



University of Ruhuna  
Wellamadama  
Matara

28.12.2021

The Manager,  
.....

**Invitation for Bids (IFB)**

**Contract: Supply, Delivery, Installation, Commissioning and Testing of Sound System & Camera for Department of Management & Finance, University of Ruhuna**

**IFB No - AHEAD/RA2/ELTA-ELSE/RUH/MGT/GOODS/2021/NS-144-II**

The Chairman, Department Procurement Committee on behalf of the University of Ruhuna invites sealed bid from you for **Supply, Delivery, Installation, Commissioning and Testing of Sound System & Camera for Faculty of Management & Finance, University of Ruhuna** indicated in the annexed bid document.

01. Bidding will be conducted through National Shopping method of procurement.
02. You may obtain further information if any from the **Deputy Director- Procurement (AHEAD Project) Supplies Branch, University of Ruhuna, Wellamadama, Matara.** (T.P 041- 2227027/ Fax No. 041 – 2227027)
03. Bids must be delivered by mail in sealed envelopes addressed to **Director/OTS, AHEAD Project-OTS Office, University of Ruhuna, Wellamadama, Matara** before **02.00 p.m. on January 11, 2022.** Late bids will be rejected.
04. This contract is subject to,
  - Providing of performance security of 10% of the total contract price in accordance with the format attached and issued with this in favor of the Vice Chancellor, University of Ruhuna.
  - Entering in to the formal agreement with the University of Ruhuna.

  
28/12/2021  
.....

Deputy Director - Procurements,  
University of Ruhuna,  
Wellamadama,  
Matara.

UNIVERSITY OF RUHUNA  
DEPARTMENT OF PROCUREMENT  
SUPPLIES BRANCH  
WELLAMADAMA, MATARA



**UNIVERSITY OF RUHUNA**

**PROCUREMENT OF GOODS UNDER  
NATIONAL SHOPPING PROCEDURES**

**INVITATION FOR QUOTATIONS  
FOR**

**Supply, Delivery, Installation, Commissioning and Testing of  
Sound System & Camera  
for Faculty of Management & Finance, University of Ruhuna**

**IFB No: AHEAD/RA2/ELTA-ELSE/RUH/MGT/GOODS/2021/NS-144-II**

*Dr. R. C. Ratnasarakchi  
Director - Procurement  
Open Procurement System Unit  
AHEAD Project  
University of Ruhuna  
Wellamadama, Matara*

## Section I. Instructions to Vendors (ITV)

| <b>A: General</b>                                       |   |
|---|---|
| <b>1. Scope of Bid</b>                                  | 1.1 The Purchaser named in the Data Sheet invites you to submit a quotation for the supply of Goods as specified in Section III Schedule of Requirements.   |
| <b>B: Contents of Documents</b>                         |   |
| <b>2. Contents of Documents</b>                         | <p>2.1 The documents consist of the Sections indicated below.</p> <ul style="list-style-type: none"> <li>• Section I. Instructions to Vendors (ITV)</li> <li>• Section II. Data Sheet</li> <li>• Section III. Schedule of Requirements</li> <li>• Section IV. Technical Specifications &amp; Compliance with Specifications with price schedule</li> <li>• Section V. Quotation submission Form(s)</li> </ul>   |
| <b>C: Preparation of Quotation</b>                      |   |
| <b>3. Documents Comprising your Quotation</b>           | <p>3.1 The Quotation shall comprise the following:</p> <ul style="list-style-type: none"> <li>(a) Quotation Submission Form and the Price Schedules;</li> <li>(b) Technical Specifications &amp; Compliance with Specifications</li> </ul>  |
| <b>4. Quotation Submission Form and Price Schedules</b> | <p>4.1 The vendor shall submit the Quotation Submission Form using the form furnished in Section V. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.</p> <p>4.2 <b>Alternative offers shall not be considered. The vendors are advised not to quote different options for the same item but furnish the most competitive among the options available to the bidder.</b></p> |
| <b>5. Prices and Discounts</b>                          | <p>5.1 Unless specifically stated in Data Sheet, all items must be priced separately in the Price Schedules.</p> <p>5.2 The price to be quoted in the Quotation Submission Form shall be the total price of the Quotation, including any discounts offered.</p>   |

M. A. C. Kuparadihi  
 Deputy Director, Government  
 Open Market, Colombo  
 11, Leeward  
 Ministry of Mahinda  
 Rajapaksa, Sri Lanka

|  |  |
|--|--|
|  | <p>5.3 The applicable VAT shall be indicated separately.</p> <p>5.4 Prices quoted by the vendor shall be fixed during the vendor's performance of the Contract and not subject to variation on any account. A Quotation submitted with adjustable price shall be treated as nonresponsive and may be rejected.</p>   |
| <b>6. Currency</b>   | 6.1 The vendors shall quote only in Sri Lanka Rupees.  |
| <b>7. Documents to Establish the Conformity of the Goods</b> | <p>7.1 The vendor shall furnish as part of its quotation the documentary evidence that the Goods conform to the technical specifications and standards specified in Section IV, "Technical Specifications &amp; Compliance with Specifications".</p> <p>7.2 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods, demonstrating substantial responsiveness of the Goods to the technical specifications, and if applicable, a statement of deviations and exceptions to the provisions of the Technical Specifications given.</p> <p>7.3 If stated in the Data Sheet the vendor shall submit a certificate from the manufacturer to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in Sri Lanka.</p> |
| <b>8. Period of Validity of quotation</b>                    | 8.1 Quotations shall remain valid for the period of <b>sixty (60)</b> days after the quotation submission deadline date.   |
| <b>9. Format and Signing of Quotation</b>                    | 9.1 The quotation shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the vendor.  |
| <b>D: Submission and Opening of Quotation</b>                |  |
| <b>10. Submission of Quotation</b>                           | <p>10.1 Vendors may submit their quotations by Registered post in sealed envelopes addressed to the Purchaser and bear the specific identification of the quotation number.</p> <p>10.2 If the quotation is not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the quotation.</p>   |
| <b>11. Deadline for Submission of Quotation</b>              | 11.1 Quotation must be received by the Purchaser at the address set out in Section II, "Data Sheet", and not later than the date and time as specified in the Data Sheet.  |

|   |  |
|---|--|
| <b>12. Late Quotations</b>                        | 12.1 The Purchaser shall reject any quotation that arrives after the deadline for submission of quotations, in accordance with ITV Clause 11.1 above.  |
| <b>13. Opening of Quotations</b>                  | 13.1 The Purchaser shall conduct the opening of quotation in public at the address, date and time specified in the Data Sheet.<br>13.2 A representative of the bidders may be present and mark his attendance.   |
| <b>E: Evaluation and Comparison of Quotations</b> |  |
| <b>14. Clarifications</b>                         | 14.1 To assist in the examination, evaluation and comparison of the quotations, the Purchaser may, at its discretion, ask any vendor for a clarification of his quotation. Any clarification submitted by a vendor in respect to his quotation which is not in response to a request by the Purchaser shall not be considered.<br>14.2 The Purchaser's request for clarification and the response shall be in writing.   |
| <b>15. Responsiveness of Quotations</b>           | 15.1 The Purchaser will determine the responsiveness of the quotation to the documents based on the contents of the quotation received.<br>15.2 If a quotation is evaluated as not substantially responsive to the documents issued, it may be rejected by the Purchaser.  |
| <b>16. Evaluation of quotations</b>               | 16.1 The Purchaser shall evaluate each quotation that has been determined, to be substantially responsive.<br>16.2 To evaluate a quotation, the Purchaser may consider the following: (a)<br>the Price as quoted;<br>(b) price adjustment for correction of arithmetical errors;<br>(c) price adjustment due to discounts offered.<br>16.3 The Purchaser's evaluation of a quotation may require the consideration of other factors, in addition to the Price quoted if stated in Section II, Data Sheet. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods. |

11/11/2011 10:00:00 AM  
 11/11/2011 10:00:00 AM

|  |   |
|--|---|
| <p><b>17. Purchaser's Right to Accept any Quotation, and to Reject any or all Quotations</b></p> | <p>17.1 The Purchaser reserves the right to accept or reject any quotation, and to annul the process and reject all quotations at any time prior to acceptance, without thereby incurring any liability to bidders.</p> |
|--|---|

| <p align="center"><b>F: Award of Contract</b></p> |   |
|---|---|
| <p><b>18. Acceptance of the Quotation</b></p>     | <p>18.1 The Purchaser will accept the quotation of the vendor whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the documents issued.</p>   |
| <p><b>19. Notification of acceptance</b></p>      | <p>19.1 Prior to the expiration of the period of validity of quotation, the Purchaser will notify the successful vendor, in writing that his quotation has been accepted.</p>   |
| <p><b>20. Signing of Contract</b></p>             | <p>20.1 Within (14) days after notification, the Purchaser shall complete the Agreement, and in form the successful Bidder have to sign it.<br/>20.2 Within fourteen (14) days of receipt of such information, the successful Bidder shall sign the Agreement.</p>  |
| <p><b>21. Performance Security.</b></p>           | <p>21.1 Within fourteen (14) days of the receipt of notification of award from the Purchaser, the successful Bidder is required furnish the Performance Security in accordance with the CC, using for that purpose the Performance Security Form included in Section VII contract forms, The Employer shall promptly notify the name of the winning Bidder to each unsuccessful Bidder and discharge the Bid Security of the unsuccessful bidders.<br/>21.2 Failure of the successful Bidder to submit the above mentioned Performance Security or sign the contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or execution of the Bid-Securing Declaration. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder, whose offer is substantially responsive and is determined by the purchaser to be qualified to perform the contract satisfactorily.</p> |

The information on this page is derived from the  
 original document and is not intended to be a  
 substitute for the original document.  
 If you have any questions, please contact the  
 original document provider.  
 Original document provider:  
 The National Archives and Records Administration  
 8601 Adelphi Road  
 College Park, MD 20740-6001  
 (301) 837-1500  
 www.archives.gov

## Section II: Data Sheet

|                          |   |
|--------------------------|---|
| ITV Clause Reference     |   |
| 1.1                      | The Purchaser is: <b>Vice Chancellor</b><br>Address : University of Ruhuna, Wellamadama Matara.   |
| 5.1                      | If the bidder is allowed to quote for lesser number of items than the total number of items specified, indicate the details.  |
| 7.3                      | Manufacturer's Authorization is required.   |
| 11.1                     | Address for submission of quotations is<br><b>Director/ OTS, AHEAD Project, University of Ruhuna, Wellamadama, Matara.</b><br>Deadline for submission of quotations is at 2.00 P.M. on January 11, 2022.  |
| 13                       | The Quotations shall be opened at the following address:<br><b>AHEAD PROJECT, OTS-Office, University of Ruhuna, Wellamadama, Matara.</b>  |
| 16                       | Other factors that will be considered for evaluation are (List and describe the methodology):   |
| <b>Additional Clause</b> |   |
| 17. Payment              | Payment shall be made within eight weeks after receiving the invoice and other required documents to the Office for each item supplied.   |
| 19. Liquidated Damages   | The supplier should deliver the items within the delivery period stipulated in the schedule of requirements. The supplier should make payment to the purchaser for <b>each week of delay in delivery, at the rate of 0.5% of the contract sum per each week of delay, up to a maximum of 10% of the contract sum.</b> |
| 21. Performance Security | If required, the supplier should forward performance security of 10% of the total contract price. This should be issued in favor the Vice Chancellor, university of Ruhuna, valid for 365 days from the date of acceptance of the order.  |

Dr. B. C. Mahipalshahi  
 Director/ OTS - AHEAD Project  
 Office: AHEAD Project, OTS-Office  
 University of Ruhuna  
 Wellamadama, Matara

## Section III: Schedule of Requirements

- Note:
1. Bidders a) May quote whole item.
  2. Evaluation will be based on: a) separately.

| Item No. | Brief Description of the Goods | Specification and Requirements | Quantity | Delivery Period | Bidder's offered Delivery Date |
|----------|--------------------------------|--------------------------------|----------|-----------------|--------------------------------|
| 01       | Sound System – Type I          | Annexure I                     | 02       | 2 weeks         |                                |
| 02       | Sound System – Type II         | Annexure II                    | 02       | 2 weeks         |                                |
| 03       | Portable Sound System          | Annexure III                   | 02       | 2 weeks         |                                |
| 04       | 4K Integrated PTZ Camera       | Annexure III                   | 02       | 2 weeks         |                                |

**Place of Delivery:** Faculty of Management & Finance, University of Ruhuna, Wellamadama, Matara.

University of Ruhuna  
 Faculty of Management & Finance  
 Department of Management  
 Operations, Wellamadama, Matara  
 201601

## Section V

# Quotation Submission Form

[The Vendor shall fill in this Form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions will be accepted.]

Date:

To:.....

[insert complete name of Purchaser]

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the document issued;
- (b) We offer to supply in conformity with the documents issued and in accordance with the Delivery Schedules specified in the Schedule of Requirements, the following Goods [insert a brief description of the Goods];
- (c) The total price of our quotation including any discounts offered is: [insert the total quoted price in words and in figures];
- (d) Our quotation shall be valid for the period of time specified in ITV Sub-Clause 8.1, from the date fixed for the quotation submission deadline in accordance with ITV Sub-Clause 11.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (e) We understand that this quotation, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us.
- (f) We understand that you are not bound to accept the lowest evaluated quotation or any other quotation that you may receive.

Signed:.....

[insert signature of Person whose name and capacity are shown]

Name: .....

[insert complete name of person signing the Bid Submission Form]

Dated:

*(Faint stamp text, likely from the Ministry of Education, Youth and Sports, Maldives)*

## PRICE SCHEDULE –IV

**Contract: Supply, Delivery, Installation, Commissioning and Testing of Sound System & Camera for Faculty of Management & Finance, University of Ruhuna.**

**IFB No - AHEAD/RA2/ELTA-ELSE/RUH/MGT/GOODS/2021/NS-144-II**

| Item No. | Description              | Qty. | Unit Rate. (Without VAT)<br>(Rs. & Cents) | VAT<br>(Rs. & Cents) | Total Amount (With VAT)<br>(Rs. & Cents) |
|----------|--------------------------|------|---|----------------------|--|
| 01       | Sound System – Type I    | 02   |   |                      |  |
| 02       | Sound System – Type II   | 02   |   |                      |  |
| 03       | Portable Sound System    | 02   |   |                      |  |
| 04       | 4K Integrated PTZ Camera | 02   |   |                      |  |

We agree to supply and delivery the above goods in accordance with the technical specifications for a total contract price of Rupees..... ( *amount in figures* ) ( *amount in words* ) within the period specified in the Invitation for Quotations.

We also confirm that the warrantee/guarantee specified shall apply to the offered goods.

.....  
**Signature of the Bidder** .....  
 Name of the Bidder .....  
 Date .....

UNIVERSITY OF RUHUNA  
 FACULTY OF MANAGEMENT & FINANCE  
 DEPARTMENT OF ACCOUNTS  
 100, GALLE ROAD, RUHUNA  
 SRI LANKA

### 01. Specification for sound system - Type I

| Specification                                 | Requirements   | Bidder's Offer |         |
|---|--|----------------|---------|
|   |  | Yes/No         | Remarks |
| Type  | Amplifier sound system with Microphone               |                |         |
| <b>Amplifier Unit 01</b>                      |  |                |         |
| Expected rate of output                       | Minimum 600 Watts RMS                                |                |         |
|   | Stereo or Non Mono                                   |                |         |
| Brand Name                                    | Please specify                                       |                |         |
| Country Manufactured                          | Please specify                                       |                |         |
| Class of the Amplifier                        | Please Specify (whether class D ,AB or H any other ) |                |         |
| Power consumption                             | Specify  |                |         |
| Output Impedance                              | 4Ω to 16Ω  |                |         |
| Speaker connecting ability                    | Please Specify                                       |                |         |
| Signal Input                                  | XLR or ¼ Jack<br>Wired connector should be provided  |                |         |
| After sale service                            | Please Specify                                       |                |         |
| <b>Speaker Box/ Speaker Units 4</b>           |  |                |         |
| Speaker size                                  | 10" or more with or without tweeter – 4              |                |         |
| Speaker Box Quantity                          | 4 expected   |                |         |
| Speaker Box Size                              | Please specify                                       |                |         |
| Speaker wire<br>PVC Copper –<br>Minimum -120M | 30M for each 4 unit                                  |                |         |
| Speaker connecting sockets                    | Please Specify (should be provided)                  |                |         |
| Speaker wall mounting or standing brackets    | Please Specify (should be provided)                  |                |         |
| Installing charges                            | Should be mentioned                                  |                |         |
| <b>Microphone Mixer</b>                       |  |                |         |

|  |  |  |  |
|--|--|--|--|
| Microphone Mixer Channels              | 6 or more – Please specify   |  |  |
| Brand                                  | Please specify   |  |  |
| Country Manufactured                   | Please specify   |  |  |
| Line and Microphone Equalizing ability | Expected treble bass mid controlling ability / Please provide details  |  |  |
| Inputs                                 | 6 or more XLR for microphone RCA, ¼ jack or any other (Please Specify)   |  |  |
| Out put                                | Connector XLR or ¼ or both(wire should be provided)  |  |  |
| <b>Microphone</b>                      |  |  |  |
| Microphone                             | Wired -4 microphone, Impedence 32 Ohms, 12 meter copper wire with suitable cable to connect mic –mixture for each should be provided |  |  |
|  | Wireless – 2 x USB 3v operated double band microphone  |  |  |
|  | Gooseneck microphone 18”   |  |  |
|  | FM Microphone (600 MHz – 960 MHz)  |  |  |
| <b>Wireless Microphone</b>             |  |  |  |
| Wireless Microphone                    | Uhf band   |  |  |
|  | 3V (1.5vX2) operated   |  |  |
|  | Output connector XLR or ¼ jack   |  |  |
|  | Operation distance minimum 30M   |  |  |
|  | Sound output level adjustment  |  |  |
| Frequency response                     | Please specify (do not cross radio to signal)  |  |  |
| <b>Microphone stand</b>                |  |  |  |

|  |   |  |  |
|--|---|--|--|
| 2 *Microphone stand  | Adjustable floor stand  |  |  |
|  | Standing size Microphone connecting Socket 3 should provided                        |  |  |
| <b>Installation</b>  |   |  |  |
| Installation   | Required<br>The room dimensions<br>37'x53'  |  |  |
| <b>For all the equipment</b>                                 |   |  |  |
| Training sessions  | Onsite operational training should be provided                                      |  |  |
| Warranty Period  | All-inclusive minimum 3 years Comprehensive Warranty                                |  |  |
| Other Accessories  | Please specify  |  |  |
| Condition of service agreement and fee after warranty Period | Please specify  |  |  |
| Availability of spare parts for minimum five years           | Please specify  |  |  |
| Operational environmental condition                          | Should function without any issue under general climate condition (Please specify ) |  |  |

Dr. G. G. Madhwarathna  
 Director, Procurement  
 General Services Department  
 P.O. Box 114  
 University of Ruhuna  
 Wallemadama, Matara

**02. Specification for sound system - Type II**

| Specification                                 | Requirements   | Bidder's Offer |         |
|---|--|----------------|---------|
|   |  | Yes/No         | Remarks |
| Type  | Amplifier sound system with Microphone               |                |         |
| <b>Amplifier Unit 01</b>                      |  |                |         |
| Expected rate of output                       | Minimum 600 Watts RMS                                |                |         |
|   | Stereo or Non Mono                                   |                |         |
| Brand Name                                    | Please specify                                       |                |         |
| Country Manufactured                          | Please specify                                       |                |         |
| Class of the Amplifier                        | Please Specify (whether class D ,AB or H any other ) |                |         |
| Power consumption                             | Specify  |                |         |
| Output Impedance                              | 4Ω to 16Ω  |                |         |
| Speaker connecting ability                    | Please Specify                                       |                |         |
| Signal Input                                  | XLR or ¼ Jack<br>Wired connector should be provided  |                |         |
| After sale service                            | Please Specify                                       |                |         |
| <b>Speaker Box/ Speaker Units 4</b>           |  |                |         |
| Speaker size                                  | 10" or more with or without tweeter – 4              |                |         |
| Speaker Box Quantity                          | 4 expected   |                |         |
| Speaker Box Size                              | Please specify                                       |                |         |
| Speaker wire<br>PVC Copper –<br>Minimum -120M | 30M for each 4 unit                                  |                |         |
| Speaker connecting sockets                    | Please Specify (should be provided)                  |                |         |
| Speaker wall mounting or standing brackets    | Please Specify (should be provided)                  |                |         |
| Installing charges                            | Should be mentioned                                  |                |         |
| <b>Microphone Mixer</b>                       |  |                |         |

|  |  |  |  |
|--|--|--|--|
| Microphone Mixer Channels              | 6 or more – Please specify   |  |  |
| Brand                                  | Please specify   |  |  |
| Country Manufactured                   | Please specify   |  |  |
| Line and Microphone Equalizing ability | Expected treble bass mid controlling ability / Please provide details  |  |  |
| Inputs                                 | 6 or more XLR for microphone RCA, ¼ jack or any other (Please Specify)   |  |  |
| Out put                                | Connector XLR or ¼ or both(wire should be provided)  |  |  |
| <b>Microphone</b>                      |  |  |  |
| Microphone                             | Wired -4 microphone, Impedence 32 Ohms, 12 meter copper wire with suitable cable to connect mic –mixture for each should be provided |  |  |
|  | Wireless – 2 x USB 3v operated double band microphone  |  |  |
|  | Gooseneck microphone 18”   |  |  |
|  | FM Microphone (600 MHz – 960 MHz)  |  |  |
| <b>Wireless Microphone</b>             |  |  |  |
| Wireless Microphone                    | Uhf band   |  |  |
|  | 3V (1.5vX2) operated   |  |  |
|  | Output connector XLR or ¼ jack   |  |  |
|  | Operation distance minimum 30M   |  |  |
|  | Sound output level adjustment  |  |  |
| Frequency response                     | Please specify (do not cross radio to signal)  |  |  |
| <b>Microphone stand</b>                |  |  |  |

|  |   |  |  |
|--|---|--|--|
| 2 *Microphone stand  | Adjustable floor stand  |  |  |
|  | Standing size Microphone connecting Socket 3 should provided                        |  |  |
| <b>Installation</b>  |   |  |  |
| Installation   | Required<br>The room dimensions<br>39.37 ft x 39.53 ft                              |  |  |
| <b>For all the equipment</b>                                 |   |  |  |
| Training sessions  | Onsite operational training should be provided                                      |  |  |
| Warranty Period  | All-inclusive minimum 3 years Comprehensive Warranty                                |  |  |
| Other Accessories  | Please specify  |  |  |
| Condition of service agreement and fee after warranty Period | Please specify  |  |  |
| Availability of spare parts for minimum five years           | Please specify  |  |  |
| Operational environmental condition                          | Should function without any issue under general climate condition (Please specify ) |  |  |

**03. Specification for portable sound system**

| Specification             | Requirements   | Bidder's Offer |         |
|---------------------------|--|----------------|---------|
|                           |  | Yes/No         | Remarks |
| Make                      | Please Specify   |                |         |
| Model                     | Please Specify   |                |         |
| Country of origin         | Please specify   |                |         |
| Country of manufacture    | Please specify   |                |         |
| Year of manufacture       | Please specify   |                |         |
| Type                      | Portable Public addressing system                                  |                |         |
| Speaker                   | 1 x 10.0" (254.0mm) Woofer or more<br>1 x Tweeter – Please Specify |                |         |
| Number of Mixer Channels  | 9 or more – Please specify   |                |         |
| Number of Mic Preamps     | 9 or more – Please specify   |                |         |
| Equalizer                 | 7-band or more please specify                                      |                |         |
| Inputs                    | 5 or more XLR  |                |         |
|                           | 5 or more 1/4" (Line)  |                |         |
|                           | 2 or more RCA (Stereo)   |                |         |
|                           | 1 or more 1/8" (Stereo)  |                |         |
|                           | 1 or more USB  |                |         |
| Power Amp                 | 2 x 300W   |                |         |
| Total Power               | 600W Class D   |                |         |
| Frequency Response        | 40Hz-20kHz – Please specify  |                |         |
| Playback                  | USB<br>MP3   |                |         |
| Enclosure Material        | Molded Plastic – Please specify                                    |                |         |
| Power Source              | Standard IEC AC cable  |                |         |
| Speaker stand and cabling | Should be provided   |                |         |
| Expected rate of output   | Minimum 600 watts (300x2)<br>RMS – Please Specify                  |                |         |

|  |  |  |  |
|--|--|--|--|
| Dimension  | Height – Please specify<br>Width – Please specify<br>Depth – Please specify          |  |  |
| Weight   | Please specify   |  |  |
| Display  | Please Specify   |  |  |
| Bluetooth wireless audio playback                            | Please specify   |  |  |
| Two folding speaker stands                                   | Should be available  |  |  |
| Length of speaker cables                                     | Please specify   |  |  |
| Storage compartment for optional Accessories                 | Please specify   |  |  |
| Digital effects  | Please specify   |  |  |
| Microphone   | Should be available  |  |  |
| Mixer stand  | Should be available  |  |  |
| Training sessions  | Onsite operational training should be provided                                       |  |  |
| Warranty Period  | All-inclusive minimum 3 years Comprehensive Warranty                                 |  |  |
| Other Accessories  | Please specify   |  |  |
| Condition of service agreement and fee after warranty Period | Please specify   |  |  |
| Availability of spare parts for minimum five years           | Please specify   |  |  |
| Operational environmental condition                          | Should function without any issue under general climate condition ( Please specify ) |  |  |

**04. Specification for 4K Integrated PTZ Camera**

| Specification                   | Requirements   | Bidder's Offer |         |
|---------------------------------|--|----------------|---------|
|                                 |  | Yes/No         | Remarks |
| Make                            | Please Specify   |                |         |
| Model                           | Please Specify   |                |         |
| Country of Origin               | Please Specify   |                |         |
| Country of manufacture          | Please Specify   |                |         |
| Year of manufacture             | Please Specify   |                |         |
| LENS                            | Digital zoom: 4x or more<br>please specify             |                |         |
| Internal Microphone             | Should be available with<br>mute function              |                |         |
| Power Requirements              | DC 5 V (USB)<br>DC 42 V - 57 V (PoE)<br>Please Specify |                |         |
| Tilting Range                   | 50° (±25°) Please specify                              |                |         |
| Imaging Sensors                 | 1/2.5-type MOS<br>Please specify                       |                |         |
| Panning range                   | 220° (±110°)<br>Please specify                         |                |         |
| Angle of view range             | 111° or more please<br>specify                         |                |         |
| Camera/pan-tilt head<br>control | Manual adjustment                                      |                |         |
| Video output                    | HDMI   |                |         |
|                                 | IP   |                |         |
|                                 | USB  |                |         |
| Accessories                     | Please specify   |                |         |
| Software                        | Please specify   |                |         |
| Installation and cabling        | Required<br>Classroom dimension<br>38x27ft             |                |         |

|  |   |  |  |
|--|---|--|--|
| Training Sessions  | Onsite operational training should be provided  |  |  |
| Warranty Period  | All-inclusive minimum 3 years Comprehensive Warranty  |  |  |
| Number of Free Services                                      | Please specify number of Free Services to be carried out per year during the period of warranty |  |  |
| Condition of service agreement and fee after warranty Period | Please specify  |  |  |
| Availability of spare parts for minimum five years           | Please specify  |  |  |
| Operational environmental condition                          | Should function without any issue under general climate condition (Please specify)              |  |  |