

No. F.1-18/2017/IT/SA/CADD

Government of Pakistan

(Cabinet Secretariat)

CAPITAL ADMINISTRATION & DEVELOPMENT DIVISION, ISLAMABAD

## TENDER NOTICE

### For purchase of Computer Hardware and IT Equipment IMPLEMENTATION OF E-GOVERNANCE/E-FILING IN CA&DD

Capital Administration and Development Division, a custodian of Education, Health, Population Welfare, Social Welfare, Special Education and Zakat & Ushar, within the territorial limits of Islamabad Capital Territory, invites sealed bids from the original manufacturers / authorized distributors / suppliers registered with Income Tax and Sales Tax Departments and who are on Active Taxpayers List of the Federal Board of Revenue for supply and installation of IT/Computer equipment including Computers, Server, UPS, Scanners etc and establishment of secure network in CA&DD, Islamabad.

2. Bidding documents, containing detailed terms and conditions, etc. are available at office of the System Analyst, 2nd Floor D-Block, Pak Secretariat. Bidding documents can be downloaded from [www.cadd.gov.pk](http://www.cadd.gov.pk) free of cost.

3. The bids, prepared in accordance with the instructions in the bidding documents, must reach at the undersigned at 2nd Floor, D-Block Pak. Secretariat, Islamabad on or before 30-01-2018 upto 11:00 AM. Bids will be opened on the same day at 11:30AM. This advertisement is also available on PPRA website at [www.ppra.org.pk](http://www.ppra.org.pk).

(Ch. Ramzan Ali)

Deputy Secretary (Admn)

Ph. 051-9212601, 9104029, Fax: 9213844

No. F.1-18/2017/IT/SA/CADD  
گورنمنٹ آف پاکستان  
(کابینٹ سیکرٹریٹ)  
کیپٹل ایڈمنسٹریشن اینڈ ڈویلپمنٹ ڈویژن، اسلام آباد

ٹیٹنڈر نوٹس  
برائے کمپیوٹر ہارڈ ویئر اور آئی ٹی آلات کی خریداری

کیڈ میں الیکٹرانک گورننس / الیکٹرانک فائلنگ پر عملدرآمد

1. کیپٹل ایڈمنسٹریشن اینڈ ڈویلپمنٹ ڈویژن (کیڈ) جو دار الحکومت اسلام آباد کی علاقائی حدود میں ایجنکیشن، ریٹیل، ڈسٹری بیوٹن، ڈسٹری بیوٹل، ڈسٹری بیوٹل ایجنکیشن، بڑا اور ریسٹورانس کے لیے کمپیوٹر اور نیٹ ورکس ڈیپارٹمنٹ میں رجسٹرڈ اور فیڈرل ایڈ آف ایجوکیشن کے فعال ایس، ایجنکیشن کی فہرست میں شامل اصل ٹیکنیکل مین اور ہارڈ ویئر سپلائرز سے آئی ٹی کمپیوٹر آلات شامل کمپیوٹر، سرور، موبائل ایس، کنیکٹرز وغیرہ کی سپلائی اور تنصیب کے علاوہ کیڈ میں مطلوب آلات کی فراہمی کے لیے سرگرم ہونے والے پیشکش کنندگان سے درخواستیں طلب ہیں۔

2. تفصیلی شرائط و ضوابط وغیرہ پیشکش کنندگان کے پاس (System Analyst) سے 29-01-2018ء کو ڈاؤن لوڈ کی جاسکتی ہیں۔ پیشکش کنندگان کو [www.cadd.gov.pk](http://www.cadd.gov.pk) سے اپنا معاوضہ کی ڈاؤن لوڈ کی جاسکتی ہے۔

3. پیشکش کنندگان کے پاس آئی ٹی آلات کے مطابق تاریکی کی پیشکشیں مورخہ 30-01-2018ء بوقت 11:00 بجے تک ذریعہ کیڈ کو 29-01-2018ء کو ڈاؤن لوڈ کی جاسکتی ہیں۔ پاکستان سیکرٹریٹ، اسلام آباد میں پیشکش جانی جائے گی اور اسے روز 30-01-2018ء کو 11:30 بجے کھولی جائے گی۔ یا اشتہار ہیجے کی ویب سائٹ [www.ppra.org.pk](http://www.ppra.org.pk) پر بھی دستیاب ہے۔

(چوہدری رمضان علی) ڈپٹی سیکرٹری (ایڈمن)۔ فون: 051-9212601, 9104029، فیکس: 051-9213844  
PID/03758/17  
13-01-2018



**Government of Pakistan  
(Cabinet Secretariat)  
Capital Administration & Development Division**

**BIDDING DOCUMENT  
FOR PURCHASE OF COMPUTER  
HARDWARE AND IT EQUIPMENT**

**IMPLEMENTATION OF  
E-GOVERNANCE/E-FILING  
IN CA&DD**

---

**Capital Administration & Development Division**

Deputy Secretary (Admn)  
2<sup>nd</sup> Floor , Block-D, Pak. Secretariat, Islamabad  
Ph. 051-9212601, 9104029, Fax: 9213844

**Price: Rs.1000/- (Cash/Non-refundable)**

**GOVERNMENT OF PAKISTAN  
(Cabinet Secretariat)  
Capital Administration & Development Division  
\*\*\*\*\***

**TENDER FORM**

- Note: (1) Contractors/Vendors must fill in all the details as required in the form.**  
**(2) Print in Blue/black pen, use CAPITAL LETTERS.**

Name of Firm / Company \_\_\_\_\_

National Tax No. \_\_\_\_\_

Sales Tax Registration No. \_\_\_\_\_

Vender No: \_\_\_\_\_

Date of Registration (Firm /  
Company) \_\_\_\_\_

Owner(s) Name(s): \_\_\_\_\_

Business Address: \_\_\_\_\_

Telephone \_\_\_\_\_ Fax: \_\_\_\_\_ Mobile: \_\_\_\_\_

**Authorized Signature / Stamp**  
(Chief Executive or  
the person authorized to sign  
and Submit bid)

**Attachments:**

- Copy of CNIC
- Copy of NTN
- Copy of Sales Tax Registration
- Copy of Dealership Agreement
- Supporting documents

Tender submission date \_\_\_\_\_

Earnest money (2 % of quoted amount) Rs. \_\_\_\_\_

Bank Draft/Pay Order/Call Deposit No. \_\_\_\_\_

Issuing Bank \_\_\_\_\_

# **TERMS AND CONDITIONS**

## **1. GENERAL**

- i. Sealed tenders shall be submitted by Reputed Tax registered firms / Companies.
- ii. Conditional, incomplete, non-compliant and over writing in bids will not be accepted.
- iii. The bidder must be original manufacturer or authorized dealer / distributor.
- iv. Telephonic / telexed / faxed / telegraphic / emailed quotation will not be entertained.
- v. The Bidder should quote the price according to the technical specifications as provided in the bidding document (**Annex-I**). The specifications of item, different from demand of enquiry, will straightway be rejected.
- vi. The Bidder is required to offer competitive price. The prices should be including all taxes/General Sales Tax (GST).
- vii. Price offered should be for the entire quantity of each item demanded; partial quantity offers shall straightaway be rejected. Conditional/Optional offers will also be considered as non-responsive bidder.
- viii. Any bid received by the purchaser after the specified time and date will be rejected. The bidder after winning of tender would be bound to deliver buses on specified station on its own resources/expense.
- ix. A bid once opened in accordance with the prescribed procedure shall be subject to only those rules, regulations and policies that are in force at the Time of issuance of tender notice.
- x. The specifications of items are Annexed as **Annex-I**.
- xi. **Single stage – two envelopes bidding procedure shall be applied:-**
  - The bid shall comprise a single package containing two separate envelopes; each envelope shall contain separately the **FINANCIAL PROPOSALS** and **TECHNICAL PROPOSAL** for implementation of e-Governance/e-Filing in CA&DD.
  - The envelopes shall be marked as “**TECHNICAL PROPOSAL**” and “**FINANCIAL PROPOSAL**” in bold and legible letters to avoid confusion;
  - Initially, only the envelope marked “**TECHNICAL PROPOSAL**” shall be opened;
  - The envelope marked as “**FINANCIAL PROPOSAL**” shall be retained in the Custody of Procuring agency without being opened;
  - The Procuring agency shall evaluate the technical proposal, without reference to the price and reject any proposal which does not conform to the specified requirements;
  - During the technical evaluation no amendments in the technical proposal shall be permitted;
  - The financial proposals of bids shall be opened publicly at a time, date and venue to be announced and communicated to the Bidders in advance;

- After the evaluation and approval of the technical proposal, the Purchaser shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically non-responsive shall be returned unopened to the respective Bidders; and

- Xii. The bid found to be the lowest evaluated Bid shall be accepted.
- xiii. The purchaser will disqualify a bidder if it finds at any time that the information submitted by him concerning his quotation as supplier was false and / or misstated.
- xiv. The bidder shall submit a certificate of financial stability from its bankers with regards to the ability to successfully meet obligations under this procurement.
- xv. Any bid found without bid security / earnest money @ 2 % of the total quoted value in shape of Pay Draft/Pay order/CDR will also lead to rejection of bid. The earnest money document shall be in the envelope containing technical proposal.
- xvi. The earnest money deposited along with bid will be refunded to all unsuccessful bidders within 10 days of contract award. Whereas the earnest money of successful bidder will be treated as performance guaranty and will be returned after the expiry of warranty period i.e. one year after the confirmation/verification/inspection by the purchase committee.
- xvii. Before commencing supplies, samples will be examined by authorized officer(s)/Purchase and Technical Committee for approval. All subsequent supplies should be in conformity with the approved samples
- xviii. The successful bidder will start delivery within **one month** of issuance of supply order and will complete the installation of all equipment within **two months** of the issuance of supply order. LD will be imposed in case of delay in delivery which would be specified in the agreement.
- xix. The bidders must quote their **NTN/GST and Vender No** along with their offer and will be checked on active tax payer list of FBR, failing which their offer will be rejected.
- xx. Price negotiation as per existing PPRA rules is not allowed.
- xxi. The payment of items is coupled with inspection / commissioning of items; therefore, supplier should make sure that bid is complete in all respects including consumables and incidentals etc.
- xxii. The bid will be awarded on **LOT basis**.
- xxiii. The successful firm will provide an undertaking for provision of one year guarantee / warrantee with parts of each item and free support services after the delivery.

## 2. SCOPE OF SUPPLY

The bidder shall also be responsible for their supply and installation at the CA&DD offices, Islamabad

## 3. CLARIFICATION OF BIDDING DOCUMENT

The bidder requiring any further clarification or information of the bidding documents may notify by contacting System Analyst Office of “**Capital Administration & Development Division (CA&DD)**” Room No. 223 Block-D, Pak. Secretariat, Islamabad. The **CA&DD** will respond to any request for information or clarification of

the bidding documents which it receives not later than (02) two days prior to the deadline for the submission of bid.

**4. BID VALIDITY**

The bid shall remain valid and open for acceptance of the purchaser **for one year from commencing of contract.**

**5. SIGNING OF BIDS**

The authorized person signing the bid shall initial all the pages of the bid, where entries are made.

**6. SUBMISSION OF BID**

**6.1 SEALING AND MARKING OF BID**

The bidder shall seal the original and copy of the Bid separately, duly marking envelopes as **“Original” and “Copy”** The envelopes shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared “Late”.

**6.2 DEADLINE FOR SUBMISSION OF BIDS**

All bids must reach and be received by the Purchaser in sealed envelope (bold written **“BID FOR IMPLEMENTATION OF E-GOVERNANCE/E-FILING IN CA&DD”**) on or before the **prescribed deadline i.e. 30 January, 2018 upto 11AM or the next working day in case of closing date comes on holidays.**

The bids shall be opened by the Committee established for the purpose on the same day at 1130 HRS in the Committee Room No. 105 1st Floor Block-D, Pak. Secretariat, in presence of bidders / authorized nominees, who wish to be present on the occasion.

**6.3 LATE BIDS**

Any bid received by the Purchaser (Procurement agency) after the prescribed deadline for submission of bids or incomplete bid shall not be entertained in any circumstances.

**7. PURCHASER’S RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS**

The Purchase Committee of Capital Administration & Development Division (CA&DD) reserves the right to accept or reject any bid and to stop the bidding process and reject all bids, at any time prior to award of supply order without incurring any liability toward the bidders. The grounds for rejection of bid(s) shall be provided upon request of the bidder(s) but not bound to justify as per rule 33 of PPRA Rules.

**8. CONNIVING**

Unsolicited advice/clarification and any personal approaches at any stage of evaluations/purchase process that may lead to influence the process are strictly prohibited and will lead to disqualification.

**9. DELIVERY OF EQUIPMENT / ITEMS**

The delivery and installation of equipment / items shall be made at Capital Administration and Development Division and completed within Two month of the date of supply order/close of financial year 2017-18 of the date of supply order whichever is earlier. The bid price should be inclusive of the all kind of Taxes and packing (if any) and delivery cost. The supplier shall provide the items/material as per tender requirements in standard packing, the packing (if required) of the Goods as is required to prevent their damage or deterioration during transit to their final destination.

**11. INSPECTION OF EQUIPMENT / ITEMS**

Upon delivery at the specified premises, the Items shall be inspected by authorized officer(s)/Purchase Committee in the presence of supplier or his/her representative. Items not in conformity with the supply order shall be rejected. The rejected items (if any) shall be removed by the supplier within 30 days at vendor's expenses. A formal delivery challan shall be prepared against items found as per specification and accepted thereon.

**12. MODE OF PAYMENT**

The payment shall be made in the form of cross cheque through AGPR, which shall be issued, after inspection & verification and installation & operation/commissioning according to schedule, which will be provided separately.

**Note:** All taxes, insurance etc will be deducted from bills as per applicable taxation rules.

**13. PRICES**

Prices charged by the supplier for said items delivered and services performed under the contract will be in accordance with the prices quoted by the Firm / Company in its bid and also referred in the contract.

**14. EVALUATION CRITERIA:**

Compliance to general terms and conditions stated above is must for all bidders.

**15. ARBITRATION**

In case of any dispute concerning the interpretation and/or application of this tender, shall be settled through arbitration as provided in rule 48 of PPRA Rules, 2004 (Grievances Committee) . The Secretary Capital Administration & Development Division, Islamabad as Chairman of the Grievances Committee with following members shall act as sole arbitrator. The decisions taken and/or award made by the sole arbitrator shall be final, binding on the parties and not challengeable in the court of law.

- |                                  |        |
|----------------------------------|--------|
| 1. Joint Secretary(Admn), CA &DD | Member |
| 2. Deputy Secretary (CDA), CA&DD | Member |

**16. GUARANTEE / WARRANTY**

The supplier shall furnish one year after sales service guarantee/ warranty for successful operation of equipment / items from the date of installation. In case of malfunctioning / defect in any equipment / item, the supplier shall replace them free of cost within 15 days; otherwise the procuring agency will forfeiture the 2% earnest money in favor of CA &DD, Islamabad.

**17. BID SUBMISSION UNDERTAKING**

I / We hereby confirm that we have read and fully understood the terms and conditions of this procurement and accept the terms and conditions of this tender and will abide by the same faithfully.

**NAME OF BIDDER :** \_\_\_\_\_

**Signature**\_\_\_\_\_

**Seal:**\_\_\_\_\_

**Dated:**\_\_\_\_\_



**AGREEMENT (on legal paper)**

1. This agreement is made on \_\_\_\_\_ (date) between the Chairman, Purchase Committee/Capital Administration & Development Division, Islamabad with its office located at **D-Block, Pak Secretariat, Islamabad** herein after called the “Buyer” and M/S \_\_\_\_\_ with its registered office at \_\_\_\_\_ herein after called the Supplier “supplier”.
2. The Buyer having invited Tenders and decided to accept the rates on item basis:-

**LIST AS PER ANNEX -I**

3. The Supplier undertakes to complete the supply according to the specifications provided to the supplier within 30 days of issuance of the supplier order. In case of delay, the Buyer (CADD) reserves the right to impose a penalty or liquidated damages @ 0.3% per day of the quoted amount of non-supplied items. This penalty may rise up to 2% of the contract value in case of continued default by the supplier.
4. If the supply or installation is not made according to the agreed specification, the Buyer reserves the right to cancel the supply order and get the work done from another party at the cost and risk of the Supplier. If the Buyer would have to pay any amount in excess of the agreed amount the difference shall be recovered from the Supplier.
5. Supplier shall supply the items at its own cost and risk at the location/Institution (as per supply order), strictly according to the specifications and in the original best condition.
6. The Earnest Money will be forfeited if the Supplier fails to honor and/or maintain its quoted rates or if it does not abide by other conditions of the bidding and this supply agreement.
7. The Buyer reserves the right to increase or decrease the quantity of the Tender; in that case payment will be made as per actual supply. However, this agreed quantity shall not exceed 15% of the original contract value.
8. If the supplies or installation work is not according to the satisfaction of the Buyer, Buyer reserves the right to reject it altogether or may impose a penalty not exceeding 10% of the amount of contract and if so required, also confiscate and call the earnest money
9. The supplier shall not assign the contract or sub-let any of the work of supplier under this agreement without the prior consent of the Buyer.
10. After receipt of equipment, inspection, installation and operation/commissioning, payment will be made through AGPR.
11. Time shall be deemed of essence, provided that the time for completing any of the work which has been or is likely to be delayed by reason of force majeure or other cause beyond the control of the supplier. However the extension period shall be equal to the length of delay so caused, provided a prompt notice is served to the buyer about the occurrence causing or likely to cause such delay.
12. All disputes controversies or differences that may arise between the buyer and seller arising out of or in connection with this Agreement, shall be settled amicably through mutual negotiations in good faith. All such disputes that are not settled amicably within 30 days from the date of notification of such dispute shall be referred to arbitrator i.e. Secretary, Capital Administration & Development Division, Islamabad or nominee (Arbitrator), whose decision shall be final and binding on both the parties.
13. The Supplier shall be under obligation to remove any discrepancy at its own expense, as may be noticed at a later stage notwithstanding the fact that the supply was earlier accepted and payment was released in accordance with this agreement.
  - (a) Buyer may terminate this agreement at any stage/time, if the supply is not satisfactory or is not according to the specification referred in bid and approved for supply.
  - (b) This agreement has been prepared in duplicate. One signed copy shall remain with the Buyer and the other signed copy shall be provided to the Supplier.

(c) In witness whereof Chairman, Purchase Committee, Capital Administration & Development Division, Buyer, Islamabad and M/S\_\_\_\_\_ affixed their signatures on this document on the day and year mentioned first above.

**Supplier**

Name\_\_\_\_\_

C.N.I.C No.\_\_\_\_\_

Signature\_\_\_\_\_

**Buyer**

Name\_\_\_\_\_

C.N.I.C No.\_\_\_\_\_

Signature\_\_\_\_\_

**WITNESS:-**

1. Name\_\_\_\_\_

C.N.I.C. No.\_\_\_\_\_

Signature\_\_\_\_\_

2. Name\_\_\_\_\_

C.N.I.C. No.\_\_\_\_\_

Signature\_\_\_\_\_

**Specification of Computer Hardware and IT Equipment  
Implementation of e-Governance in Capital Administration and  
Development Division**

LOT No	No	COMPUTER HARDWARE/IT EQUIPMENT & NETWORKING	Qty	Unit Price	Meet detailed specification (YES/NO)	Total Cost including all taxes and installation
1	1	Desktop Computer Core i7 (Branded)	55			
2	2	ADF Scanner	20			
	3	Flatbed Scanner	5			
	Grand Total Lot No. 2 (Including all taxes and installation)					
3	4	Color Scanner/Copier/Printer built-in Network printer & Scanner with RADF	01			
4	5	Rack UPS 10KVA 6U	01			
	6	2U Rack Server with Windows Server	01			
	7	42U Rack with KVM and Console	01			
	Grand Total Lot No. 4 (Including all taxes and installation)					
5	8	Unified Threat Management (UTM)/Firewall	01			
	9	Manageable Gigabit Secured Wireless Network Solution for CADD offices in D-Block	Complete solution			
	Grand Total Lot No 5 (Including all taxes and installation)					
<b>Grand Total (Including all taxes and installation)</b>						

**Note: Page 2 to 8 of Annex-I have the detailed specification of above items**

Name of Firm : \_\_\_\_\_

Authorized Person Name: \_\_\_\_\_

Signature \_\_\_\_\_

Seal/Stamp: \_\_\_\_\_

Dated: \_\_\_\_\_

## DETAILED SPECIFICATION OF COMPUTER HARDWARE/IT EQUIPMENT & NETWORKING

Lot No. 1		
No.	Item	Minimum Specification
01	<b>Desktop Computers (Branded)</b>	<b>Desktop Computer</b> Processor Core i7, 7200U, 7Generation or higher Memory 8GB or higher Hard Drive 1TB or higher DVD-RW Latest Intel Chipset Intel Graphic, WiFi USB Keyboard & Optical Mouse Display 19" LED or higher Windows 10 Professional with media Office 2016 Home business
Lot No.2		
No.	Item	Minimum Specification
02	<b>ADF Scanner</b>	<b>Scanner Type</b> :ADF Straight Path, Sheet Fed, Duplex Color Scanner , with support for Flatbed <b>Scanning Speeds</b> : ADF (B&W / Color), 25-30 ppm/50-60ipm or higher. Please specify ppm and dpi rate clearly in quoted documents). The ppm should be of final product no extra post processing time. <b>Operator Control Panel</b> :User Friendly. <b>Paper Thickness and Weight</b> : 30–400 g/m2 (20 % marginal difference acceptable) <b>Recommended daily volume</b> : 3000 or higher number of pages <b>Document Feeding Capacity</b> :70 sheets (25 lb./80 g/m2) or higher <b>Scan able Media Type</b> : Paper (plain, inkjet, handwriting), Envelopes, Labels, Business cards, Insurance cards, Plastic cards, ID cards, Credit cards, Greeting and Wish cards, recycled paper, Photographs etc. <b>Connectivity</b> : USB 2.0 & 3.0 compatible or higher <b>Imaging Features</b> : Background color smoothing, Brightness and Contrast control, Auto color balance, Auto contrast, brightness and color balance, Multiple Dual Stream, Color drop out, Image merging Fixed Cropping, Relative Cropping, Multi-Lingual Auto Orientation, Orthogonal Rotation, , Remove Border, bar code reading. (Better feature will relax the mentioned features.) <b>OS Compatibility</b> : Windows Family, Linux Family, MAC OS with support for latest version. <b>File Format Outputs</b> : Single and multi-page TIFF (Single page ,multi page, compressed , JPEG, RTF, BMP, PDF, searchable PDF, PNG & MS Word/Excel etc
03	<b>Flatbed Scanner</b>	Scan Type Flatbed <b>Scan Resolution</b> : Up to 600 x 1200 dpi or higher <b>File Format</b> : PDF, OCR enabled PDF, BMP, TIFF, JPEG, GIF, PNG, RTF, TXT. <b>Speed</b> : Up to 20 seconds per page/image (finalized) <b>One Touch Operation</b> : Scan, Copy, Scan to PDF <b>Connectivity</b> : USB 2.0 or higher <b>OS Support</b> : Windows, MAC.
Lot No.3		
No.	Item	Minimum Specification
04	<b>Multifunction A3 Color Printer and Scanner with RADF</b>	<b>Type</b> : Color Laser Multifunctional <b>Core Functions</b> : Print, Copy, Scan, Send, Store <b>Print Speed</b> : 30 ppm (BW/Color) or higher <b>Scan Speed</b> : Scan up to 80/160 ipm (300 dpi) (BW, color, duplex) <b>Memory</b> : 3.0 GB RAM or higher <b>Hard Disk Drive</b> : 250 GB or higher

	<p><b>Interface Connection Network:</b> 1000Base-T/100Base-TX/10Base-T, Wireless LAN (IEEE 802.11 b/g/n), USB 2.0 x1 (Host), USB 3.0 x1 (Host), USB 2.0 x1 (Device)</p> <p><b>Scan Specifications:</b> Single-pass Duplexing Automatic Document Feeder</p> <p><b>Document Feeder Paper Capacity:</b> 150 Sheets or higher</p> <p><b>Document Feeder Supported Media Sizes:</b> 11" x 17", Legal, Letter, Letter-R</p> <p><b>Scan Resolution (dpi):</b> 600 x 600, 400 x 400, 300 x 300, 200 x 400, 200 x 200, 200 x 100, 150 x 150, 100 x 100</p> <p><b>Scan Speed:</b> Single-sided Scanning (BW/Color): 80 ipm (300 dpi) Double-sided Scanning (BW/Color): 160 ipm (300 dpi)</p> <p><b>Print Resolution (dpi):</b> 1200 x 1200</p> <p><b>Standard Page Description Languages:</b> UFR II, PCL 6</p> <p><b>Direct Print:</b> USB (Supported File Types PDF, TIFF, JPEG, EPS, XPS)</p> <p><b>Consumables Toner Yield:</b> Black: 36,000 Images Color (C,M,Y):13 19,000 Images or better</p> <p><b>Paper Sources:</b> Dual 550-sheet Paper Cassettes, 100-sheet Stack Bypass</p>
--	---

**Lot No.4**

No.	Item	Minimum Specification
05	UPS 10 KVA	<p><b>UPS Rack Height 6U</b></p> <ul style="list-style-type: none"> <li>• Output power capacity 8.0 KWatts / 10.0 kVA</li> <li>• Max Configurable Power (Watts) 8.0 KWatts / 10.0 kVA</li> <li>• Topology Double Conversion Online</li> <li>• Waveform type Sine wave</li> <li>• Output Voltage Distortion Less than 3%</li> <li>• Output Frequency (sync to mains) 50/60Hz +/- 3 Hz</li> <li>• Load Crest Factor 3: 1</li> <li>• Output Connections (1) Hard Wire 3-wire (H N + G) (Battery Backup)</li> <li>• Bypass Internal Bypass (Automatic and Manual)</li> <li>• Input frequency 47 - 63 Hz</li> <li>• Input Connections Hard Wire 3 wire (1PH+N+G)</li> <li>• Input Total Harmonic Distortion Less than 8% for full load</li> <li>• Maximum Input Current 60.0A</li> <li>• Battery type VRLA</li> <li>• Expected Battery Life (years) 3 - 5</li> <li>• Interface Port(s) DB-25 RS-232, Smart-Slot</li> <li>• Overload and Bypass Indicators</li> <li>• Audible Alarm: Alarm when on battery: distinctive low battery alarm: overload alarm</li> <li>• Filtering: Full time multi-pole noise filtering: 0.3% IEEE surge let-through: zero clamping response time: meets UL 1449</li> <li>• Certified: CE, CE Mark, EN/IEC 62040-2, IEC 62040-2</li> <li>• Standard Warranty 2 Years Repair or Replace</li> </ul>
06	Rack Servers with Windows Server 2016 SE or Higher (Branded)	<p><b>2U Rack Form Factor</b></p> <p><b>Dual Installed Intel® Xeon® processor</b> Silver 4108 processor or higher</p> <p><b>Hard Disks:</b> 4 x HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise or higher</p> <p><b>Memory:</b> 64 GB (4 module(s) 16 GB) DDR4, registered, ECC, 2,666 MHz, PC4-2666, DIMM, 1Rx4 Memory Up to 3TB Support 24 DIMM sockets (12 DIMMs per processor) or higher</p> <p><b>Ethernet:</b> 4 x GbE Base-T Adapter iSCSI supported</p>

		<p><b>Power Supply:</b> Redundant High Efficiency Platinum AC Power Supply N+1</p> <p><b>Disk Bays:</b> Should have support at least Up to 28 hot-swap SAS/SATA Hard Drive bays</p> <p>RAID Controller: 12 Gb SAS/SATA RAID controller RAID Level Support 0, 1, 10, 5 50 6 &amp; 60 with 2GB Cache</p> <p><b>PCI Slots:</b> Should have at least 8 PCIe Expansion Slots</p> <p><b>Cooling:</b> Calibrated Vectored Cooling with up to six, redundant hot-swap fans</p> <p><b>Hot Swap Parts:</b> Hard drives, power supplies, and fans.</p> <p>Systems Management: Shall have systems management Software and shall be able to diagnose pre failure on Hard Disks, Processors, Mother board, RAMs, VRms , Power Supplies Fans &amp; other key active components</p> <p><b>Security Features:</b> Power-on password, administrator's password, DVD Burner: Ultra-slim 9.5mm SATA Multi Burner</p> <p>OS Supported: Microsoft Windows Server 2016, 2012 and 2008 R2, Red Hat Enterprise Linux 6 and 7, SUSE Linux Enterprise Server 11 and 12, VMware vSphere (ESXi) 5.1, 5.5, and 6.0</p> <p><b>Operating System:</b> Windows Server 2016 SE or higher with media</p>
07	<p><b>Rack, KVM &amp; Console with Complete Accessories</b></p> <p>(Same Brand as of server)</p>	<p><b>Rack: Min 42U</b> with Cables, Panels, Rails &amp; Fittings as required</p> <p>Symmetrical basic cabinet WxDxH = 800x1200x2000mm. 3 vertical 1U-slots on every side. With top cover, front door, twin rear door and side panels. Protection class IP20, electrically grounded. Identical locks (code 333) as standard. Up to 200 different key cylinders. Mobile, heavy duty castors. Doors with honey combs and up to 80% holes for horizontal self-ventilation of mounted systems. Cabling space front 100 mm. Cables entry via bottom and top cover.</p> <p><b>KVM Switch:</b> Assembled in Server racks, 8-channel Switch for Keyboard, 17" Monitor, Mouse, 1x digital (IP), 2x local, Virtual Media support, OSD, multi-platform, CAT5 cabling, rack mounting kit, client-based GUI for digital (IP) access via WEB browser</p> <p><b>Console: 17" TFT 1U</b> US English, 1280x1024,keyboard/touchpad, front USB, 1280 x 1024 (SXGA) / multi-frequency feature (H= 30 -61 kHz; V = 55 - 75 Hz), dot pitch =0.26 mm</p>

**Lot No.5**

No.	Item	Minimum Specification
08	<b>Unified Threat Management (UTM)/Firewall</b>	<p>GUI Interface GUI configurable management system and control system. Capable to control incoming and outgoing traffic as per requirement with UTM/Firewall</p> <p>Firewall throughput: 40 Gbps</p> <p>VPN throughput: 15 Gbps</p> <p>AV throughput:15 Gbps</p> <p>IPS throughput: 15 Gbps</p> <p>UTM throughput: 20 Gbps</p> <p>Interfaces10/100/1000 4-WAN, LAN. DMZ, Wireless, 10G SFP</p> <p>I/O Interfaces USB, VGA, Console Port</p> <p>Full Layer seven and stateful packets inspection. Contents and URI Filtering</p> <p>Concurrent connections:5,000,000 nodes</p> <p>Unrestricted LAN IP , VLAN support,</p> <p>APT (Advanced Persistent Threats) Blocker, Data Loss Prevention Web Filter, Spam Filter Intrusion Prevention System, Gateway Antivirus, Spam blocker, Emerging threat prevention,</p> <p>Dynamic routing, Boarder Gateway Protocol(BGP), RIP, OSPF, Dynamic DNS, SNAT, DNAT, PPPoE</p> <p>Active directory, NIS and RADIUS authorization</p> <p>Policy based routing, IPSec traversal, Policy based PAT,</p> <p>Traffic shaping and QoS, priority queue, Virtual IP for server load balancing,</p> <p>Directory Server, Anonymous internet, packet sniffer, chat interceptor, multi IDP interfaces, VoIP pass through filter, detailed reporting, auto attack blocking</p>

		and black listing, dynamic web filter, reverse proxy, hardware intrusion detection, shell access, bandwidth monitoring, proxy reports. Built in RAM 16GB with supports Upto 64Gb RAM 250 GB Built-in storage Support upto 5 TB
09	<b>Manageable Gigabit Secured Wireless Network Solution (Minimum Specification)</b>	
9.1	<b>Wireless Controller (Qty: 1 or more as required)</b>	<p><b><u>Access Point Management Controller</u></b></p> <ol style="list-style-type: none"> <li>1. Controller should be able to support up to 150 access points</li> <li>2. Controller should support up to 4,000 concurrent users session.</li> <li>3. Support automatic channel adjustment</li> <li>4. Support automatic transmits power adjustment on each AP to achieve optimal performance.</li> <li>5. Controller must support integrated Captive portal.</li> <li>6. Support smart mesh networking and also show the mesh topology on floor plan.</li> <li>7. Support 256 WLANs</li> <li>8. Support integrated DHCP server</li> <li>9. Controller should be able to present a customizable dashboard.</li> <li>10. Controller should Support HotSpot 2.0 services.</li> <li>11. System should support Dynamic Pre-shared Key with 63 bit unique Key Generated by Controller</li> <li>12. System must detect the Rogue Access point and indicate malicious AP and Mac Spoofing.</li> <li>13. System must prevent the clients to communicate with Malicious Access.</li> <li>14. Controller should support Guest network and policies.</li> <li>15. Support 802.1Q (VLAN) per SSID</li> <li>16. Controller should support WEP, WPA-TKIP, WPA2-AES, 802.11i.</li> <li>17. Should support authentication via LDAP, Active Directory and RADIUS Sever and also have the internal local database.</li> <li>18. Controller should support Channel fly to automatically select the RF Channel with greater Throughput.</li> <li>19. Controller should support ACL (Access list) layer 2, layer 3 and layer 4.</li> <li>20. Controller should support the OS based policies for iOS, Android, windows and Linux.</li> <li>21. Controller have the ability to tunnel data from the access points to the controllers</li> <li>22. Controller should support SMTP outbound authentication and TLS encryption.</li> <li>23. Controller must have two Gigabit Ethernet (10/100/1000) ports.</li> <li>24. Support SNMP v2 and v3</li> <li>25. The controller should support TR-69 for remote monitoring and management.</li> <li>26. Device must be Wi-fi Alliance Certified.</li> <li>27. 1 year Manufacturer Support should be included</li> </ol>
9.2	<b>Access Points (Qty: 12 or more as required)</b>	<p><b><u>The AP's should support 802.11 a/b/g/n/ac standards and should be centrally managed by wireless controller device.</u></b></p> <ol style="list-style-type: none"> <li>1. Access Point must support 802.11 ac Wave II standards</li> <li>2. Support MU-MIMO</li> <li>3. The access point should work on 2.4GHz and 5 GHz band simultaneously.</li> <li>4. Access Point should support 800 Mbps (2.4 GHz) and 1733 Mbps (5 GHz).</li> </ol>

		<ol style="list-style-type: none"> <li>5. Access Point should support Channelization of 20 MHz, 40 MHz and 80 MHz</li> <li>6. Access point must work on 4 x 4 MIMO with 4 Spatial Streams.</li> <li>7. Support backward compatibility with legacy 802.11 Clients.</li> <li>8. Dual Polarized Integrated smart Directional antenna array, Support adaptive Polarization Diversity- MRC (PD-MRC)</li> <li>9. Integrated Antenna elements must support 4000 unique antenna patterns.</li> <li>10. Support Beamflex and Beamflex+ Technology.</li> <li>11. Device must support 3 dBi physical antenna gain and 3- 5dB (TX/RX) Beamflex gain.</li> <li>12. Device should support 15 dB interference rejection</li> <li>13. Device must support -104 dBm Receive Sensitivity.</li> <li>14. Transmit power of AP's: 28 dBm on 2.4 GHz and 28 dBm on 5 GHz.</li> <li>15. Support automatic RF Channel selection through maximum Channel Throughput Technology.</li> <li>16. Access Point should support Space time Block coding (STBC), Low Density Parity Check (LDPC)</li> <li>17. AP should support 802.3af and 802.3at POE standards.</li> <li>18. AP must have 2 x Auto MDX, Auto Sensing Gigabit Ethernet USB port for BLE smart beacons.</li> <li>19. Must support Ethernet port Link Aggregation (LACP)</li> <li>20. Wireless Security : WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i</li> <li>21. AP should authenticate via RADIUS, AD and LDAP</li> <li>22. Support integrated NAT and DHCP as Standalone Access Point.</li> <li>23. The access point should support 802.1q VLAN tagging</li> <li>24. AP should support 16 SSID per band.</li> <li>25. Implement Wi-Fi alliance standards WMM, WMM-PS, 802.11d, 802.11h and 802.11e.</li> <li>26. Support 4 Software Queues per client and 2 priorities for WLAN.</li> <li>27. Support up to 30 VO-IP clients.</li> <li>28. 500 Concurrent clients support.</li> <li>29. Dynamic per user rate limiting for hotspot WLAN should be supported.</li> <li>30. Limited Lifetime warranty</li> <li>31. 1 year Manufacturer Support should be included</li> </ol>
<p>9.3</p>	<p><b>L2 Switch (Qty: 1 or more as required)</b></p>	<p><b><u>Switch 24 Ports Ethernet , 8 SFP/SFP+ uplink Ports (minimum)</u></b></p> <ol style="list-style-type: none"> <li>1. Switch, 24x 10/100/1000, 8x 1G SFP uplink-ports upgradable to 8x 10G SFP+ with license.</li> <li>2. Switch should support 208Gbps Capacity or Higher.</li> <li>3. Forwarding Capacity 154Mpps or Higher.</li> <li>4. Switch must support the following specification minimum             <ol style="list-style-type: none"> <li>a. 2 GB DRAM</li> <li>b. 2 GB NVRAM</li> <li>c. 2MB Packet Buffer</li> </ol> </li> <li>5. Switch support 16k MAC address entries and 12k IPv4, 2048 IPv6 Route entries. Also support the 4K VLAN, 32 PVLAN, 250 STP, 4k ARP and 16 port maximum per Trunk.</li> <li>6. Switch must support the following environmental ratings minimum             <ol style="list-style-type: none"> <li>a. Operating Temperature : -5°C to 50°C</li> <li>b. Storage Temperature: -25°C to 70°C</li> </ol> </li> </ol>



		<ul style="list-style-type: none"> <li>c. Operating humidity :5% to 95%</li> <li>7. Minimum 480Gbps of Aggregating Stacked Option or Higher.</li> <li>8. Should support 12 Switch Per Stack at Maximum Distance of 3 Km Capable</li> <li>9. Should support sFlow protocol.</li> <li>10. Should Support Layer 3 Protocols <ul style="list-style-type: none"> <li>a. RIPv1/v2,RIPng,</li> <li>b. OSPF v2,v3</li> <li>c. VRRP(IPv4/IPv6)</li> <li>d. VRF</li> <li>e. PIM-SIM,PIM-SSM,PIM-DM,PIM passive (IPv4/IPv6 multicast routing functionality)</li> </ul> </li> <li>11. Out of Band Ethernet Port 10/100/1000Mbps RJ45, Console Port RJ45 to USB, File Transfer USB Port.</li> <li>12. QOS ACL Mapping and Marking of ToS/DSCP (CoS), ACL Mapping and Marking of 802.1p, ACL Mapping to Priority Queue, Classifying and Limiting Flows Based on TCP Flags, Honoring DSCP and 802.1p (CoS), Priority Flow Control (per device).</li> <li>13. Security, 802.1X authentication, MAC authentication, Web authentication, Change of Authorization (CoA) RFC 5176, IEEE 802.1X username export in sFlow, EAP pass-through support.</li> <li>14. Open Flow 1.3 Support for Future Integration with SDN Controller</li> <li>15. Should support Hybrid Port Mode on all the Switch Ports</li> <li>16. ISSU (In Service Software Update)</li> <li>17. 3 year Support Advanced Hardware Replacement (Next Business Day)</li> </ul>
<p>9.4</p>	<p><b>PoE Switch (Qty: 2 or more as required)</b></p>	<p><b><u>Switch 12 Ports POE, 2 SFP/SFP+ and 2 Ethernet uplink Ports (minimum)</u></b></p> <ul style="list-style-type: none"> <li>1. 12x 10/100/1000 ports POE, 2x 1G RJ45 uplink-ports, 2x 1G SFP uplink-ports upgradable to 2x 10G SFP+ with license.</li> <li>2. Switch should support 68Gbps Capacity or Higher.</li> <li>3. Forwarding Capacity 50Mpps or Higher.</li> <li>4. Switch must support the following specification minimum <ul style="list-style-type: none"> <li>a. 1 GB DRAM</li> <li>b. 2 GB NVRAM</li> <li>c. 2MB Packet Buffer</li> </ul> </li> <li>5. Switch must support 124 W PoE power budget or Higher.</li> <li>6. Switch support 16k MAC address entries and 1000 Router entries. Also support the 4K VLAN, 32 PVLAN, 250 STP, 4k ARP and 8 port maximum Trunk.</li> <li>7. Switch must support the following environmental ratings minimum <ul style="list-style-type: none"> <li>a. Operating Temperature : -5°C to 45°C</li> <li>b. Storage Temperature: -25°C to 70°C</li> <li>c. Operating humidity :5% to 95%</li> </ul> </li> <li>8. Minimum 240Gbps of Aggregating Stacked Option or Higher</li> <li>9. Should support 12 Switch per Stack at Maximum Distance of 3 Km Capable.</li> <li>10. Open Flow 1.3 Support for Future Integration with SDN Controller</li> <li>11. Should support Hybrid Port Mode on all the Switch Ports</li> <li>12. ISSU (In Service Software Update)</li> <li>13. Hitless Fail Over to Auto Stand By Master Stack Controller</li> </ul>

		<ol style="list-style-type: none"> <li>14. Should support sFlow protocol</li> <li>15. Should Support Basic Layer 3 Protocols (Should have capability to Enhance the Layer Function by adding license for Future Use)</li> <li>16. Out of Band Ethernet Port 10/100/1000Mbps RJ45, Console Port RJ45 to USB, File Transfer USB Port.</li> <li>17. QOS ACL Mapping and Marking of ToS/DSCP (CoS), ACL Mapping and Marking of 802.1p, ACL Mapping to Priority Queue, Classifying and Limiting Flows Based on TCP Flags, Honoring DSCP and 802.1p (CoS), Priority Flow Control (per device).</li> <li>18. Security,802.1X authentication, MAC authentication, Web authentication, Change of Authorization (CoA) RFC 5176, IEEE 802.1X username export in sFlow, EAP pass-through support</li> <li>19. 3 years Support Advanced Hardware Replacement (Next Business Day).</li> </ol>
9.5	<b>CAT-6 Cable Roll (Qty: As per requirement)</b>	<p><b><u>UTP CAT 6</u></b></p> <ol style="list-style-type: none"> <li>1. Compliant to TIA / EIA 568-B,2-1 Category 6 cable 23AWG (0.574 mm), NVP 65%</li> <li>2. Specifications Supports ultrahigh speed data networks such as Gigabit Ethernet (1000 Base-T and 1000 Base-TX and beyond.</li> <li>3. Incorporates central spine maintaining pair separation during installation to ensure premium Performance after installation.</li> <li>4. UL listed CM rated cable</li> <li>5. Supplied in convenient 305m “Reel in a box”</li> </ol>
9.6	<b>Cabinet</b>	<p><b><u>Data Cabinet</u></b> Data Cabinet (Local) - 6U Double Section with 1 try, 2 Fan and power distribution unit: 8 Socket</p>