

PROJECT REF: L3C/B00606/2021-2022/08

**SUPPLY, DELIVERY AND INSTALLATION FOR PA SYSTEM AND GOOSENECK MICROPHONES FOR CONFERENCE ROOM AT LIFELONG LEARNING CENTRE (L3C), MINISTRY OF EDUCATION**

Bil. No.	Keterangan <i>Description</i>	Kuantiti <i>Quantity</i>	Unit <i>Unit</i>
1	<p>Supply, delivery and installation of Conference Controller and software for Conference Controller.</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>a) Microphone capacity: Wired microphone ≤4096; wireless microphone ≤300</li> <li>b) Simultaneous interpretation channel: 63+1 channel</li> <li>c) Frequency response: 80~16KHz</li> <li>d) Main power: 100-120VAC/200-240VACbyswitch</li> <li>e) Audio input: LINEIN1: 775mVrms balanced; 2 output Phoenix terminal: 775mVrms balanced; LINEIN2: 775mVrms unbalanced</li> <li>f) Audio output: LINEOUT1:1Vrms balanced; 16 multi-function output Phoenix terminal: 1Vrms balanced; LINEOUT2:1Vrms unbalanced</li> <li>g) EXTENSION port: Connect conference system extension equipment</li> <li>h) DANTE/NC port: Connect to external devices with DANTE protocol</li> <li>i) WIFI network port: Connect to wireless AP</li> <li>j) PC network port: Connect to the computer</li> <li>k) Static power: 30W</li> <li>l) Output power consumption: 320W</li> <li>m) Wired microphone connection method: Special cable (6 cores)</li> <li>n) Touch screen control: 4.3 inch full color touch screen</li> <li>o) Colour: black</li> <li>p) Net weight: 5.6kg</li> <li>q) Dimension (LxWxH): 484x303x88mm</li> <li>r) Installation method: 19 inch standard cabinet</li> </ul>	1	Unit

2	<p>Supply, delivery and installation of Chairman Microphone Unit, include control embedded software.</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>a) 4.3 inch IPS full-colour touch screen with a simple interface</li> <li>b) Microphone type: Electret condenser microphone</li> <li>c) Microphone directivity: Cardioid</li> <li>d) Frequency response: 80Hz~16KHz</li> <li>e) Sensitivity: <math>-33\pm 1.5\text{dB}(0\text{dB}=1\text{V}/\text{Pa},\text{at}1\text{KHz})</math></li> <li>f) Maximum power consumption: 3.0W</li> <li>g) Power supply: Conference controller power supply</li> <li>h) Color: Oxidized fine sand black</li> <li>i) Dimension (LxWxH): 240*99*125mm (without microphone rod length)</li> <li>j) Microphone rod length: 240mm</li> <li>k) Installation method: Desktop</li> <li>l) Weight: 0.94kg</li> </ul>	1	Unit
3	<p>Supply, delivery and installation of Delegate Microphone Unit, include control embedded software.</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>a) 4.3 inch IPS full-colour touch screen with a simple interface</li> <li>b) Microphone type: Electret condenser microphone</li> <li>c) Microphone directivity: Cardioid</li> <li>d) Frequency response: 80Hz~16KHz</li> <li>e) Sensitivity: <math>-33\pm 1.5\text{dB}(0\text{dB}=1\text{V}/\text{Pa},\text{at}1\text{KHz})</math></li> <li>f) Maximum power consumption: 3.0W</li> <li>g) Power supply: Conference controller power supply</li> <li>h) Color: Oxidized fine sand black</li> <li>i) Dimension (LxWxH): 240*99*125mm (without microphone rod length)</li> <li>j) Microphone rod length: 240mm</li> <li>k) Installation method: Desktop</li> <li>l) Weight: 0.94kg</li> </ul>	26	Unit
4	<p>Supply, delivery and installation of Suppressor (Digital Feedback Suppressor).</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>a) 96KHz sampling frequency</li> <li>b) 32-bit DSP processors</li> <li>c) 24-bitA / D and D / A converter</li> <li>d) Each channel has 24 LED lights to display the status of the howling suppression quantity</li> <li>e) Output Channels and Socket: 2-channel XLR female Analog inputs / 2 stereo coaxial / optical fiber / AES inputs (each digital port transmit two way audio si</li> </ul>	1	Unit

	<ul style="list-style-type: none"> <li>f) Input Impedance: 2-channel XLR male connector Analog Output / 2 stereo coaxial / optical fiber / AES inputs (each digital port transmit two way)</li> <li>g) Net Weight: 482 x 148 x 44mm</li> <li>h) Sound Transmission Gain: 2048</li> <li>i) Processor: With a resolution of 144 x 32 LED display, Provide 4 LED display output level</li> <li>j) Power Consumption: 96KHz Sample frequency, 32-bit DSP Processor, 32-bit A/D and D/A conversion</li> <li>k) Display: -120dB~-40dB.A26</li> <li>l) Compression: 0dB</li> </ul>		
5	<p>Supply, delivery and installation of 12 Channel Mixer.</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>a) Microphone input: 4 channels (4 XLR)</li> <li>b) Line input: 4-channels single plug mono/stereo automatic switching hybrid interface</li> <li>c) Stereo input: 4 sets (8 channels mono)</li> <li>d) CD/Tape input: 1-channels CD/Tape RCA stereo input interface</li> <li>e) Output channel: 1 stereo main output, 1 auxiliary output, 1 stereo monitor output, 1 earphone monitor output, 1 CD/Tape output</li> <li>f) Effects: 24-bit DSP effects (including vocals, small houses, halls echoes, echoes + reverbs, plates, vocals, chorus GTR, rotating GTR, vibrato GTR type), 100 preset effects</li> <li>g) Phantom power: +48V with switch</li> <li>h) Frequency response: 20Hz to 50KHz (0,-1dB); 20Hz to 130Hz (0,-3dB)</li> <li>i) Microphone balanced input noise: -119dB (A-weighted)</li> <li>j) MIC input high-pass filtering: 75Hz, 18dB/oct</li> <li>k) Power supply: External 18AC (AC 230-240V 50/60Hz) power adapter</li> <li>l) Power consumption: ≥18W</li> <li>m) Dimension (LxWxH): 271 x 259 x 54.3mm</li> <li>n) Weight: 1.9kg</li> </ul>	1	Unit
6	<p>Supply, delivery and installation of 8 Input and 8 Output Digital Audio Matrix Processor.</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>a) Input channel: 8 balanced MIC/Aux, using bare wiring interface, balanced connection</li> <li>b) Output channel: 8 balanced Aux output, using bare wiring interface, balanced connection</li> <li>c) Provide 24bit/48KHz excellent high-quality sound</li> <li>d) The panel featured with USB interface, support for multimedia storage to play or storage recording</li> <li>e) Support automatic protection memory function when power off</li> </ul>	1	Unit

	<ul style="list-style-type: none"> <li>f) Support to access the device through the browsing, to download with own management control software; with intuitive and graphical software interface, can work with XP/ Windows7, 8, 10 and other system.</li> <li>g) Support IOS, iPad, Android mobile phone / tablet APP operation control</li> <li>h) Frequency Response: 20Hz-20KHz</li> <li>i) Working power: AC 110V-220V, 50Hz / 60Hz</li> <li>j) Power consumption: &lt;40W</li> </ul> <p>Dimensions: 482 (W) x 258 (D) x 45 (H) mm</p>		
7.	<p>Supply, delivery and installation of Stereo Amplifier.</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>a) High-quality large-capacity transformer and a low resistance electrolytic filter to ensure a large dynamic operation</li> <li>b) Stereo/Parallel 8Ω x 2: 200W x 2</li> <li>c) Stereo/Parallel 4Ω x 2: 300W x 2</li> <li>d) Bridge 8Ω: 600W</li> <li>e) Connecting Plug: XLR, TRS interface</li> <li>f) Voltage Gain (@1KHz): 32dB</li> <li>g) Frequency response (@1 power): 20-20KHz /+0/-2dB</li> <li>h) Indicator light: power, protection, distortion</li> <li>i) Cooling mode: fan cooling</li> <li>j) Power supply: ~220-240V 50/60Hz</li> <li>k) Maximum power consumption: 900W</li> <li>l) Dimension (LxWxH): 483 x 394 x 88mm</li> <li>m) Weight: 11.2kg</li> </ul>	3	Units
8.	<p>Supply, delivery and installation of Ceiling Speaker for Conference Room, 100W 8Ω, including wiring service.</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>a) Resistance: 8 Ω</li> <li>b) Frequency Response: 60Hz-20KHz</li> <li>c) Rated power: 100W</li> <li>d) Sensitivity: 92dB</li> <li>e) Coverage angle: (H) 80 ° (V) 60 °</li> <li>f) Treble: 1.5 " dome tweeter</li> <li>g) Bass: 1 x 6.5-inch Mid Subwoofer Unit</li> <li>h) Size: 280 x 100mm</li> <li>i) Weight: 3.2kg</li> </ul>	6	Units
9.	<p>Supply, delivery and installation of server rack 19 inch standing rack for conference controller, suppressor, channel mixer, stereo amplifier and matrix processor.</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>a) Cabinet size with installed wheels: 600 (W) x 1000 (D) x 1670 (H)</li> <li>b) Height of the wheels: 70mm</li> <li>c) Colour: black</li> </ul>	1	Unit
10.	<p>Supply, delivery and installation of:</p> <ul style="list-style-type: none"> <li>a) Connection Cable (6-pin Conference Cable) 2M</li> <li>Female-Network Mouth Extension Cable, 2 meter</li> </ul>	2	Units

	b) Extension Cable (6-pin Conference Cable) with male and female connector, 10 meters	2	Units
	c) Connection cable XLR (female) -XLR (male) audio cable, 1.8 meters	12	Units
11.	Supply and install for wiring of power point for Controller, Suppressor, Mixer, Processor and Amplifier	1	Lot
12.	Supply and install for wiring for Chairman Microphone and Delegate Microphones	27	Units
13.	Supply and install for wiring of power point for microphones c/w double socket outlet	15	Units
<p>- Companies/Vendors are advised to visit site before quote.</p> <p>- Lump sums are not be given when unit rates are applicable. Group of items are not to be bracketed together and a lump sum amount given.</p> <p>- Sample and/or catalogues must be submitted to L3C for approval prior order and installation.</p> <p>- Making good to match existing or any parts affected during or after dismantling works whenever necessary or as directed by S.O.</p> <p>- All debris to be immediately removed off site after dismantling or demolition works or as directed by S.O.</p>			

1. Delivery and installation work shall be done in any days which are from Monday to Saturday. The operation time shall be from 8 am to 2 pm every day.
2. Before any installation begins, Superintending Officer shall monitor the area to ensure that the Company/Vendor proceeds with the installation at the right area as requested.
3. The Company/Vendor shall provide all the necessary equipment for the installation.
4. The Company/Vendor will be responsible for personal injury, loss of or damage to property and any other loss.
5. Warranty should be provided at least for **twelve months** for any manufacturing defects and servicing to include spare parts and consumables item. The Company / Vendor can provide after sale service after the warranty period ends upon request by the L3C at specified price.
6. Price shall include:
  - a) Installation / services.
  - b) Warranty
  - c) Any Additional charges

**PERHATIAN:**

Jika awda berminat untuk ikut serta dalam tawaran ini, awda dikehendaki mengisi **Borang Penyertaan** melalui pautan: <https://tinyurl.com/3em85tbk> dan membuat pembayaran secara **ONLINE** sebanyak **BND\$5.00 (tidak dikembalikan)** melalui aplikasi BIBD MOBILE. Sebelum membuat pembayaran secara online, pihak Syarikat / Pembekal bolehlah menghubungi pihak Unit Kewangan dan Perolehan di talian **+673 2346201 ext 111** atau emel: [finance.l3c@moe.gov.bn](mailto:finance.l3c@moe.gov.bn) untuk mendapatkan tatacara pembayaran.

Selepas pembayaran dibuat, salinan resit ataupun 'screenshot' pembayaran bagi setiap projek hendaklah terlebih dahulu diemel oleh pihak Syarikat/Pembekal yang berminat ikut serta tawaran/sebutharga tersebut kepada [finance.l3c@moe.gov.bn](mailto:finance.l3c@moe.gov.bn) untuk tujuan mengesahkan pembayaran.

Resit Pembayaran, Borang Sebutharga dan dokumen yang berkaitan akan dihantar kepada pihak Syarikat/Pembekal sebaik sahaja pihak Pusat Pembelajaran Sepanjang Hayat (Pusat L3) menerima 'screenshot' pembayaran Syarikat/Pembekal tersebut.

Tawaran hendaklah dihadapkan dalam sampul surat yang rapi (*sealed*) dengan menyertakan bilangan dan tajuk tawaran serta tarikh tutup tanpa menyatakan nama penender / syarikat dengan dialamatkan kepada **Pengerusi Jawatankuasa Sebutharga Pengajian Tinggi, Kementerian Pendidikan**.

Tawaran yang lengkap hendaklah dimasukkan ke dalam Peti Tawaran yang disediakan di alamat: **Tingkat 1 (Peti Surat Sebutharga), Pusat Pembelajaran Sepanjang Hayat (Pusat L3), Jalan 10 Selatan, RPN Lambak Kanan, BC2315. Negara Brunei Darussalam.**

**NOTE:**

*If you are interested to submit an offer, you are required to fill in the online **Participation Form** at <https://tinyurl.com/3em85tbk> and pay **\$5.00 (non-refundable)** by **ONLINE** through BIBD MOBILE application. Before making payment online, Companies / Suppliers can contact Finance and Procurement Unit at +673 2346201 ext 111 or email: [finance.l3c@moe.gov.bn](mailto:finance.l3c@moe.gov.bn) to obtain payment procedures.*

*After payment is made, please email a copy of the 'screenshot' receipt of payment of each project to [finance.l3c@moe.gov.bn](mailto:finance.l3c@moe.gov.bn) to confirm your payment.*

*The Payment Receipt (Resit Asal), Original Quotation (Borang Sebutharga Asal) and related documentation will be sent to you once we receive your 'screenshot' receipt of payment. Please make sure you use a valid email account.*

*All quotation documents must be submitted in sealed envelope(s) with the quotation reference number, description of item, date advertised and closing date, on the top right hand of the envelope. Suppliers must not include their company name on the envelope. The quotation should be addressed to **Pengerusi Jawatankuasa Sebutharga Pengajian Tinggi, Kementerian Pendidikan**.*

*The completed quotation must be submitted to quotation box at **Tingkat 1 (Peti Surat Sebutharga), Pusat Pembelajaran Sepanjang Hayat (Pusat L3), Jalan 10 Selatan, RPN Lambak Kanan, BC2315. Negara Brunei Darussalam.***