# Subhead-10

# Digital Conference & Multimedia Systems

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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#### 10.1 DIGITAL CONFERENCE SYSTEM (Wired)

#### CENTRAL UNIT 10.1.1

Supply, Installation, testing and commissioning of the central unit with digital display (integrated controller & power supply).

The central unit shall have the following technical features or equivalent:

Web browser-system set-up: CU configuration, delegate set up, seat assignment to the seat, input / output control.

# **Quantity Component**

- 1 CCSD-CU Control Unit
- 1 Mains power cord
- 1 24 VDC power supply
- 2 Sets of chairperson's buttons for a Discussion Device
- 1 Exchange tool for buttons
- 1 Set of feet for table top use
- 1 Set of 19" 1U mounting brackets
- 1 Safety instructions
- 1 Installation note
- 1 DVD with operation manual and supporting tools

# Specification

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)	
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- Front of unit: 1 x 3.5 mm (0.14 in) stereo headphone socket 1 x USB connector
- Rear of unit: 1 x micro USB connector, 4 x RCA outputs for individual microphone recording
- · Built in recorder
- 1 x 4-pole circular female 24 VDC power input Connector
- 2 x 6-pole circular female connectors for loop-through connection of 40 Discussion Devices per trunk

### Mechanical

Mounting: Tabletop

Temperature range: 5° to 45° C

Certifications:

The system in general conforms to the IEC 60914 standard.

Approvals: CE, WEEE1, UL, FCC, CSA, ICES-003, EPS1, CCC1, BSMI1,

EAC

Warranty: Minimum 1 Year

Accepted/approved by the engineer-in-charge.

Each

192,401.00

192,390.00

192,348.00

192,348.00

### 10.1.2 TABLE TOP CHAIRMAN UNIT

Supply, Installation, testing and commissioning of table top chairman unit with microphone and built-in loudspeaker. The chairman unit shall have the following technical features or equivalent:

# Electrical

Power Consumption: 9W to 20W

Frequency Response: 30 Hz to 20 KHz

THD: <0.5% S/N: >93 dBA

Sampling Rate: 44.1 KHz

Ite In No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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#### Acoustical

- Loudspeaker nominal output: 72 dB SPL
- Participants loudspeaker frequency response: 200 Hz to 16 kHz (acoustical)
- · Microphone polar pattern: Cardioid
- Participants microphone frequency response: 125 Hz to 15 kHz
- · Microphone nominal input: 85 dB SPL

Unique patent pending possible-to-speak indicator

Plug and play functionality for ensuring fast installation and reconfiguration time Immunity to mobile phone interference

### **Controls and Indicators**

- · Microphone button,
- · Color-coded LED indicator above microphone button for showing the following states: microphone on request-to-speak, and possible-to-speak,
- · Light-ring indicator in head of microphone
- · Rotary thumbwheel on side of device for adjusting the headphones volume
- Concealed slide-switch at base of Discussion Device for configuring the Discussion Device as a 'participant Discussion Device ' or 'chairperson's Discussion Device', Chairperson's configuration only - separate microphone button and 'priority button' ...

### Connections

- 1 x 6-pole circular female connector with cable
- locking recess for loop-through connection of Discussion Devices
- 1 x 3.5 mm (0.14 in) stereo headphones socket on side of device
- Minimum 1 x 2 m (78.7 in) cable with a 6-pole circular male connector with cable lock

Certifications:

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	The discussion unit conforms in general to the IEC 60914 standard. Approvals CE, WEEE1,UL, FCC,CSA, ICES-003			1		9
	Warranty: 1 Year					
	Accepted/approved by the engineer-in-charge.	Each	40,554.00	40,543.00	40,501.00	40,501.00

### 10.1.3 TABLE TOP DELEGATE UNIT

Supply, installation, testing and commissioning of table top delegate unit with microphone and built-in loudspeaker. The delegate unit shall have the following technical features or equivalent:

### **Electrical**

**Power Consumption** 

: 9W to 20W

Frequency Response

: 30 Hz to 20 KHz

THD

: < 0.5%

S/N

: >93 dBA

Sampling Rate

: 44.1 KHz

Unique patent pending possible-to-speak indicator

Plug and play functionality for ensuring fast installation and

reconfiguration times

Immunity to mobile phone interference

**Controls and Indicators** 

Ite m No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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- Microphone button
- · Color-coded LED indicator above microphone button for showing the following states: microphone on, request-to -speak, and possible-to-speak
- · Light-ring indicator in head of microphone
- · Rotary thumbwheel on side of device for adjusting the headphones volume
- · Concealed slide-switch at base of Discussion Device for configuring the Discussion Device as a 'participant Discussion Device ' or 'chairperson's Discussion Device', Chairperson's configuration only - separate microphone button and 'priority button'.

### Connections

- •1 x 6-pole circular female connector with cable
- locking recess for loop-through connection of Discussion Devices
- •1 x 3.5 mm (0.14 in) stereo headphones socket on side of device
- Minimum 1 x 2 m (78.7 in) cable with a 6-pole circular male connector with cable lock

### Mechanical

- Mounting Tabletop (portable or fixed)
- Material (top) Plastic ABS+PC

### Interconnections

LAN: Two RJ45 female sockets with auto-termination.

### Mechanical

Mounting: Tabletop.

Temperature range: 5° to 45° C.

### Certifications

The discussion unit conforms in general to the IEC 60914 standard

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	Approvals CE, KC,CCC, cUL, TUV					
	Warranty: Minimum 1 Year					
	Accepted/approved by the engineer-in-charge.	Each	39,940.00	39,929.00	39,888.00	39,888.00
10.1.4	EXTENSION UNIT					
	Supply, Installation, testing and commissioning of the Extension Unit					
	The Extension Unit shall have the following technical features or equivalent:					
	Electrical					
	<ul> <li>Supply Voltage Adaptor: 100 to 240 VAC, 50Hz</li> </ul>					
	• Current Consumption Voltage Adaptor: 1.9 A (100 VAC) to 1A 240					*
	(VAC)					
	• DC Voltage Control Unit: 24V, 6.0 A					
	• Maximum Number of Discussion Devices per Extension Unit: 40					
	Discussion Devices per trunk/ tap-off 85 Discussion Devices in total 24 V, Max 5.2 A (short circuited protected)					
	Automatic Power up: The extension unit is switched on or off automatically with the control unit			, (		
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item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	Controls and indicators				<u> </u>	
	• Front Panel: 1x power on/off					
	• Rear Panel:					
	- 1x 2 meter cable with 6 pole circular male connector for connection to the					
	Control Unit or previous component in the daisy-chain					
	- 1x 6 pole circular female connector for trunk connection of the devices					
	(maximum of 40 devices per trunk)					
	- 2x 6 pole circular female connectors for tap-off connection of the					
	Discussion Devices (maximum of 40 Discussion Devices per tap-off, with					
	a maximum of 85 Discussion Devices per Extension Unit)					
	- 1x 4 pole circular female 24 VDC power input connector					
	Environmental Operating temperature: 5° to 45° C Approvals CE, WEEE, UL, FCC, CSA, KCC, RCM, EAC					
	Warranty: Minimum 1 year					
	Accepted/approved by the engineer-in-charge.	Each	192,401.00	192,390.00	192,348.00	192,348.0
10.1.5	EXTENSION CABLE					
	Supply, Installation, testing and commissioning of extension cable. The extension cable shall have the following technical features or equivalent:					
	Cable terminated at both ends with a molded six-pole circular, Connector (male and female). The extension to the type number, Gives the length of the cable.					
	Technical Specifications				A COS	
	Dimensions: 6mm				1	
	Material: PVC		a X			· /
	05m (16.5 feet), terminated with connectors	(	L A	NA.	(1)	K
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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	Cable terminated at both ends with a molded six-pole circular					
	Connector (male and female)  The extension to the type number Gives the length of the cable.					
	Technical Specifications					
	Dimensions: 6mm					
	Material: PVC					
	Minimum 10m (33.0 feet), terminated with connector					
	Warranty: Minimum 1 Year					
	Accepted/approved by the engineer-in-charge.					
		Each	25,154.00	25,143.00	25,102.00	25,102.00
10.2	DIGITAL CONFERENCE SYSTEM (WIRELESS)					
10.2.1	Wireless Conference Access Point with web server					
	Supply, Installation, testing and commissioning of Wireless Conference Access Point					
	The Wireless Conference Access Point shall have the following technical features or equivalent:					
	Electrical					
	Supply Voltage: 24 V (24V-15W ACDC adapter), 48 V (PoC)					
	Power Consumption: 7W to 10W					
	Ethernet Port: LAN, TCP/IP Modulation: OFDM					
	Transmitting Power: <20dBm					
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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	Connectivity					
	Power connector					
	RJ45 LAN connection, RJ45in from engine, RJ45 out to next access Point					
	Capacity: 2048 delegate or chairman units					
	Range: 30 m (Minimum)					
	Modulation: OFDM					
	RF: Quad-Band 2.4 GHz and 5 GHz					
	Security: 3 layers with 128 bit AES encryption					
	Control: Built in web server for Browser based control from any device					
	Camera control integration capable					
	Two overload activity					
	LEDs					
	Three R-SMA antenna connectors					
	6.3 mm jack balanced analog in and out					
	CE Certified					
	Operating temperature: 5° - 50°C					
	Material: Aluminium					
	Warranty: Minimum 1 Year					
	Accepted/approved by the engineer-in-charge.	Each	331,978.00	331,967.00	331,925.00	331,925.0
10.2.2	Wireless Conference Chairman Unit					
	Supply, Installation, testing and commissioning of the Wireless Conference					
	Chairman Unit					
	The Wireless Conference Chairman Unit shall have the following technical					
	features or equivalent :	sum 'm u			0.0	
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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Sylhet Zone	Unit Rate in Khulna,Barishal & Gopalganj	Unit Rate in Rajshahi & Rangpur
<ul> <li>Wireless</li> </ul>	chairman unit with built-in loudspeaker, microphone	200000000	` '	(Tk)	(Tk)	(Tk)

- prior and next-in-line button
- · GSM immune gooseneck microphone of 40 cm with bi-colour led ring indication (red / green)
- · Windscreen included
- · Lithium-ion Battery pack for wireless Conference unit
- Microphone on/off or request-to-speak button with two signaling LEDs
- · Two headphone outputs
- One headphone volume adjustment; Priority button; Next-in-line button
- · Battery and range status color LED
- · CE Certified
- · Material: PC/ABS
- · Audio quality: 16 bit digital
- · Security: Three layers with 128 bit AES encryption
- Display type: OLED 128 x 64 or equivalent
- Operating temperature: -5 to 55°C
- · Battery capacity: Minimum 6600 mAh
- Battery autonomy: Minimum 28 hours on single charge
- · Built-in high-quality loudspeaker which is automatically muted when the microphone is active, to prevent acoustic feedback.

Warranty: Minimum 1 Year

Accepted/approved by the engineer-in-charge.

Each	150,375.00	150,364.00	150,322.00	150 322 00
		100,004.00	150,522.00	150,322,00

#### 10.2.3 Wireless Conference Delegate Unit

Supply, Installation, testing and commissioning of the Wireless Conference Delegate Unit

The Wireless Conference Delegate Unit shall have the following technical features or equivalent:

te m No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
9	<ul> <li>Wireless delegate unit with built-in speaker and microphone connecte</li> <li>GSM immune gooseneck microphone of 40 cm with bi-colour led indication (red / green)</li> </ul>					2

- · Windscreen included
- · Lithium-ion Battery pack for wireless Conference unit
- Microphone on/off or request-to-speak button with two signaling LEDs
- · Two headphone outputs
- · One headphone volume adjustment
- Next-in-line button
- · Battery and range status color LED
- · CE Certified
- · Material: PC/ABS
- · Audio quality: 16 bit digital
- Security: Three layers with 128 bit AES encryption
- Display type: OLED 128 x 64 or equivalent
- Operating temperature: -5 to 55°C
- · Battery capacity: Minimum 6600 mAh
- Battery autonomy: Minimum 28 hours on single charge
- Built-in high-quality loudspeaker which is automatically muted when the microphone is active, to prevent acoustic feedback

Warranty: Minimum 1 Year

Accepted/approved by the engineer-in-charge.

Each

140,558.00

140,547.00

140,506.00

140,506.00

# 10.2.4 Wireless Conference Battery Charging Tray

Charging tray for 6 battery packs 19" rack mountable

Material: PC/ABS

Supply Voltage: 100 - 230 VAC

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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	Output power: 100 W	September 1				
	Operating temperature : -100 to 60°C					
	Loop-through mains connector					
	CE Certified					
	Warranty: Minimum1 Year					
	Accepted/approved by the engineer-in-charge.	Each	122,766.00	122,755.00	122,713.00	122,713.00
10.2.5	Two Nos Tracking Camera for Conference System Including Software					

Supply, Installation, testing and commissioning of Two Nos Tracking

Camera for Conference System Including Software

The Conference Camera shall have the following technical features or

equivalent:

Sensor: 1/2.8" 2 MP CMOS or above

Video Output: 1080p 60 / 59.94 / 50 fps, 1080i 60 / 59.94 / 50 fps, 1080p

30 / 29.97 / 25 fps, 720p 60 / 59.94 / 50 fps

Optical Zoom: 20×

Panning Angle:  $-170^{\circ} \sim +170^{\circ}$ Tilting Angle:  $-30^{\circ} \sim +90^{\circ}$ 

Preset Positions: 128

Video Output (HD) Interface: 3G-SDI

PoE: PoE+ (IEEE802.3at)

Camera Control Interface: RS-232 / RS-422 / Ethernet

Camera Control Protocol: VISCA / PELCO D

Video S/N Ratio: > 50dB

Shutter Speed:  $1/1 \sim 1/10,000 \text{ sec}$ Focal Length:  $f = 4.7 \sim 94 \text{ mm}$ 

3D NR: Yes

Horizontal Viewing Angle: 63° or above

Aperture:  $F1.6 \sim 3.5$ 

Minimum Illumination: 1.0 lux (F1.6, 50 IRE, 30fps)

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Minimum Object Distance: 1.2m Gain Control: Auto, manual

White Balance: Auto, indoor, outdoor, one-push, manual

Exposure Control: Auto, manual

Image Flip: Yes

Audio Input : Line In / MIC In

Audio Output: Ethernet, SDI and HDMI

### Camera Software

- · Software for setting up tracking camera to current speaker
- Automatic camera tracking works by creating camera presets for each microphone location in the room
- With the software, the installer can pan, tilt, and zoom the camera to different positions and can save these positions as camera presets that can be recalled automatically when microphones become active
- Two or more cameras are used to ensure the current view is shown until the second camera has moved and is ready to show its view. This ensures a smooth transition of video without showing the camera motion during the pan, tilt, or zoom maneuvers
- A camera typically takes only a second or two to move to a new position before the video switcher transitions to that camera view.

### **Broadcast Device**

Total Video Inputs: 8 (Minimum) Total Video Outputs: 8 (Minimum) SDI Rates: 270Mb, 1.5G, 3G

SDI Video Inputs: 4 x 10-bit SD/HD switchable. 2 channel embedded

audio

SDI Program Output: 5 × 10-bit SD/HD switch-able

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SD Video Stand 16:9 HD Video Stand 1080p25, 1080p SDI Compliance	outs: 2 Chembedded into SDI output dards: 525i59.94 NTSC 4:3 or 16:9, 625i50 PAL 4:3 or	THE STREET	Zone (Tk)	Sylhet Zone (Tk)	Khulna,Barishal & Gopalganj (Tk)	Rajshahi & Rangpur (Tk)
HD Video St. 1080p25, 1080p SDI Compliance	dards: 525159.94 NTSC 4:3 or 16:9, 625150 PAI 4:3 or			N. I.	(11)	(1K)
HD Video St. 1080p25, 1080p SDI Compliance	01 1013, 023130 TAE 4.3 01					
SDI Compliance	andards: 720p50, 720p59.94 1080p23.98, 1080p24,					
SDI Compliance	29.97, 1080p50, 1080p59.94, 1080i50, 1080i59.94					
	e: SMPTE 259M, 292M and 424M					
Video Samplina						
video Samping	: 4:2:2 10-bit					
Color Precision						
Color Space : 4:						
	1 x internal 110 – 240V AC					
Operating Temp	erature : 5° C to 40° C (41° - 104°F)					
Storage Tempera	nture: -10° to 60° C (14° to 140°F)					
Relative Humidi	ty: 0% to 90% non-condensing					
Warranty : Minir	num 1 Year ved by the engineer-in-charge.					
лесеріса/арріо	ved by the engineer-in-charge.	Each	1,473,133.00	1,473,122.00	1,473,080.00	1,473,080.00
10.2.5.1 Integrated Cam	era					1,170,000.00
0	on, testing and commissioning of integrated camera which					
has the following	technical specification or equivalent:					
Sensor: 1/2.8" 2	MP CMOS or above					
Video Output: 1	080p 60 / 59.94 / 50 fps, 1080i 60 / 59.94 / 50 fps, 1080p					
30 / 29.9 / / 25 fp	s, 720p 60 / 59.94 / 50 fps					
Optical Zoom: 20	)×					
Panning Angle: -						
Tilting Angle: -30 Preset Positions:						
rieset Positions:	128			1.7	Offins,	
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	Video Output (HD) Interface : 3G-SDI PoE: PoE+ (IEEE802.3at) Camera Control Interface: RS-232 / RS-422 / Ethernet Camera Control Protocol : VISCA / PELCO D Video S/N Ratio: > 50dB Shutter Speed: 1/1 ~ 1/10,000 sec Focal Length: f = 4.7 ~ 94 mm					
	3D NR: Yes Horizontal Viewing Angle: 63° Aperture: F1.6 ~ 3.5 Minimum Illumination: 1.0 lux (F1.6, 50 IRE, 30fps) Minimum Object Distance: 1.2m Gain Control: Auto, manual					
	White Balance: Auto, indoor, outdoor, one-push, manual Exposure Control: Auto, manual Focus System: Auto, manual Image Flip: Yes Audio Input: Line In / MIC In Audio Output: Ethernet, SDI and HDMI Warranty: Minimum 1 Year Accepted/approved by the engineer-in-charge.		206 762 00	206 762 00	306,762.00	306,762.00
10.3 10.3.1	MULTIMEDIA PROJECTOR Supply, installation, testing, commissioning multimedia projector including all necessary accessories & Warranty/Service Support of following technical specification or equivalent: Projection Technology: RGB liquid crystal shutter projection system (3LCD)	Each	306,762.00	306,762.00	0	
	Brightness: 5,000lm or above Connectivity: Network: Wired LAN: RJ45 x 1 Wireless: Optional Analog Input: D-Sub 15Pin: 2 (1 Blue, 1 Black)		3. X	Charles Comments	Ale Char	AK .

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Composite : 1Digital Input : HDMI: 2

HDBASET (RX): N/AOutput Terminal: D-Sub 15Pin: 1 (Black)

Audio Input : RCA (White/Red): 1 Stereo Mini Jack: 2Audio Output: Stereo

Mini Jack: 1Control

USB Type B: 1 (for USB Display, Mouse, K/B, Control, Firmware

Update, Copy OSD Settings) Contrast Ratio: 15,000:1

Screen Size (Projected Distance): Zoom: Wide: 50" - 300" [1.46 - 8.95 m]

Zoom: Tele: 50" -300" [2.43 - 14.79 m]

Operating Temperature: Below 2,286m / 7,500ft: 5 - 40 °C <41 - 104 °F > Above 2,286m / 7,500ft (w/ High Altitude Mode): 5 - 35 °C <41 - 95 °F >

Sound Output: 16W

Power Consumption: (220 - 240V)

Lamp On (Normal/Eco): 405W / 323WNetworked Standby (maximum)

Energy Saving: 2.41W / 0.31W

Fan Noise (Normal/Eco): 39dB / 29dB

LCD: Size: 0.76" (D10, C2 Fine)

Native Resolution: WUXGA (1920 x 1200)

Projection Lens: Type: Optical Zoom (Manual) / Focus (Manual)

F-Number: 1.5 - 2.0

Focal Length: 23 - 38.4 mm

Zoom Ratio: 1 - 1.6

Throw Ratio: 1.38 - 2.28 (Wide to Tele)Lamp: Type: Lamp Life (Normal / Eco)\*1: 5,000 / 10,000 hours (Minimum)

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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	Suitable for use in tropical country like BANGLADESH. Complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified.  Warranty: Minimum 1 Year			1	ey es	4
	Accepted/approved by the engineer-in-charge.	Each	257,926.00	257,815.00	257,398.00	257,398.00
10.3.2	Supply, installation, testing, commissioning multimedia projector including all necessary accessories & Warranty/Service Support of following technical specification or equivalent:					
	Projection Technology: 3LCD Technology, RGB liquid crystal shutter					
	LCD Panel: 0.59 inch with MLA (D9)					
	Image Size(Projected Distance): 33" to 320" 1.68 m - 2.02 m ( 60 inch screen)					
	Projector Lens: Optical					
	Lamp Type: UHE, 210 W, 6,000 h durability, 10,000 h durability (economy mode)					
	Native Resolution: WXGA, 1280 x 800, 16:10					
	Brightness: 3,300 Im or above					
	Contrast Ratio: 15,000 : 1					
	Noise Level: 37 / 28 dB					
	Connectivity: USB 2.0 Type A, USB 2.0 Type B, VGA in, HDMI					
	in, Composite in, Cinch audio in, Wireless LAN IEEE 802.11b/g/n (optional)					
	Environment: Temperature Operation : 5° C - 35° C, Storage -10° C - 60°					ž.
	C; Humidity Operation: 20% - 80%, Storage 10% - 90%				$\Omega$	
	Sound Output: 2 Watt				Est.	
	Power: 282 Watt, 203 Watt (economy), 0.2 Watt (standby)			a	/ X	$\sim$
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Item No.		Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	Included Accessories: Main unit, Power cable, Quick Start Guide, Remote control incl. batteries, User manual (CD),VGA cable		er.			
at	Advanced Features: AV mute slide, Automatic keystone correction, Built- in speaker, Horizontal and vertical keystone correction, Long lamp life, Quick Corner					
	Suitable for use in tropical country like BANGLADESH.Complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified.					
	Warranty: Minimum 1 Year Accepted/approved by the engineer in charge					
		Each	55,463.00	55,352.00	54,935.00	54,935.00
10.4	MULTIMEDIA SCREEN Supply, installation, testing, commissioning multimedia projector screen including all necessary accessories & Warranty/Service Support of following technical specification or equivalent:					
10.4.1	5' x 5'					
0.4.1.1	Tripod (High Contrast Gray Screen)	Each	3,681.00	3,680.00	3,676.00	3,676.00
0.4.1.2	Manual wall / ceiling screen	Each	3,558.00	3,557.00	3,554.00	3,554.00
0.4.1.3	Motorized/ Electric screen	Each	8,099.00	8,097.00	8,094.00	8,094.00
10.4.2	6' x 6'					50.00 January 2000
0.4.2.1	Tripod (High Contrast Gray Screen)	Each	3,927.00	3,925.00	3,922.00	3,922.00
0.4.2.2	Manual wall / ceiling screen	Each	3,681.00	3,680.00	3,676.00	3,676.00
0.4.2.3	Motorized/ Electric screen	Each	9,326.00	9,324.00	9,321.00	9,321.00
10.4.2	71 - 71					
10.4.3	Tripod (High Contrast Gray Screen)			AND DESCRIPTION		
		Each	7,976.00	7,975.00	7,971.00	7,971.00
	Manual wall / ceiling screen	Each	6,749.00	6,748.00	6,744.00	6,744.00
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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
10.4.3.3	Motorized/ Electric screen	Each	13,007.00	13,005.00	13,002.00	13,002.00
10.4.4.1 10.4.4.2	8' x 8' Tripod (High Contrast Gray Screen) Manual wall / ceiling screen Motorized/ Electric screen	Each Each Each	11,166.00 9,203.00 15,461.00	11,165.00 9,202.00 15,460.00	11,161.00 9,198.00 15,456.00	11,161.00 9,198.00 15,456.00
10.4.5 10.4.5.1 10.4.5.2	10'x7.5' Manual wall / ceiling screen (Manual 150" Diagonal) Motorized/ Electric screen (Motorized 150" Diagonal)	Each Each	11,412.00 20,369.00	11,410.00 20,368.00	11,407.00 20,364.00	11,407.00 20,364.00
100 CO	12'x9' Motorized/ Electric screen (Motorized 180" Diagonal)	Each	43,069.00	43,068.00	43,064.00	43,064.00
10.4.7 10.4.7.1	14'x14' Motorized/ Electric screen (Motorized 238" Diagonal)	Each	76,200.00	76,198.00	76,195.00	76,195.00
10.4.8 10.4.8.1	16'x16' Motorized/ Electric screen (Motorized 272" Diagonal)	Each	147,369.00	147,367.00	147,364.00	147,364.00

#### PROFESSIONAL DISPLAY SOLUTION (INDOOR) 10.5

# 10.5.1.1 Interactive Display

10.5.1.1 Supply, installation, testing, commissioning of 65 Inch All in One Interactive Display including all necessary accessories & Warranty/Service Support of following technical specification or equivalent

Panel

Item No.  Screen Size: 65 in	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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Panel Technology: IPS Back Light Type: M+, Direct

Aspect Ratio: 16:9

Native Resolution: 3,840 X 2,160 (UHD)

Brightness:Tpy: 350 cd/m2 (W/Protection Glass)

Contrast Ratio: 1,200:1,

Viewing Angle (HXV) : 178 X 178 (minimum)

Response Time: 9 ms (Gto G) Life Time (Typ): 30,000 Hrs (Min)

Operation Hours: 16Hrs, Orientation: Landscape

# Connectivity (Input)

Video/Audio: HDMI (3) RGB / Audio In,

External control: RS232C In, RJ45,

USB: USB 2.0 (3, Front : 2ea, Bottom side: lea, Only for software

update), USB 3.0 (3), Touch Out(USB2.0,B Type)

# Connectivity (Output)

Video/Audio: HDMI (1), Optical Output / Audio Out

**Mechanical Specification** 

Mount Interface: 600 X 400

# **Key Features**

HW: Internal Memory (16GB), SoC (Hisi 811, Dual core A73+Dual core

A53), DDR(3GB)

Wi-Fi(Built-in, Slot type)

Power Indicator, Local Key Operation(1, Power button)

SW: Android 8.0 or updated

# **ENVIRONMENT CONDITIONS**

Operation Temperature: 0 °C to 40 °C, Operation Humidity: 10 % to 80 %

Item No. D	escription of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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### **POWER**

Power Supply: 100-240V~, 50Hz Power Type: Built-In Power

Power Consumption (Maximum): 240W / 280W

**SOUND** 

Speaker: Built in 24W (12W + 12W)
STANDARD (CERTIFICATION)

Safety: UL / cUL / CB, EMC: FCC Class "A" / CE, ErP / Energy Star: Yes

/ No

MEDIA PLAYER COMPATIBILITY

OPS type compatible: Yes

**ACCESSORIES** 

Basic: Power Cord 3 M\*1, USB Cable (Type A-Type B) 5 M\*1, HDMI Cable 3 M\*1, Writing Pen\*2pcs, User Manual, QSG,Remote Control

### SPECIAL FEATURES

Embedded Writing Software: Yes TOUCH SPECIFICATIONS

Touch type: IR, Available object

size for touch: Ø3 mm ↑

Response Time: 60ms ↓ (Android) / 100ms ↓ (Windows)

Accuracy: ±1.5mm Interface: USB 2.0

Protection Glass Thickness: 4T (Anti-Glare)

Protection Glass Transmission: 87%

Operating System Support: Windows 7/8/10/ WindowsXP/Linux/ Mac/

Android (WindowsXP/Linux/Mac Support one point touch)

Multi touch point: Max 20 Point Warranty: Minimum 1 Year

Accepted/approved by the engineer in charge

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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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.5.1.2 Supply, installation, testing, commissioning of 75 Inch All in One Interactive Display including all necessary accessories & Warranty/Service Support of following technical specification or equivalent.

# Panel

Screen Size: 75 inch Panel Technology: IPS

Back Light Type: M+, Direct,

Aspect Ratio: 16:9

Native Resolution: 3,840 X 2,160 (UHD)

Brightness: Tpy:330 cd/m2 (W/Protection Glass)

Contrast Ratio: 1,100:1

Viewing Angle (HXV): 178 X 178 or above

Response Time: 8 ms (Gto G), Life Time (Typ): 30,000 Hrs (Min) Operation Hours: 16Hrs (Minimum)

Orientation: Landscape

# Connectivity (Input)

Video/Audio: HDMI (3), RGB / Audio In,

External control: RS232C In, RJ45

USB: USB 2.0 (3, Front : 2ea, Bottom side: 1ea, Only for software

update), USB 3.0 (3), Touch Out(USB2.0,B Type) (2)

# Connectivity (Output)

Video/Audio: HDMI (1), Optical Output / Audio Out

# **Mechanical Specification**

VESATM Standard Mount Interface: 800 X 400

# **Key Features**

HW: Internal Memory (16GB), SoC (Hisi 811, Dual core A73+Dual core A53), DDR(3GB), Wi-Fi(Built-in, Slot type), Power Indicator, Local Key Operation(1, Power button), SW: Android 8.0 or updated

**ENVIRONMENT CONDITIONS** 

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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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Operation Temperature: 0 °C to 40 °C, Operation Humidity: 10 % to 80 %

### **POWER**

Power Supply: 100-240V~, 50 Hz Power Type: Built-In Power

Power Consumption(Typ./Max): 260W / 300W

**SOUND** 

Speaker: Built in 24W (12W + 12W) STANDARD (CERTIFICATION)

Safety: UL / cUL / CB, EMC: FCC Class "A" / CE, ErP / Energy Star: Yes

/ No

### MEDIA PLAYER COMPATIBILITY

OPS type compatible: Yes

### ACCESSORIES

Basic: Power Cord 3 M\*1, USB Cable (Type A-Type B) 5 M\*1, HDMI Cable 3 M\*1, Writing Pen\*2pcs, User Manual, QSG, Remote Control

### SPECIAL FEATURES

Embedded Writing Software: Yes

# **TOUCH SPECIFICATIONS**

Touch type: IR

Available object size for touch: Ø3 mm ↑

Response Time: 60ms ↓ (Android) / 100ms ↓ (Windows)

Accuracy: ±1.5mm Interface: USB 2.0

Protection Glass Thickness: 4T (Anti-Glare)

Protection Glass Transmission: 87%

Operating System Support: Windows 7/8/10/ WindowsXP/ Linux/Mac/ Android (WindowsXP/Linux/Mac Support one point touch), Multi touch

point: Max 20 Point

Warranty: Minimum 1 Year

Accepted/approved by the engineer in charge

Each

927,409.00

927,404.00

Item No.		Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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10.5.1.3 Supply, installation, testing, commissioning of 86 Inch All in One Interactive Display including all necessary accessories & Warranty/Service Support of following technical specification or equivalent.

### Panel

Screen Size: 86 inch Panel Technology: IPS

Back Light Type: RGB, Direct

Aspect Ratio: 16:9

Native Resolution: 3,840 X 2,160 (UHD)

Brightness: Tpy:330 cd/m2 (W/Protection Glass)

Contrast Ratio: 1,100:1

Viewing Angle (HXV): 178 X 178 (minimum)

Response Time: 8 ms (Gto G) Life Time (Typ): 30,000 Hrs (Min)

Operation Hours: 16Hrs, Orientation: Landscape

## Connectivity (Input)

Video/Audio: HDMI (3), RGB / Audio In External control: RS232C In, RJ45

USB: USB 2.0 (3, Front : 2ea, Bottom side: 1ea, Only for software

update), USB 3.0 (3), Touch Out(USB2.0,B Type) (2)

# Connectivity (Output)

Video/Audio: HDMI (1), Optical Output / Audio Out

# **Mechanical Specification**

VESATM Standard Mount Interface: 800 X 600

# **Key Features**

HW: Internal Memory (16GB), SoC (Hisi 811, Dual core A73+Dual core A53), DDR(3GB), Wi-Fi(Built-in, Slot type), Power Indicator, Local Key Operation(1, Power button), SW: Android 8.0 or updated

# **ENVIRONMENT CONDITIONS**

Item No.	Description of Items	The first of the f	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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Operation Temperature: 0 °C to 40 °C, Operation Humidity: 10 % to 80 %

### **POWER**

Power Supply: 100-240V~, 50 Hz Power Type: Built-In Power

Power Consumption(Typ./Max): 400W / 450W

### SOUND

Speaker: Built in 24W (12W + 12W) STANDARD (CERTIFICATION)

Safety: UL / cUL / CB, EMC: FCC Class "A" / CE, ErP / Energy Star:

### MEDIA PLAYER COMPATIBILITY

OPS type compatible: Yes

### **ACCESSORIES**

Basic : Power Cord 3 M\*1, USB Cable (Type A-Type B) 5 M\*1, HDMI Cable 3 M\*1; Writing Pen\*2pcs, User Manual, QSG, Remote Control

### **SPECIAL FEATURES**

Embedded Writing Software: Yes

TOUCH SPECIFICATIONS

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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	Touch type: IR  Available object size for touch: Ø3 mm ↑  Response Time: 60ms ↓ (Android) / 100ms ↓ (Windows)  Accuracy: ±1.5mm  Interface: USB 2.0  Protection Glass Thickness: 4T (Anti-Glare)  Protection Glass Transmission: 87%  Operating System Support: Windows 7/8/10/ WindowsXP/Linux/Mac/  Android (WindowsXP/ Linux/Mac Support one point touch)  Multi touch point: Maximum 20 Point  Warranty: Minimum 1 Year  Accepted/approved by the engineer in charge					
		Each	1,203,781.00	1,203,780.00	1,203,776.00	1,203,776.00
10.5.2.1	Indoor LED Video Wall (Category A)  Supply, installation, testing and commissioning of Indoor LED Video Wall Display including Controller, Processor & Mounting accessories of following specifications or equivalent:  Pixel Pitch: Maximum 2.97mm  Brightness: Minimum 1000 nits Brightness  Pixel Density: Minimum 112,896 (pixels/m²)  Visual Viewing Angle (Horizontal/Vertical): 160°/160° or above  Power Supply (V): 100 to 240V AC 50Hz					
	Frame Rate (Hz): 50/60 Refresh Rate (Hz): Minimum 2880 Operating Temperature: -10°C to +45°C		2 Or	De Die	(4)	

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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	IP Rating (Front / Rear): IP30 / IP30 minimum Certification: CE,FCC,ETL Warranty: Minimum 1 year Brand: product of South Korea, Japan, EU Countries or equivalent accepted/approved by the engineer-in-charge.				7	(TK)
	Supply, installation, testing and commissioning of Indoor LED Video Wall Display including Controller, Processor & Mounting accessories of following specifications or equivalent:	Per Sqft	63,254.00	63,252.00	63,249.00	63,249.00
	Pixel Pitch: Maximum 1.25mm Brightness: Minimum 600 nits to 1200 nits Brightness Pixel Density: Minimum 640,000 (pixels/m2) Visual Viewing Angle (Horizontal/Vertical): 1700/1700 or above Power Supply (V): 100 to 240 V AC 50 Hz Frame Rate (Hz): 50/60					
] ( ) I	Refresh Rate (Hz): Minimum 3840 IP Rating (Front / Rear): IP20 / IP20 Minimum Certification: ISO, RoHS, Safety 60950-1, EMC Class B Warranty: Minimum 1 year Brand: product of South Korea, Japan, EU Countries or equivalent accepted/approved by the engineer-in-charge.					
10.5.3.1 S	Indoor LED Video Wall (Category B) Supply, installation, testing and commissioning of Indoor LED Video Wall Display including Controller, Processor & Mounting accessories of Collowing specifications or equivalent:	Per Sqft	325,411.00	325,410.00	325,407.00	325,407.00

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	Pixel Pitch: Maximum 3.12mm					
	Brightness:Minimum 800 nits Brightness					
	Pixel Density:Minimum 100,000 pixels/m <sup>2</sup> Visual Viewing Angle (Horizontal/Vertical) : 140 <sup>0</sup> /140 <sup>0</sup> or above					
	Power Supply (V): 110-220 V AC, 50 Hz					
	Operating Temperature: $-10^{\circ}$ C to $+40^{\circ}$ C					
	Frame Rate (Hz): 50/60					
	Refresh Rate (Hz): Minimum 2880					
	IP Rating (Front / Rear): front IP30 minimum/rear IP21 minimum					
	CE certified					
	Warranty: Minimum 1 year Installation with Controller, Processor & Mounting accessories	&				
	Warranty/Service Support					
. /	20	Per Sqt	ft 19,295.00	19,294.00	19,290.00	19,290.00
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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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10.5.3.2 Supply, installation, testing and commissioning of Indoor LED Video Wall Display including Controller, Processor & Mounting accessories of following specifications or equivalent:

Pixel Pitch: 1.25mm

Brightness: 600 nits Brightness

Visual Viewing Angle (Horizontal/Vertical): 1600/1600 or above

Pixel Density: 640,000 pixels/m2 or above Power Supply (V): 110-220 V AC, 50 Hz Operating Temperature : -100C to + 400C

Frame Rate (Hz): 50/60

Refresh Rate (Hz): Minimum 3840 Hz

IP Rating (Front / Rear): Front IP20 minimum/ Rear IP20 minimum

CE certified

Warranty: Minimum 1 year

Installation with Controller, Processor & Mounting accessories &

Warranty/Service Support

Per Sqft

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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
10.5.3.3	Supply, installation, testing and commissioning of Indoor LED Video Wall Display including Controller, Processor & Mounting accessories of following specifications or equivalent:	0 1		*		
	Pixel Pitch: 1.87mm  Brightness: 600 nits Brightness  Visual Viewing Angle (Horizontal/Vertical): 1600/1600 or above  Pixel Density: 284,444 pixels/m2 or above  Power Supply (V): 110-220 V AC, 50 Hz  Operating Temperature: -100C to + 400C  Frame Rate (Hz): 50/60  Refresh Rate (Hz): Minimum 3840 Hz  IP Rating (Front / Rear): Front IP40 minimum/ Rear IP21 minimum  CE certified  Warranty: Minimum 1 year  Installation with Controller, Processor & Mounting accessories & Warranty/Service Support					
		Per Sqft	56,637.00	56,635.00	56,632.00	56,632.00
10.6.1	PROFESSIONAL DISPLAY SOLUTION (OUTDOOR)  Category A  Outdoor LED Video Wall Display  Line  A  A  A  A  A  A  A  A  A  A  A  A  A		& (	My My	62 (w)	

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Item No. Description of Items	Unit Rate in Dhaka Unit & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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Supply, installation, testing and commissioning of Outdoor LED Video Wall Display including Controller, Processor & Mounting accessories of following specifications or equivalent:

Pixel Pitch: Maximum 3.91mm Brightness:Minimum 5000 nit

Pixel Density: Minimum 65,536 pixels/m<sup>2</sup>

Visual Viewing Angle (Horizontal x Vertical) :  $160^{0} \times 155^{0}$  or higher

Contrast Ratio: 6,000 or higher

Power Supply (V): 100 to 240 V AC 50 Hz

Frame Rate (Hz): 50/60

Refresh Rate (Hz): Minimum 3840 IP Rating (Front): IP65X minimum IP Rating (Rear): IP65X minimum

Operating Temperature : -20°C to +45°C

900 Corner option, IP rated weatherproof Design

Two cabinet options

Certificates: ISO, FCC, CE, RoHS etc

Warranty: Minimum 1 year

product of South Korea, Japan, EU Countries or equivalent

accepted/approved by the engineer-in-charge.

Per Sqft

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Description of Items  Unit & Mymensingh Zone (Tk)  Chattogram & Khulna,Barishal & Raj  Sylhet Zone  Gopalganj  Ra	it Rate in jshahi & angpur (Tk)
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Supply, installation, testing and commissioning of Outdoor LED Video Wall Display including Controller, Processor & Mounting accessories of following specifications or equivalent:

Pixel Pitch: Maximum 4.63mm Brightness: Minimum 5000 nit

Pixel Density: Minimum 46,656 pixels/m2

Visual Viewing Angle (H x V): 1600 × 1350 or higher

Contrast Ratio: 11,000 or higher

Power Supply (V): 100 to 24 V AC 50Hz

Frame Rate (Hz): 50/60

Refresh Rate (Hz): Minimum 3840 IP Rating (Front): IP65X minimum IP Rating (Rear): IP65X minimum Operating Temperature : -200C to +450C

Certificates: FCC, CE, ETL etc

900 Corner option, IP rated weatherproof Design

Two cabinet options

Warranty: Minimum 1 year

Brand: product of South Korea, Japan, EU Countries or equivalent

accepted/approved by the engineer-in-charge.

Per Sqft

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10.6.1.3 Outdoor LED Video Wall Display

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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Supply, installation, testing and commissioning of Outdoor LED Video Wall Display including Controller, Processor & Mounting accessories of following specifications or equivalent:

Pixel Pitch:Maximum 6.6mm Brightness:Minimum 5000 nit

Pixel Density: Minimum 22,500 pixels/m<sup>2</sup>

Visual Viewing Angle (H x V) :  $160^{0} \times 120^{0}$  or higher

Contrast Ratio: 11,000 or higher

Power Supply (V): 100 to 240 V AC 50Hz

Frame Rate (Hz): 50/60

Refresh Rate (Hz): Minimum 3840 IP Rating (Front): IP65X minimum IP Rating (Rear): IP65X minimum

Operating Temperature :  $-20^{\circ}$ C to  $+50^{\circ}$ C

Certificates: FCC, CE, RoHS etc

90° Corner option, IP rated weatherproof Design

Two cabinet options

Warranty: Minimum 1 year

Brand:product of South Korea, Japan, EU Countries or equivalent

accepted/approved by the engineer-in-charge.

Per Sqft

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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Khulna,l Gop	Rate in Barishal & alganj Fk)	Unit Rate in Rajshahi & Rangpur (Tk)
10.6	PROFESSIONAL DISPLAY SOLUTION (OUTDOOR)			()		)	(TK)
10.6.2	Category B						
10.6.2.1	Supply, installation, testing and commissioning of Outdoor LED Video						
	Wall Display including Controller, Processor & Mounting accessories of						
	following specifications or equivalent:						
	Pixel Pitch: Maximum 8mm						
	Brightness: Minimum 5500 nits						
	Viewing Angle(Horizontal/Vertical): H1400/V1000 or above						
	Pixel Density: Minimum 15,625 dot/m2						
	Front iP65/Rear iP54						
	Operating Temperature : -200 C to + 400 C						
	Frame Rate: 50/60 Hz						
	Refresh rate: 1920 Hz						
	CE certified						
	Warranty : Minimum 1 year						
1.0	accepted/approved by the engineer-in-charge.						
THE STATE OF THE S	Installation with Controller, Processor & Mounting accessories & Warranty/Service Support						
	warranty, service support						
		Per Sqft	21.07.4.00				
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tem No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
0.6.2.2	Supply,installation,testing and commissioning of Outdoor LED Video Wall Display including Controller, Processor & Mounting accessories of					
	following specifications or equivalent:					
	Pixel Pitch :Maximum 6.67mm					
	Brightness:Minimum 5500 nits					
	viewing Angle:Minimum H1400/V1000					
	Pixel Density:Minimum 15,625 dot/m2					
	Front iP65/Rear iP54					
	Operating Temperature : -200 C to + 400 C					
	Frame Rate: 50/60 Hz					
	Refresh Rate: 1920 Hz CE certified					
	Warranty : Minimum 1 year					
	Accepted/approved by the engineer-in-charge.					
	Installation with Controller, Processor & Mounting accessories & Warranty/Service Support					
		Per Sqft	26,259.00	26,258.00	26,254.00	26,254.
10.7	Floor Standing Display					
	Supply, installation, testing and commissioning of Floor Standing Display including Controller, Processor & Mounting accessories of following specifications or equivalent:		\$			
10.7.1	Floor Standing Display 43"					
10.7.1				~ N.Y		
10.7.1	Floor Standing Display 43"  Screen: Minimum 43" Commercial LCD Display Resolution: 1920 x 1080 or higher			$\bigcirc$ $\mathcal{N}^{\lambda}$	J.	
10.7.1	Floor Standing Display 43" Screen: Minimum 43" Commercial LCD Display			Chry	Noon of the second	×
10.7.1	Floor Standing Display 43"  Screen: Minimum 43" Commercial LCD Display Resolution: 1920 x 1080 or higher		a	July .	Color	
10.7.1	Floor Standing Display 43"  Screen: Minimum 43" Commercial LCD Display Resolution: 1920 x 1080 or higher Display Area: Minimum 943.2 x 531.4 mm		a a	J. N.	Se Park	
10.7.1	Floor Standing Display 43"  Screen: Minimum 43" Commercial LCD Display  Resolution: 1920 x 1080 or higher  Display Area: Minimum 943.2 x 531.4 mm  Viewing Angle: Minimum H178 <sup>0</sup> , V178 <sup>0</sup>		a a	July Sold	M. Alexander	*1
10.7.1	Floor Standing Display 43"  Screen: Minimum 43" Commercial LCD Display Resolution: 1920 x 1080 or higher Display Area: Minimum 943.2 x 531.4 mm  Viewing Angle: Minimum H178°, V178°  Brightness: 350cd/m² or higher Contrast Ratio: Minimum 4000:1 Response Time: Maximum 6ms	A	a a	July Bol	Selection of the select	
10.7.1	Floor Standing Display 43"  Screen: Minimum 43" Commercial LCD Display Resolution: 1920 x 1080 or higher Display Area: Minimum 943.2 x 531.4 mm  Viewing Angle: Minimum H178°, V178°  Brightness: 350cd/m² or higher Contrast Ratio: Minimum 4000:1	*	a ar	Br. Ry	Selection of the select	

Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	RAM : Minimum 2GB ROM : Minimum 8 GB					

Built in OS: Android 5.1 or higher

Control System: Software Based Central Control

Control Software Features: Server based Central Content Management via Internet, Multiple-Screen Broadcasting, Multiple Screen Split option, Minimum 3000 units of Kiosk should be controlled by single software,

Scheduled Program Upload, Real-time Update

Broadcast Program Type: Picture, Video, Text, Date, Time, Weather,

Website, Document. (Must be ensured) USB Input: USB2.0 x minimum 2

I/O Interface: SD card slot x minimum 1, Power switchx minimum 1

Wi-Fi: Built in 802.11b/g/n

RJ45: Yes

Speaker: Built in minimum 10W x2 ON/OFF Function: Remote control

Video Color System: PAL/NTSC/SECAM

Video Format: WMV, AVI, FLV, MPEG, MP4 etc. Audio Format: MP3, WMA, WAV, AAC, M4A etc.

Image Format: BMP, JPEG, PNG, GIF etc. Image Resolution: 480P/720P/1080P or better

Menu Language: English Orientation: Portrait Frame: Aluminium Profile Glass: Tempered glass

Certificates: ISO9001, CCC, CE, FCC, ROHS

Warranty: Minimum 1 year

Each 135,098.00

135,097.00

135,093.00

135,093.00

10.7.2 Floor Standing Display 55"



Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
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Screen: Minimum 55" Commercial LCD Display

Resolution: 1920 x 1080 or higher Display Area: Minimum 1210 x 682 mm Viewing Angle : Minimum H178, V178

Brightness: 350cd/m<sup>2</sup> or higher Contrast Ratio: Minimum 4000:1 Response Time: Maximum 6ms

Lifetime : ≥60000 hours

CPU: Quad-core ARM Cortex or higher

RAM : Minimum 2GB ROM : Minimum 8 GB

Built in OS: Android 5.1 or higher

Control System: Software Based Central Control

Control Software Features: Server based Central Content Management via Internet, Multiple-Screen Broadcasting, Multiple Screen Split option, Minimum 3000 units of Kiosk should be controlled by single software,

Scheduled Program Upload, Real-time Update

Broadcast Program Type: Picture, Video, Text, Date, Time, Weather,

Website, Document. (Must be ensured)
USB Input: USB2.0 x minimum 2

I/O Interface: SD card slot x minimum 1, Power switchx minimum 1

Wi-Fi: Built in 802.11b/g/n; RJ45: Yes

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Item No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	Speaker: Built in minimum 10W x2 ON/OFF Function: Remote control Video Color System: PAL/NTSC/SECAM Video Format: WMV, AVI, FLV, MPEG, MP4 etc. Audio Format: MP3, WMA, WAV, AAC, M4A etc. Image Format: BMP, JPEG, PNG, GIF etc. Image Resolution: 480P/720P/1080P or better Menu Language: English Orientation: Portrait					
	Frame : Aluminium Profile Glass : Tempered glass Certificates : ISO9001, CCC, CE, FCC, ROHS Warranty: Minimum 1 year	Each	171,909.00	171,908.00	171,905.00	171,905.00
10.7.3	Floor Standing Display 65"  Screen: Minimum 65" Commercial LCD Display Resolution: 1920 x 1080 or higher  Display Area: Minimum 1428.48 x 803.52 mm  Viewing Angle: Minimum H178, V178  Brightness: 350cd/m² or higher  Contrast Ratio: Minimum 4000:1  Response Time: Maximum 6ms  Lifetime: ≥60000 hours					
3	CPU: Quad-core ARM Cortex or higher RAM: Minimum 2GB ROM: Minimum 8 GB Built in OS: Android 5.1 or higher Control System: Software Based Central Control					
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m No.	Description of Items	Unit	Unit Rate in Dhaka & Mymensingh Zone (Tk)	Unit Rate in Chattogram & Sylhet Zone (Tk)	Unit Rate in Khulna,Barishal & Gopalganj (Tk)	Unit Rate in Rajshahi & Rangpur (Tk)
	Control Software Features : Server based Central Content Management via					
	Internet, Multiple-Screen Broadcasting, Multiple Screen Split option, Minimum 3000 units of Kiosk should be controlled by single software,					
	Scheduled Program Upload, Real-time Update					
	Scheduled Frogram Opiolog, Real time Opiolog					
	Broadcast Program Type: Picture, Video, Text, Date, Time, Weather,					
	Website, Document. (Must be ensured)					
	USB Input : USB2.0 x minimum 2					
	I/O Interface: SD card slot x minimum 1, Power switch xminimum 1					
	Wi-Fi: Built in 802.11b/g/n					
	RJ45 : Yes					
	Speaker: Built in minimum 10W x2					
	ON/OFF Function: Remote control					
	Video Color System: PAL/NTSC/SECAM Video Format : WMV, AVI, FLV, MPEG, MP4 etc.					
	Audio Format : MP3, WMA, WAV, AAC, M4A etc.					
	Image Format : BMP, JPEG, PNG, GIF etc.					
	Image Resolution : 480P/720P/1080P or better					
	Menu Language : English					
	Orientation : Portrait					
	Frame : Aluminium Profile					
	Glass: Tempered glass					
	Certificates: ISO9001, CCC, CE, FCC, ROHS					
	Warranty: Minimum 1 year	Each	208,721.00	208,720.00	208,716.00	208,716
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