OFFICE OF THE PRINCIPAL
KANWAR DURGA CHAND GOVT. ITI BALAKRUPI
DISTT. KANGRA (HP) PINCODE 176082
EMAIL: principalititalwar@gmail.com Phone/Fax No. 01894-293400

Skill India
कौशल भारत-कुशल भारत

No. ITI/Balakrupi/G(1)-1/2023- 529 Dated: 26/08/2023

Quotation/Tender for the Local Area Networking (LAN) (Supply, Installation and Commissioning) at Kanwar Durga Chand Govt ITI Balakrupi, Distt. Kangra (H.P.).

Sir,

Sealed Quotations are hereby invited for award of contract pertaining to creation of Local Area Networking facility (LAN) at Kanwar Durga Chand Govt. ITI Balakrupi, Distt. Kangra Himachal Pradesh. The scope of work includes supply, installation, integration, testing and commissioning of Active and Passive network equipment's for Local Area Networking as per the Technical Specification and bill of quantity (BoQ).

Scope of Work: ***Local Area Networking at KDC Govt. ITI Balakrupi, Tehsil Jaisinghpur Distt. Kangra Himachal Pradesh (Supply, Installation & Commissioning).***

Estimated Cost: Rs. 1,60,450.00/-

Earnest Money: Rs 4,000.00/-

Period of Completion: 60 (Sixty Days).

Cost of tender (non-refundable): Rs.300/- (Rupees Three hundred only)

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Last date of receipt of tender: 20th September 2023 up to 1.00 p.m.

Sealed limited tenders on the *"Prescribed Tender Form"* for **Local Area Networking (LAN)** on or before **20/09/2023**. Tenders received after last date i.e. 20/09/2023 after 01:00 PM will not be entertained. The envelope containing tenders must be addressed to undersigned and must have marked as **"Local Area Networking (LAN)"** and **"Not to be opened before 20/09/2023, 03:30PM"**.

Tenders will be opened on **20/09/2023** at **03:30PM** in the office of the Principal, KDC Govt. ITI Balakrupi in the presence of bidders or their authorized representatives who may want to present. In case of holiday on that day bids will be opened on the next working day at same time schedule.

Term &Conditions:

1. **Eligibility for Bidders to Qualify Technically:**
   A) Copy of GSTIN of Bidder.
   B) Copy of PAN of Bidder.
   C) Acceptance of Technical Specifications Annexure B.
   D) Non-Refundable Tender Document Cost in the Shape of Demand Draft of **Rs. 300/- (Rupees Three Hundred only)** in favor of **Principal, KDC Govt. ITI Balakrupi Distt Kangra H.P** payable at Balakrupi.
   E) Earnest Money in the form of DD/FDR pledged in the name of Principal, KDC Govt ITI Balakrupi as prescribed in the Tender Document. All the registered Local Micro & small-Scale enterprises or Industrial units registered with Store purchase organization or DGS&D or NSIC are exempted from EMD on submission of valid certificate.
   F) Undertaking regarding acceptance of all the terms and conditions.
2. **Preparation of Bids and Submission:**
   A. The tender should be submitted along with the Copy of GSTIN, Copy of PAN, Tender Document Cost, Earnest money, Undertaking, Acceptance of Technical specifications (Annexure B) and **Financial Bid** BOQ (in form given in Annexure E)
   B. Separate envelope should be used for Technical Bid as well as for financial Bid. The word "TECHNICAL BID/ FINANCIAL BID with due date of opening shall be prominently marked on the top of envelope and both these sealed envelopes

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(Technical Bid and financial bid) should further be put in a bigger envelope duly sealed and super scribed properly. Tender envelop(s) must be sealed and super scribed **"TENDER FOR Local Area Networking (LAN)"** with due date of opening which shall be addressed to **The Principal, KDC Govt. ITI Balakrupi Distt Kangra H.P -176082.**

C. The rates in the Financial Bid should be quoted ***both in words and figures***. Prices shall be quoted in the currency **Indian National Rupees** only.

D. The rates quoted should be **F.O.R. KDC Govt. ITI Balakrupi Distt Kangra H.P -176082** means in the concerned area/ Lab/ Workshop / Store of the Institution including supply, installation, integration, testing and commissioning of Active and Passive network equipments for Local Area Networking and training whenever required.

E. All documents submitted must be dully signed by the bidder.

F. All the parties are also requested to offer their rates for items required as per the enclosed list and additional items that are not in the enclosed list but are required for LAN networking.

G. The bidder shall submit only one option which is best suitable to meet KDC Govt. ITI Balakrupi requirements. The bids submitted with more option shall be liable to be rejected.

H. The rate quoted by the bidder shall be firm thorough out the contract period and there shall be no upward revision of the rates quoted by the bidder for any reason what so ever.

3. Evaluation of Tender:

A) The Technical Bids will be opened first on **20/09/2023 at 03:30PM** in the presence of bidders or their authorized representatives who may want to present. The financial Bid will be opened only after scrutiny of technical bid and technical evaluation of Tender. In case the office is closed on this date due to any of the reasons or it is not possible for us to open the quotations on this date because of any of the reasons, the quotations will be opened at 11:00 AM on the next working day

B) Decision of Tender Opening Committee will be final and binding upon the bidders.

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Industrial Training Institute

OFFICE OF THE PRINCIPAL
KANWAR DURGA CHAND GOVT. ITI BALAKRUPI
DISTT. KANGRA (HP) PINCODE 176082
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C) Offers determined to be substantially responsive to the technical specifications will be evaluated by comparison of their prices. An offer is not substantially responsive if it contains material deviations or reservations to the terms, conditions, and Specifications in this tender, and it will not be considered further. The 'Purchaser will evaluate and compare only the quotations determined to be substantially responsive. In Evaluating the quotations, the 'Purchaser will adjust for any arithmetical errors as follows:

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

(b) Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern and

(c) If a Supplier refuses to accept the correction, his quotation will be rejected

In addition to the quoted price, the evaluated price shall include GST in India

4. Award of Purchase Order:

A. The award will be made to the bidder offering the lowest evaluated price and that meets the required standards of technical and financial capabilities.

B. VALIDITY OF THE OFFER: Your quotation(s) should be valid for a period of One Eighty (180) Days from the deadline for receipt of quotation(s).

C. The successful bidder will be notified by the Institution. The successful bidder shall submit the **performance security @ 5%** of the contract amount (including taxes as applicable). The amount will be deducted from the final payment of Bidder as per invoice in case it is not submitted by the successful bidder. The performance security must be valid for 6 Months + 60 days.

D. If you withdraw your quotation during the validity period and/or refuse to accept the award of a contract when and if awarded, then earnest money will be forfeited and the contract will be awarded to the next firm offering the lowest evaluated total cost of all the items (excluding your firm).

5. Time for Execution of Work:

The work has to be completed within 60 Days from the issue of the Supply order.

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6. **Penalty Clause:**

A penalty of 1% on billed amount will be imposed for late delivery or completion of work per week maximum up to 5%. In case of late delivery or work completion for more than 5 weeks the work may be awarded to second lowest bidder and the extra amount paid to second bidder/new supplier will be deducted from first bidder/old supplier.

7. **Delivery:**

The rates quoted should be F.O.R. at KDC Govt. ITI Balakrupi.

8. **Specifications:**

Supply should be strictly in accordance with specifications mentioned in tender/supply order, any defective or substandard material will be rejected in whole and supplier has to take back the rejected material at his own cost.

9. **Quantity:**

The Qty. Shown may be varied as per actual requirement of the institution. Final payment will be made as per actual measurement of work executed.

10. **Warranty and support**

The bidder must ensure that all the devices as per the BoQ should have comprehensive onsite warranty for a period of 3 years from the date of commissioning of the network under the contract. Bidder should ensure service and spare support for at least 3 years, after the specified warranty period.

11. **Payment:**

A. The contractor shall submit his final bills with detail measurement for the purpose of payment & bills shall be processed by the various officials for payment, as per existing procedure.

B. The contractor shall extend all possible co-operations for checking the measurement. Decision of the staff in charge of KDC Govt. ITI Balakrupi shall prevail. In case of any dispute, the final decision lies with the Principal, KDC Govt. ITI Balakrupi, which shall be binding on both the parties.

C. GST and other taxes should be indicated separately otherwise rates will be deemed to be inclusive of such levies and no other increase in duty/taxes will be allowed

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D. 100% Payment of the contract price shall be made upon after the receipt of the goods and proper installation/demonstration of the goods /equipment/Machinery in our campus and after the inspection/installation report from the quarter concern.

E. This quotation will be valid for Twelve Month from the issue date

12. Jurisdiction/Signing of Tender/Agreement:

Conditional tenders or tenders will not be entertained in any respect. The undersigned reserves the right to reject any or all of the tenders without assigning any reason. No separate agreement will be made, this tender document will be treated as agreement between both supplier and buyer. In any dispute all the decisions made by undersigned will be full and final and would be binding upon the supplier/bidder. All disputes are subjected to Kangra H.P. jurisdiction only. All documents enclosed must be self-attested by the bidder.

13. Additional Terms and Conditions:

a. All necessary raw materials required for the work will be supplied by the agency

b. Adequate safety precautions have to be taken by the agency while working. At the event of any accident happen during executing the work, KDC ITI Balakrupi will not be responsible.

c. No tools/equipments or machinery will be provided by the Institution and will not be responsible in case of any damage to tools etc.

d. The material supplied if not effective shall have to be changed by the Firm/supplier at his own cost, the undersigned reserve the right of rejection any one or correction without assigning any reason.

e. The bidders should visit the site with prior appointment and carry out necessary inspection and test/measurement as are necessary before submitting its bids. All cost associated with such site visit and in preparation and submission of the Bid will have to be borne by the bidder. KDC Govt ITI Balakrupi will in no case be responsible for such costs, regardless of the conduct or outcome of the tender process.

f. Proper marking of cable, Safety Sign board/Route marker to be installed for cable laid underground and other miscellaneous work.

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g. Any structure, permanent or temporary, dismantled or destroyed during the execution of the work shall, will be refill/remake or restore to its previous condition by the network vendor at its own cost.

h. Any extra electrical points and data points required in the server rooms shall have to be provided by the network vendor at his own cost

i. No disputes regarding the form, nature or quality of infrastructure and site shall be entertained after submission of the quotation by the Bidder.

j. The right of contractor to proceed with work shall not be terminated because of delay in the completion of the work due to unforeseeable causes beyond the control and without the fault or negligence of the contractor, including but not limited to acts of god, or of the public enemy, restraints of a sovereign state, floods, unusual severe weather conditions.

k. If, the contractor has to remove/dismantle any old, damaged wiring & fixtures etc. for the purpose of execution of the said work, the same shall be deposited with store of KDC Govt. ITI Balakrupi along with the list of materials under intimate to the concerned staff in Charge. No extra payment will be made by the institute for this purpose.

l. Canvassing in any manner or form will lead to rejection of the Bid.

m. The undersigned reserve the right to reject anyone or correct without assigning any reasons.

Principal,
KDC Govt. ITI Balakrupi,
Distt. Kangra(H.P.).

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SCOPE OF WORK

Sr. No.	Description of Work	Qty
01	Supply and Installation of Local Area Networking at KDC Govt. ITI Balakrupi, Tehsil Jaisinghpur Distt. Kangra Himachal Pradesh.	01

Estimated Nodes for KDC Govt. ITI Building

The LAN implementation with a requirement of 70+ Nodes is spread over the following locations in the building of this institute.

Sr. No.	Building	Floor	Nodes	Racks	Switches		
				9U	8 Port	24 Port	48 Port
1	KDC Govt ITI Balakrupi	Basement	1				
2		Ground	0				
3		First	12	1		1	
4		Second	51	2	1	1	1
5		Third	3				
Total			67	3	1	2	1

The Floor wise plan with description of Nodes & Racks is attached as Annexure-C.

The Civil Drawings of the building is provided on the website of this institute under download section.

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Technical Specification of Components

Sr. No.	Name of Item	Specification	Compliance (Y/N)
1.	RJ 45 Modular Plug	1. Shall Support 4 twisted pairs, 8 positions, 8 connectors. 2. Housing: PC, UL94V-2, transparent color. 3. Contact Terminal: Copper Alloy and finished with gold plating. 4. Operating Temperature: -40°C to 80°C. 5. Use for 24-26 AWG standard wires, meet wiring scheme T568A/T568B.	
2.	Cat 6 cable	1. Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2: (UL/NABL certificate should be submitted) 23 AWG solid bare copper conductor. 2. Polyethylene insulation/LSZH, CMR rated jacket as per UL 1666 or IEC 60332-3. 3. Cross- member fluted member pair separator, ETL or 3P or NABL test report for TIA/EIA-568C.2 (Test report should be submitted). 4. -20 Deg. C to +60 Deg. C Operating temperature, Frequency tested up to Minimum 250 MHz 5. 45ns MAX. Delay Skew, 100 Ohms + /- 15 ohms for 1 to 250 MHz 6. Impedance, Pair- to- pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR Performance characteristics to be provided. 7. Attenuation (dB/100m) - 32.8MAX. at 250MHz, 43.2MAX. at 400MHz, 54.8MAX. at 250 MHz.	
3.	8 Port Switch	8 Gigabit ports, at least 16 Gbps Switching Capacity, 1000BASE-T Interface: 8, Auto MDI/MDIX, Switch Intelligence: Unmanaged, Desktop or Rack Mountable Design, Non-blocking Architecture, Power Input: 100 to 240V AC input; Power Consumption: Standby: less than 1 watts & Maximum: 5 watts; Surge/ Lightning Protection (all ethernet ports), Operating Temperature: 32 to 104°F (0 to 40°C) IEEE 802.3x Energy Efficient Ethernet, RoHS compliance.	
4.	24 Port Switch	24 Gigabit ports, at least 48 Gbps Switching Capacity, 1000BASE-T Interface: 24, Auto MDI/MDIX, Switch Intelligence: Unmanaged, Desktop or Rack Mountable Design, Non-blocking Architecture, Power Input: 100 to 240V AC input; Power Consumption: Standby: less than 8 watts & Maximum: 15 watts; Surge/ Lightning Protection	

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		(all ethernet ports), Operating Temperature: 32 to 104^{0}F (0 to 40^{0}C) IEEE 802.3x Energy Efficient Ethernet, RoHS compliance.	
5.	48 Port Switch	48 Gigabit ports, at least 104 Gbps Switching Capacity, 1000BASE-T Interface: 48, Auto MDI/MDIX, Switch Intelligence: Unmanaged, Desktop or Rack Mountable Design, Non-blocking Architecture, Power Input: 100 to 240V AC input, Power Consumption: Standby: less than 15 watts & Maximum: 35 watts; Surge/ Lightning Protection (all ethernet ports), Operating Temperature: 32 to 104^{0}F (0 to 40^{0}C) IEEE 802.3x Energy Efficient Ethernet, RoHS compliance.	
6.	24 Port PATCH PANEL	Preloaded 24 ports Patch Panel, 1U height, Gold plated plug contact areas, 24 RJ45 ports numbered, labeled and color-coded for easy cable identification Supports EIA/TIA T568A/B wiring standards for IDC terminations Rated for 5 Gbps speeds for managing Cat6 cable in high density Ethernet applications , Support Bar: SPCC 1.5 mm thick painted, Cable manager: 19" rack mountable, Metallic high strength with metal jumper rings for routing cable assemblies.	
7.	48 Port PATCH PANEL	Preloaded 48 ports Patch Panel, 2U height, Gold plated plug contact areas, 48 RJ45 ports numbered, labeled and color-coded for easy cable identification Supports EIA/TIA T568A/B wiring standards for IDC terminations Rated for 5 Gbps speeds for managing Cat6 cable in high density Ethernet applications , Support Bar: SPCC 1.5 mm thick painted, Cable manager: 19" rack mountable, Metallic high strength with metal jumper rings for routing cable assemblies.	
8.	IO Box	1. Should meet for exceed the TIA/EIA-568-C.2 Component Compliant (1Gigabit) standard. 2. Surface mount box with single RJ45 socket to terminate UTP CAT 6 Cable. 3. Accessories Strain relief and bend-limiting boot for cable, Approval UL or ETL or 3P. 4. Housing Polyphenylene oxide, 94V-0 rated Wiring blocks Polycarbonate, 94V-0 rated. 5. Jack contacts: Beryllium copper with thick gold and minimum thick nickel under plate, Performance Characteristics Attenuation, NEXT, PS NEXT, FEXT and Return Loss, IDC Contact: Phosphor bronze 50micron" gold plated contact surface.	

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		6. Provision for protection against dust. 7. ROHS Compliant, 3rd party from bodies like ETL/NABL verified (ETL/NABL report should be submitted). 8. Single Gang square plate, 86 mmX 86mm or higher. 9. port with shutter, High Impact Plastic Body ABS material. 10. Write on labels– supplied with plate. 11. Provisions for labeling icons and strips.	
9.	Patch Cord	2 mtr	
10.	9U Rack	Wall Mount 9U x 600 W x 600 D, Front Glass Door (tinted, Toughened) with Lock & Key, 2 pairs of 19" Mounting Rails with U-Marking Welded Side Walls with Metal Engraved Logo, Finish: Powder Coated Standard Accessories: 1U Cable Manager (2 pcs), Hardware Packet (2 Pkts) 6 Socket 5/15Amp. Power Distribution Unit (1 No) Roof Mounted Fan Unit / 90 CFM /230V AC (1 No) Confirms to DIN 41494 or equivalent standard.	
11.	Cable Numbering Ferrule	Self-locking Ferrules 0-9 For Cable Dis 0.5 to 4 sq. mm	
12.	Cable Tie (100 Pieces)	Self-Locking Nylon Cable Zip Tie Nylon Cable Wraptor Cable Tie	
13.	PVC round Pipe 25 mm ISI marked	1.Size: 25 mm 2.Should be ISI mark 3.Type: Heavy Duty (HMS) 4. Recommended Makes: Diplast, Finolex, Avonplast or equivalent	
14.	PVC Square casing-capping ISI marked	1.Size: 45-50 mm 2.Should be ISI mark 3.Type: Heavy Duty (HMS) 4. Recommended Makes: Diplast, Finolex, Avonplast or equivalent	
15.	PVC Square casing-capping ISI marked	1.Size : 12-15 mm 2.Should be ISI mark 3.Type: Heavy Duty (HMS) 4.Recommended Makes: Diplast, Finolex, Avonplast or equivalent	

Any other information may be enclosed as annexure.

Date:
Place:

Signature of Bidder with Seal & Address

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"Annexure-C"

Estimated Nodes for KDC Govt. ITI Building (Floor wise Layout attached)

The LAN implementation with a requirement of 70+ Nodes is spread over the following locations in the building of this institute.

Sr. No.	Building	Floor	Nodes	Racks	Switches		
				9U	8 Port	24 Port	48 Port
1	KDC Govt ITI Balakrupi	Basement	1				
2		Ground	0				
3		First	12	1		1	
4		Second	51	2	1	1	1
5		Third	3				
Total			67	3	1	2	1

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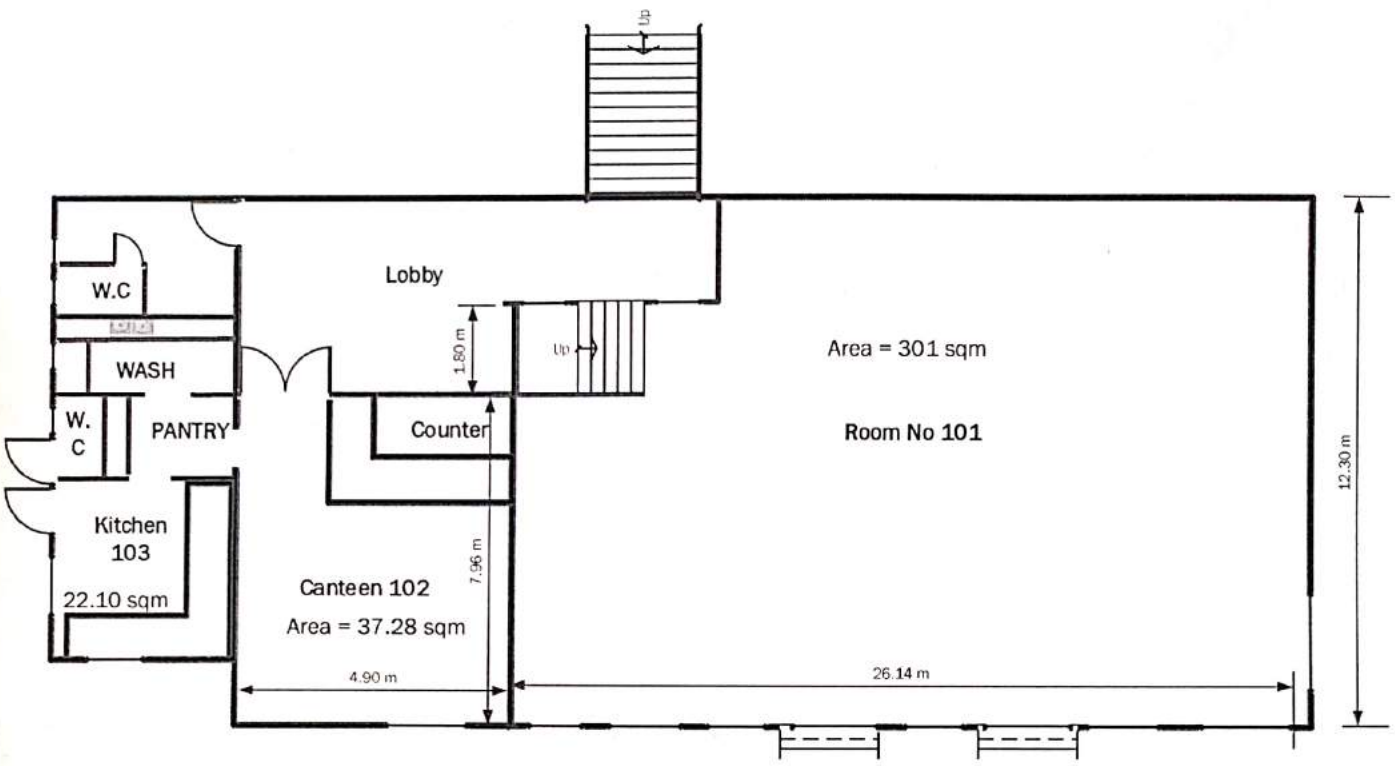

BASEMENT PLAN

Details of Nodes (I/O Boxes)		
SR. NO.	ROOM NO.	NO. OF NODES
01	101	00
02	102	01
03	103	00

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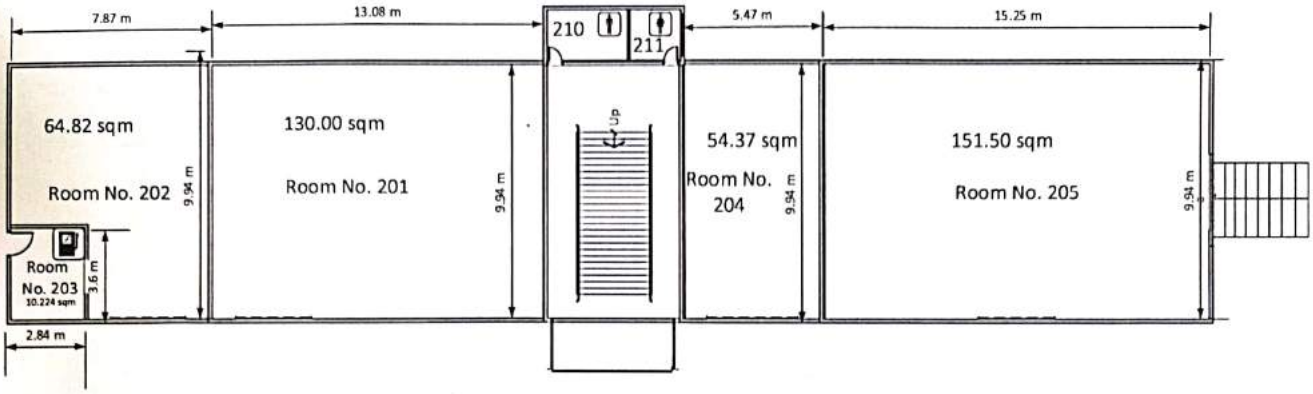

Details of Nodes (I/O Boxes)		
SR. NO.	ROOM NO.	NO. OF NODES
01	201	00
02	202	00
03	203	00
04	204	00
05	205	00

Ground Floor

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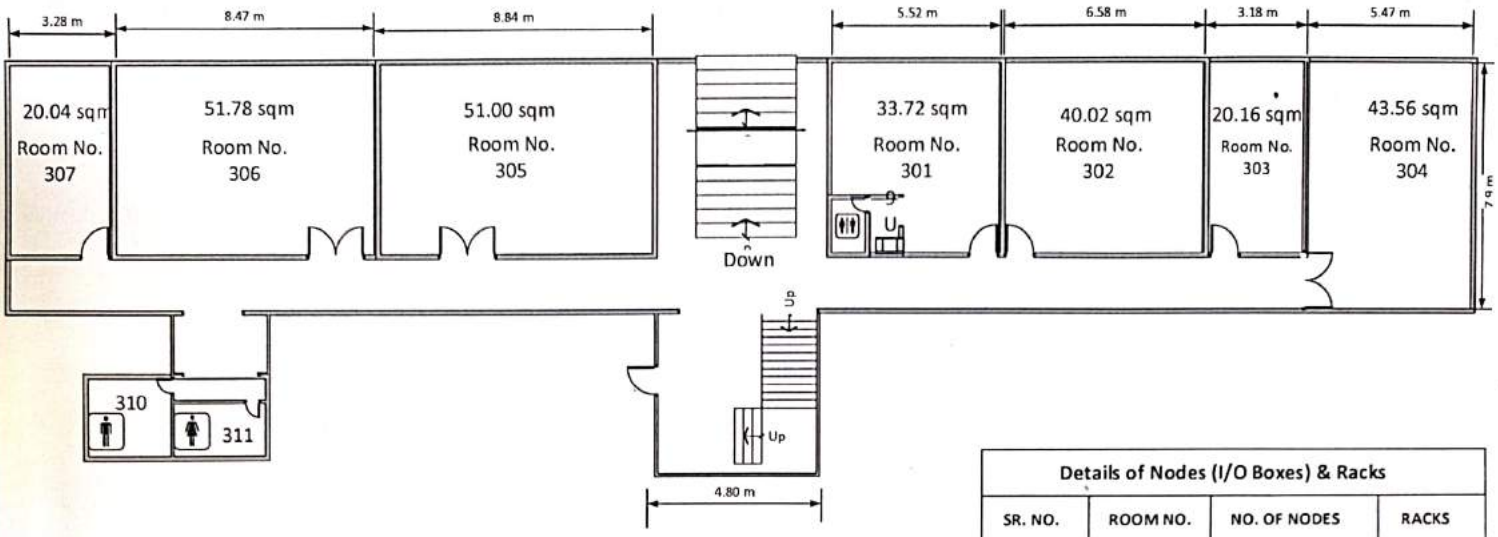

First Floor

Details of Nodes (I/O Boxes) & Racks			
SR. NO.	ROOM NO.	NO. OF NODES	RACKS
01	301	02	01 9U
02	302	03	00
03	303	00	00
04	304	02	00
05	305	03	00
06	306	01	00
07	307	01	00

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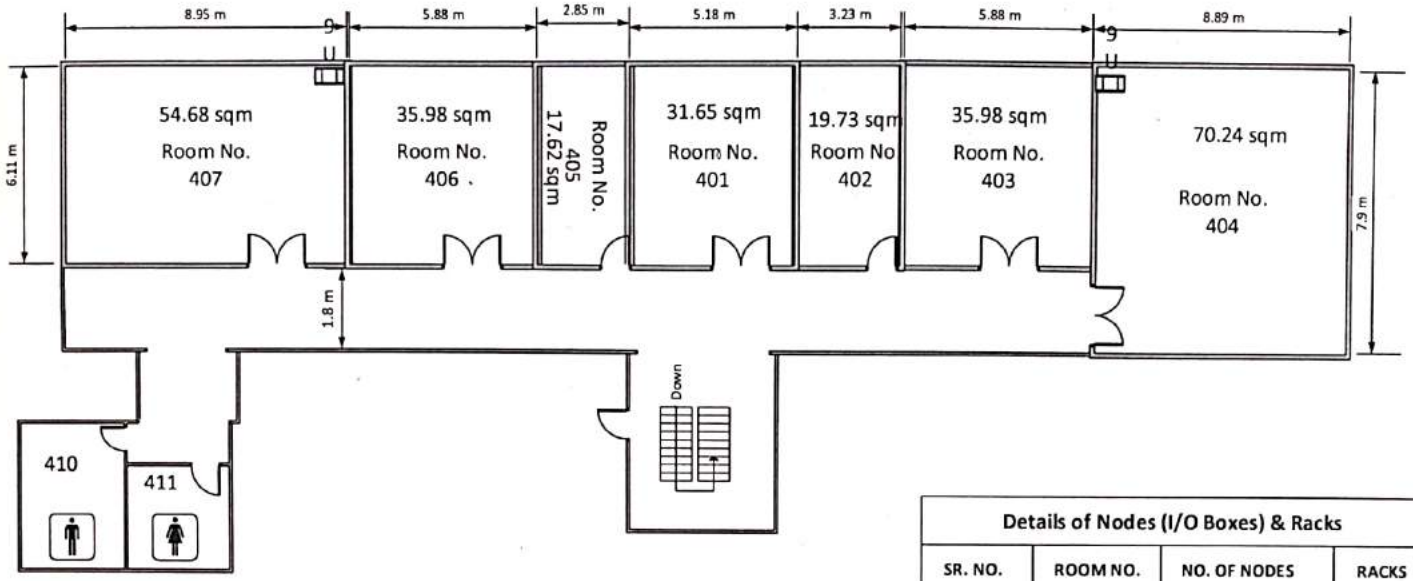

Second Floor

Details of Nodes (I/O Boxes) & Racks			
SR. NO.	ROOM NO.	NO. OF NODES	RACKS
01	401	01	00
02	402	00	00
03	403	01	00
04	404	26	01 9 U RACK
05	405	00	00
06	406	01	01
07	407	22	01 9 U RACK

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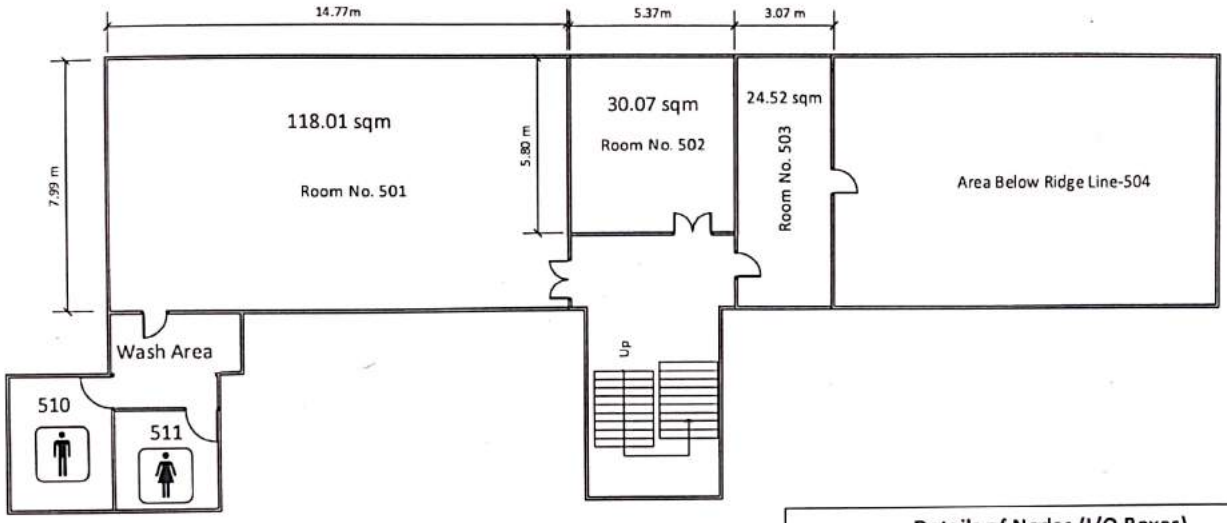

Details of Nodes (I/O Boxes)		
SR. NO.	ROOM NO.	NO. OF NODES
01	501	02
02	502	01

Third Floor

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"Annexure E" (Financial Bid)

No.

To

The Principal
KDC Govt. ITI Balakrupi
Distt. Kangra H.P-176062

Sub: Supply and Installation of Local Area Networking at KDC Govt. ITI Balakrupi, Tehsil Jaisinghpur Distt. Kangra Himachal Pradesh.

BOQ:

Sr. No.	Name of Item	Unit	Qty. (Approx.)	Unit Price	Total Price	
					In Figures	In Words
01	RJ 45 MODULAR PLUG	Nos	340			
02	CAT6 UTP CABLE	Meter	695			
03	8 PORT SWITCH	Nos	01			

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04	24 PORT SWITCH	Nos	02			
05	48 PORT SWITCH	No	01			
06	24 PORT PATCH PANEL	No	03			
07	48 PORT PATCH PANEL	No	01			
08	CAT6 SINGLE FACE PLATE I/O WITH SURFACE MOUNT BOX	No	70			
09	PATCH CORD	No	70			
10	9U RACK	No	3			
11	CABLE NUMBERING FERRULE	No	100			
12	CABLE TIE (100 PIECES)	No	100			
13	PVC ROUND PIPE 25 MM ISI MARKED	Meter	30			
14	PVC SQUARE CASING-CAPPING ISI MARKED	Meter	35			
15	PVC SQUARE CASING-CAPPING ISI MARKED	Meter	25			

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16	LAN NETWORKING CHARGES IN ALL RESPECT (i.e. installation, configuration and integration service charges all fitting, crimping with all consumable)	Nodes	70			
					Total	
					GST & Other Charges	
	Total Amount including GST & other charge (FOR) at KDC Govt ITI Balakrupi					
	Amount in Words:					

Date:

Place:

Signature of Bidder

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