

| RENOVATION OF MINI AUDITORIUM AT GENERAL SIR JOHN KOTHALAWALA DEFENCE UNIVERSITY | |
|---|---|
| MINUTES OF PRE BID MEETING | |
| CONTRACT | |
| NO | : KDU/ PRO/ RP & SERVICE/2520/2021 |
| DATE | : 2nd July 2021 |
| TIME | : 10.00a.m. |
| VENUE | : General Sir John Kotelawal Defenc University |

| ATTENDANCE | | | |
|-------------------|---|--|--------------------|
| No. | Name | Organization | Status |
| 1 | Captain VM Senevirathne | KDU | Present |
| 2 | Sqn Ldr HGBS Ariyadasa | KDU | Present |
| 3 | L Cdr KGC Pathmal | KDU | Present |
| 4 | Maj Gamage | KDU | Present |
| 5 | Capt BRI Munasinghe | KDU | Present |
| 6 | Capt HTSM De Zoysa | KDU | Present |
| 7 | A.M. Pasindu Chanaka | Leema Construction | Present |
| 8 | Amjad M.M. | Southern Construction | Present |
| 9 | Dushanthe Weerasinghe | Alpha Industries Pvt Ltd | Present |
| 10 | Rizmi | Don Carolis & Sons Pvt. Ltd | Present |
| | | | |
| Item | Matters discussed | | |
| 1 | Captain V.M. Senevirathne chaired the meeting and welcome the participants. | | |
| 2 | Capt HTSM De Zoysa briefed the scope of the works. | | |
| 3 | Followings were clarified by Capt HTSM De Zoysa | | |
| | All the bidders are to be strictly adhere with the requirements mentioned under section 3 & 4 of Bidding data and all the requested information are to be provided and lack of those documents will be considered as a major deviation and can cause for rejection of bids. | | |
| | The final dates of accepting Bidder's quarries is 20th July 2021, until 10.00a.m. Quarries made by the bidders after shall not be considered | | |
| | Quarry | Clarification | Remarks |
| i. | The Bidders had a quarry regarding Head table | Head table consist 18mm thick solid top which covered by melamine laminated board with 50mm decorative edges (by class 1 timber) | Refer clause 1.4.1 |
| ii. | The Bidders had a quarry regarding Board room table | Board room table consist 18mm thick solid top which covered by melamine laminated board with 50mm decorative edges (by class 1 timber) | Refer clause 1.4.2 |

| | | | |
|-------|--|---|---|
| iii. | The Bidders had a quarry regarding podium | Install Smart podium as discuss | Clause 1.4.6 (page 2-2) removed & add clause 4.11 |
| iv. | The Bidders had a quarry regarding demension of decorative logo | Demension should as Drawing KDU/MA/21/06 | Refer clause 1.5 |
| v. | The Bidders had a quarry regarding power DB's | DB's should include separate line for AC electricity supply | Refer clause 2.1 |
| vi. | The Bidders had a quarry regarding ICT works | Related specifications mentioned in amended | Page 2-4 to 2-5 removed and add as cl 4 |
| vii. | The Bidders had a quarry regarding AC system | Install Split inverter type AC system | Refer clause 4.0 |
| viii. | The Bidders had a quarry regarding wireless conference system layout | Drawing is attached | Refer Drawing No: KDU/MA/21/08 in Section V |
| ix | The Price schedule has changed according to above mentioned amendments | New price schedule is attached in add | Removed section iv (page 4-1 to page 4-5) and amended |

Prepared By: Capt HTSM De Zoysa on 13nd July 2021

Copies to be circulated to all participants and Bidders those who have collected the Bidding Documents.

Confirmation of the pre-bid meeting minutes

Director (Logistucs)

General Sir John Kotelawala Defence University

I/we hereby certify that clarifications of the pre-bid meeting minutes given above have been duly read and incorporated into my/our bid.

.....
Authorized Signature of the Bidder

Date:.....

**RENOVATION OF MINI AUDITORIUM AT GENERAL SIR JOHN KOTHALAWALA
DEFENCE UNIVERSITY (KDU/PRO/RP&SVC/2520/21)**

Addendum No. 1

Clause 1.4.1 (page 2-2) amended as follows

Head table consist 18mm thick solid top which covered by melamine laminated board with 50mm decorative edges (by class 1 timber)

Addendum No. 2

Clause 1.4.2 (page 2-2) amended as follows

Board room table consist 18mm thick solid top which covered by melamine laminated board with 50mm decorative edges (by class 1 timber)

Addendum No. 3

Wooden podium amended as smart podium. Therefore cls 1.4.6 (page 2-2) is removed and add cls 4.11.

Addendum No. 4

The Bidders had a quarry regarding dimension of decorative logo.

Clause 1.5 (page 2-2) Supply and installation of logo
 Lettering: GENERAL SIR JOHN KOTELAWALA DEFENSE UNIVERSITY +
LOGO

Refer Drawing No: KDU/MA/21/06 - (intended logo details)

Addendum No. 5

The Bidders had a quarry regarding power DB's.

Clause 2.1 (page 2-3)

- 2.1.1 Supply and Installation of Single Phase Power DB/Threc phase Power DB for General Lighting and common power sockets.
- 2.1.2 Supply, Installation and of cables from feeding power for above DBs from the nearest available service point. Including of covering materials, labour and accessories.
- 2.1.3 DB's should include separate line for AC electricity supply

Addendum No. 6

Clause 3 ICT works (page 2-4 to 2-5) should be removed and ICT works included as clause 4 in new addendum

Installation chargers for the below system and other accessories should state. (Power distribution, AV cables, splitters, connectors, mounts brackets etc.). **Consultation observation and IR meeting system should be install by the supplier according to given information.** Two years comprehensive warranty must include. Bidder should provide a replacement, if the system is taking out for repairs and vender must do the transportation of the system

Clause 4

4.1 Wireless Conference System Control Unit (x01)

- Different conference mode to support FIFO (1/2/3/4), Limit (1/2/3/4) and chairman only mode, microphones in one system up to 128 units.
- Microphones should be operated on either their built-in rechargeable lithium-ion batteries or AC power supply. Battery life approx. 8 hours during speech and approx. 16 hours when standby.
- Microphone LCD should display system and conference information.
- Expected immunity to RF interference from mobile phones and RF devices.
- Support video camera auto-track function with video processor.

4.1.1 Audio channel

Transmission method -Wireless infrared, Audio channel – 4, Carrier frequency band 6MHz-8MHz, Modulation method – FM, Receiving sensitivity-85dBm, Output level-10dB, Infrared operating distance >10M, Frequency response 100Hz-10KHz, S/N Ratio>70dB, T.H.D.<0.5%

4.1.2 Data control channel

Transmission method - Wireless infrared, Data channel – 14, Frequency Range - 901MHz-927MHz, Modulation method – FSK, Receiving sensitivity – 80dBm, Transmission consumption – 10dBm, Communication rate – 100KBPS, Signal covering range – Radius 100m

4.1.3 System

Power supply - AC110V-240V/50Hz~60Hz, Consumption Rating – 10W, Operating temperature range - 0-40 degree

4.1.4 Features of Wireless Delegate Microphone

- Portable table moving and microphone pipe can be pull out. Extended pipe option.
- LCD color red/blue (option)
- LCD display microphone ID, signal level, battery level, microphone state, control channel, etc.
- Equipped with microphone on/off key and indicator.

- Equipped with 5 function keys to set microphone id, control channel, LCD contrast, and light time.
- Auto-Close: Microphone will turn off automatically if there is no action of this microphone in 99 seconds. (option)
- Microphone will shut off the power in 60 seconds to save battery power if system communication is error.
- Chairperson microphone can turn on any time.
- Priority function: chairman can turn off delegate microphones by clear key any time.
- Chairperson only mode: Delegate microphone should not turn on again after pressing priority button. The chairman need quit this mode first, and then delegate microphones can be turned on again

4.2 Microphone Unit (x16Nos) including Chairman Unit

4.2.1 Audio channel

Transmission method - Wireless infrared, Audio channel-4, Carrier frequency band-6MHz-8MHz, Modulation method-FM, Infrared radiator consumption- +10dBm, Mic sensitivity- -44dB±2dB, Frequency response - 100Hz-10KHz, S/N Ratio - >70dB, T.H.D. - <0.5%, Reference sound receiving distance 10-30cm

4.2.2 Data control channel

Transmission method - Wireless infrared, Data channel – 14, Frequency Range - 901MHz-927MHz, Modulation method – FSK, Receiving sensitivity-85dBm, Transmission consumption – 10dBm, Communication rate – 100KBPS, Battery - LIP battery12V/4000MAH, Consumption Rating – 8W, Operating temperature range – 0-40 degree, Length of gooseneck – 400mm (Minimum), Dimensions - 210×140×69 mm

4.2.3 IR Signal Receiver (x02Nos)

Including dedicated cables & accessories according to the system requirement

Adopt mounting hook installation, Wide-angle, receiving range is approximately 150 degrees, Signal gain more than 35dBm, Adopt low consumption electro circuit, Wall/ceiling installation option

Carrier frequency band- 6MHz-8MHz, Power supply - DC12V from Main unit, Rated current – 25mA, Receiving sensitivity- 85dBm, Gain - 40dBm, Output Impedance- 50Ω, Terminal type- BNC, Dimensions - φ98×74mm

4.3 Smart Rostrum (01 No)

- **Material** - Made of high quality metallic sheets with two cooling fan, louvers for heat dissipation, caster wheels.

- **Podium Size** - Front Height- 48 inch, Height (Presenter side)- 42 inch, Width- 24 inch, Depth- 21 inch
- **I/O Port** - Top: 2 USB, 2 XLR, switching for 4 devices any to any. Side : 2 USB, VGA in/out, Audio in/out, power port, power on/ off switch, inside 6 power plugs, LAN, HDMI, Splitting control
- **Touch Panel** - 19"/22" Touch Panel with 75 degree adjustable tilt
- **Drawer/Tray/Door** - Drawer for Visualizer, Key Board/Mouse tray and sliding top tray for Laptop
- **Inbuilt PC** - CPU Core i3/i5/i7 III Gen, 2/4/8 GB RAM, 500GB/1TB SATA HDD, OS, key Board and Mouse etc
- **Audio System** - Amplifier (30-350 Watt), Up to 2 Gooseneck Mics, Speakers (6-60 Watt each), Wireless Mic(20Hz- 20KHz).
- **LED Lamp** - Integrated LED light for reading
- **Cable Management** - Good quality cable management with full internal/external integration of hardware plug and play setup
- **Smart Screen** Smart Screen 98" Size, USB, Audio, Wifi, Bluetooth

4.4 Wall Mount Rack Cabinet 18U (01No)

Black finish, 2mm / 14 gauge steel, Ventilated top panel with cooling fans, cable knockouts, Quick release lockable tempered glass door, Adjustable depth rack rail, Dimensions: 905 x 600 x 450mm, Weight: 29.6kg

4.5 Microphone Clip-on (02 Nos)

Selectable UHF channels, Compatible with lavalier or headset microphone, AA battery operated, Equipped with 4P Mini XLR connector, XLR balanced & 6.3mm unbalanced outputs. Belt clip with carrying case

4.6 Analog Mixing Console 01

- **Inputs** - 8 Channel Mixing Console
- **Outputs** - 4 Mic input with Phantom Power, 4 Line input XLR
- **Controls** - Master (L/R): 2 x XLR, Aux, Monitor, Headphone, Master Level: 1 x fader, Control Types. Knobs, Aux Master: 1 x Aux Master Knob Headphone Level: 1 x knob, Phantom power LED level meter
- **Frequency response** - High, Mid, Low equalizer Gain: +15 dB/-15 dB
- **Crosstalk** - 50Hz-15KHz
- **Total harmonic distortion** - 0.03 % @ +14dBu (20 Hz to 20kHz), GAIN knob: Min, 0.005 % @ +24dBu (1kHz), GAIN knob: Min
- **Power** - 230 V, 50Hz

4.7 Active Speaker 01 Pair

- 300W RMS minimum.
- 4-Channel internal mixer with extra microphone and dual line inputs.
- Tone adjustment and HPF for microphone input.
- XLR main input | TRS parallel output | XLR link output
- With Tripod and a Speaker dust cover

4.8 UPS

2KVA Online UPS. Min 30 Minutes backup

4.9 HDMI Cable (x01No)

Length: 15 m x 1, Length: 2 m x 1 Version: HDMI 1.4a 1080p, Plugs: HDMI male <-> HDMI male Gold-plated

4.10 VGA Cable (x01 No)

- **Connectivity** - 2 - VGA (15 pin, High Density D-Sub) Male
- **Cable Length** -15 meters
- **Material** - PVC - Polyvinyl Chloride
- **Other Features** - impedance; 75 Ohm

4.11 Multimedia projector and screen

4.11.1 Multimedia Projector

- Projection system – DLP, Native Resolution – WXGA (1280x800), Brightness – 3.200AL, Contrast Ratio – 10,000:1, Display color – 1.07 Billion colors, Lens – F2.5; f=5.1 mm, Aspect Ratio – Native 16:10(5 aspect ratio selectable), Throw Ratio – 0.35, Image Size (Diagonal) – 80”~100” optional 87”, Zoom Ratio – Fix, Lamp Type – 230W, Lamp (Normal Electronic Mode) – 4000/5000/7000 hrs, Keystone Adjustment – ID, Vertical +/- 40 degrees, Projection Offset – 140% +5%, Resolution Support – VGA (640x480) to UXGA (1600x1200), Horizontal Frequency – 15-102KHz, Vertical Scan Rate – 23-120Hz, Compatibility – 1080i, 1080p, Video Compatibility : NTSC, PAL, SECAM
- Interface – Computer in (D-sub 15 pin)x2 (Shared with component)
 - Monitor out (D-sub 15 pin) x1
 - Composite Video in (RAC) x1
 - S-Video in (Mini DIN 4 pin)
 - HDMI x1
 - Audio in (Mini Jack) x1
 - Audio out (Mini Jack) x1
 - Audio L/R x1
 - Speaker 10Wx2

USB (Type mini B) x1 (Point write interactive module)
USB (Type B) x 1 (FW Downloaded)
RJ 45 x1 (LAN Control)
RS 232 (DB-9 pin) x1
IR Receiver x 2 (Front)

- Dimensions – (w/o Mirror) Specify/– (w Mirror) Specify, Weight – Specify, Power Supply – AC 100 to 240 V/50 to 60Hz, Power Consumption – Typical 290W standby power <0.5W, Audible Noise – 33/29 dBA (Normal/Electronic mode), Languages – Arabic/Bulgarian/Croatian/Danish/Dutch/English/Finnish/French/German/Greek/Hindu/Hungarian/Italian/Indonesian/Japanese/Korean/Norwegian/Polish/Portuguese/Romanian/Russian/ Simplified/Chinese/Spanish/Swedish/Turkish/Thai/Traditional Chinese (28 Languages)
- Picture Mode – Dynamic/Presentation/sRGB/Cinema/(3D/User1/User 2, Accessories Standard) - Remote Control/ w/Battery/Power code/User Manual/CD quick/smart guide/warranty card/VGA (D-sub 15pin)/cable dust fitter (C SKU)/wall mount installation guide
- Accessories (Optional) –Specify.
Make/Brand – Specify,
Model – Specify
Country of Origin – Specify
Country of Manufacture - Specify
Year of Manufacture – Specify
Device type – Specify
- Supplier should be a manufacture authorized agent in Sri Lanka and proof should be provided – Supplier should have certificate repair centre and Island wide branches for immediate warranty facility.
- Vendors Experience - Supplier should have at least 5 years experience by selling this product.
- Authentication – Supplier should be a manufacture authorized agent in Sri Lanka and proof should be provided.
- Warranty 3 Years – 3 Years comprehensive on-site warranty including all parts and labour and covering against all types of defects and faults related to the product quality and workmanship.
 - Maximum response time of 3 hrs.
 - Maximum resolution time of 8 working hrs.
 - Multimedia projector with similar capabilities.

4.11.2 Multimedia Screen: Matt White Electric Screen (RF Remote), Size - 120"x90", Power AC 220V+(UK) RC.

- *Refer Drawing No: KDU/MA/21/07*

Addendum No. 8

Clause 4 Air condition works (page 2-5) is removed and included as Cls 3

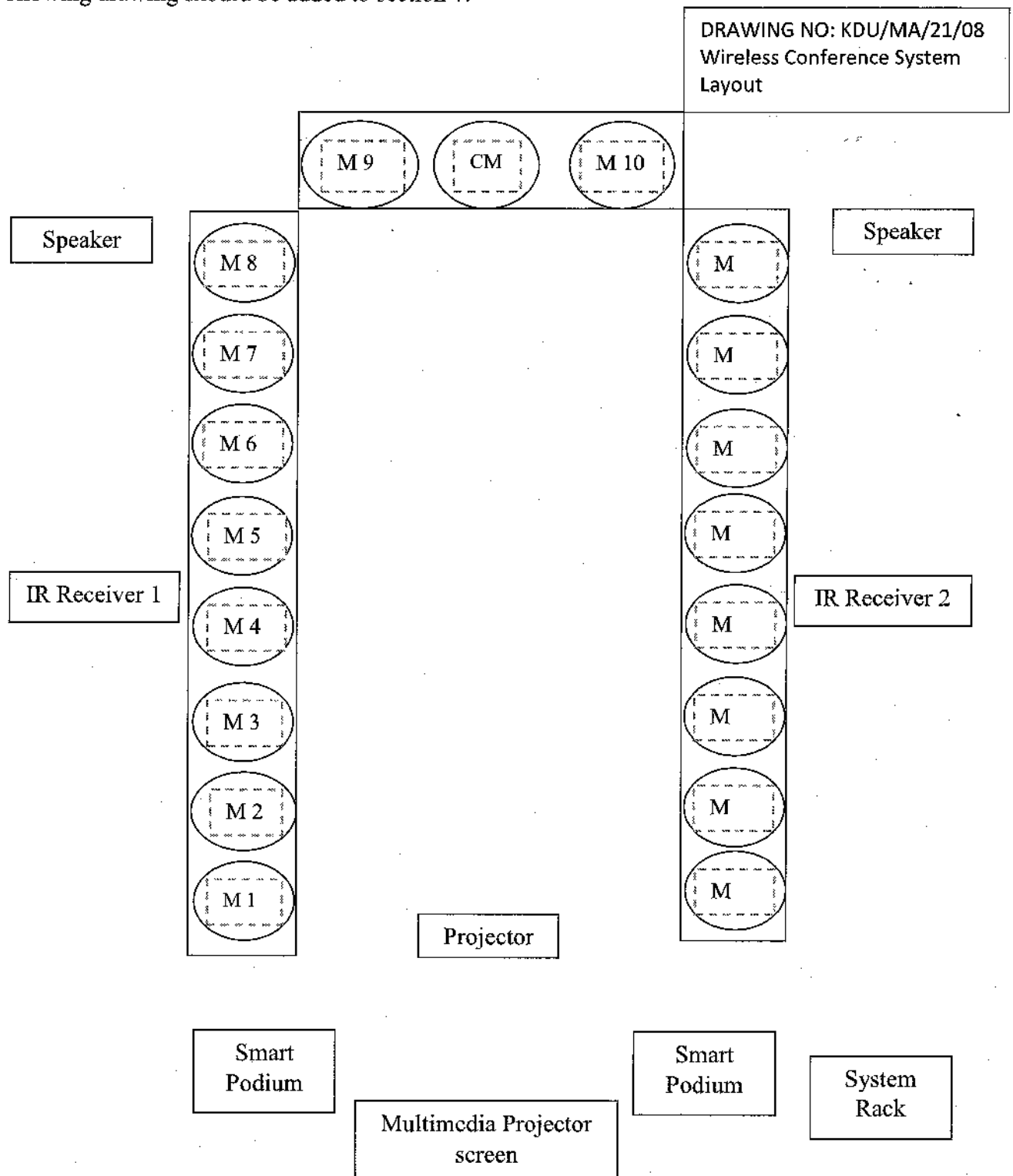
Clause 3.0 Air-conditioning system

The contractor shall supply and install split inverter type air conditioning systems for Mini Auditorium including the control room.

- *Refer Drawing No: KDU/MA/21/04*

Addendum No. 8

Following drawing should be added to section v.



Addendum No. 9**SECTION IV. PRICE SCHEDULES**

| PROPOSED MINI AUDITORIUM FOR GENERAL SIR JOHN KOTHALAWALA DEFENSE UNIVERSITY | | | | | |
|--|--|------|----------------|-----------------|-------------------------|
| Item No | Description | Qty | U.O.M | Unit Value /LKR | Amount (Rs) without VAT |
| A | Ceiling Finishes | | | | |
| A.1 | Concealed Gypsum Ceiling | 76 | m ² | | |
| | Fabricate, supply and installation of suspended gypsum ceiling as per the layout drawing on one different levels made out of internal GI u channel framework cladded with 9mm thick, gypsum boards finished with approved colour emulsion paint. | | | | |
| A.2 | HPL Laminated Concealed Ceiling | 32 | m ² | | |
| | Fabricate, supply and installation of suspended HPL Laminated ceiling as per the layout drawing made out of internal GI u channel framework cladded with MDF boards finished with approved colour HPL Lamination. | | | | |
| Total Ceiling Finishes Works Carried to Summary | | | | | |
| B | Wall Finishes | | | | |
| B.1 | HPL Laminated Concealed Partition | 11 | m ² | | |
| | Fabricate, Supply and installation of single side gypsum partition with internal GI framework cladded with 9mm thk. Gypsum boards finished with putty and emulsion paint finish. | | | | |
| B.2 | Fabric Partition Fabricate, supply and installation fabric wall partition as per the layout drawing made out of internal GI u channel framework cladded with wall fabric material | 29 | m ² | | |
| B.3 | TV Wall Strengthening | 1 | Item | | |
| | Supply and installation of internal GI box bar framework required for TV wall to mount the TV bracket | | | | |
| B.4 | Fixed Glass Panel | 17.5 | m ² | | |
| | Preparation of opening, Supply and installation of 10mm thk. Tempered glass fixed panel with S/S U channel framework | | | | |

| Total Wall Finishes Works Carried to Summary | | | | | |
|---|--|----|----------------|--|--|
| C | Floor Finishes | | | | |
| C.1 | Plain Loop Pile Flooring | 76 | m ² | | |
| | Supply and installation of 20 Oz. per sq.yard plain loop pile wall to wall carpet with under layer as per the layout drawing. | | | | |
| Total Floor Finishes Works Carried to Summary | | | | | |
| D | Furniture | | | | |
| D.1 | Head Table | 1 | Item | | |
| | Fabricate, Supply and installation of Head table consist 18mm thick solid top which covered by melamine laminated board with 50mm decorative edges (by class 1 timber) | | | | |
| D.2 | Board Room Table | | Item | | |
| | Supply and installation Board room table consist 18mm thick solid top which covered by melamine laminated board with 50mm decorative edges (by class 1 timber) | | | | |
| D.3 | Head Table Chairs | 3 | Item | | |
| | Polyurethane leather upholstered high back chair with 5-prong nylon base fixed to castor wheels, polypropylene arms, and height & swivel adjustment with multi-tilt lock mechanism | | | | |
| D.4 | Boardroom Chairs - Type 01 | 16 | Item | | |
| | Polyurethane leather upholstered mid back chair with 5-prong nylon base fixed to castor wheels, polypropylene arms, and height & swivel adjustment with multi-tilt lock mechanism | | | | |
| D.5 | Boardroom Chairs - Type 02 | 14 | Item | | |
| | Polyurethane leather upholstered visitor chair with polypropylene arms and powder coated cantilever base | | | | |
| D.6 | Flag Pole | 5 | Item | | |
| | Supply of solid mahogany timber flag pole. Flags to be supplied by the client. | | | | |
| Total Furniture Works Carried to Summary | | | | | |
| E | Decorative Works | | | | |
| E.1 | Logo | 1 | Item | | |
| | Supply and installation of logo with overall size of | | | | |

| | | | | | |
|--|--|-----|-----|--|--|
| | Lettering: GENERAL SIR JOHN KOTELAWALA DEFENSE UNIVERSITY + LOGO Refer drawing KDU/MA/21/04 | | | | |
| Total Decorative Works Carried to Summary | | | | | |
| F | LV System | | | | |
| F.1 | Supply and Installation of 13A power points including all accessories for tables and general purpose. (Wired as Dedicated circuit from DB) | | | | |
| F.2 | Supply and Installation of power points including all accessories for AC. (Wired as Dedicated circuit from DB) | | | | |
| F.3 | Supply and Installation of Power Cable & Gang Switch with PVC Conduit, Casing All Other Accessories for Electrical Lamp points. (Wired as Dedicated circuit from DB) | | | | |
| F.4 | Supply & Installation of LED Lamp Fittings. | | | | |
| F.4.1 | 5W, LED, Ceiling Recessed Adjustable lamps | 29 | Nos | | |
| F.4.2 | 15W, LED, Ceiling Recessed lamps | 12 | Nos | | |
| F.4.3 | Supply & Installation of flexible LED Strip, 6W per meter, warm | 100 | m | | |
| F.4.4 | 15W, LED, Ceiling Recessed lamps for control Room | 2 | Nos | | |
| F.4.5 | Emergency Power Backup Units for 2Nos of Ceiling Lamps to work during power outage. Wired with additional power line for battery charging. | | | | |
| F.5 | Supply and Installation of Single Phase Power DB for General Lighting and common power sockets. | | | | |
| | (Power for above DB from nearest available service point) & separate power line for AC system | | | | |
| Total Electrical System Works Carried to Summary | | | | | |
| G | ICT Requirement | | | | |

| | | | | | |
|---|--|----|-----|--|--|
| | Wireless Conference System Controller (Refer cl 4.1) | 1 | Nos | | |
| | Micro phone unit including Chairman unit (Refer cl 4.2) | 21 | Nos | | |
| | Smart rostrum (Refer cl 4.3) | 2 | Nos | | |
| | Wall mount Rack Cabinet 18U (Refer cl 4.4) | 1 | Nos | | |
| | Microphone Clip-on (Refer cl 4.5) | 2 | Nos | | |
| | Analog mixing console (Refer cl 4.6) | 1 | Nos | | |
| | Active speaker (Refer cl 4.7) | 1 | Nos | | |
| | UPS | 1 | Nos | | |
| | HDMI Cable | 1 | Nos | | |
| | VGA Cable | 1 | Nos | | |
| | Multimedia projector and screen | 1 | Nos | | |
| ICT Requirement carried to summery | | | | | |
| H | AC system | | | | |
| H.1 | Supply and installation of split inverter type AC units including accessories and ducting and casing works. Capacity to be calculated based on occupation. | 1 | Nos | | |
| Total AC System Works Carried to Summary | | | | | |

ACKNOWLEDGMENT

The Chairman,
Departmental Procurement Committee,
General Sir John Kotelawala Defence University,
Ratmalana,
Sri Lanka.

Renovation of mini auditorium at General Sir John Kothalawala Defence University (KDU/PRO/RP&SER/2520/21)

We have received Addendum No. 1 of the above work.

.....
Name and Address of the Bidder

.....
Signature and Seal / Date