

# **STANDARD BIDDING DOCUMENT**

## **Procurement of Goods and Equipment for Community Network at Uttargaya**



**Nepal Internet Foundation**

Maujubahal, Chabahil, Kathmandu, Nepal

20 Bhadra 2078

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## Section I: Instructions to Bidders

### A. Introduction

1. **Scope of Bid** 1.1 Nepal Internet Foundation (hereinafter referred to as the Purchaser) wishes to receive Bids for supply and delivery of Community Network Equipment and Goods (hereinafter referred to as the Goods / Services).
2. **Eligible Bidders** 2.1 The bidder shall be an authorized and established dealer or reseller/supplier in the goods.

### B. The Bidding Documents

4. **Content of Bidding Documents** 4.1 The goods required, bidding procedures and contract terms are prescribed in the Bidding Documents. The Bidding Documents include:
  - a. Instruction to Bidder (ITB);
  - b. Bid Data Sheet;
  - c. General Condition of Contract (GCC);
  - d. Specifications of Requirements;
  - e. Diagrams;

The Bidder is expected to examine all instruction, forms, terms and specifications in the Bidding Documents. Failure to furnish all information required by the Bidding Documents or submission of a bid not substantially responsive to the Bidding Documents in every respect will be as the Bidder's risk and may result in the rejection of its bid.

5. **Amendment of Bidding Documents** 5.1 At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, modify the Bidding Documents by issuing addendum, which shall be notified in writing to all perspective bidders.

### C. Preparation of Bids

6. **Language of Bid** 6.1 The bid and all correspondence and supporting documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in the English language.
7. **Documents Comprising the Bid** 7.1 Documentary evidence established in accordance with Clause 2 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted.  
7.2 Bid & performance security
8. **Bid Price** 8.1 Prices shall be entered in the following manner:
  - i. The price of the goods including all customs, excise and other duties, sales and other taxes already paid or payable and the transportation costs



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- ii. The installation and price of other (incidental) services, if any.
  - iii. The price should include all the applicable discounts and no further discount clauses be indicated in any formats in the bid.

8.2 Price quoted by the Bidder shall remain fixed and valid until completion of the Contract performance and will not be subject to variation on any account.

**9. Currency of Bid**

9.1 The currency should be in Nepalese Rupees.

**10 Document  
Establishing  
Bidder's  
Eligibility and  
Qualification**

10.1 The documenting evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:

10.2 The Bidder has the financial and technical capability necessary to perform the contract.

**11. Performance  
Security**

11.1 Not Required.

**12. Period of  
Validity of Bids**

12.1 Bids shall remain valid for the period as specified in the *Bid Data Sheet* after the date of bid opening. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.

**13. Format and  
Signing of Bid**

13.1 The bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorised to sign on behalf of the Bidder. All pages of the bid, where entries or amendments have been made, shall be initialled by the person or persons signing the bid.

13.2 The bid shall contain no inter lineation, erasures or overwriting alterations or additions except as necessary to correct errors made by the Bidder or those to comply with instructions issued by the Purchaser, in which case, such corrections shall be initialled by the person or persons signing the bid.

**D. Submission of Bids**

**14. Sealing and  
Marking of Bids**

14.1 The Bidder shall seal the bid in an envelope and be addressed to the Purchaser at the address given in the Bid Data Sheet. The Bidder shall clearly mention the scope of the work for, which the seal quotation is submitted in the single envelope above the name address of the purchaser.

14.2 If the envelope is not sealed and marked as mentioned above, the Purchaser shall assume no responsibility for the bid's misplacement or premature opening.



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15. **Deadline for Submission of Bids** 15.1 Bids must be received by the Purchaser at the address, Nepal Internet Foundation, Maijubahal, Chabahil and no later than time and date as specified in the *Bid Data Sheet*.
16. **Late Bids** 16.1 Any bid not received within the date and time specified will not be accepted and will be returned unopened.
17. **Modification and Withdrawal of Bid** 17.1 No bid may be modified or withdrawn once submitted.

## E. Bid Opening and Evaluation

18. **Opening of Bids by Purchaser** 18.1 The Purchaser shall open the sealed quotations/tenders by procurement committee.
19. **Process to be Confidential** 19.1 Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the Award of a Contract shall not be disclosed to Bidders or any other persons not officially concerned with such process.
20. **Clarification of Bids** 20.1 To assist in the examination, evaluation and comparison of bids, the Purchaser may, at its discretion, ask any Bidder for a clarification of its bid, including breakdowns of unit rates.
21. **Examination of Bids and Determination of Responsiveness** 21.1 Purchaser will determine whether each Bid:
- meets the eligibility criteria defined;
  - has been properly signed;
  - is accompanied by the required securities;
  - is substantially responsive to the requirements of the Bidding documents.
- 21.2 Arithmetical errors will be rectified on the following basis:
- If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the Bidder does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited,
  - If there is a discrepancy between words and figures, the amount in words will prevail.
- 21.3 The Purchaser may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
22. **Evaluation and Comparison of Bids** 22.1 The Purchaser will evaluate and compare only the bids determined to be substantially responsive.
- 22.2 The Purchaser's evaluation of a bid will be in the base of the following:

- a) Adherence to the specification and quality of goods
- b) Price of the goods (and cost of other incidental services)
- c) Warranty, Guarantee
- d) Delivery Time Frames must be within 15 days after award of contract.

22.3 The Purchaser reserves the right to accept or reject any variation, deviation, or alternative offer.

**23. Contacting the Purchaser**

23.1 No Bidder shall contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded. If the Bidder wishes to bring additional information to the notice of the Purchaser, it should do so in writing.

23.2 Any effort by a Bidder to influence the Purchaser in the Purchaser's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidder's bid.

**F. Award of Contract**

**24. Post qualification**

24.1 In the absence of prequalification, the Purchaser will determine to its satisfaction whether the Bidder selected as having submitted the lowest evaluated responsive bid is qualified to satisfactorily perform the Contract.

24.2 The determination will take into account the Bidder's financial, technical and capabilities/ resources. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder as well as such other information as the Purchaser deems necessary and appropriate.

**25. Award Criteria**

25.1 The Purchaser will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the best-evaluated bid, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

**26. Purchaser's Right to Vary Quantities at Time of Award**

26.1 The Purchaser reserves the right at the time of award of Contract to increase or decrease by the percentage as specified in the *Bid Data Sheet*, the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit prices or other terms and conditions.

**27. Purchaser's Right to Accept Any Bid and to Reject Any or All Bids**

27.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

**28. Notification of Award**

28.1 The Bidder whose Bid has been accepted will be notified of the award by the Purchaser prior to expiration of the Bid validity



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period by facsimile confirmed by a letter that his/her/its Bid has been accepted.

## Section II: Bid Data Sheet

The following specific data for the Goods/Services to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders. Whenever there is a conflict, the provisions herein shall prevail over those in Instructions to Bidders.

*[Instructions for completing the **Bid Data Sheet** are provided, as needed, in the notes in italics mentioned for the relevant ITB Clauses.]*

<b>1) Introduction</b>	
1.1	Name of Purchaser: <i>(Nepal Internet Foundation)</i>
1.2	Invitation for Bids is open to all those eligible suppliers who are:  (a) registered within the Government of Nepal, (b) registered as per Income Tax Act of Nepal, and (c) registered in VAT office (d) Authorized dealer or reseller or Supplier of the quoted product. (e) Section VI
1.3	Purchaser can modify Bidding documents before the Deadline for submission of Bids by issuing Addendum.
1.4	Language of the bid: English.
<b>2) Bid Price and Currency</b>	
2.1	The total price quoted shall be:  The prices shall include all duties, taxes and other levies.
	The price of other incidental services:  (i) ..... NRs..... (ii) ..... NRs..... (iii) ..... NRs.....
2.3	The prices shall be fixed with all applicable discounts.
2.4	The prices shall be quoted in Nepalese Rupees.
<b>3) Preparation and Submission of Bids</b>	
3.1	Qualification requirements.  i) The bidder shall furnish a list of users who had purchased same/similar goods/equipment. These will be used as references to check the performance of the offered model, if necessary.  ii) The bidder shall in written, provide the warranty / guarantee / service clauses for to the purchaser.  iii) The Bidder shall furnish the documentary evidence of being duly authorized by the good's manufacturer or producer to supply the goods in the Government of Nepal.



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3.2	Performance Security: Not Required
3.3	Delivery Time: within 15 working days.
3.4	Bid Validity Period: 30 days from the last submission date.
3.5	Number of copies: One
3.6	Deadline for bid submission:  Date: 31 Bhadra 2078 Time: 05:00PM (NST) <i>(If it falls on a holiday, the following working day shall be the last date for bid submission)</i>
3.7	Bid Opening. Date: 01 Ashwin 2078 Time: <i>(If it falls on a holiday, the following working day shall be the bid opening date)</i>
<b>4) Bid Evaluation</b>	
4.1.	Criteria for bid evaluation shall be on the base of:  e) Adherence to the specification and quality of goods. f) Price of the goods (and cost of other incidental services) g) Warranty, Guarantee h) Delivery Time Frames i) Annual Maintenance Charge after warranty period
<b>5) Contract Award</b>	
5.1	Percentage for quantity increase or decrease
5.2	Notification of Award (Purchase Order) shall be sent to the successful Bidder at any time prior to expiration of Bid Validity.



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## Section III: General Conditions of Contract

- 1. Definitions**
- 1.1 In this contract, the following terms shall be interpreted as indicated:
- a. "The Contract" means the agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein;
  - b. "The Contract Price" means the price payable to the Supplier under the contract for the full and proper performance of its contractual obligation;
  - c. "The Goods" means equipment, machinery, related Accessories, spare-parts and/or other materials which the Supplier is required to supply to the Purchaser under the contract;
  - d. "The Services" means services ancillary to the supply of the goods, such as installation, commissioning, the operational and maintenance training of the supplied equipment and other such obligations of the supplier covered under the Contract.
  - e. "The Purchaser" means Nepal Internet Foundation Ltd.
  - f. "The Supplier" means the individual or organisation supplying the goods and services under this contract.
  - g. "The Purchaser's Country" is Nepal.
  - h. "The Delivery Site" where applicable, means the place or places where supply of goods to deliver and performance of services to be complete.
  - i. "Day" means calendar day.
- 2. Patent Rights**
- 2.1 The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Purchaser's country.
- 3. Origin of goods**
- 3.1 "Origin" means the place where the goods are produced and supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 4. Inspections and Tests**
- 4.1 The Purchaser or its Representative shall, at no extra cost, have the right to inspect and/or to test the goods.
- 4.2 Should any inspected or tested Goods fail to conform to the Specifications, the Purchaser may reject the Goods, and the Supplier shall either replace the rejected Goods or make alternations necessary to meet specification requirements free of cost to the Purchaser.
- 4.3 The Purchaser's right to inspect, test and where necessary, reject the goods shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by the

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Purchaser or its Representative prior to the goods' shipment from the country of origin.

- 4. Insurance** 4.1 The goods supplied under the Contract shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. Such insurance shall be arranged and paid for by the supplier.
- 5. Guarantee** 5.1 The Supplier warrants that the Goods supplied under the Contract are new, unused and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the country
- 6. Delivery** 6.1 The Delivery Mode will be Onsite Kathmandu valley office Nepal Internet Foundation. Delay in delivery than period specified in Bid Document will attract penalty of 0.5% of invoice amount per week or invocation of Bid and performance Security as per purchaser's decision.
- 7. Payment** 7.1 The method and conditions of payment to be made to the Supplier will be 20% after award of contract and remaining with in three months.
- 8. Prices** 8.1 Prices charged by the Supplier for goods and services delivered and services performed under the Contract shall not increase from the prices quoted by the Supplier in its bid.
- 9. Contract Amendments** 9.0 No variation in or modification of the terms of the Contract shall be made, except by written amendment signed by the parties.
- 10. Liquidated Damages** 10.1 If the Supplier fails to deliver any or all of the goods or to perform within the time period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, start the process of claiming bank guarantee.
- 11. Termination for Default** 11.0 The Purchaser may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, terminate the Contract in whole or in part:
- a. if the Supplier fails to deliver any or all of the goods within the time period(s) specified in the Contract, or any extension thereof granted by the Purchaser pursuant to Clause 11; or
  - b. if the Supplier fails to perform any other obligation(s) under the Contract.
- 12. Resolution of Disputes** 12.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.



- 12.2 If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the Special Conditions of Contract. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed national or international forum, and/or national arbitration.
- 13. Applicable Law** 13.1 The Contract shall be interpreted in accordance with the laws of Nepal unless otherwise specified in Special Conditions of Contract.
- 14. Notices** 14.1 Any notice given by one party to the other pursuant to the Contract shall be sent to the other party in writing or by facsimile and confirmed in writing to the other party's address specified for that purpose in the Special Conditions of Contract.
- 14.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.
- 15. Taxes and Duties** 15.1 A Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the final destination.

## Section IV: Proposal Forms

The proposer shall submit partial or fully Proposal in seal envelope containing the following documents:

1. Duly filled, signed and sealed RFP documents,
  2. Qualification declaration including covering letter, signing authorization along with relevant documents
  3. Registered documents within the Government of Nepal
  4. Registered documents as per Income Tax Act of Nepal, and
  5. Registered documents in VAT office
  6. Must include copy of tax clearness document for at least 3 years register company,
  7. Authorized dealer or reseller or Supplier of the quoted products including its specification
  8. Dealership documents or Authorized dealer or reseller or Supplier letter from the proposed equipment on RFQ,
  9. Self-declaration letter as per company registration act.
  10. Financial proposal forms,
  11. Letter indicating delivery time.
- 1. Teleco/NSP/ISP**
- 1.1 Registered document as per Nepal Telecommunication Authority
  - 1.2 Recommendation letter from at least 1 Financial institute and 1 INGO/NGO
  - 1.3 Proposed document must indicate the GCC, NPIX, Nepal government sites and applicable fee bandwidth at least 1:5.
  - 1.3 Bandwidth provided must be symmetrical (1:1).
- 2. Computer Peripheral Suppliers**
- 2.1 Recommendation letter from at least 1 Financial institute and 1 INGO/NGO indicating supply of the equipment's.
  - 2.2 Recommendation letter from any organisation of the equipment provided
  - 2.3 AMC proposal after warranty period of the equipment



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- 3. **Network Peripheral Suppliers**
    - 3.1 Recommendation letter from at least 1 Financial institute of Nepal to suppliers on Core-firewall.
    - 3.2 AMC proposal after warranty period of the equipment
  - 4. **Power Peripheral Suppliers**
    - 4.1 Recommendation letter from at least 1 Financial institute and 1 INGO/NGO indicating supply of the equipment's.
    - 4.2 AMC proposal after warranty period of the equipment
    - 4.3 Level 2 certificates indicating solar installation works.

## Section V: Delivery/Supply Point and Installation and scope of work

The proposer must deliver equipment at the following places:

- 1. **Teleco/NSP/ISP**
  - 1.1 Installation, commission and handover Fiber drop with 3 public IP at Khalte, Uttarganya, Rasuwa
  - 1.2 Media Converter or ONU must be on Bridged Mode
- 2. **Computer Peripheral Suppliers**
  - 2.1 Kathmandu valley office Nepal Internet Foundation.
  - 2.2 Installation and commission at Khalte, Uttarganya, Rasuwa
- 3. **Network Peripheral Suppliers**
  - 3.1 Kathmandu valley office Nepal Internet Foundation.
  - 3.2 Installation and commission at Khalte, Uttarganya, Rasuwa
- 4. **Power Peripheral Suppliers**
  - 4.1 Installation, commission and handover at Khalte, Uttarganya, Rasuwa
  - 4.2 Transportation of the computer peripheral and Network peripheral at Khalte, Uttarganya, Rasuwa

## Section VI: Specifications of RFQ

SN	Description	Unit
<b>A</b>	<b>Internet Bandwidth 20/20Mbps symmetrical</b>	12 months
<b>B</b>	<b>Computer Peripheral</b>	
1	Desktop Computer	3
2	Laptop	2
3	Printer/Scanner 3 in 1	1
<b>C</b>	<b>Network Peripheral</b>	
1	Core Firewall with standard filter and protection (option)	1
2	Core Router with hotspot and user control	1
3	Core switch Gigabit- 24 port switch with VLAN support	1
4	5.8 GHz access point	4
5	2.4 GHz access point	4
6	Ethernet STP/FTP Cat6 cable	2 drum
7	Network rack 12U with fan	1
8	Patch cord 0.5m CAT 6	5
9	Patch cord 1m CAT 6	5

10	Ethernet face plate CAT6	4
11	Pole Mounting brackets for 5.8 GHz, 2.4 GHz	12
12	10 ft. 3-legged GI Pole or Tower	1
13	Steel Box Outdoor enclosure 1x1 ft with pole mounting brackets	4
<b>D</b>	<b>Power Peripheral</b>	
12	Inverter 2 KVA 24V hybrid	1
13	Solar panel 330wp on steel roof	1
15	Battery solar Exide 105AH @C10	2
16	Extension cord with surge protection at least 4 multi-ports	4
17	Aluminium structure for solar panel on steel roof	
18	32A MCB	4
19	63A DC MCB for battery	1
20	MCB 1A 220V	
21	0.2 10sqmm concentric AC 220V cable	300m
22	Separated Earthing protection for Computer & Network peripheral and inverters (As require)	2
23	Stabilizer	1
24	Power socket 32A	6
25	Power electricity wire equivalent to 7/22	20M

## Section VII: Specification of Goods and Equipment's

### Specification for Desktop Computer (i5)

S.N	Parameters	Specification	Vendor's Response
1	Brand	<b>DELL, HP, LENOVO, IBM, ACER</b>	
2	Made in	Must be specified	
3	Model	Must be specified	
4	Country of Origin		
5	Processor	<b>Intel Core i5-10400, 10th Gen Processor, 6 Core, 12MB Cache, 2.9GHz up to 4.3GHz</b>	
6	Cache	12 MB L3 or Better, 6 Cores	



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7	Memory	<b>8GB DDR4 UDIMM up to 32GB (1*8 GB)</b>	
8	Chipset	Intel H370 or B365 Express Chipset or (Higher)	
9	Hard Disk	<b>(128GB NVMe SSD or 128GB SATA SSD) 3.5" 1TB 5400 RPM SATA Hard Disk Drive.</b>	
10	Number of Total Expansion slot		
11	Number of PCI Express x1 Slots		
12	Number of PCI Express x16 Slots		
13	NIC Card	LAN: Gigabit Ethernet (10/100/1000)	
14	FROM FACTOR	Newly Designed Tower	
15	I/O Port - Front Ports	Front Ports: 4x USB 3.2 Gen1, Microphone (3.5mm), combo audio jack (3.5mm), optional 3-in-1 card reader	
16	I/O Port- Rear Ports	Rear Ports: 4x USB 2.0, serial 24-pin Port, Ethernet (RJ-45), VGA, Display Port, HDMI, lineout (3.5mm)	
17	Monitor	19" W LED monitor	
18	Keyboard/ Mouse	USB keyboard/ USB Optical mouse	
19	Power Supply	180 W single-rail 12 V PFC (EuP), auto Sensing, 80PLUS Bronze, ATX form Factor)	
20	Maximum Power Supply Wattage	180W or higher	
21	Web-cam		
22	Operating systems	Factory Pre-Installed Genuine Windows 10 Professional 64-bit, (must be verified from BIOS and OEM)	
23	Warranty		1 Years



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24	Tentative required quantity	3 units
25	Per unit price inclusive of VAT	
26	Total amount inclusive of VAT in number	
27	Total amount inclusive of VAT in words	

<b>Specifications for Laptop (i5)</b>			
<b>S. N.</b>	<b>Parameters</b>	<b>Specification</b>	<b>Vendor's Response</b>
1	Brand	DELL, HP, LENOVO, IBM, ACER	
2	Made in	Must be specified	
3	Model	Must be specified	
4	Processor	<b>11th Generation Intel® Core™ i5-1135G7 Processor (12MB Cache, up to 4.10 GHz) or higher</b>	
5	Motherboard	Intel <sup>(R)</sup> Express Chipset	
6	Memory	<b>8GB (1x8GB) DDR4 Memory, up to 2 slots supporting up to 16GB</b>	
7	Disk Drives	<b>Dual drive config with 1TB 5400 rpm Hard Drive + 128 SSD</b>	
8	Graphics	Integrated Intel HD Graphics	
9	Network Connectivity	GIGA NIC (10/100/1000), WIFI (802.11 b/g/n) wireless LAN, Bluetooth4.0 or Higher	



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10	Display	14.0" HD (1366 x 768) LED Backlit TFT LCD, Mercury free Environment friendly	
11	Webcam	Video Conference HD Webcam with 1280 x 720 Resolution 720P HD Audio/Video Recording	
12	Ports	1 X HDMI, 2 X USB 3.0, 1 X USB 2.0 , 1X VGA, 1 X RJ 45 Pot ( 10/100/1000 ) , 1 X Card reader	
13	Security	BIOS User, Supervisor, HDD Password, Kingston Lock.	
14	Battery	3cell Battery	
15	Keyboard	Backlight Keyboard	
16	Accessories	Original Carrying Case, Power Adopter	
17	Software	Genuine MS Windows 10 Professional License 64bit (Factory Installed)	
18	Weight	2.1 KG with 3CELL Battery	
19	Warranty		3 Year Parts warranty and service
20	Tentative required quantity		2 units
21	Per unit rate with VAT		
22	Total amount inclusive of VAT in number		
23	Total amount inclusive of VAT in words		

### Specification for printer (3 in 1)

SN	Parameters	Specifications	Vendors Responds
1	(3 in 1) Printer	Canon MF 3010	

### Core Firewall-1



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SN	ITEM	DESCRIPTION	Vendor Responds
1	Brand	Sophos	
2	Model	XG106 with 1-year standard protection	
3	Firewall throughput	3550 Mbps	
4	IPS throughput NGFW throughput	490 Mbps	
5	NGFW throughput	400 Mbps	
6	New connection/sec	14700	
7	Concurrent connection	1570000	
8	IPsec VPN throughput	330 Mbps	
9	Storage	Integrated SSD	
10	Ports	4 X 1 GBE copper port, 2 X USB 2.0 X 1 X Micro USB, 1 x COM, 1 X HDMI, 1 X GBE SFP port	
11	Form Factor	Desktop	

#### Core ROUTER-1

SN	ITEM	DESCRIPTION	Vendor Responds
1	Brand	Mikrotik	
2	Product code	CCR 1009-74-1C-1S+	
3	Architecture	TLR4-00980	
4	CPU	TILE	
5	CPU core count	9	
6	CPU nominal frequency	1.2 GHz	
7	10/100/1000 Ethernet port	7	
8	Ethernet combo ports	1	
9	Router OS license	6	
10	CPU temperature monitor	Yes	
11	Current monitor	Yes	
12	Size of RAM	2GB	
13	Storage size	128 MB	
14	Storage type	NAND	
15	POE in	Passive POE	
16	POE in input voltage	15-57V	
17	IPsec hardware acceleration	Yes	
18	Number of AC inputs	2	
19	AC input range	100-240	
20	Max power consumption	39W	
21	Max power consumption without attachment	34W	
22	Number of DC inputs	1 (POE-1 N)	
23	MTBF	Approximately 200'000 hours at 25c	
24	Fan count	2	
25	Tested ambient temperature	-20c to 60c	

#### Core Switch-1

SN	ITEM	DESCRIPTION	Vendor respond
1	Brand	CISCO	
2	Product code	SF 350-24	
3	Device type	Switch-24 ports L-3-managed	



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4	Ports	24x10/100/1000+2x combo Gigabit SFP	
5	Performance	Switching capacity: 12.8Gbps Forwarding Performance (64- byte packet size) 9.52 Mpps	
6	Capacity	Active VLANs: 4096	
7	MAC address table size	16k entries	
8	Jumbo frame support	9216 bytes	
9	Encryption Algorithm	SSL	
10	Authentication method	Secure shell (SSH) RADIUS, TACACS+	
11	Features	Layer 3 switching, layer 2 switching, DHCP support, VLAN support, IGMP snooping, syslog support, DOS attack, Prevention port mirroring, DiffServ support, Weighted round, Robin (WRR) queuing, Broad cast, storm control, IVP6 support, Multicast storm control, Unicast storm control, Firmware upgradable spanning tree protocol (STP) support, Rapid spanning tree protocol (RSTP) support, Tribal file transfer protocol (TFTP) support, Quality of service( QOS), Jumbo frames support, MLD snooping, 12MB packet buffer, 2 fans.	

#### 5.8 GHz Access-4

SN	ITEM	DESCRIPTION	Vendor Respond
1	Brand	Ubiquity	
2	Product code	NSM5	
3	Processor Specs	Atheros AR2313 SOC, MIPS 4KC, 180MHz	
4	Memory Information	16MB SDRAM, 4MB Flash	
5	Networking Interface	1x10x100 BASE-TX(Cat. 5, RJ-45)	
6	TX Power	24dB, +/-2dB	
7	RX	-94dBm +/-2dB	
8	Antenna	14dBi Dual pol	
9	Distance up to	10Km	
10	TCP/IP Throughput	25Mbps	
11	Power Supply Max POWER Consumption	12V, 1A (12 Watts) POE Supply and injector	

#### 2.4 GHz Access-4

SN	ITEM	DESCRIPTION	Vendor Respond
1	Brand	Ubiquiti	
2	Product code	NSM2	
3	Processor Specs	Atheros AR2313 SOC, MIPS 4KC, 180MHz	
4	Memory Information	16MB SDRAM, 4MB Flash	



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5	Networking Interface	1x10x100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface	
6	TX Power	24dB, +/-2dB	
7	RX	-94dBm +/-2dB	
8	Antenna	14dBi Dual pol	
9	Distance up to	10km	
10	TCP/IP Throughput	25Mbps	
11	Power Supply Max POWER Consumption	12V, 1A(12 Watts) POE Supply and injector	

**Ethernet CAT6 STP/FTP-2 Drum**

SN	ITEM	DESCRIPTION	Vendor Respond
1	BRAND		
2	Product code		
3	Cable	CAT6, STP/FTP, 4 Pairs	
4	Ethernet Support	Up to 1 Gbps	
5	Conductor	Solid Bare Copper	
6	Insulation Type	Solid PE	
7	Conductor Diameter	0.5+/-0.0005mm	
8	ESD Drain Wire	0.4 TC	
9	Cable Shield	Aluminum Foil Thick: 0.06mm, Extent: 20mm	
10	Jacket Outer Diameter	6.8+/-0.3mm	
11	Jacket Material	PE	

**Section VIII: BOQ**

SN	Description	Unit	Unit Price	Total
<b>A</b>	<b>Internet Bandwidth 20/20Mbps symmetrical with installation</b>	12 months		
<b>B</b>	<b>Computer Peripheral</b>			
1	Desktop Computer	3		
2	Laptop	2		
3	Printer/Scanner	1		
4	Installation and Commission	LS		
<b>C</b>	<b>Network Peripheral</b>			
1	Core Firewall with standard filter and protection	1		
2	Core Router with hotspot and user control	1		
3	Core switch Gigabit- 24 port switch with VLAN support	1		
4	5.8 GHz access point	4		
5	2.4 GHz access point	4		
6	Ethernet STP/FTP Cat6 cable	2 drum		
7	RJ45	1000		
8	RJ45 Clamper	2		
9	Network rack 12U with fan	1		
10	Patch cord 0.5m CAT 6	5		
11	Patch cord 1m CAT 6	5		



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12	Ethernet face plate CAT6	4		
13	Pole Mounting brackets for 5.8 GHz, 2.4 GHz	12		
14	10 ft. 3-legged GI Pole or Tower	1		
15	Steel Box Outdoor enclosure 1x1 ft with pole mounting brackets	4		
16	Installation and commission	LS		
<b>D</b>	<b>Power Peripheral</b>			
1	Inverter 2 KVA 24V hybrid	1		
2	Solar panel 330wp on steel roof	1		
3	Battery solar Exide 105AH @C10	2		
4	Extension cord with surge protection at least 4 multi-ports	4		
5	Aluminium structure for solar panel on steel roof			
6	32A MCB	4		
7	63A DC MCB for battery	1		
8	MCB 1A 220V			
9	0.2 10sqmm concentric AC 220V cable	300m		
10	Separated Earthling protection for Computer & Network peripheral and inverters	2		
11	Stabilizer 300VA	1		
12	Power socket 32A	6		
13	Power electricity wire equivalent to 7/22	20m		
14	Installation and Commission	LS		
<b>E</b>	<b>Transportation of Computer Peripheral</b>	LS		
<b>F</b>	<b>Transportation of Network Peripheral</b>	LS		
<b>G</b>	<b>Transportation of Power Peripheral</b>	LS		
			Taxable Total	
			Non-Taxable Total	
			Tax	
			Total	

## Section IX: AMC – 12 months

SN	Description	Unit	Unit Price	Total
1	Computer Peripheral	LS		
2	Network Peripheral	LS		
3	Power Peripheral	LS		
			Taxable Total	
			Tax	
			Total	



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