



PROJECT REF: L3C/B02001/2021-2022/02

SUPPLY, DELIVERY AND INSTALLATION OF CCTV (PHASE 1) AT LIFELONG LEARNING CENTRE (L3C), MINISTRY OF EDUCATION

Bil. No.	Keterangan <i>Description</i>	Kuantiti <i>Quantity</i>	Unit <i>Unit</i>
A	<p><u>PROTECTION OF THE WORKS</u></p> <p>Cover up and protect all the works (temporary & permanent), materials and plant from the weather and other possible damage and suspend all operations during weather which in the opinion of the Superintending Officer can be detrimental to the works.</p> <p>Case up, cover up and like including all materials to protect the finished or part-finished works from damage or deterioration because the activities of any workpeople (including those of the Employer's separate specialist contractors) and make good any damage caused by such want of protection until the employer takes possession after practical completion and thereafter also until the final certificate is issued if any damaged is done the contractor's employees or representatives. Extra care and caution shall be exercised in regard to manufacturers or specialist protective wrappings. Such wrappings shall only be removed at final cleaning up of the buildings.</p>	1	Lot
B 1	<p><u>ADMINISTRATION AND ACADEMIC BLOCK (BLOCK A TO H AND MULTIPURPOSE HALL)</u></p> <p><u>NETWORK VIDEO RECORDER</u></p> <p>Supply, delivery and installation of network video recorder with specification:</p> <ul style="list-style-type: none"> • Support output at 4k (3840 × 2160) resolution • H.265 video compression • G711 audio compression • Support at least 32 channels • 1000Mbps LAN port • 1000Mbps internet port • Having 10TB of SATA CCTV hard disk drives • Support DDNS, PPPoE, DHCP, TCP/IP, FTP, HTTP, IPv4 and QoS protocol. 	1	Set

	<ul style="list-style-type: none"> • Remote access using browser on windows and Android operating systems. • Recording throughput up to 1080 IPS @ 5MP, 300Mbps 		
2	<p><u>CCTV CAMERA</u></p> <p>Supply, delivery and installation of 5 Megapixels with image sensor of 1/2.9" SONY CMOS image sensor. The camera shall have the following specifications:</p> <ul style="list-style-type: none"> • Having LAN port • LAN 10/100Mbps • Support DDNS, PPPoE, DHCP, TCP/IP, FTP, HTTP, IPv4 and QoS protocol. • Support 1920 × 1080 • Support Power over Ethernet • -25°C-50°C Operating temperature • Having motion detection • Digital Pan / tilt / Zoom 	31	Nos.
3	<p><u>SWITCHES</u></p> <p>a) Supply, delivery and installation of 8 10/100/1000Mbps RJ45 PoE+ Ports with standard 802.3at/af compliant and having the following specifications:</p> <ul style="list-style-type: none"> • 100BASE-TX: UTP category 5, 5e cable (maximum 100m) • EIA/TIA-568 100Ω STP (maximum 100m) • 1000BASE-T: UTP category 5, 5e, 6 or above cable (maximum 100m) • Mountable rack with lock <p>b) Supply, delivery and installation of 8-Port Gigabit Desktop Switch with 4-Port PoE+ with following specification:</p> <ul style="list-style-type: none"> • Flexible deployment for PoE supported devices such as wireless access points (APs), IP cameras and IP phones. • Designed to use a single Ethernet cable for both data and power transmission. • 802.1p and DSCP QoS ensures smooth traffic • 100Base-TX: UTP category 5, 5e or above cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 1000Base-T: UTP category 5, 5e cable or above cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) • Mountable rack with lock <p>c) Supply, delivery and installation of 5-port Gigabit Desktop Switch with following specifications:</p>	4	Sets
		3	Sets
		1	Set

	<ul style="list-style-type: none"> • 5 10/100/1000 Mbps Ethernet port • Supports IEEE 802.3x flow control for Full Duplex mode and backpressure for Half Duplex mode • Desktop or wall-mounting design • 10BASE-T: 14880pps/port 100BASE-TX: 148800pps/port 1000BASE-T:1488000pps/port 		
4	<p><u>MOUNT RACK</u> Supply, delivery and installation of rack 18U 19" floor stand rack</p>	1	Unit
5	<p><u>AIR CONDITIONER UNIT AT CCTV CONTROL ROOM (BLOCK ADMINISTRATION)</u> Supply, delivery and installation of 1HP air conditioner units (Refrigerant type: R410a) complete with refrigerant piping, tube insulation, brackets, drain pipe c/w hacking, excavate and concealed drain pipe at ground floor. Make good disturbed building works, include parts one year warranty, 5 years compressor warranty and ensure the supply air conditioning are operation and in good condition until defect liability period end. (Location decided by S.O)</p> <p>a) Laying of refrigerant pipes with tube insulation, water drain pipe with not less than 25mm diameter, control 2.5mm² & electric cables (4.0mm²), bracket for outdoor unit, aluminium tray and drain pipe concealing work at ground level.</p> <p>b) Wiring air conditioner power point using 2×4mm² CPC in PVC conduit/casing c/w 20A Double Pole Switch and add 20A 1 pole MCB at nearest DB.</p>	1 1	Lot Lot
6	<p><u>MISCELLANEOUS WORKS AND ITEMS</u> Performing works of wiring CAT6 UTP network copper cable, 2.5mm power cable laying c/w hacking, excavate, make good disturbed building works, PVC piping, PVC casing, RJ-45 connector, PVC box and terminate.</p> <p>a) Approximate connection from switch to NVR:</p> <ul style="list-style-type: none"> • 50m • 60m • 120m <p>b) Approximate connection from switch to CCTV:</p> <ul style="list-style-type: none"> • 40m • 60m • 80m 	2 1 1 12 6 9	Nos No No Nos Nos Nos

	<ul style="list-style-type: none"> • 100m 	4	Nos
c)	Supply, delivery and installation of 55" LED TV c/w necessary accessories including HDMI cable and wall bracket with VESA compatible.	1	No
d)	Cost of other installation that is not included with items including setup, manpower, testing and commissioning.	1	Lot
C	<u>WORKSHOP AND SICKBAY AREA</u>		
1.	<u>NETWORK VIDEO RECORDER</u> Supply, delivery and installation of network video recorder with specification: <ul style="list-style-type: none"> • Support output at 4k (3840 × 2160) resolution • H.265 video compression • G711 audio compression • Support at least 16 channels • 1000Mbps LAN port • 1000Mbps internet port • Having 10TB of SATA CCTV hard disk drives • Support DDNS, PPPoE, DHCP, TCP/IP, FTP, HTTP, IPv4 and QoS protocol. • Remote access using browser on windows and Android operating systems. • Recording throughput up to 1080 IPS @ 5MP, 300Mbps 	1	Set
2.	<u>CCTV CAMERA</u>		
a)	Supply, delivery and installation of 5 Megapixels with image sensor of 1/2.9" SONY CMOS image sensor. The camera shall have the following specifications: <ul style="list-style-type: none"> • Having LAN port • LAN 10/100Mbps • Support DDNS, PPPoE, DHCP, TCP/IP, FTP, HTTP, IPv4 and QoS protocol. • Support 1920 × 1080 • Support Power over Ethernet • -25°C-50°C Operating temperature • Having motion detection • Digital Pan / tilt / Zoom 	13	Nos
b)	Supply, delivery and installation of 3-meter pole suitable for mounting CCTV camera	13	Nos

<p>3. <u>SWITCHES</u></p> <p>a) Supply, delivery and installation of 8 10/100/1000Mbps RJ45 PoE+ Ports with standard 802.3at/af compliant and having the following specifications:</p> <ul style="list-style-type: none"> • 100BASE-TX: UTP category 5, 5e cable (maximum 100m) • EIA/TIA-568 100Ω STP (maximum 100m) • 1000BASE-T: UTP category 5, 5e, 6 or above cable (maximum 100m) • Desktop/rack mountable <p>b) Supply, delivery and installation of 8-Port Gigabit Desktop Switch with 4-Port PoE+ with following specification:</p> <ul style="list-style-type: none"> • Flexible deployment for PoE supported devices such as wireless access points (APs), IP cameras and IP phones. • Designed to use a single Ethernet cable for both data and power transmission, lowering infrastructure costs. • 802.1p and DSCP QoS ensures smooth traffic • 100Base-TX: UTP category 5, 5e or above cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 1000Base-T: UTP category 5, 5e cable or above cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) <p>c) Supply, delivery and installation of 5-port Gigabit Desktop Switch with following specifications:</p> <ul style="list-style-type: none"> • 5 10/100/1000 Mbps Ethernet port • Supports IEEE 802.3x flow control for Full Duplex mode and backpressure for Half Duplex mode • Desktop or wall-mounting design • 10BASE-T: 14880pps/port 100BASE-TX: 148800pps/port 1000BASE-T:1488000pps/port 	<p>1</p> <p>3</p> <p>1</p>	<p>Set</p> <p>Sets</p> <p>Set</p>
<p>4. <u>MISCELLANEOUS WORKS AND ITEMS</u></p> <p>Performing works of wiring CAT6 UTP network copper cable, 2.5mm power cable laying c/w hacking, excavate, make good disturbed building works, PVC piping/casing, RJ-45 connector, PVC box and terminate.</p> <p>a) Approximate connection from switch to NVR or switch to switch:</p> <ul style="list-style-type: none"> • 110m × 5 <p>b) Approximate connection from switch to CCTV:</p>	<p>5</p>	<p>Nos</p>

	<ul style="list-style-type: none"> • 100m • 150m • 170m • 230m 	5	Nos
		5	Nos
		2	Nos
		1	No
c)	Cost of other installation that is not included with items including setup, manpower, testing and commissioning.	1	Lot
d)	Wiring 2 × 13A power point using 1×4mm ² PVC cable and 1×4mm ² CPC in PVC conduit/casing c/w 2 × 13A switch socket outlet. Approximate length 250m	2	Nos
e)	Construct and fixing galvanized steel stud low height partitions 51mm × 35mm metal studs at 600mm C/C and 51mm × 32mm metal tracks at floor, middle and at 2440mm level with joint staggered. The rate should include gypsum boards and necessary strengthening with studs/tracks or channels at openings wooden door frame of 3ft × 7ft and install existing door and lock set.	1	Lot
<p>- Contractor 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 Thursday and Saturday. The operation time shall be from 8 am to 4 pm.
2. Before any installation begins, Superintending Officer shall monitor the area to ensure that the Contractor proceed with the installation at the right area as requested.
3. The Contractor shall provide all the necessary equipment for the installation.
4. The Contractor 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 (12) months** for any manufacturing defects and servicing to include spare parts and consumables item.
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://cutt.ly/tQhFYfe> dan membuat pembayaran secara **WANG TUNAI** sebanyak **BND\$5.00 (tidak dikembalikan)** bagi setiap projek ke **Tingkat 1, Blok Pentadbiran, Kaunter Unit Kewangan dan Perolehan, Pusat Pembelajaran Sepanjang Hayat (Pusat L3), Kementerian Pendidikan.**

Borang Sebutharga dan dokumen yang berkaitan akan dihantar kepada awda sebaik sahaja pihak Pusat Pembelajaran Sepanjang Hayat (Pusat L3) menerima resit pembayaran awda. Sila pastikan emel yang awda gunakan adalah sah.

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://cutt.ly/tQhFYfe> and pay by **CASH \$5.00 (non refundable)** per project at **Tingkat 1, Blok Pentadbiran, Kaunter Unit Kewangan dan Perolehan, Pusat Pembelajaran Sepanjang Hayat (Pusat L3), Kementerian Pendidikan.***

The Original Quotation (Borang Sebutharga Asal) and related documentation will be sent to you once we receive your payment receipt. 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.***