

REQUEST FOR QUOTATIONS
Procurement of Goods under RFQ/Shopping Procedures
Procurement Notice

Purchaser: National Agricultural Higher Education Project,
I.C.A.R. Govt. of India, 5th Floor, Room No. 507,
Krishi Anusandhan Bhawan-II,
Pusa Complex, *New Delhi -110012*
Tel. No. :011-25843403
Email : diliproj.icar@nic.in
Web Site: www.nahep.icar.org.in

Contract title: Supply, installation and commissioning of Audio Video Conferencing system

RFQ No: 3(49)/2020-NAHEP

Date: 21.06.2021

Applicable Procurement Regulations Date: World Bank Guidelines January 2011,
Revised July 2014

1. The Government of India has received financing from the World Bank in various currencies towards the cost of the NAHEP Project and intends to apply part of the proceeds towards eligible payments under the contract for which this request for quotations is issued. The National Agricultural Higher Education Project, I.C.A.R., Krishi Anusandhan Bhawan-II, Pusa Complex, New Delhi -110012, invites quotations from eligible bidders for the following goods: -

Sl. No.	Brief Description of the Goods	Specifications *	Quantity (in set)	Delivery Period	Place of Delivery	Installation Requirement if any
1	Supply, installation and commissioning of Audio Video Conferencing system with 01 (one) year warranty from date of commissioning	Attached (as per form 2 – Technical specification)	01	Delivery within 30 days from date of Contract & after delivery, 30 days for installation and commission	As per para 4 below in Committee Room	Installation and commissioning

[* Where ISI certification marked goods are available in market, purchaser should generally limit the procurement to goods with those or equivalent marking only.]

2. The Bidders may submit Quotations for all items.

3. This Procurement notice includes the terms and conditions applicable to submission of quotations; criteria for qualification, evaluation, and for award of supply order(s); and relevant forms to be filled by the bidders. Implementing Agency has not issued a separate RFQ document for this purchase. The Procurement notice including the terms and conditions etc. can be downloaded free of cost from the website www.nahep.icar.org.in. In such cases the bidder would be responsible for ensuring that any addenda available in website is also downloaded and incorporated
4. Quotations shall be submitted to the address mentioned below on or before 14:30 hrs. **(Indian Standard Time)** on 05.07.2021 on all working days, duly written on the cover of envelop as **“RFQ Ref. No.3(49)/2020-NAHEP, Quotation for the supply of Audio Video Conferencing System and Last date & Time of Bid submission :”**.

Shri Dilip Roy,
Dy. Secretary (Proj.& Admn),
National Agricultural Higher Education Project, I.C.A.R.,
5th Floor, Room No. 507, Krishi Anusandhan Bhawan-II,
Pusa Complex, New Delhi -110012
Email : diliproj.icar@nic.in

The Quotations will be opened (at the same address of quotation submission) on 06.07.2021 at 15:00 hrs. Late submission of Quotations will not be considered and treated as rejected.

5. If the Purchaser's office happens to be closed on the date of opening of the Quotations as specified, the Quotations will be opened on the next working day at the same time and venue.
6. Other details can be seen in the RFQ document. The Purchaser shall not be held liable for any delays due to postal or any other reasons whatsoever. A Bidder requiring any clarification of the RFQ Document may visit the office of the Purchaser at the address mentioned at para 4 above or by email.

RFQ No.3(49)/2020-NAHEP

Date: 21.06.2021

Terms and Conditions

1. **Eligibility:** A Bidder (a) shall not participate in more than one Quotation; (b) shall not have conflict of interest as defined in the Bank's Procurement Regulations; and (c) should not have been (i) temporarily suspended or debarred by the World Bank Group in compliance with the Bank's Anti-Corruption Guidelines and its Sanctions Framework
2. **Clarifications & Amendments:** If the Purchaser receives any request for clarification of this RFQ Document, it will upload its response together with any amendment to this document, on the www.tenders.tn.gov.in portal for information of all Bidders. Bidders should check on the portal, for any amendments to the terms and conditions.
3. The Quotation shall comprise the following:
 - (a) Letter of Quotation;
 - (b) Delivery Period Offered: List of Goods & Related Services indicating Bidder's offered delivery period in the prescribed Form;
 - (c) Technical Specifications: confirmation that the offered Goods and Related Services conform to the required specifications;
 - (d) Evidence in accordance with Clause 6 establishing Bidder's qualifications to perform the contract, if its quotation is accepted;
 - (e) Performance Statement¹ of supplies of similar goods made during the last 3 years, in the prescribed Format;
 - (f) Complete address and contact details of the Bidder having the following information:
 - Name of Firm
 - Address for communication
 - Telephone No(s): Office
 - Mobile No.
 - Facsimile (FAX) No.
 - Electronic Mail Identification (E-mail ID)
 - (g) Price Schedule (using the Schedule with the RFQ document)

4. Quotation Prices

- (a) The contract shall be for the full quantity for all items or for full quantity of each item, as specified in the Price Quotation Form.
- (b) All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
- (c) GST and any other taxes, which will be payable on the goods at the time of invoicing in connection with the sale, shall be shown separately. If these are only

¹ Purchaser may delete this requirement in case of simple and regular off the shelf items.

stated to be extra, such quotations a reliable to be rejected. Wherever these taxes are not shown, these will be assumed to have been included in the quoted price.

- (d) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - (e) The Prices shall be quoted in Indian Rupees only.
5. **Conformity of Goods:** Bidder shall furnish, documentary evidence that the Goods conform to the technical specifications and standards, as relevant for example catalogue, warranty/ guarantee etc. of the manufacturer.
6. **Qualification of the Bidder:**
- (a) Bidder should have supplied goods of similar type (& capacity) up to at least 100% quantity in any one of last 3 years. Details of supplies made during the last 3 years shall be submitted in the specified Proforma. At least 40 % of the quantity in case of equipment offered for supply should have been in successful operation for at least one year as on date of quotation opening.
 - (b) Supplies for any particular item in each quotation should be from one manufacturer only. Quotations offering supplies from different manufacturers for the same item in the quotation will be treated as non-responsive.
7. **Validity of Quotation:** Quotation shall remain valid for a period not less than 30 days after the deadline date specified for submission.
8. **Signing of Quotations:** The name and position held by each person signing the quotation and related documents must be typed or printed below the signature.
9. **Quotation Submission:** The complete Quotation as mentioned in para 3 above, shall be filled, signed and submitted along with the Price Schedules that shall be furnished using the Forms available in this document.
10. **Opening and Evaluation of Quotations:** The Quotations will be opened and Brief of quotation opened will be uploaded on www.nahep.icar.org.in. The evaluation of the quotation are.
- (a) The Purchaser shall examine the quotation to determine whether the quotation, a) has been properly signed (Clause 8); b) meets the eligibility criteria (Clause 1); (c) conforms to all terms, conditions, technical specifications, warranty/guarantee etc.; and (d) the bidder has accepted the delivery schedule (Purchaser's Requirement Form 1).
 - (b) Only Quotations that are substantially responsive to the RFQ document and meet all Qualification Criteria shall qualify.
 - (c) The evaluation shall be based on the total price of Goods and Related services at project site including GST and any other taxes, which will be payable on the

finished goods at the time of invoicing.

11. **Award of contract:** The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

- (a) Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
- (b) The bidder whose quotation is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the supply order (sample form attached).
- (c) 100% Payment shall be made within 60 days after delivery, installation and commissioning of the goods and acceptance certificate issued by the purchaser. Payment of GST and other taxes payable for the goods at the time of invoicing, although already included in the total cost, will be at actuals or the rate/amount of these taxes specified in the supply order, whichever is lower.
- (d) Warranty/Guarantee: 01 (one) year from the date of commissioning shall be applicable to the supplied goods.

Quotation Forms

Letter of Quotation

The Bidder must prepare the Letter of Quotation on stationery with its letterhead clearly showing the Bidder's complete name and address. The italicized text is for Bidder's guidance in preparing these forms and shall be deleted from the final products.

RFQ No.: *[insert identification]*

Our Reference: No..... Dated.....

To:

(Purchaser's name and address)

Subject: Supply of.....

Sir,

1. We, the undersigned, hereby submit our Quotation. In submitting our Quotation, we make the following declarations:

- (a) **No reservations:** We have examined and have no reservations to the RFQ Document;
- (b) **Conformity:** We offer to supply in conformity with the RFQ Document and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services *[insert a brief description of the Goods and Related Services];*
- (c) The total price of our Quotation, including any unconditional discounts offered is:
Total price of the Quotation ***[insert the total price of the quotation including GST and any other taxes, which will be payable on the finished goods, in words and figures];***
- (d) **Commissions, gratuities and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the Bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity. If none has been paid or is to be paid, indicate "none."]*
- (e) **Quotation Validity Period:** Our Quotation shall be valid for the period of 30 days, from the deadline fixed for the Quotation submission;
- (f) **Eligibility:** We meet the eligibility requirements and have no conflict of interest, we are not participating in more than one quotation in this bidding process, and we have not been temporarily suspended or debarred by the World Bank.
- (e) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of corrupt, fraudulent, collusive, coercive, or obstructive practices.

Yours faithfully,

Authorized Signature

Name & Title of Signatory _____

In the capacity of *[insert legal capacity of person signing the Letter of Quotation]*

Name of Bidder _____

Address _____

Dated on _____ day of _____, _____ *[insert date of signing]*

FORMAT OF QUOTATION

Sl. No.	Description of Goods	Specifications	Qty.	Unit	Quoted Unit Rate ² at destination in Rs.	³ GST and similar other taxes applicable on finished Goods/ Services	*Total Price per line item at Destination - inclusive of discounts, all taxes and duties	
							In Figures	In Words
1	Supply, installation and commissioning of Audio Video Conferencing system with 01 (one) year warranty from date of commissioning	Attached (as per form 2 – Technical specification)	01	Set				
TOTAL including all taxes and duties								

Note: Evaluation shall be done for all items together

**Payment of GST and other taxes payable for the goods at the time of invoicing, although already included in the total cost, will be at actuals or the rate/amount of these taxes specified in the supply order, whichever is lower.*

We agree to supply the above goods in accordance with the technical specifications for a total contract price (including all taxes and duties) of Rs.(Amount in figures) (Rs... amount in words) within the period specified in the Request for Quotations.

We also confirm that the normal commercial warranty/guarantee ofmonths shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf has engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices (as defined in the prevailing World Bank’s sanctions procedures) in competing for or in performing the Contract.

Signature of Bidder

² Any unconditional discounts if offered, shall be specified in this column along with the unit rates.

³ Indicate each applicable tax separately.

PROFORMA FOR PERFORMANCE STATEMENT*

Proforma for Performance Statement (for a period of last 3 years)

RFQ No. _____ Date of opening _____ Time _____ Hours

Name of the Bidder _____

<u>Order placed by (full address of Purchaser)</u>	<u>Order No. and date</u>	<u>Description and quantity of ordered Goods/ equipment</u>	<u>Value of order</u>	<u>Date of completion of delivery</u>		<u>In case of Equipment, state if the equipment been satisfactorily functioning? (Attach a certificate from the Purchaser/Consignee)</u>
				As per contract	Actual	
1	2	3	4	5	6	8

*This proforma shall be deleted if requirement of Performance Statement is deleted in Clause 3.

Signature and seal of the Bidder

Purchaser's Requirement

LIST OF GOODS & RELATED SERVICES AND DELIVERY PERIOD

Line Item No.	Description of Goods and Related Services	Quantity	Physical unit	Final Destination (Project site)	Desired Delivery Period for completion of supply from the date of the Contract	Bidder's offered Delivery Period <i>[to be provided by the Bidder]</i>
1	2	3	4	5	6	7
01	Supply, installation and commissioning of Audio Video Conferencing system with 01 (One) year warranty from date of commissioning	01	Set	NAHEP, I.C.A.R, 5 th Floor, KAB-II, Pusa Complex, N.D.-110012	Delivery within 30 days from date of Contract & after delivery, 30 days for installation and commission	

Signature and seal of the Bidder

Note:

1. All details should be filled in by Purchaser except for Colum 7.
2. Delivery Period offered by the Bidder should be filled in Column 7 by the Bidder.

TECHNICAL SPECIFICATIONS

for supply, establishment and operationalization of the Video Conferencing Solution at Committee Room of the PIU NAHEP

Technical Specifications for supply, establishment and operationalization of the Video Conferencing Solution at Committee Room of the PIU NAHEP

General Description:

The RFQ is for the supply, establishment and operationalization of the video conferencing solution at Committee Room of the PIU NAHEP at 5th floor of KAB-II. The system should have complete Audio/Video Solution that includes Interactive Flat Panel with remote and PTZ Camera with remote, Wireless Mike System, Look At Me/Audio Tracking feature. The Camera should automatically focus to the person whose mike is switched on/currently speaking during the video conferencing. The solution should have unique feature Look at me/ Audio Tracking. Look at me feature make the camera focus on the person who is currently speaking. This way every individual participant/speaker/attenders can be shown captured by camera unlike in general format, where all are shown in one go. The solution should cover all the desired equipment, cables, connectors, switches etc. of high quality so that noise should be minimized and provide high quality of video conferencing experience. Major equipment that must be included in the solution is provided below. However, the firm should supply all the required equipment to operationalize the video conferencing solution.

Interactive Flat Panel

Technology : TFT LCD with DLED Backlit; Display Size (diagonal) :86" or higher; Aspect Ratio :16:09; Resolution :3840 x 2160 4K Ultra HD or higher; Flicker Free: Should have Blue Light Filter ; Static Contrast Ratio1200:1 (typ) or higher; Brightness :350 nits or higher; **Backlight Life:**40,000 hours minimum; Display Colour:1.07B colors or higher; Input Ports - Minimum HDMI 2.0 x 3, VGA x 1, Audio x 1, CVBS (AV), RS 232 x 1, PC Slot : Slot In For PC Built-in x 1; Wi-Fi Module Slot Built-in x1; or more; Output Ports :HDMI x 1; Audio (Earphone out) x 1; SPIDF x 1; LAN Or more; LAN : RJ 45 x 1 or more; USB : 3.0 Type A x 3; 2.0 Type A x 3, 2.0 Type B (For Touch) x 2; Speakers : 10W x 2 and 15 W Subwoofer or higher; Touch-Type: Should be IR Recognition; TouchResolution:32767x32767or higher; Touch Point: 20 Points or higher. Writing: 10 Points or higher; Response Time: maximum:10ms; Embedded Player CPU Inbuilt-AndroidVersion:7.0 or higher; CPU: ARM Dual Core Cortex A72 1.2G Hz or higher; Memory: 4GB DDR 4 or higher; Storage: 32GB eMMC or higher, Smart USB Port: The USB should detect and follow the current video input facilitating the user to use front USB ports while attaching their own device. Networking: Giga LAN; Anti Scratch – Anti Glare with 7H scratch resistant and Anti- Glare or higher. Camera Port: To facilitate the user not to unplug and use the same camera port while switching between Slot-in-PC or Android.

Casting in Android: It should allow- broadcasting of IFP Screen from 1 to many and should also allow devices (Windows, Chrome, MAC) to broadcast their content on the screen. Minimum 4 devices and their content should be broadcasted simultaneously on IFP.

File sharing / sending with at IFP: File can be sent to Host from any location. Save Option: Should have Built-in save option for the annotation and work done directly to Google Drive and One Drive.

Video Conferencing Meeting Support: Should have Built in Zoom Video Conferencing , GoTo meeting etc. as an integral part of IFP.

QR Code Scan: Should have File download feature in smart phone just by scanning the QR code.

Speech to text: It should have built-in facility to convert instantly speech of the host to text. Sign In Options : It should have sign in option as by inserting User Id and password and just by scanning the QR code by smart phone of the user;

Email : Facility to email the whole annotation file directly without saving the file.;

Split Screen: Built-in facility to split the screen in 2, 4 or max.6 for simultaneous function / working on various application;

Annotation/Writing; To write on a Blank screen and on any application – PPT, Word, Excel, PDT, Web Browser, Video etc.; Wireless Content Sharing ; The Panel should allow user to share / mirror the content of Laptop/Desktop (Mac, Windows) and mobile devices (iOS, Android) wirelessly;

Wireless Presentation should allow user to access their Laptop / Desktop through touch Panel;

Video Conferencing : Support USB based PTZ cameras allowing Software based. Video Conferencing; Built-in PC Slot : Should have slot for the built-in PC .

Dual Writing: It should automatically sense the thickness of the tip of the pen and accordingly adjust the thickness of the width of the writing. It should also have the pen with Dual thickness with 3mm and 8 mm diameter pen tips.

Reading of text: It should have the facility to read out the whole text either in English or even when converted in Hindi.

Ease of use and user friendly: It should have Google, icon within the IFP software itself for Android as well for PC mode. So, it should be helpful in opening directly without minimizing or maximizing applications. It should allow each user to customized the Google as per their usage and should be saved as individual preference.

Multiple users can sign in and customize as per their preference and style. It should have Microsoft application built-in the IFP software for Android and in the PC mode.

Certification: BIS Certificate of the Model Quoted Software: The required software and the IFP have to be from the single OEM. The Software should have been the developed and owned by the OEM.

It should have Microsoft application built-in the software for Android and in the PC mode. Built-in PC and Floor Stand should also be made available.

Chairman Interactive Monitor

Size: 16"W (15.6" Viewable) LCD monitor with 10-point multi-touch functionality,; Panel Technology: TN Technology, a-si, TFT Active Matrix LCD; Resolution: HD 1366 x 768; Display Area: 344.23mm(H)x193.54mm (V); Aspect Ratio: 16:9; Brightness: 190 cd/m2 (Typ); Contrast Ratio: 500:1 (Typ); Dynamic Contrast Ratio: 10,000,000:1; Viewing Angles: 90 degrees / 60 degrees (Typ); Response Time: 12ms; Backlight: 1 LED light bar; Backlight Life: 15,000 Hrs (Min); Colours: 262K colours (6-bit); Colour Gamut: 45% of NTSC (Typ); Panel Surface: ≥7H, Haze < 2%; INPUT SIGNAL: Frequency: Fh = 30 ~ 61KHz ; Fv= 56 ~ 75Hz; Sync: Separate Sync, TMDS; COMPATIBILITY: PC: Windows 7/8/10 tested; Mac®: Display: Power Mac tested, Touch Module: iOS not support; CONNECTOR: Input: DB -15 x 1; HDMI x 1 (v1.4 compatible); Audio in x1 (3.5mm plug); AUDIO: Speaker: 1W x 2; USB: Upstream: Type B x 1; Power: 5.5 x 2.1 x 11 mm DC connector; Voltage: AC 100-240V; (Universal); 50/60Hz; Consumption: 5.5W; Optimize: 4.9W; Conserve: 4.3W; ERGONOMICS: Tilt: 15 ~ 50 degrees; Eye Care: Blue light

USB based PTZ Camera for Video Conferencing

Zoom: Minimum 20X Optical Zoom; Iris: f=5.5~110mm; AV: F1.6 ~ F3.5; Viewing Angle:3.3° (tele) -54.7° Wide; Sensor:1 /2.8inch or better CMOS sensor; Pixels:2.07

21/5/17

Sharma

NSR

Mega Pixel or higher ;
Video Format: SDI Video Formats: 1080P60/50/30/25/59.94/29.97 ; 1080I60/50/59.94. 720P / 50/ 30 /25/59.94/29.97;
Minimum illumination:0.5 Lux ;
DNR:2D & 3D DNR;
White Balance :Auto/Manual/One push 3000K / 3500K / 4000K / 4500K / 5000K / 5500K / 6000K / 6500K /7000K etc. ;
Electronic Shutter : Auto/Manual;
Focus : Should be Auto/Manual/One Push;
BLC:ON/Off;
WDR : Off/Dynamic level adjustment;
Video Adjustment: Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve;
SNR :>55 dB or better;
Interface:: USB 2.0 or later, LAN, RS232; Video Compression Format:H.265/H.264 or later;
Control Protocol: Should support VISCA/PELCO-D/Pelco-P etc. ;
Baud Rate : Should support 11520 / 9600 / 4800 / 2400 ;
LAN Port : Yes; Network Protocol: RTSP/RTMP/ ONVIF, GB/T28181 etc. ;
Pan Rotation: Minimum $\pm 150^\circ$; Tilt Rotation :- $30^\circ \sim +90^\circ$ or more ; Pan Control Speed: 0.1~60°/second or higher ; Tilt Control Speed : 0.1~30°/second or higher;
Preset Speed: Pan: 60°/second or higher, Tilt 30°/second or more;Preset Number: Minimum 255 preset

Digital Signal Processor

Processor ADI SHARC 21489 chip or equivalent, the highest operating frequency can reach 400MHZ. Sampling rate/quantization 32KHZ/24Bit or higher.
Number of analog inputs: Minimum 12 switchable balanced microphone/line inputs, 3PIN Phoenix terminal physical interface.
Number of analog outputs : Minimum 8 balanced line outputs, 3PIN Phoenix terminal physical interface. Input processing module microphone preamplifier, phantom power supply, signal generator, adaptive echo cancellation (AEC), noise suppression (ANS), automatic mixing, Phantom power supply +48V.
Maximum input level 24dBu. Maximum output level 24dBu.
Input common mode rejection@60Hz 80dB.
Input impedance 9.4k Ω balanced.
Dynamic range (analog) 113dB, input to output.
Noise floor (A-weighting-analog) -8 9dBu.
Channel isolation @1kHz 108dB.
Frequency response 20 ~ 20kHz (± 0.2 dB).
Harmonic distortion (THD+N) $\leq 0.003\%$ @1kHz, +4dBu.
Output impedance 102 Ω .
System delay <3ms.
GPIO 8 channels, 3PIN Phoenix terminal physical interface.
RS232 1 way, 3PIN Phoenix terminal physical interface.
RS485 1 road, 3PIN Phoenix terminal physical interface.

Microphone

Wireless conference system. 1 quad receiver + 4 wireless table microphones. Conference System

2/19/14

NRB

Amey

Band: UHF (500-900 MHz). T.H.D.: 0.005 %. Modulation type: FM. Frequency response: 20 Hz - 18 kHz (+3 dB). SNR: > 100 dB. Harmonic distortion: > 0.8%. Effective distance: 50-80 m. Receiver System: Quartz oscillator circuit and constant frequency. Sensitivity: 10 uV/ 40 dB EMF. De-Emphasis: 50 mS. Audio level output: 0 - 0.35 V p.p. Output impedance: 5 kohm. Microphone Type: Condenser. Frequency response: 60 Hz - 16 kHz. SNR: > 98 dB. Channel rejection: >80 dB v. Harmonic distortion: > 5 %. Microphone sensitivity: - 47 ±3 dB @ 1kHz. Audio level output: 0 a ±400 mv (indiv.) 0 a ±200 mv (mix).

USB Based Microphone

It should have technology that should allows comfortable remote conversations immaterial of the environment. It should have Far Field Noise Reduction and should picks up participants conversations while reducing the distracting noise around participants. It should have Self-silence feature where in microphone automatically gets mute while meeting participants are not speaking. It should have Self-volume balancer feature where in it automatically adjusts speaker volume properly to fit surrounding ambient noise levels. It should have High-performance adaptive echo canceller and dereverberation for clear conversations. It should Automatically measures the surrounding environment to optimize acoustic settings. It should have High-quality sound collection with speaker tracking function and automatic gain control using three or more high-performance microphones. It should have 3 or more unidirectional microphones with human voice activity detection to clearly pick up speech, not noise. It should be convenient, USB-powered, rich speaker volume and super wide band audio enabling stress-free communication.

It should have the ability to daisy chain at least 2 units for medium-sized space. It should be Plug-and-play connectivity with driver-less USB, Bluetooth, NFC and audio in/out connection interfaces should allow options for true flexibility.

Interfaces: USB 2.0 Full Speed (Mini-B) or later, Bluetooth, NFC (Near Field Communication), EXT IN/OUT (stereo mini plug);

Connectable Devices:

USB: Computer running Windows or macOS; Bluetooth: Smartphone running Android or iOS; Supported OS Windows 10 (32bit/64bit), Windows 8.1 (32bit/64bit), Windows 7 (32bit/64bit), macOS macOS 10.12 or higher;

Supported profiles: HFP (1.6), A2DP, Supported codec: CVSD, SBC, mSBC,

Wireless output: Class2, Maximum communication distance: 10 m (32.8 ft), Radio frequency (operational frequency): 2,402 to 2,480 MHz, Maximum output power (EIRP): 4.0 dBm (2.5 mW); **NFC Compatible devices:** NFC-compatible Android devices; Microphone Unidirectional microphones x 3, 360° coverage, Speaker Full-range speaker x 1, Volume Momentary maximum: 91 dB (0.5 m), Frequency Bandwidth For sound pickup: 100 Hz to 20,000 Hz, For playback: 190 Hz to 20,000 Hz; Signal Processing: Adaptive echo canceller, Noise reduction, Automatic tracking, Automatic gain control, Dereverberation, SoundCap; Mode- Standard Mode: Pick-up the sound in Small-Medium conference rooms, SoundCap Mode: Automatically mute distracting noise in open workspace and deliver only the sound from the pick-up range (radius of 1 m) 2 units daisy chain connection is available on Standard Mode. Higher specification than the provided is also acceptable.

Amplifier

Mixer Amplifier Output power 2x100W @ 8 ohm / 200W (70/100V Line), Audio inputs - 2 LINE (unbalanced), 1 MIC, 1 RJ45 (RS485 commands), Bluetooth connectivity, Controllable through Android Tab or iPad, THD + N : @1 kHz, 15W, 8Ohm/16Ohm <= 0.1%, 1 kHz, 30W,

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<p>70V/100V <= 0.2%, Frequency response 20 Hz - 20 kHz 0dB - 0.5dB, Anti-feedback presets in MIC input. Higher specification than the provided is also acceptable.</p>
<p>Ceiling Speakers</p> <p>Type: Two way ceiling speakers., Elements: 5" woofer + 0.5" TWT., Power taps (100 V line): 20 W (500 ohm) / 10 W (1 kohm) / 5 W (2kohm) / 2.5 W (4 kohm), Power taps (70 V line): 20 W (245 ohm) / 10 W (490 ohm) / 5 W (980 ohm) / 2.5 W (1k96 ohm) / 1.25 W (3k92 ohm), Power taps (low impedance): 20 W at 8 ohm, Frequency response: 100 Hz - 20 kHz.. Sensitivity (1W/1m): 88 dB., Max SPL: 101 dB (Six numbers). The solution may provide more no. of speakers and speakers with higher specifications as listed above are also acceptable.</p>
<p>UPS (1 KVA)</p> <p>Compact Design Line Interactive UPS with Load Capacity of minimum 660Watts / 1100VA Five 6A, 2/3 Pin Indian Power Socket Automatic Voltage Regulator (AVR) with Wide Input Voltage Range 145-290V 2x7.2Ah Battery provides 30 - 90 min. Back-Up time as per the load Generator Compatible Compatible with low power loads e.g. Wi-Fi router, DSL modem Cold start capability allows the load to power on just on battery Stays quiet during a changeover from mains to generator</p>
<p>Ceiling Speaker</p> <p>Type: Two way ceiling speakers., Elements: 5" woofer + 0.5" TWT., Power taps (100 V line): 20 W (500 ohm) / 10 W (1 kohm) / 5 W (2kohm) / 2.5 W (4 kohm), Power taps (70 V line): 20 W (245 ohm) / 10 W (490 ohm) / 5 W (980 ohm) / 2.5 W (1k96 ohm) / 1.25 W (3k92 ohm), Power taps (low impedance): 20 W at 8 ohm, Frequency response: 100 Hz - 20 kHz.. Sensitivity (1W/1m): 88 dB., Max SPL: 101 dB (Six numbers)</p>
<p>Rack</p> <p>Size: 12U With Trolley</p>

2-19-11

NRB

Atul

ATTACHMENT

OFFICE OF
.....

PURCHASE/SUPPLY ORDER

To:

M/s
.....
.....
.....
.....

Dear Sirs,

Sub: Supply of
.....

Ref:Request for Quotation no..... dated

1. Your quotation no.....of(Date) for the supply of **has been accepted. You are requested to** supply the following goods/equipment at the rates quoted by you and specified against each as per the specifications and terms & conditions specified hereunder:

Serial. No	Brief description of goods/ equipment	Specifications	Quantity to be supplied	Unit Rate (Rs.)	GST*	Total Price (Rs.) including all taxes and duties
1						
2						
3						
4						
5						
			Total			

*GST and similar other taxes and duties applicable on finished goods. Indicate each applicable tax separately.

2. Delivery Period: days from the date of issue of this supply order.
3. Place of delivery

4. Consignee Address:
5. GST and other taxes and duties, if any will be reimbursed at actual rates paid on the date of supplier the rate/amount shown in 1. above, whichever is lower.
6. Standard Manufactures commercial Warranty/Guarantee shall be..... months from the date of delivery and acceptance.
7. Payment shall be made on delivery or within 7 days of delivery; and acceptance of the goods/equipment.
8. Other terms and conditions are as under:
.....
.....

(Purchaser)

Date:

Place:

Name:

Designation:.....

Modify as appropriate for individual cases