MILLENNIUM CHALLENGE ACCOUNT NEPAL (MCA-NEPAL)

Supply and Delivery of IT Equipment and Accessories
Ref No: (MCA-N/PM/SH/078)

ADDENDUM #2

Issued on: 12 August 2024

This Addendum No. #2 modifies respective portions of the Request for Offers (RFO) Document issued on 26 July 2024 and Addendum #1 issued on 07 August 2024. **The changes, as indicated below with Yellow shaded text,** are effective on the date of issue of this Addendum #2.

Except as expressly amended by this Addendum #2, all other terms and conditions of the Request for Offer Document issued on 26 July 2024 and Addendum #1 issued on 07 August 2024 remain unchanged and shall remain in full force and effect in accordance with their terms.

SN	Pages/Paragraph	Addendum
1.	Request for Offer, Pages 3, Clause #3 (g)	Your **Form of Offer** with the priced **Price Schedule** should be submitted electronically by **14 August 2024** at **15:00 hours local time in Kathmandu, Nepal (GMT+5:45)** by the File request link (Dropbox link) provided below, with the name of uploaded file as follows: "[Your Company Name] – IT Equipment": The File request link (Dropbox link) for submission of Offers is: https://www.dropbox.com/request/ytpapLPb1ZkpAbEh85Dh Instruction for uploading your submission: ● Click this link or type this link correctly in a browser. ● Click on **Add Files** ● Click on **Files from Computer** (Choose files from computer) ● Click on +**Add more files** (Optional, only if you have more than one file and so on for other files) ● Enter your: **First name and Email address.** ● Click **Upload** ● **Successful upload:** completed the submission.

		Note that the provided **Dropbox link** will expire on the **deadline for submission (exact date and time)** as indicated above, consequently no late Offers will be received. **has been replaced by:** Your **Form of Offer** with the priced **Price Schedule** should be submitted electronically by <mark>21 August 2024</mark> at **15:00 hours local time in Kathmandu, Nepal (GMT+5:45)** by the File request link (Dropbox link) provided below, with the name of uploaded file as follows: "[Your Company Name] – IT Equipment": The File request link (Dropbox link) for submission of Offers is: https://www.dropbox.com/request/ytpapLPb1ZkpAbEh85Dh Instruction for uploading your submission: ● Click this link or type this link correctly in a browser. ● Click on **Add Files** ● Click on **Files from Computer** (Choose files from computer) ● Click on +**Add more files** (Optional, only if you have more than one file and so on for other files) ● Enter your: **First name and Email address.** ● Click **Upload** ● **Successful upload:** completed the submission. Note that the provided **Dropbox link** will expire on the **deadline for submission (exact date and time)** as indicated above, consequently no late Offers will be received.
2.	Request for Offer, Pages 6 to 12, Attachment 1, TECHNICAL SPECIFICATIONS	This has been replaced as per **Annex- 1** of this Addendum #2.
3.	Request for Offer, Pages 15 to 22, Attachment 3, Submission Form of Supplier's Proposed Technical Specifications	This has been replaced as per **Annex- 2** of this Addendum #2.

Annex- 1

Attachment #1

Technical Specification

Lot #1 : Laptop Computer

1. **Laptop Computer (Type A) with Docking and Monitor – 40 sets**

Type	▪ Business Enterprise-Grade Laptop: Robust, Ultra-Slim and sleek Design, Omission of Ethernet Port for enhance system portability.
Operating System	▪ Windows 11 Professional x64 bit English ▪ Recovery Image
Processor Technology	▪ Intel® Core™ Ultra 7 with vPro™ Technology
Processor	▪ Intel® Core™ Ultra 7 165H vPro or equivalent
Graphics	▪ Integrated Intel® Arc Graphics / Intel Graphics
Chipset/Security	▪ TPM 2.0 Security Complied
Display	▪ Display - 14" Diagonal. WUXGA (1920 x 1200), IPS, Anti-glare, non-Touch Screen or equivalent ▪ Webcam - Resolution: 1080p FHD IR/RGB Hybrid with Shutter
Memory	▪ 32 GB DDR5, 2 x SODIMM
Internal Storage	▪ 512 GB PCIe® NVMe™ TLC SSD or Equivalent, Expandable
Sound/Audio	▪ Dual stereo speakers, integrated multi array microphone ▪ 1 x 1/8" / 3.5 mm Headphone/Mic Combo Universal Audio Jack
LAN/Wireless technology	▪ Intel® Wi-Fi 6E AX211 2x2 AX and Bluetooth® 5.1/ IEEE 802.11ax - Gigabit Support
External I/O Ports	▪ 2 x USB 3.1 Gen 1 Type-A ports ▪ 2 x Thunderbolt™ 4 with USB™ Type-C ports ▪ 1 x HDMI 2.0 port ▪ 1 x Headphone/microphone universal Combo Jack ▪ 1 x Micro/Nano-SIM slot (optional) ▪ 1 x Standard security lock with peripheral trap (slim)
Keyboard/Touchpad	▪ Backlit, spill-resistant premium keyboard ▪ Pointing Device: Touchpad with multi-touch gesture support
Power Supply/ Battery	▪ ~ 65W USB Slim Power Adapter (AC) ▪ Replaceable Lithium-Ion, 3-Cell long life, 51 Wh (or higher) Fast/Express Charging Li-ion battery.
Carrying bag	▪ Good quality branded laptop carrying bag (back-pack)

Warranty	▪ Three-years warranty
Docking Station	▪ Type – Universal Thunderbolt 4 ▪ Ports – at least 3 x USB-A, 1 x USB-C ▪ Ethernet – 1 xRJ45 Gigabit or higher speed ▪ 2 x DisplayPort, 1xHDMI 2.0 or higher ▪ 4 x Simultaneously display support. ▪ Connectivity – Integrated / detachable cable ▪ Audio port – 1 x 3.5mm audio combo jack (optional) ▪ Power on indicator – LED ▪ Windows 10/11, macOS support ▪ Power supply – standard 220v, 50Hz
Desktop Monitor	▪ Size/type – 23 ~24 inches IPS ▪ Display resolution – WUXGA (1920 x 1200) ▪ Aspect Ration – 16:10 ▪ Connectivity - at least 1xHDMI, 1xDP or equivalent ▪ USB Ports – 2 x USB 3.0 ▪ Stand – adjustable height and angle (VESA) ▪ Power Supply – Standard 220V, 50Hz
External Keyboard/Mouse	▪ Business enterprise grade premium multi-device wireless keyboard and mouse combo (USB/Bluetooth)

2. **Laptop Computer (Type B) - without Docking and Monitor – 25 sets.**

Type	▪ Business Enterprise-Grade Laptop: Robust, Ultra-Slim and sleek Design, Omission of Ethernet Port for enhance system portability.
Operating System	▪ Windows 11 Professional x64 bit English ▪ Recovery Image
Processor Technology	▪ Intel® Core™ Ultra 7 with vPro™ Technology
Processor	▪ Intel® Core™ Ultra 7 165H vPro or equivalent
Chipset/Security	▪ TPM 2.0 Security Complied
Memory	▪ 64 GB DDR5, 2 x SODIMM
Internal Storage	▪ 1 TB PCIe® NVMe™ TLC SSD or Equivalent, Expandable
Graphics Card	▪ Integrated Intel® Arc Graphics / Intel Graphics
Display	▪ Display - 14" Diagonal. WUXGA (1920 x 1200), IPS, Anti-glare, non-Touch Screen or equivalent higher ▪ Webcam - Resolution: 1080p FHD IR/RGB Hybrid with Shutter
Sound/Audio	▪ Dual stereo speakers, integrated multi array microphone ▪ 1 x 1/8" / 3.5 mm Headphone/Mic Combo Universal Audio Jack
LAN/Wireless technology	▪ Intel® Wi-Fi 6E AX211 2x2 AX and Bluetooth® 5.1/ IEEE 802.11ax - Gigabit Support
External I/O Ports	▪ 2 x USB 3.1 Gen 1 Type-A ports ▪ 2 x Thunderbolt™ 4 with USB™ Type-C ports ▪ 1 x HDMI 2.0 port

	• 1 x Headphone/microphone universal Combo Jack • <mark>1 x Micro/Nano-SIM slot (optional)</mark> • <mark>1 x Standard Security Lock with Peripheral Trap – Slim</mark> • USB 3.0 to Gigabit RJ45 Adapter (laptops without an Ethernet port)
<mark>Keyboard/Touchpad</mark>	• <mark>Backlit spill-resistant premium Keyboard</mark> • Pointing Device: Touchpad with multi-touch gesture support
Power Supply/ Battery	• ~ 65W Slim Power Adapter (AC) • Replaceable Lithium-Ion, 3-Cell long life, 51 Wh (or higher) Fast/Express Charging Li-ion battery
External Keyboard/Mouse	• Business enterprise class premier multi-device wireless keyboard and mouse (Bluetooth)
Carrying bag	• Good quality branded laptop carrying bag (back-pack)
Warranty	• Three-years warranty

Lot #2 – Multifunctional Printer

1. Multifunctional Printer (MFP) – 1 set

Machine Type	• Business Enterprise Grade Multifunctional Machine • (All-In-One)
Printing Output	• Monochrome (Standard - A4, A3, Letter)
Standard Functions	• Print, Copy, Scan, Email
Printing Speed	• Up to 70 ppm (Standard Letter, A4) or equivalent higher speed • Monthly duty cycle – up to 300,000 pages or equivalent higher volume printing capacity • First copy out =<5 second or faster
Copy and Print Resolution	• Standard automatic Duplex Printing • Manual One-sided printing • Copy resolution up to 600 x 600 dpi, • Print resolution up to 1200 x 1200 dpi enhanced. • Copying reduce/enlarge: 25% ~ 400%. • Economic /Grayscale Printing (default)
Printer Processor	• Intel ATOM Quad Core/Dual-Core/ARM or any Dual Custom Processor or equivalent higher
Printer Memory	• 4GB total or equivalent or higher
Internal Storage (HDD/SSD)	• 128 GB SSD or higher (512 GB Preferred) or equivalent higher advanced technology storage.
Control Panel	• 10.1" TFT/LCD/LED Color Display Touch Screen
Connectivity and other printing options	• Standard RJ-45 Ethernet (10/100/1000 Base-T) • High speed USB 2.0/3.0 direct printer connection • Additional latest wireless feature such as WiFi (IEEE 802.11 b/g/n) or WiFi Direct or AirPrint and Bluetooth and cloud printing preferred. • Print from USB disk (USB 2.0 or higher) feature.

	▪ Print from Cloud repositories preferred (Dropbox, OneDrive, and Google Drive) or equivalent.
Scanning Options / File Format Support	▪ Scan to USB directly connected to Printer. ▪ Scan to Email via SMTP support. ▪ Scan to Network/FTP/SFTP/SMB features. ▪ Scan to Cloud (desirable) ▪ Standard format - PDF, PDF/A, JPEG, TIFF and wider range of file format support and OCR. ▪ Other security features
OS Support	▪ Windows® Server2012/Server2012 R2/ Server2016/Server2019/Server 2022, Windows 10/11 and Mac OS X (10.11) or higher versions ▪ Both PCL and advanced PostScript (PS). PDF and XPS printing support
Paper Handling (ADF, Trays and Paper Output Options)	▪ Robust feeder design (multiple size support – ~A4 ▪ DADF/DSDF with standard Single-Pass Duplex Automatic Document Feeder for scan and copy. ▪ Paper Tray/Cassette/Drawer - Total FOUR Trays (Letter, A4 ~ A3) including - bypass and high capacity Tandem/Deck or equivalent options enough for high volume printing. ▪ Paper/Size/Thickness: Standard Letter, A4, A3 - up to 200/300 GSM/140LB or equivalent paper weight support ▪ Paper output Accessories - Office Finisher Unit (OFU) with up to 50 Sheets (20 lb/80 gsm) single-position stapling or equivalent feature.
Power Supply	▪ Standard 220 v, 50 Hz Nepal
Accessories	▪ Power Cables, USB Cables and ADF, Cover etc.
Warranty	▪ 3 Years

Lot #3 – Video Conferencing System

4. **Video Teleconferencing (VTC) System for mobile Use -1 set**

Auto Tracking Conference Camera	
Type	▪ Professional Auto Tracking PTZ Camera
Picture Elements	▪ Single/Double Lens with 1/25" ~1.0" Image Sensor
Output Resolution	▪ 4K Ultra HD
Zoom	▪ 15~30 Advance Zoom or Equivalent
FOV/PTZ	▪ 60~120-degree horizontal coverage or equivalent
Connectivity	▪ 3G-SDI/ HDMI / IP / USB/ RS-232/ RS-422 etc. Audio IN/OUT options
Video Formats	▪ MPEG/AVI/MOV/WMV compatible with Windows
Auto Tracking /AI Functions	▪ Human Detection/Motion Tracking Feature
OS Support	▪ Plug and Play – Windows/Mac OS

Power Supply	▪ AC, Standard 220~240C, 50/60Hz
Accessories	▪ Power adapter/cord/cable, remote control, Extension cable/wire up to 20M, mounting kit etc. to make the system functional.
Warranty	▪ At least ONE year
Audio Speakerphone	
Type	▪ Full duplex microphone array speakerphone
Audio acoustic features	▪ Advanced echo cancellation / noise suppression features for powerful wideband voice processing
Voice/Audio Control	▪ Speaker volume adjustable via Remote control/Touch Control/button control for volume up/down, mute, call and hang-up functions
Connectivity	▪ Bluetooth/LAN/audio IN/OUT, USB 3.0/USB-C/HDMI/ RS-232/ RS-422 with options for MIC POD expansion and external audio system
Power Supply	▪ AC, Standard 220~240C, 50/60Hz
Accessories	▪ Power adapter/cord/cable/HuB, remote control and extension cable up to 20M to make the system functional. ▪ Mounting Kits (if applicable)
OS Support	▪ Plug and Play with Standard Windows and Mac OS
Expected Apps to be Compatible With	▪ Skype/Skype for Business ▪ Microsoft Teams ▪ Zoom ▪ Cisco WebEx, Jabber,
Warranty	▪ At least ONE Year
Carrying Bag	▪ Appropriate carrying bag to accommodate Conference Camera, Speakerphone and Accessories

Lot #4 – Uninterruptable Power Supply System (UPS)

5. 3 kVA Smart UPS - 1 Sets

Type/Capacity	▪ 3000 VA Smart UPS System ▪ Tower Cashing
Power Input Voltage/Current	▪ 220 V, 50/60 Hz +/-3 Hz Auto Sensing ▪ IEC320- C19 Input Connection ▪ Input Voltage range – 160 ~ 285 V adjustable. ▪ At least 95.0 % efficiency at full load
Power Output Voltage/Current	▪ 3.0 kVA, 2.7kWatts ▪ Nominal Output voltage – 220 ~230 configurable ▪ At least 95% Efficiency at full load ▪ (1) IEC C19 outlet connection ▪ (4+) IEC C13 outlet connections
Batteries	▪ 2x2 Maintenance-free sealed Lead-Acid battery (Leak-proof) ▪ Expected re-charge time 3 Hrs. ▪ Expected Battery Life (years): 3- 5 years.
Backup/runtime	▪ At least 8 ~ 12 minutes of runtime at half load
Output Frequency	▪ Sinewave, 50 Hz (47 - 53 Hz), +/-5% distortion
Communication	▪ Smart-Connect, USB & Serial support. ▪ LED/LCD/Light status display for On-Line, On-Battery, Battery Replace and Overload Indicator
Audible Alarm	▪ Alarm when UPS is on battery, distinctive low battery and configurable delays or defects.
Accessories	▪ Power Cables, C13, C19 type, ▪ Serial/USB cable, Serial-RJ-45 etc. ▪ User manual
Warranty	▪ At least ONE year

6. 20 kVA UPS for Data Center (Redundant) -1 set

External Features	
Chassis Type	▪ Tower with trolley wheelbase
UPS Type/Capacity	▪ 20 kVA Smart, Double Conversion Online
Architecture	▪ Modular design for quick service and less maintenance via self-diagnosis and replaceable spare parts.
User Interface	▪ Control Panel/LCD display - Alpha-numeric displays for system parameters and alarms.
Signal and Alert	▪ Audible alarms notify changes in utility and UPS power conditions, programmable with auto reset and various frequencies.
Installation	▪ Easy installation, customizable to connect with external battery bank, with adequate option for charging system and scalability.
Diagnostics	▪ Self-test features to ensures early detection of electricity fault or battery issue.

Input Power Ratings (Municipal Feed)	
Input Frequency	▪ 45 ~ 65 Hz (auto sensing)
3- Phase Input Voltage range	▪ 304 ~ 477V, Others 380V ~ 415V
Input Power Factor at Full Load	▪ 0.99
Input Connections	▪ Hard Wire 5-wire (3PH + N + G)
Output Power ratings (Pure Sine Wave)	
Max Configurable Power	▪ 20.0 kW / 20.0kVA
Nominal Output Voltage	▪ 220 V Single Phase/3 Phase (Configurable for 380: 400 or 415 V 3-Phase nominal output voltage)
Output Voltage Distortion	▪ Less than 3% at full load
Efficiency at Full Load	▪ 95.0 % or higher
Output Frequency (sync to mains)	▪ 50 Hz Sync to mains, 60 Hz Sync to mains
Output connection	▪ Customizable for 3Phase to 3Phase or 3Phase to Single phase, Hard Wire 5-wire (3PH + N + G), IEC 320 standard installations.
Bypass	▪ Built-in maintenance bypass
Warranty	▪ 3 Years
Installation/Operation	
Installation	▪ This UPS will serve as a redundant use for the existing 20 kVA APC Smart-UPS - SUVT 20KHS model. Vendor must conduct a test installation, synchronizing the offered UPS to the existing wiring infrastructure that connects with 32 x 150 Ah, 12V battery bank setup.
Monitoring	▪ Pre-Installed Network Management, Interface Ports(s), RJ-45 10/100 Base-T Smart slot with audible and visible alarm. EMP/Temperature Sensor, Web/SNMP Management Card for remote access/management.
Documentation / Manual	▪ CD with software/firmware, User Manual for graceful power programming.

Annex - 2

Attachment -3

Submission Form of Supplier's Proposed Technical Specifications

Supply and Delivery of IT Equipment and Accessories, MCA-N/PM/SH/078

(Supplier shall propose better or equivalent Technical Specifications than described in Attachment 1 and 3)

MCA-Nepal's Required Specification		SUPPLIERS SPECIFICATION
Lot #1: Laptop Computer		
1. Laptop Computer (Type A) with Docking and Monitor – 40 sets		
BRAND/MODEL NAME		
Type	▪ Business Enterprise-Grade Laptop: Robust, Ultra-Slim and sleek Design, Omission of Ethernet Port for enhance system portability.	
Operating System	▪ Windows 11 Professional x64 bit English ▪ Recovery Image	
Processor Technology	▪ Intel® Core™ Ultra 7 with vPro™ Technology	
Processor	▪ Intel® Core™ Ultra 7 165H vPro or equivalent	
Graphics	▪ Integrated Intel® Arc Graphics /Intel Graphics	
Chipset/Security	▪ TPM 2.0 Security Complied	

Display	▪ Display - 14" Diagonal. WUXGA (1920 x 1200), IPS, Anti-glare, non-Touch Screen or equivalent ▪ Webcam - Resolution: 1080p FHD IR/RGB Hybrid with Shutter	
Memory	▪ 32 GB DDR5, 2 x SODIMM	
Internal Storage	▪ 512 GB PCIe® NVMe™ TLC SSD or Equivalent, Expandable	
Sound/Audio	▪ Dual stereo speakers, integrated multi array microphone ▪ 1 x 1/8" / 3.5 mm Headphone/Mic Combo Universal Audio Jack	
LAN/Wireless technology	▪ Intel® Wi-Fi 6E AX211 2x2 AX and Bluetooth® 5.1/ IEEE 802.11ax - Gigabit Support	
External I/O Ports	▪ 2 x USB 3.1 Gen 1 Type-A ports ▪ 2 x Thunderbolt™ 4 with USB™ Type-C ports ▪ 1 x HDMI 2.0 port ▪ 1 x Headphone/microphone universal Combo Jack ▪ 1 x Micro/Nano-SIM slot (optional) ▪ 1 x Standard security lock with peripheral trap (slim)	
Keyboard/Touchpad	▪ Backlit, spill-resistant premium keyboard ▪ Pointing Device: Touchpad with multi-touch gesture support	
Power Supply/ Battery0	▪ ~ 65W USB Slim Power Adapter (AC) ▪ Replaceable Lithium-Ion, 3-Cell long life, 51 Wh (or higher) Fast/Express Charging Li-ion battery.	
Carrying bag	▪ Good quality branded laptop carrying bag (back-pack)	
Warranty	▪ Three-years warranty	
Docking Station	▪ Type – Universal Thunderbolt 4 ▪ Ports – at least 3 x USB-A, 1 x USB-C ▪ Ethernet – 1 xRJ45 Gigabit or higher speed ▪ 2 x DisplayPort, 1xHDMI 2.0 or higher ▪ 4 x Simultaneously display support. ▪ Connectivity – Integrated / detachable cable ▪ Audio port – 1 x 3.5mm audio combo jack (optional) ▪ Power on indicator – LED	

	▪ Windows 10/11, macOS support ▪ Power supply – standard 220v, 50Hz	
Desktop Monitor	▪ Size/type – 23 ~24 inches IPS ▪ Display resolution – WUXGA (1920 x 1200) ▪ Aspect Ration – 16:10 ▪ Connectivity – at least 1xHDMI, 1xDP or equivalent ▪ USB Ports – 2 x USB 3.0 ▪ Stand – adjustable height and angle (VESA) ▪ Power Supply – Standard 220V, 50Hz	
External Keyboard/Mouse	▪ Business enterprise grade premium multi-device wireless keyboard and mouse combo (USB/Bluetooth)	

2. Laptop Computer (Type B) - without Docking and Monitor – 25 sets.		
BRAND/MODEL NAME		
Type	▪ Business Enterprise-Grade Laptop: Robust, Ultra-Slim and sleek Design, Omission of Ethernet Port for enhance system portability.	
Operating System	▪ Windows 11 Professional x64 bit English ▪ Recovery Image	
Processor Technology	▪ Intel® Core™ Ultra 7 with vPro™ Technology	
Processor	▪ Intel® Core™ Ultra 7 165H vPro or equivalent	
Chipset/Security	▪ TPM 2.0 Security Complied	
Memory	▪ 64 GB DDR5, 2 x SODIMM	
Internal Storage	▪ 1.0 TB PCIe® NVMe™ TLC SSD or Equivalent, Expandable	
Graphics Card	▪ Integrated Intel® Arc Graphics / Intel Graphics	

Display	▪ Display - 14" Diagonal. WUXGA (1920 x 1200), IPS, Anti-glare, non-Touch Screen or equivalent higher ▪ Webcam - Resolution: 1080p FHD IR/RGB Hybrid with Shutter	
Sound/Audio	▪ Dual stereo speakers, integrated multi array microphone ▪ 1 x 1/8" / 3.5 mm Headphone/Mic Combo Universal Audio Jack	
LAN/Wireless technology	▪ Intel® Wi-Fi 6E AX211 2x2 AX and Bluetooth® 5.1/ IEEE 802.11ax - Gigabit Support	
External I/O Ports	▪ 2 x USB 3.1 Gen 1 Type-A ports ▪ 2 x Thunderbolt™ 4 with USB™ Type-C ports ▪ 1 x HDMI 2.0 port ▪ 1 x Headphone/microphone universal Combo Jack ▪ 1 x Micro/Nano-SIM slot (optional) ▪ 1 x Standard Security Lock with Peripheral Trap – Slim	
Keyboard/Touchpad	▪ Backlit spill-resistant premium Keyboard ▪ Pointing Device: Touchpad with multi-touch gesture support	
Power Supply/ Batter	▪ ~ 65W Slim Power Adapter (AC) ▪ Replaceable Lithium-Ion, 3-Cell long life, 51 Wh (or higher) Fast/Express Charging Li-ion battery	
External Keyboard/Mouse	▪ Business enterprise class premier multi-device wireless keyboard and mouse (Bluetooth)	
Carrying bag	▪ Good quality branded laptop carrying bag (back-pack)	
Warranty	▪ Three-years warranty	

Lot #2: Multifunctional Printer

3. Multifunctional Printer (MFP) – 1 set	
BRAND/MODEL NAME	

Machine Type	▪ Business Enterprise Grade Multifunctional Machine ▪ (All-In-One)	
Printing Output	▪ Monochrome (Standard - A4, A3, Letter)	
Standard Functions	▪ Print, Copy, Scan, Email	
Printing Speed	▪ Up to 70 ppm (Standard Letter, A4) or equivalent higher speed printing ▪ Monthly duty cycle – up to 300,000 pages or equivalent higher volume printing capacity ▪ First copy out =<5 second or faster	
Copy and Print Resolution	▪ Standard automatic Duplex Printing ▪ Manual One-sided printing ▪ Copy resolution up to 600 x 600 dpi, ▪ Print resolution up to 1200 x 1200 dpi enhanced. ▪ Copying reduce/enlarge: 25% ~ 400%. ▪ Economic /Grayscale Printing (default)	
Printer Processor	▪ Intel ATOM Quad Core/Dual-Core/ARM or any Dual Custom Processor or equivalent higher	
Printer Memory	▪ 4GB total or equivalent or higher	
Internal Storage (HDD/SSD)	▪ 128 GB SSD or higher (512 GB Preferred) or equivalent higher advanced technology storage.	
Control Panel	▪ 10.1" TFT/LCD/LED Color Display Touch Screen	
Connectivity and other printing options	▪ Standard RJ-45 Ethernet (10/100/1000 Base-T) ▪ High speed USB 2.0/3.0 direct printer connection ▪ Additional latest wireless feature such as WiFi (IEEE 802.11 b/g/n) or WiFi Direct or AirPrint and Bluetooth and cloud printing preferred. ▪ Print from USB disk (USB 2.0 or higher) feature. ▪ Print from Cloud repositories preferred (Dropbox, OneDrive, and Google Drive) or equivalent.	
Scanning Options / File Format Support	▪ Scan to USB directly connected to Printer. ▪ Scan to Email via SMTP support. ▪ Scan to Network/FTP/SFTP/SMB features.	

	▪ Scan to Cloud (desirable) ▪ Standard format - PDF, PDF/A, JPEG, TIFF and wider range of file format support and OCR. ▪ Other security features	
OS Support	▪ Windows® Server2012/Server2012 R2/ Server2016/Server2019/Server 2022, Windows 10/11 and Mac OS X (10.11) or higher versions ▪ Both PCL and advanced PostScript (PS). PDF and XPS printing support	
Paper Handling (ADF, Trays and Paper Output Options)	▪ Robust feeder design (multiple size support – ~A4 ▪ DADF/DSDF with standard Single-Pass Duplex Automatic Document Feeder for scan and copy. ▪ Paper Tray/Cassette/Drawer - Total FOUR Trays (Letter, A4 ~ A3) including - bypass and high capacity Tandem/Deck or equivalent options enough for high volume printing. ▪ Paper/Size/Thickness: Standard Letter, A4, A3 - up to 200/300 GSM/140LB or equivalent paper weight support ▪ Paper output Accessories - Office Finisher Unit (OFU) with up to 50 Sheets (20 lb/80 gsm) single-position stapling or equivalent feature.	
Power Supply	▪ Standard 220 v, 50 Hz Nepal	
Accessories	▪ Power Cables, USB Cables and ADF, Cover etc.	
Warranty	▪ 3 Years, Spares and Onsite Support	

Lot #3 : Video Conferencing System

4. Video Teleconferencing (VTC) System for mobile Use -1 set		
BRAND/MODEL NAME		
Type	▪ Professional Auto Tracking PTZ Camera	
Picture Elements	▪ Single/Double Lens with 1/25" ~1.0" Image Sensor	

Output Resolution	▪ 4K Ultra HD	
Zoom	▪ 15~30 Advance Zoom or Equivalent	
FOV/PTZ	▪ 60~120-degree horizontal coverage or equivalent	
Connectivity	▪ 3G-SDI/ HDMI / IP / USB/ RS-232/ RS-422 etc. Audio IN/OUT options	
Video Formats	▪ MPEG/AVI/MOV/WMV compatible with Windows	
Auto Tracking /AI Functions	▪ Human Detection/Motion Tracking Feature	
OS Support	▪ Plug and Play – Windows/Mac OS	
Power Supply	▪ AC, Standard 220~240C, 50/60Hz	
Accessories	▪ Power adapter/cord/cable, remote control, Extension cable/wire up to 20M, mounting kit etc. to make the system functional.	
Warranty	▪ At least ONE year	
Audio Speakerphone		
Type	▪ Full duplex microphone array speakerphone	
Audio acoustic features	▪ Advanced echo cancellation / noise suppression features for powerful wideband voice processing	
Voice/Audio Control	▪ Speaker volume adjustable via Remote control/Touch Control/button control for volume up/down, mute, call and hang-up functions	
Connectivity	▪ Bluetooth/LAN/audio IN/OUT, USB 3.0/USB-C/HDMI/ RS-232/ RS-422 with options for MIC POD expansion and external audio system	
Power Supply	▪ AC, Standard 220~240C, 50/60Hz	
Accessories	▪ Power adapter/cord/cable/HuB, remote control and extension cable up to 20M to make the system functional. ▪ Mounting Kits (if applicable)	

OS Support	▪ Plug and Play with Standard Windows and Mac OS	
Expected Apps to be Compatible With	▪ Skype/Skype for Business ▪ Microsoft Teams ▪ Zoom ▪ Cisco WebEx, Jabber,	
Warranty	▪ At least ONE Year	
Carrying Bag	▪ Appropriate carrying bag to accommodate Conference Camera, Speakerphone and Accessories	

Lot #4: Uninterruptable Power Supply System

5. 3 kVA Smart UPS -1 set		
	BRAND/MODEL NAME	
Type/Capacity	▪ 3000 VA Smart UPS System ▪ Tower Cashing	
Power Input Voltage/Current	▪ 220 V, 50/60 Hz +/-3 Hz Auto Sensing ▪ IEC320- C19 Input Connection ▪ Input Voltage range – 160 ~ 285 V adjustable. ▪ At least 95.0 % efficiency at full load	
Power Output Voltage/Current	▪ 3.0 kVA, 2.7kWatts ▪ Nominal Output voltage – 220 ~230 configurable ▪ At least 95% Efficiency at full load ▪ (1) IEC C19 outlet connection ▪ (4+) IEC C13 outlet connections	
Batteries	▪ 2x Maintenance-free sealed Lead-Acid battery (Leak-proof) ▪ Expected re-charge time 3 Hrs. ▪ Expected Battery Life (years): 3- 5 years.	
Backup/runtime	▪ At least 8 ~ 12 minutes of runtime at half load	
Output Frequency	▪ Sinewave, 50 Hz (47 - 53 Hz), +/-5% distortion	
Communication	▪ Smart-Connect, USB & Serial support. ▪ LED/LCD/Light status display for On-Line, On-Battery, Battery Replace and Overload Indicator	
Audible Alarm	▪ Alarm when UPS is on battery, distinctive low battery and configurable delays or defects.	
Accessories	▪ Power Cables, C13, C19 type, ▪ Serial/USB cable, Serial-RJ-45 etc. ▪ User manual	

Warranty	▪ At least ONE year	

6. 20 kVA UPS for Data Center (Backup) -1 set

	BRAND/MODEL NAME	
External Features:		
Chassis Type	▪ Tower with trolley wheelbase	
UPS Type/Capacity	▪ 20 kVA Smart, Double Conversion Online	
Architecture	▪ Modular design for quick service and less maintenance via self-diagnosis and replaceable spare parts.	
User Interface	▪ Control Panel/LCD display - Alpha-numeric displays for system parameters and alarms.	
Signal and Alert	▪ Audible alarms notify changes in utility and UPS power conditions, programmable with auto reset and various frequencies.	
Installation	▪ Easy installation, customizable to connect with external battery bank, with adequate option for charging system and scalability.	
Diagnostics	▪ Self-test features to ensures early detection of electricity fault or battery issue.	
Input Power Ratings (Municipal Feed)		
Input Frequency	▪ 45 ~ 65 Hz (auto sensing)	
3- Phase Input Voltage range	▪ 304 ~ 477V, Others 380V ~ 415V	
Input Power Factor at Full Load	▪ 0.99	
Input Connections	▪ Hard Wire 5-wire (3PH + N + G)	
Output Power ratings (Pure Sine Wave)		

Max Configurable Power	• 20.0 kW / 20.0kVA	
Nominal Output Voltage	• 220 V Single Phase/3 Phase (Configurable for 380: 400 or 415 V 3-Phase nominal output voltage)	
Output Voltage Distortion	• Less than 3% at full load	
Efficiency at Full Load	• 95.0 % or higher	
Output Frequency (sync to mains)	• 50 Hz Sync to mains, 60 Hz Sync to mains	
Output connection	• Customizable for 3Phase to 3Phase or 3Phase to Single phase, Hard Wire 5-wire (3PH + N + G), IEC 320 standard installations.	
Bypass	• Built-in maintenance bypass	
Warranty	• 3 Years	
Installation/Operation		
Installation	• This UPS will serve as a redundant use for the existing 20 kVA APC Smart-UPS - SUVT 20KHS model. Vendor must conduct a test installation, synchronizing the offered UPS to the existing wiring infrastructure that connects with 32 x 150 Ah, 12V battery bank setup.	
Monitoring	• Pre-Installed Network Management, Interface Ports(s), RJ-45 10/100 Base-T Smart slot with audible and visible alarm. EMP/Temperature Sensor, Web/SNMP Management Card for remote access/management.	
Documentation / Manual	• CD with software/firmware, User Manual for graceful power programming.	