 X 2160 or higher
Contrast Ratio	5000:1 or higher
Brightness	600 cd/m ² or higher
Display colour	8 bit-16 million colours or better
Input Ports (Minimum)	HDMI x 3, RGB/VGA x 1, Audio x 1, PC slot x 1, RS232x1
Output Ports (Minimum)	Audio (Earphone out) x 1, SPDIF x1
USB Ports (Minimum)	USB 2.0 Type A x 3, USB 3.0 Type A x 4
Smart USB Port	All USB ports should support sharing Mode with Android, Internal PC or other External PC / Device
Camera Plate	Camera Plate on top for screw-in web cam installation
Communication port	RJ45 x 1 Gigabit LAN Port
Built In Speakers	2.1 Stereo Sound with in-built 20 Watt x 2 speakers and 15 Watt x 1 Sub-Woofer or better
Viewing Angle	Horizontal 178 degrees, Vertical 178 degrees or better
Split Screen	4 Way Split Screen content sharing software
OS Support/Embedded Player	Windows 10/ Windows 8/ Windows 7/Linux/Mac/Android Embedded Player CPU Inbuilt.
Networking	DHCP (Auto identification) and Static IP supported
Hardness, Anti Scratch, Anti-Glare	Minimum 9 H hardness, scratch resistant, anti-glare, anti-crack resistant

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Screen Mirroring, Wireless content sharing	Data from Mini PC should be shared wirelessly on multiple Phones/Tablets without any other hardware requirement.
Video Conferencing Interface	Should support USB based PTZ cameras allowing Software based Video Conferencing
Certifications	BIS, FCC, CE & RoHS
In-Built Android Hardware	
Android Resolution	3840 X 2160 or higher
CPU	Quad Core 1.2 GHz or Higher
Memory	3 GB or Higher Storage
Storage	32 GB or Higher
Android Version	8 or higher
Accessories	AC Power cord, User Manual, Remote control, USB interface cable, Wall mount bracket

5. Pre-set Full HD PTZ USB 3.0 based Camera -with Optical Zoom- 10x, Digital Zoom - 12x, with Hand held Remote Control, for Software based VC with ceiling mount kit

Camera	
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Optical Zoom	10x or higher
Digital Zoom	12x or higher
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR (2500K ~ 8000K)
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	72.5 degrees ~ 6.9 degrees or better
Vertical Angle of View	44.8 degrees ~ 3.9 degrees or better
Horizontal Rotation Range	±170 degree
Vertical Rotation Range	Minus 30 degrees ~ Plus 90 degree
Pan Speed Range	2.7 degrees ~ 37.5 degrees per second or better
Tilt Speed Range	2.7 degrees ~ 31 degrees per second or better
H & V Flip	Support
Image Freeze	Support
Number of Preset	255
Preset Accuracy	0.1°
Video System	1080P, 720P, 540P, 480P, 360P, 240P
USB Featured	
Operate System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Colour System / Compression	YUV 4:2:2 / H.264 / MJPEG

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Video Format USB 3.0	1080P@60fps
Audio on USB	Support
Operational Requirement	
Audio Encoding	Device should Support AAC audio encoding, better sound quality and smaller bandwidth.
Low Light	Device Should support High SNR of CMOS sensor, even under low illumination conditions, picture can still keep clean and clear.
Remote Control	All the parameters of the camera can be remote controlled by the high-speed communications
Low power Operation	Device Should support Power through USB to functunate all the parameters
Input/Output Interface	
USB Interface	1xUSB3.0: Type B female jack
Audio Interface	1-ch: 3.5mm Audio Interface Line In
Network Interface	1xRJ45: 10M/100M Ethernet Interface
Generic Specification	
Certifications	CE, RoHS, FCC

6. Pre-set Full HD PTZ USB 3.0 based Camera -with Optical Zoom- 5x, Digital Zoom - 10x, with Hand held Remote Control, for Software based VC

Camera	
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Optical Zoom	5x or higher
Digital Zoom	10x or higher
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR (2500K ~ 8000K)
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	72.5 degrees ~ 6.9 degrees or better
Vertical Angle of View	44.8 degrees ~ 3.9 degrees or better
Horizontal Rotation Range	±170 degree
Vertical Rotation Range	Minus 30 degrees ~ Plus 90 degree
Pan Speed Range	2.7 degrees ~ 37.5 degrees per second or better
Tilt Speed Range	2.7 degrees ~ 31 degrees per second or better
H & V Flip	Support
Image Freeze	Support
Number of Preset	255
Preset Accuracy	0.1°
Video System	1080P, 720P, 540P, 480P, 360P, 240P

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USB Featured	
Operate System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Colour System / Compression	YUV 4:2:2 / H.264 / MJPEG
Video Format USB 3.0	1080P@60fps
Audio on USB	Support
Operational Requirement	
Audio Encoding	Device should Support AAC audio encoding, better sound quality and smaller bandwidth.
Low Light	Device Should support High SNR of CMOS sensor, even under low illumination conditions, picture can still keep clean and clear.
Remote Control	All the parameters of the camera can be remote controlled by the high-speed communications
Low power Operation	Device Should support Power through USB to functunate all the parameters
Input/Output Interface	
USB Interface	1xUSB3.0: Type B female jack
Audio Interface	1-ch: 3.5mm Audio Interface Line In
Network Interface	1xRJ45: 10M/100M Ethernet Interface
Generic Specification	
Certifications	CE, RoHS, FCC

7. Wired Boundary layer Microphone

Microphone	Boundary Layer Microphone
Polar Pattern	Omnidirectional
Output	Individual Channel: XLR, Mix out: ¼" Jack

8. 3-KVA Online UPS with 30 minutes backup

9. 1x4 HDMI Distribution Amplifier Switch

Inputs	1 HDMI connectors
Outputs	4 HDMI connectors
Bandwidth	2.5Gbps or better
Compliance with HDMI Standard	Supports HDMI and HDCP
Output Resolutions	Up to 1080p
INDICATOR LEDs	OUTPUT STATUS 1 to 4

10. HDMI Tx-Rx Set with up to 30 Meter Transmission range

Transmitter (Tx)	
Inputs	1 HDMI connectors
Outputs	1 HDBT on RJ45 Connection
Receiver (Rx)	

Inputs	1 HDBT on RJ45 Connection
Outputs	1 HDMI connectors
Transmission up to	minimum unto 30 meter
Compliance with HDMI Standard	Supports HDMI and HDCP
Output Resolutions	Up to 1080p

11. 10-Port Audio Mixer

No of Channel	10-Channel Mixing Console
Input Port	4 Mic / 10 Line Inputs (4 mono + 3 stereo), 1 Stereo Bus, 1 AUX (incl. FX)
Output	XLR balanced outputs
Sound effects	High-grade effects: SPX with 24 programs
USB audio Function	24-bit / 192kHz 2in / 2out USB Audio functions
Phantom Power	+48V phantom power

12. 12U- Wall mount Rack

Type of Racks	Rack Enclosures
Size of Server Rack Enclosure	12U
Depth of the Rack (mm)	Up to 500
Mount Type	Wall mount
Front glass Door	Should Available
Type of glass used in front door	Transparent Toughened Glass or better
Material used for rear door	CRCA Steel or better
Secure Locks	Should Available
Cable channel in rear side for cable management	Should Available
Load Bearing Capacity (Kgs)	55 kilogram or better
PDU Power Strips	Should Available

Additional Parameters:

1. Bidders also have to integrate existing audio-conferencing setup at both location and single place all controls must require for ease of use. Both audio in and out working with existing and new items required from single PC.
2. Bidder must give solution diagram 3D/2D of quoting solution with all connections and devices placements.
3. If any item/product or accessory required during the installation for completion of project like cabling, networking, power cable, finishing etc. it will be borne by bidder and no additional payment will give.

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ACCEPTANCE LETTER

TO,

The Principal Investigator,
IDP-National Agricultural Higher Education Project
Sri Karan Narendra Agriculture University,
Jobner- Jaipur -303329

Subject: -Acceptance for supply of Components for Video Conferencing Rooms

Sir,

In reference to your purchase order no. SKNAU/Proc./2021-22/-----dated -----
2022. I/We supply Components for Video Conferencing Rooms as per specification, terms and
conditions laid in the RFQ and purchase order within stipulated period. I/We will deposit
Performance security through

Authorized Signature

Along with seal of the firm