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STANDARD BIDDING DOCUMENT

# Procurement of Goods

## Shopping (National)

**Request for Quotation for Supply of Goods**

*Supply and Installation of NEOC monitoring Equipment for the NEOC*



Department of Disaster Management  
Ministry of Home and Cultural Affairs  
Royal Government of Bhutan



ཀྲིན་ངན་འཛིན་སྐྱོང་ལས་ཁུངས།  
འདུ་ཤེས་དང་སྲིལ་འཛོལ་ལྷན་ཁག།

**ROYAL GOVERNMENT OF BHUTAN**  
Ministry of Home and Cultural Affairs  
Department of Disaster Management  
P.O Box: 1493, Thimphu-11001



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MoHCA/NYA/HSDRRP/2019-20/ 372

February 4, 2020

**Invitation for Quotation (IFQ) of Supply and Installation of NEOC monitoring Equipment for the NEOC**

**Project title:** Hydro-met Services & Disaster Resilient Regional Project (HSDRRP)

**Source of Funding:** World Bank

**Contract Ref:** MoHCA/NYA/HSDRRP/2019-20/372

To:

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Dear Sir/Madam,

1. You are invited to submit your priced bid for the supply of the following items as per the technical specifications attached:

Line Item No	Description of Goods	Quantity	Unit	Final (Site) Destination	Delivery (as per Incoterms) Date		
					Earliest Delivery Date	Latest Delivery Date	Bid Security
1	Supply and installation of 55" TV Screen Display mounting Bracket	8	Nos	DDM office, Thimphu	60 days after the placement of work order	60 days after the placement of work order	Nu. 50,000.00
2	Supply and installation of Multi window processor	1	Nos				Nu. 13,000.00
3	Supply and installation of TV Camera	1	Nos				Nu. 5,000.00
4	Supply and installation of Microphone set and microphone control unit	1	Nos				Nu.10,000.00
5	Supply and installation of Network printer (A3 size)	1	Nos				Nu.2500.00

Note. The bidders must submit the bid security for the items quoted.

2. The bidder(s) may quote for all the items or selected items under this invitation. Priced quotations will be evaluated for each item and contract will be awarded to the firm offering the lowest evaluated item cost.
3. The bidder(s) shall submit one original of the priced quotation with the Form of Bid, clearly marked ORIGINAL. In addition, the bidder(s) should also submit one copy marked as COPY. The quotation including all documents in the

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attached format should be sealed in an envelope and addressed to and delivered at the following address:

Your quotation in the required format should be addressed and submitted to:

To

The Director General,

Department of Disaster Management,

Ministry of Home and Cultural Affairs

Thimphu

4. The deadline for receipt of your quotation(s) by the purchaser at the indicated address is February 20, 2020 on or before 2:00 PM.
5. Quotation by fax or by electronic means **are not** acceptable.
6. The quotation should be submitted as per the following instructions and in accordance with the attached Contract. The attached Terms and Conditions of Supply is an integral part of the Contract.
  - a) PRICE: all prices shall be quoted in Ngultrum. The quoted price shall be inclusive of all related costs including taxes, duties and other levies to the final place of delivery. The final place of delivery is Department of Disaster Management, Rabten Lam, Thimphu
  - b) EVALUATION OF QUOTATION: offers determined to be substantially responsive to the technical specifications will be evaluated by comparison of their quoted prices. In evaluating the quotations, the purchaser will determine for each quotation the evaluated price by adjusting the price quotation by making any correction for any arithmetical errors as follows;

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(i) where there is a discrepancy between amounts in figures and in words, the amount in words will govern;

(ii) where there is discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted shall govern unless in the opinion of the Employer there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted shall govern, and the unit rate shall be corrected.

(iii) if the supplier refuses to accept the correction, the quotation will be rejected.

c) AWARD OF PURCHASE ORDER: the award will be made to the bidder who has offered the lowest evaluated price that meets the specifications. The successful bidder will sign a contract as per attached form of contract and terms and conditions of supply.

d) VALIDITY OF THE OFFERS: the quotation(s) shall be valid for a period of 60 days from the deadline for receipt of quotation(s).

7. Further information can be obtained from:

Tshering Wangchuk

Project Manager, HSDRRP

HSDRRP project

Phone: 17112221

E-mail: tsheringw@gmail.com

8. The quotation(s) will be opened in the presence of bidders or their representatives who choose to attend at conference hall, DDM on 20<sup>th</sup> February 2020 at 2:30 PM

9. The Purchaser is not bound to accept the abnormally low bid and reserves the right to accept or reject any or all the bids without assigning any reason whatsoever.

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10. The Purchaser will notify the winning bidder of the award of contract prior to the expiry of quotation validity period. The terms of the accepted offer shall be incorporated in the supply order (sample form attached).
  11. The Goods supplied should have a minimum Warranty/guarantee of 12 months from the date of delivery.
  12. Ninety percent (90%) of the Contract Price shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate for the respective delivery issued by the Purchaser.

**Schedule of Items and Priced Quotation (Bid form) [To be filled in by Bidders]**

Sl	Item Description	Unit	Qty	Make/ Model	Unit Rate (Nu.)	Total Amount (Nu.)
1	Supply and installation of Multi window processor	Nos	1			
2	Supply and installation of TV Camera	Nos	1			
3	Supply and installation of Microphone set and microphone control unit	Nos	1			

4	Supply and installation of Network printer (A3 size)	Nos	1			
5	Supply and installation of 55" TV Screen and the display mounting bracket	Nos	8			

Total Amount in Nu. (in words)	
Delivery period	
Warranty Provided	12 Months from date of supply or commissioning of the Goods.

*[The purchaser shall provide in the table above an indicative list of after sales services/maintenance required which shall not be added to total contract amount]*

Signature of Supplier	Supplier's Official Stamp
Name of Supplier	
Date	

*[The Supplier may attach copies of relevant brochures/catalogue for the goods to be supplied, which will give sufficient information to carry out effective evaluation]*

### **Technical Specification of the Goods Required**

The Supplier is required to mention make / model (as applicable) of the goods to be supplied and must attach the appropriate original printed literature / brochures for the various items listed.

Signature of Supplier	Supplier's Stamp
Name of Supplier	

Date	
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<b>Item No. : 1</b>	<b>Name : Multi Window Processor</b>		
<b>SPECIFICATIONS</b>			
■ Power Supply	100-240 V AC, 50/60 Hz		
■ Power consumption	160W max. (180 W with DLS)		
■ Scanning Frequency			
SDI	3G-SDI signal (Level A YPbPr 4:2:2 10-bit) SMPTE ST 424 compliant : 1125(1080)/60p, 1125(1080)/50p HD-SDI signal (YPbPr 4:2:2 10-bit): SMPTE ST 292 compliant:750(720)/60p, 750(720)/50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p		
Video/S-Video	fH:15.75 kHz, fV:60Hz [NTSC/NTSC4, fH:15.63 kHz, fV:50Hz [PAL/SECAM/PAL-N] 43/PAL-M/PAL60]		
■ Terminals			
SERIAL IN	D-sub 9-pin (female) x 1, for external control(RS-232C compliant)		
LAN	RJ-45 x 1, for network connection, 100Base-TX/10Base-T		
USB	Type A (front), Type B (rear) (for service)		
■ Board mounting slots	16 slots ( including two dedicated input slot and 2 dedicated out put slot)		
SDI IN	BNC x 2		
	3G-SDI signal: SMTOE ST 424 compliant		
	HD-SDI signal: SMTOE ST 292 compliant		
	SD-SDI signal: SMTOE ST 259 compliant		
■ Power cord length	3.0 m		
■ Dimensions (W x H x D)	482 x 177 x 313	mm	
■ Weight	Approx. 9.6 kg		
■ Operating Temperature	0-40 °C		
■ Operating humidity	10% - 85% (no condensation)		

<b>Item No.: 2</b>	<b>Name : TV Camera</b>		
<b>SPECIFICATIONS</b>			
■ Image Sensor	1/3 type CMOS (primary color filter)		
■ Number of Effective Pixels	Approx. 2.1 million pixels		
■ Scanning Method	Progressive		
■ Lens	20x optical (12x digital zoom) zoom lens with auto focus		
■ Focal Length	4.7 (W) – 94 mm (T)		
■ F-number	F1.6 (W) – F3.5 (T)		
■ Viewing Angle			
For 16:9 aspect ratios	Horizontal: 60.4° (W) – 3.2° (T), Vertical: 35.1° (W) – 1.8° (T)		
For 4:3 aspect ratios	Horizontal: 46.3° (W) – 2.4° (T), Vertical: 35.1° (W) – 1.8° (T)		
■ Day/Night Switch	Auto/Manual		



<b>■ Min. Subject Illumination</b>		
Day Mode (color):		0.4 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE), 0.03 lux (F1.6, shutter speed 1/2 sec., when smart shade control is off, 50IRE), 0.01 lux (F1.6, shutter speed 1/2 sec., when smart shade control is on, 50IRE)
Night Mode (B&W):		0.02 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.002 lux (F1.6, shutter speed 1/2 sec., when smart shade control is off, 50IRE) 0.001 lux (F1.6, shutter speed 1/2 sec., when smart shade control is on, 50IRE)
	<i>When using the indoor dome housing (smoked):</i>	
Day Mode (color):		0.8 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.06 lux (F1.6, shutter speed 1/2 sec., when smart shade control is off, 50IRE) 0.02 lux (F1.6, shutter speed 1/2 sec., when smart shade control is on, 50IRE)
Night Mode (B&W):		0.04 lux (F1.6, shutter speed 1/30 sec., when smart shade control is off, 50IRE) 0.004 lux (F1.6, shutter speed 1/2 sec., when smart shade control is off, 50IRE) 0.002 lux (F1.6, shutter speed 1/2 sec., when smart shade control is on, 50IRE)
<b>■ Focus</b>		Auto/One-shot AF/Manual/Fixed at infinity
<b>■ Shooting Distance (from front of lens)</b>		
Day Mode:		0.3 m . infinity (W), 1.0 m . infinity (T)
Night Mode:		1.0 m . infinity (W), 1.5 m . infinity (T)
	<i>When [Use] is selected for [Dome]:</i>	
Day Mode:		2.0 m . infinity (W, T)
Night Mode:		1.0 m . infinity (W), 2.2 m . infinity (T)
<b>■ Shutter Speed</b>		1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000, 1/16000 sec.
<b>■ Exposure</b>		Auto/Auto (Flickerless)/Auto (Shutter-priority AE)/Manual (Shutter Speed, Aperture, Gain)
<b>■ White Balance</b>		Auto/Light Source (Daylight Fluorescent/White Fluorescent/Warm Fluorescent/Mercury Lamp/Sodium Lamp/Halogen Lamp)/Manual (One-shot WB/R Gain/B Gain)
<b>■ Metering Mode</b>		Center-Weighted/Average/Spot
<b>■ Exposure Compensation</b>		9 levels
<b>■ Smart Shade Control</b>		Auto/Manual/Disable, Auto: 3 levels, Manual: 7 levels . Brightens shaded areas of a video
<b>■ Video Compression Method</b>		JPEG, H.264
<b>■ Video Size</b>		JPEG, H.264: 1920 x 1080, 960 x 540, 480 x 270; 1280 x 720, 640 x 360, 320 x 180; 1280 x 960, 640 x 480, 320 x 240
<b>■ Video Quality</b>		PEG, H.264: 5 levels
<b>■ Frame Rate</b>		JPEG: 0.1 . 30 fps; H.264: 1/2/3/5/6/10/15/30 fps
	When streaming JPEG, H.264 (1920 x 1080): 30 fps, When used in the following combinations:	
<b>■ Max. Frame Rate</b>		When streaming H.264(1) (1920 x 1080) and H.264(2) (all sizes) simultaneously: 15 fps; When streaming H.264(1) (all sizes) and H.264(2) (1920 x 1080) simultaneously: 15 fps; When streaming H.264(1) (1280 x 960) and H.264(2) (1280 x 960) simultaneously: 15 fps; When streaming H.264(1) (1280 x 720) and H.264(2) (1280 x 720) simultaneously: 15 fps
<b>■ Camera Control</b>		Administrator, Authorized user, Guest user (level of control varies depending on user), Max. 50 user names and passwords registered for authorized users.
<b>■ Access Control</b>		User authority (user name and password), Host Access Restrictions (IPv4, IPv6)
<b>■ Encrypted Communications</b>		SSL/TLS, IPsec (Auto Key Exchange/Manual)
<b>■ Protocol</b>		IPv4: TCP/IP, UDP, HTTP, FTP, SNMP (MIB2), SMTP (Client), DHCP (Client), DNS (Client), ARP, ICMP, POP3, NTP, SMTP authentication, RTSP, WV-HTTP (Canon proprietary), ONVIF IPv6: TCP/IP, UDP, HTTP, FTP, SMTP (Client), DHCPv6 (Client), DNS (Client), ICMPv6, POP3, NTP, SMTP authentication, RTSP, WV-HTTP (Canon proprietary), ONVIF
<b>■ Audio Compression Method</b>		G.711 $\mu$ -law (64 kbps)
<b>■ Audio Communication Method</b>		Full-duplex (two-way) – Echo cancellation function compliant. Sound Transfer Protocol by Canon
<b>■ Privacy Mask</b>		Number of registration: Max. 8 places, Number of mask colors: 1 (select from 9 colors)
<b>■ View Restriction</b>		Available

■ Intelligent Function	Video: Detection Types: moving object detection, abandoned object detection, removed object detection, camera tampering detection, and passing detection, Detection Settings: Max. 15 Volume: Volume Detection
■ Image Upload	FTP/HTTP/SMTP (e-mail) Temporary storage memory in camera: Max. approx. 5 MB; Frame Rate: Max. 10 fps (JPEG), Max. 30 fps (H.264)
■ Event Notification	HTTP/SMTP (e-mail)
■ On-Screen Display	Available
■ Language	Language German/English/Spanish/French/Italian/Chinese (Simplified)/Japanese
■ Network Terminal	LAN x 1 (RJ45, 100Base-TX (auto/full-duplex/half-duplex))
■ Audio Input Terminal (common for LINE IN & MIC IN)	φ3.5 mm mini-jack connector (monaural) Switch LINE IN/MIC IN in the setting page. LINE IN x 1 (connect to an amplifier microphone) or MIC IN x 1 (connect to a microphone w/o amplifier)
■ Audio Output Terminal (LINE OUT)	φ3.5 mm mini-jack connector (monaural), LINE OUT x 1 (connect to an amplifier speaker)
■ External Device I/O Terminal	Input x 2, Output x 2
■ Memory Card	SD Memory Card, SDHC Memory Card, SDXC Memory Card Compatible. Frame Rate: Max. 1 fps (JPEG), Max. 30 fps (H.264)
■ Operating Environment	Temperature: -10°C – +50°C (+14°F – +122°F), Humidity: 5% – 85% (without condensation)
■ Power Supply	PoE: PoE power supply via LAN connector (IEEE802.3af compliant), AC Adapter: PA-V17 or PA-V18 (100 – 240 V AC) (sold separately), External power source: 24 V AC/12 V DC – Heater Unit HU600-VB (sold separately): 24 V AC only (only applicable to VB-H630VE)
■ Dimensions	(φ x H) φ132 x 155 mm – Camera only (height when camera is placed horizontally, excluding Ceiling Bracket)

Item No. : 3 Name: Microphone set	
✓	Standard discussion unit for chairmen, delegates or interpreters
✓	Fully digital audio transmission
✓	Daisy chain topology with loop through connections or star topology using junction boxes
✓	DCS-LAN connection by use of CAT 5e (or higher) F/UTP or U/FTP cabling
✓	Maximum 250 discussion units per system
✓	Support for 4 microphone operation modes; Automatic, FIFO, Manual and VOX (voice activation)
✓	Support for delegate interrupt ability modes enabling 'ping pong' mode
✓	Auto off of microphones
✓	Lockable XLR gooseneck microphone connector
✓	1 high-quality loudspeaker
✓	1 headphone connector with volume control supporting the floor channel
✓	Microphone and function (all delegates off/mute) buttons
✓	Exchangeable button overlay for changing the button labels to other languages and other functionality
✓	Optional use of cable clamp to fix the DCS-LAN loop through cables

Item No. : 3	Name : Microphone Control Unit	
SPECIFICATIONS		
■ Features		<ul style="list-style-type: none"> <li>- Fully digital audio transmission with selectable scrambling to prevent eavesdropping</li> <li>- Support for four microphone operation modes: Automatic, FIFO, Manual, and VOX (voice activated)</li> <li>- Up to 8 simultaneous open microphones with Auto-Off</li> <li>- Powers up to 60 discussion or conference units without the need for an additional power supply</li> <li>- Control of up to 250 microphone units, 2 languages, and 32 interpreter units</li> <li>- Two analog audio inputs for connection to external audio sources</li> <li>- Eight analog audio outputs for connection to a videoconferencing system, audio/video recorder, sound reinforcement system, or wireless language distribution system</li> <li>- DCS-LAN serial 'daisy-chain' topology using shielded CAT 5e (or higher) F/UTP or U/FTP cabling</li> <li>- Web browser interface for control of microphones, request list, and system setup using a computer or tablet</li> <li>- Separate web addresses for Administrator, Chairman, and Display functions</li> <li>- Built-in seat table for assigning participant names and/or seat numbers to units</li> </ul>

■ System Performance		<ul style="list-style-type: none"> <li>- Maximum number of microphone units controlled : 250</li> <li>- Maximum number of microphone units powered : 60</li> <li>- Maximum number of open microphones : 8</li> <li>- Maximum number of languages : 2</li> <li>- Maximum number of interpreter units : 2 or more</li> </ul>
■ Dimension (H x W x H)		Approx. 45.0 x 430 x 190 mm, available of mounting onto standard 19" rack
■ Weight		Approx. 3.0 kg
■ Operational environment		Operation: 5° to 40° C, 35-80% humidity
■ Power Supply		Main voltage 100-240 V, 50-60 Hz, Max. consumption less than 180 W
■ Network		Four (4) RJ45 female sockets, One (1) RJ45 female sockets
■ Audio	Inputs	Analog Input 1 : One 3-pin female XLR socket (electronically balanced) Nominal input level (Input 1): switchable 0 dBm/-10 dBm Max. input level : +15 dBm Input Impedance : 50-100 kΩ Analog Input 2 (Audio In or Emergency input - EEM) : One 3-pin female XLR socket (electronically balanced) with contact closure
	Outputs	Analog audio out : Eight (8) 3-pin male XLR sockets (electronically balanced) Maximum load : > 1 k ohm Nominal output level : 0 dBm at nominal input Max. output level : 4.9V RMS ~ +16 dBm
■ Electrical		Power consumption: 22W/48V (150W max.) Supply voltage for microphone units : 122W/48V Sound quality : 24 bit audio, 32 kHz sampling frequency Frequency response : 65 Hz-16 kHz THD : < 0.1 % Signal-to-noise ratio : > 85 dBA
■ Standard		IEEE, RFC, ETC, ISO

<b>Item No. : Network printer up to A3 size paper</b>	
SPECIFICATIONS	
■ TYPE	Color Laser Multifunctional
■ CORE FUNCTIONS	Print, Copy, Scan, Send, Store, Fax
■ CONTROL PANEL	10.1" TFT LCD WSVGA Color Flat-panel
■ MEMORY	4.0 GB RAM
■ HARD DISK DRIVE	Standard: 250 GB, Maximum: 1 TB,
■ MIRRORING HARD DISK DRIVE	Optional: (250 GB, 1 TB), Method: Raid1
■ INTERFACE CONNECTION	Network: 1000Base-T/100Base-TX/10Base-T, Wireless LAN (IEEE 802.11 b/g/n) Standard: USB 2.0 x2 (Host), USB 3.0 x1 (Host), USB 2.0 x1 (Device) Optional: Serial Interface, Copy Control Interface
■ OPERATING ENVIRONMENT	Temperature: 5 to 50 °C, Humidity: 20 to 80 % RH (no condensation)
■ POWER REQUIREMENTS	120-127V AC 60 Hz, 11.5 A
■ PLUG (MAIN UNIT)	NEMA 5-20P
■ POWER CONSUMPTION	Maximum: Approx. 1.8 kWh, Standby: Approx. 66.2 W, Sleep Mode: Approx. 0.8 W, Typical Electricity Consumption (TEC) Rating: 3.2 kWh
■ STANDARDS	ENERGY STAR® Certified, Rated EPEAT® Gold, RoHS Compliant

## Specifications

Item No. : 5	Name : 55 inch Screen
<p>Main Feature: The following features should be employed            DIGITAL LINK, Daisy Chain of DIGITAL LINK and RS-232C and IR, USB Media Player, Failback/Failover, Data Cloning, Digital ZOOM, Multi display settings, Power on screen delay, Auto setting, Screensaver, PC/DVI/HDMI/DIGITAL LINK power management, Power save, 6-segment colour management, Colour enhancement, Refine enhancer, Gradation smoother, Frame control, Reverse scan, Multi Dynamic backlight, Long life mode / Auto brightness adjustment, AMX D.D. , Crestron Connected, Extron XTP, WEB Browser control, PJLink, Early Warning Software compatible, Multi Monitoring &amp; Control Software compatible</p>	
<p><b>SPECIFICATIONS</b></p>	
<p>■ OPERATING ENVIRONMENTAL</p>	
Temperature :	32°F to 95°F (0°C to 35°C)
Humidity :	10% to 90% (No condensation)
Altitude :	0 to 9186 feet (0 to 2800 m)
<p>■ STANDARD</p>	
SAFETY REGULATIONS	UL 60950-1 2nd Edition, CAN/CSA-C22.2 No. 60950-1-07 or later Ver.
RADIATION REGULATIONS	FCC 47 CFR, Part 15, Subpart B Class A ICES-003 or later Ver.
<p>■ DISPLAY PANEL</p>	
Screen Size (Diagonal)	54.6-inch (1387 mm )
Panel Type / Backlight	IPS / Direct LED
Aspect ratio	16:9
Effective Display Area (W x H)	47.6" x 26.7" (1209.6 x 680.4 mm)
Resolution (H x V)	1920 x 1080
Brightness	700 cd/m <sup>2</sup> (Typ)
Contrast Ratio	1200:1(typ)
Dynamic Contrast Ratio	500000:1
Viewing Angle (Horizontal / Vertical)	178°/ 178° (CR ≥ 10)
Response Time	8.0 ms (typ) (G to G)
Panel Life	more than approx. 60000 hours (typ)
Panel Surface Treatment	Anti-glare type (Haze 44%)
<p>■ CONNECTION TERMINAL</p>	
HDMI IN	HDMI Type A Connector x 1, Linear PCM (Sampling frequency : 48 kHz/44.1 kHz/32 kHz)
COMPONENT / RGB IN	BNC x 1 set Y/G: BNC Contact Plug with sync 1.0 V [p-p] (75 Ω ) PB/CB/B: BNC Contact Plug without sync 0.7 V [p-p] (75 Ω ) PR/CR/R: BNC Contact Plug without sync 0.7 V [p-p] (75 Ω )
AUDIO IN	L/R: Pin Jack x 1 0.5 Vrms (Shared with VIDEO IN)
VIDEO IN	BNC x 1 set (Shared with COMPONENT/RGB IN Y/G) 1.0 Vp-p (75 Ω )
AUDIO IN	L/R: Pin Jack x 1 0.5 Vrms (Shared with VIDEO IN)
DVI-D IN	DVI-D 24-pin x 2, Compliance with DVI Revision 1.0, Compatible with HDCP 1.1
AUDIO IN	Stereo Mini Jack (M3) x 1 (Shared with PC IN) 0.5 Vrms
PC IN	Mini D-Sub 15-pin x 1 (Female) Y/G: with sync 1.0 V [p-p] (75 Ω ) : without sync 0.7 V [p-p] (75 Ω ) PB/CB/B: without sync 0.7 V [p-p] (75 Ω ) PR/CR/R: without sync 0.7 V [p-p] (75 Ω ) HD/VD: 1.0 - 5.0 V [p-p] (high impedance)
AUDIO IN	Stereo Mini Jack (M3) x 1 (Shared with DVI-D IN) 0.5 Vrms
Display Port IN	DisplayPort ( DP1.1 Dual Mode Only) x 1
SERIAL IN / OUT	D-sub 9pin x 1 / x 1, RS-232C Compatible
DIGITAL LINK IN	RJ45 x 1, Long Reach Mode (Shared with LAN IN)

DIGITAL LINK OUT	RJ45 x 1 (Shared with LAN OUT)
LAN IN / OUT	RJ45 x 1 / x 1, 100BASE-TX, Compatible with PLink™ (Shared with DIGITAL LINK)
IR IN / OUT	Stereo Mini Jack (M3) x 1 / x 1
AUDIO OUT	Pin Jack x 1 0.5 V [rms]Variable (- ∞ - 0 dB) (1 kHz 0 dB Input, 10 k Ω Load)
USB	USB 2.0 Type A connector x 1 DC 5 V / 500 mA (USB3.0 is not supported.)
■ AUDIO	
Speaker	8 Ω ,20 W [10 W + 10 W](10 % THD)
■ ELECTRICAL	
Power Requirements	110 - 127 V, 50 Hz/60 Hz
Power Consumption	300 W
Power Off Condition	approx. 0 W
Stand-by Condition	approx. 0.5 W
Apparent power	302 VA
■ MECHANICAL	
Dimension (W x H x D)	1211.4 x 682.2 x 99 mm
Weight	less than approx. 56 lbs. (25 kg)
Carton Dimensions (W x H x D)	60.8" x 38.3" x 11.9" (1544 x 973 x 301 mm)
Gross Weight	less than approx. 75 lbs. (34 kg)
Cabinet Material / Color	Metal / Black
Bezel Width	T/R/L/B approx.0.9 mm
Pitch for Wall-Hanging	VESA Compliant 400 x 400 mm (Installed by: M6 screws / Screw hole depth 10 mm)
■ INSTALLATION	
Orientation	Landscape / Portrait
Tilting Angle	Vertical only

<b>Item No. : 5</b>	<b>Name : Display Mounting Bracket</b>
<b>Explanation</b> Hardware for mounting a 55-inch screen to the wall. Should be adjustable depending on screen size	
<b>SPECIFICATIONS</b> ■ Dimensions (W x H x D) smaller than 1215 x 686 x 184 mm for stored, smaller than 1215 x 686 x 384 mm for pull out ■ weight less than approx. 21 kg	

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## **Documents required to be submitted as part of the Quotation**

The original and *copy(ies)* of quotation submitted by the Bidder shall comprise the following:

- (a) The bidder should be in the similar line of business [supply of similar equipment].
- (b) Compliance sheet
- (c) Catalogue of quoted items
- (d) A duly completed and signed priced quotation as per the Schedule of Items.
- (e) A valid Trade License;
- (f) A valid Tax Clearance Certificate;
- (g) Technical Specification of the Goods to be supplied;
- (h) Any other requirements specified in this document

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## Terms and Conditions for the Supply of Goods and Payment.

The Terms and Conditions hereinafter may only be varied with the written agreement of the Purchaser and no terms and conditions put forward at any time by the Supplier shall form any part of the Contract.

1. The Supplier shall be required to submit a performance security of 10% of the quoted price in the form of cash warrant, demand draft or unconditional Bank Guarantee issued by a financial institution located in Bhutan, which shall be furnished upon signing the contract. Performance security shall be valid till the end of warranty period and will be returned after the end of warranty period.
2. The supply of the goods and related services shall be completed within **[60]** days from the date of issue of the Purchase Order, or the signing of the contract (where applicable).
3. The Supplier shall agree to supply/perform the required after sales services/maintenance at the quoted price agreed in the contract.
4. The Purchaser shall arrange payment of the Invoice, within thirty (30) days upon submission of original Invoice and against the actual supplied quantities of goods as listed in the Purchase Order.
5. The quoted price shall include all taxes, duties, insurance and any other costs involved and nothing extra shall be paid.
6. Any goods found defective during the warranty period shall be replaced/repaired by the supplier at his cost. If the supplier fails to rectify and or replace the defective goods, the purchaser shall do it at the cost of the supplier.
7. The supplier shall supply the Goods required within 60days from the date of placement of the purchase order or signing of contract. The supplier shall pay liquidated damages at the rate of 0.1% per day for each day of delay to a maximum of 10% of the quoted price.
8. The Purchaser may, by written notice, terminate the Purchase Order (or Contract if applicable) in whole or in part at any time for its convenience:
  - a. if the Supplier fails to perform any other Terms and conditions specified with the Purchase Order, or exceeds the maximum amount of liquidated damages.
  - b. if the Supplier fails to perform any other obligation(s) under the Purchase Order, or
  - c. if the Supplier does not take any remedial action within a period of (7) seven calendar days after receipt of a notice of default from the Purchaser specifying the nature of the default(s), or



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- d. if the Supplier, in the judgment of the Purchaser, has engaged in any corrupt or fraudulent practices in competing for or in executing the tasks under this Purchase Order; and
  9. The Supplier shall provide the warranty, as stipulated in the Quotation document, for the goods to be supplied and confirm that if any faults are detected within the warranty period in the supplied/installed goods, the Supplier shall be bound to rectify the fault or replace the goods as the case may be. The security deposit shall be used to cover the cost of supplies not delivered or defective items not replaced or rectified.
  10. The purchaser may procure any of the items from the open market in case the supplier fails to supply the goods within the stipulated time and realise the difference amount between the quoted price & market price from the security deposit
  11. The purchaser reserves the right to increase or decrease the quantity of quoted item for this contract during the award of works

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## Contract Agreement

*[The successful Bidder shall fill in this form in accordance with the instructions indicated]*

THIS CONTRACT AGREEMENT made the *[insert number]* day of *[insert month]*, *[insert year]*,

BETWEEN

- (1) *[insert complete name of Purchaser]*, a *[insert description of type of legal entity, for example, an agency of the Ministry of .... of the Government of Bhutan, or corporation incorporated under the laws of Bhutan]* and having its principal place of business at *[insert address of Purchaser]* (hereinafter called "the Purchaser"), and
- (2) *[insert name of Supplier]*, a corporation incorporated under the laws of *[insert: country of Supplier]* and having its principal place of business at *[insert: address of Supplier]* (hereinafter called "the Supplier").

WHEREAS the Purchaser invited Bids for certain Goods and ancillary services, viz., *[insert brief description of Goods and Services]* and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of *[insert Contract Price in words and figures, expressed in the Contract currency/ies]* (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract, viz.:
  - (a) This Contract Agreement;
  - (b) Terms and Conditions;
  - (c) Technical Requirements (including Schedule of Supply and Technical Specifications);
  - (e) The Supplier's Bid and original Price Schedules;
  - (f) The Purchaser's Notification of Award of Contract;
  - (g) The form of Performance Security;
  - (h) The form of Bank Guarantee for Advance Payment;
  - (i) *[insert here any other document(s) forming part of the Contract]*

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3. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.

4. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

5. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Related Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Bhutan on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: *[insert signature]*  
in the capacity of *[insert title or other appropriate designation]*

in the presence of *[insert signature]*  
*[insert identification of official witness]*

For and on behalf of the Supplier

Signed: *[insert signature of authorized representative(s) of the Supplier]*  
in the capacity of *[insert title or other appropriate designation]*

in the presence of *[insert signature]*  
*[insert identification of official witness]*

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## Performance Security

*[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated]*

Date: *[insert date (as day, month, and year) of Bid submission]*

IFB No. and title: *[insert no. and title of bidding process]*

Bank's Branch or Office: *[insert complete name of Guarantor]*

**Beneficiary:** *[insert complete name of Purchaser]*

**PERFORMANCE GUARANTEE No.:** *[insert Performance Guarantee number]*

We have been informed that *[insert complete name of Supplier]* (hereinafter called "the Supplier") has entered into Contract No. *[insert number]* dated *[insert day and month]*, *[insert year]* with you, for the supply of *[description of Goods and related Services]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a Performance Guarantee is required.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum(s) not exceeding *[insert amount(s)<sup>1</sup> in figures and words]* upon receipt by us of your first demand in writing declaring the Supplier to be in default under the Contract, without cavil or argument, or you needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This Guarantee shall expire no later than the *[insert number]* day of *[insert month]* *[insert year]*,<sup>2</sup> and any demand for payment under it must be received by us at this office on or before that date. We agree to a one-time extension of this Guarantee for a period not to exceed *[six months]* *[one year]*, in response to the Purchaser's written request for such extension, such request to be presented to us before the expiry of the Guarantee.

*[signatures of authorized representatives of the bank and the Supplier]*

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<sup>1</sup> The Bank shall insert the amount(s) specified in the SCC and denominated, as specified in the SCC, either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Purchaser.

<sup>2</sup> Date established in accordance with Clause 19.4 of the General Conditions of Contract ("GCC"). The Purchaser should note that in the event of an extension of the time to perform the Contract, the Purchaser would need to request an extension of this Guarantee from the Bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee.

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## Bank Guarantee for Advance Payment

*[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated.]*

Date: *[insert date (as day, month, and year) of Bid submission]*  
IFB No. and title: *[insert number and title of bidding process]*

*[bank's letterhead]*

**Beneficiary:** *[insert legal name and address of Purchaser]*

**ADVANCE PAYMENT GUARANTEE No.:** *[insert Advance Payment Guarantee no.]*

We, *[insert legal name and address of bank]*, have been informed that *[insert complete name and address of Supplier]* (hereinafter called "the Supplier") has entered into Contract No. *[insert number]* dated *[insert date of Contract]* with you, for the supply of *[insert types of Goods to be delivered]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment is to be made against an advance payment guarantee.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[insert amount(s) in figures and words]* upon receipt by us of your first demand in writing declaring that the Supplier is in breach of its obligation under the Contract because the Supplier used the advance payment for purposes other than toward delivery of the Goods.

It is a condition for any claim and payment under this Guarantee to be made that the advance payment referred to above must have been received by the Supplier in its account *[insert number and domicile of the account]*

This Guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until *[insert date<sup>3</sup>]*. We agree to a one-time extension of this Guarantee for a period not to exceed *[six months][one year]*, in response to the Purchaser's written request for such extension, such request to be presented to us before the expiry of the Guarantee.

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*[signature(s) of authorized representative(s) of the bank]*

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<sup>3</sup> *Insert the Delivery date stipulated in the Contract Delivery Schedule. The Purchaser should note that in the event of an extension of the time to perform the Contract, the Purchaser would need to request an extension of this Guarantee from the bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee*

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## Sample Manufacturer's Authorization

*[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the BDS.]*

Date: *[insert date of Bid Submission]*

Invitation for Bid No.: *[insert IFB number]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of the Purchaser]*

### WHEREAS

We *[insert complete name of the Manufacturer]*, who are official manufacturers of *[insert type of Goods manufactured]*, having factories at *[insert full address(es) of the Manufacturer's factory/ies]*, do hereby authorize *[insert complete name of Bidder]* to submit a Bid in relation to the Invitation for Quotation indicated above, the purpose of which is to provide the following Goods, manufactured by us, namely *[insert name and/or brief description of the Goods]*, and subsequently to negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 29 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of the authorized representative(s) of the Manufacturer]*

Title: *[insert title(s) of the authorized representative(s) of the Manufacturer]*

Duly authorized to sign this Authorization for and on behalf of *[insert complete name of the Bidder]*

Dated on the *[insert number]* day of *[insert month]*, *[insert year]*.