Ambedkar College

Education (Higher) Department
Govt. of Tripura

A Govt. Degree College Affiliated to Tripura University
(**UGC 2f &12B recognized and NAAC Accredited**)
Fatikroy, Unakoti, Tripura – 799290

E-Tender Document for Setting up of **"LAN & Wi-fi connectivity and IP based CCTV "**at the campus of Ambedkar College, Fatikroy, Unakoti Tripura.

Dr. Subrata Sharma
Principal In-Charge
Ambedkar College,
Fatikroy, Unakoti Tripura.
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LIST OF IMPORTANT DATES IN CONNECTION WITH THE BID FOR THE WORK

1.	**Completion period of the work**	Within 30(thirty) days from the date of issue of supply order
2.	**Date of publishing of Tender :**	Date: 07/03/2020 Time: 5:00 PM
3.	**Document Download :**	Date: 07/03/2209 Time: 5:10 PM
4.	**Pre Bid Meeting**	Date: 13/03/2020 Time: 11:30AM Venue: Ambedkar College, Fatikroy, unakoti Tripura.
5.	**Last Date of issuing corrigendum**	Date:-25.03.2020, 5.00 PM
6.	**BID Submission start date :**	14/03/2020 Time: 10:00 AM
7.	**BID Submission end date :**	Date: 31/03/2020 Time: 5:30PM
8.	**Time & Date of Technical bid opening :**	Date: 01/04/2020 Time: 11:00AM
9.	**Place of opening Bids :**	Ambedkar College, Fatikroy, Unakoti, Tripura.
10.	**Date of Financial Bid opening**	Will be separately notified for the Technically shortlisted/ Qualified bidders.
11.	**Bid validity :**	60 days
12.	**Performance Guarantee**	Performance Guarantee equal to 7% of total quoted value has to be submitted within 10 (Ten) days after award of Tender. As Performance Bank Guarantee addressed to the "Principal, Ambedkar College, Fatikroy, Unokati Tripura from any Nationalized/ Scheduled Bank guaranteed by the Reserve Bank of India, payable at SBI, Kumarghat. It will remain valid throughout the period of 1 Year.
13.	**Officer Inviting Bids :**	Dr. Subrata Sharma Principal (Incharge) Ambedkar College, Fatikroy, Unakoti, Tripura.

Notes:- All the above mentioned time are as per clock time of e-procurement websites:
https://tripuratenders.gov.in

Dr. Subrata Sharma
Principal (Incharge)

আম্বেদকর কলেজ

ফটিকরায়, উনকোটি, ত্রিপুরা

Ambedkar College

A Govt. Degree College Affiliated to Tripura University

(UGC 2f &12B recognized and NAAC Accredited)

Fatikroy, Unakoti, Tripura – 799 290

No. F.6 (20) **(A)**/AC/FR/RUSA/PUR/2015   Date: 07/O3/2020

NOTICE INVITING e-TENDER

The Ambedkar College, Fatikroy, Unakoti Tripura, invites e-Tender from bonafide & resourceful Manufacturers/authorized dealers/Agency for setting up of **"LAN & Wi-fi connectivity and IP based wireless CCTV "** at Ambedkar college through e-Procurement website of Government of Tripura, http://tripuratenders.gov.in. Bidding details i.e. items specifications, job description, Terms and conditions will be available in the college website www.actripura.edu.in or www.tripuratenders.gov.in from 7th March, 2020.

The interested agency may digitally submit their bids in the form of two bid system in English language by 31st March, 2020 up to 5:00 PM.

Sl.No.	Name of the Items	Tender Value (in INR)	EMD value (in INR)
1	supply and installation for Campus Wi-Fi and CCTV camera at different sections and buildings of Ambedkar College	5,50,000.00	11000.00

NB : Specification details of each item mentioned above are given in Annexure-I.

Dr. Subrata Sharma
Principal (Incharge)

SCOPE OF WORK FOR LAN & Wi-Fi:

As the vertical expansion of Academic building and Administrative building has been completed, so it is necessary to extend the LAN & Wi-Fi connectivity to the departments and cells accommodated in the new space. The distance between the two building is about 300 meters. Details of LAN access point is as below.

Floor and building wise outline of new requirements to revive the network functionality in our college

Sl No	Connecting Area	Proffered Devices	Nos Free Drop Link
1	1st Floor Admin Building	Access Point 2.4Ghr LAN Switch and Cabling	11 Nos LAN Drop Link 2 Nos Wi-Fi Hotspot
2	Ground Floor Admin Building	Access Point 2.4Ghr LAN Switch and Cabling	13 Nos LAN Drop Link 2 Nos Wi-Fi Hotspot
3	Ground Floor Science Building	Access Point 2.4Ghr LAN Switch, Cabling & PoE Switch	8 Nos LAN Drop Link 2 Nos Wi-Fi Hotspot
4	1st Floor Science Building	Access Point 2.4Ghr LAN Switch, Cabling & PoE Switch	8 Nos LAN Drop Link 2 Nos Wi-Fi Hotspot
5	2nd Floor Science Building	Access Point 2.4Ghr LAN Switch, Cabling & PoE Switch	8 Nos LAN Drop Link 2 Nos Wi-Fi Hotspot
6	Old Academic Block	Access Point 2.4Ghr LAN Switch, Cabling	5 Nos LAN Drop Link 2 Nos Wi-Fi Hotspot
7	Auditorium	Access Point 2.4Ghr LAN Switch, Cabling	5 Nos LAN Drop Link 1 Nos Wi-Fi Hotspot

SCHEDULE-1
IMPORTANT GUIDELINES AND ELIGIBILITY CRITERIA

1. Availability of the Tender:

1.1 Setting up of **"LAN & Wi-fi connectivity with IP based Wireless CCTV"** at the campus of Ambedkar College, Fatikroy, Unakoti, Tripura, e-Tender document along with bid document can be downloaded from http://tripuratenders.gov.in and only registered bidder can participate in the tendering process.

1.2 The published tender will be available in the e-procurement website http://tripuratenders.gov.in.

1.3 The bidder shall bear all the costs associated with the preparation and submission of the bid. The "Ambedkar College, Fatikroy, Unakoti Tripura" shall, in no case, be responsible or liable for these costs, regardless of the conduct or the outcome of the bidding process.

2. Language of Bid/Contract:

The language of the bid shall be in English and all correspondence in this regard shall be in English language.

3. Eligibility Criteria of the bidders:

3.1 **Experience:** The bidder should have experience of setting up of similar facilities in reputed Universities/College/research institutes. Customer list and evidence need to be submitted.

3.2 **Support Base**: The bidder should have strong service and manpower support, with sufficient number of technicians of adequately skilled personnel having knowledge of Networking, installation & trouble shooting of hardware and software. List of the manpower to be submitted along with technical bid.

3.3 **Blacklisting:** The bidder should have never been blacklisted or debarred by any Central/State Government Departments/Undertaking Bodies/ Autonomous Bodies/PSUs from carrying out similar work/business.

3.4 Offers without satisfying eligibility conditions will be out rightly rejected and no correspondence in this regard will be entertained.

3.5 **Pre-Qualification cum Technical Bid:** The "Pre-Qualification Bid" shall contain all details regarding the terms & conditions offered by the bidder, compliance of terms and conditions with valid essential documents as

   i. Organization establishment certificate through Govt. authorized official.
   ii. GST registration certificate (Form 6)
   iii. ITR returns with audited balance sheet for last 3 (three) financial years.

  iv. Overall Annual Turn Over not less than INR 1 Cr for last three (3) financial years with a minimum INR 50 Lakhs for any of the year.

  v. Authorization of dealership in case of distributor, if tender is not submitted by the manufacturer. **There must be an undertaking from the concerned manufacturer guaranteeing after sales service.**

  vi. Technical part: The technical part shall contain the Technical specifications, Make & Models of all the items for which the rates are quoted.

  vii. Organization Establishment Certification through Govt. authorized official.

  viii. If MSME Udhyog Aadhar submitted than tenderer get extra 10 mark on the marking table.

  ix. Authorization of Manufacturer specifically Addressing to the Principal of the college for CCTV Cameras, Wi-Fi APs, P2P wireless devices and General Manufacturer Authorization for all consumable Networking Products & Accessorises.

  x. Experience of similar kind of work in reputed college/institutions/Government Departments.

 3.6 When tenders are submitted by authorized distributors/supplier, the name of the manufacturer shall be mentioned against each item for which rate is quoted.

 3.7 In case of failure of the successful tenderer to execute supply order(s) within the time allowed, the Security Deposit will be forfeited in part or in full, depending on the nature of the case, in absence of any justifiable reasons eg. Natural calamity.

4. Validity of the Bid:

 4.1 The bid will be valid up to 180 days from the date of bid submission.

5. Tender Fee/Earnest Money Deposit:

5.1 Tender Fee: Rs.1000/- (Nonrefundable) to be submitted through online mode. The online payment option is included in the Tripura govt. e-tender portal.

5.2 **Earnest Money Deposit (EMD):** Bidder's need to submit an EMD (Refundable) Rs. 11,000/- through online mode. The online payment option is included in the Tripura govt. e-tender portal. Tender Fee and EMD are to be paid electronically using the Online Payment Facility provided in the Portal. For online payment of Tender Fee and EMD, please follow the following process-

- After initiating the Bid Submission Process from "My Tender" option, an "Online Payment" page will appear which will display the total TF & EMD amount.
- On submission of TF & EMD payment option, System will redirect to the SBI Bank MOPS window.
- SBI MOPS will have two option for Net Banking- "SBI" & "Other Banks". Bidder can choose any of the options as desired and can complete the Online Payment process.

6. Eligible Bidders :

Only those Bidders, who fulfill the eligibility criteria mentioned in the schedule I, serial no.3, are eligible to submit their bids in the http://tripuratenders.gov.in for purpose of this tender. 75% mark out of total marking system is allocated in the eligibility criteria as mentioned above.

7. Contents of the bid document:

The bidders shall Scan and upload their bids with item wise in two covers, Cover-I 'Technical Bid' and Cover-II 'Financial Bid' with necessary documents as follows.

7.1 Cover-I (Technical Document):
1. Technical details of each product.
2. Organization establishment certificate
3. ITR returns with audited balance sheet for last 3 (three) financial years.
4. Bidder's declaration Annexure -2 & Appendix X in the company letter head.
5. GST registration certificate & PAN
6. Authorization of dealership from Manufacturer.
7. Signed DNIT.
8. Documents in support of experience.
9. MSME udhyog aadhar, (if available).

** ***Note***: *Financial bid of the bidders who do not fulfill the above Technical bid requirements shall not be opened. The required document asked for in Cover-I should be submitted strictly as prescribed. Original documents of the bidders may be required for verification of the above claims.*

7.2 Cover-II (Financial Document):
i) Bill of Quantity (BOQ). The Bidders are expected to fill up the table for the financial as provided in the form of excel sheet in the portal A separate Bill of Quantity (BOQ) in excel format has been uploaded in the Financial Folder for quoting the rate.

Note: *When tenders are submitted by authorized distributors/supplier, the name of the manufacturer shall be mentioned against each item for which rate is quoted.*

8. Clarification on the Technical Bid:

8.1. The tender opening authority may call upon any bidders for clarification on the statements, documentary proof relating to the technical bid. The clarification called for from the bidders shall be furnished within the stipulated time, which shall not be more than a week.

8.2. The bidders if so desirous shall agree in writing to furnish the clarification called for within the stipulated time and, for disqualification and rejection of his/her tender in the event of failure to do so.

9. How Rates to be Quoted:

The bidders would be required to register in the website for submission of the bids. The bidders required to have digital Signature from any of the certifying authorities. Aspiring bidders who have not obtained the user ID and password for participating in e-procurement may obtain the same by registering in the www.tripuratenders.gov.in. The requirements to register with the e-procurement portal are available on the website indicated above.

A separate Bill of Quantity (BOQ) in excel format has been uploaded in the portal to quote the rate. Bidder shall quote the rate only in the prescribed BOQ excel sheet and upload the same in the Financial Folder. Do not change the name of the BOQ. BOQ has to be filled and uploaded only in Cover-II (financial document). Do not send or upload this information in Cover-I/Technical Document.

10. Extraneous term condition:

Bidder should accept all the terms and condition of the tender unconditionally and if they impose any extraneous term condition or offer any conditional discount, tendering authority reserve the right to declare the bid informal.

11. Amendment to Tender Documents:

11.1.   Before the last date for submission of Tenders, the Tender Inviting authority preserve the right to modify any of the Contents of the Tender Notice, Tender documents by issuing amendment/Addendum or in the shape minutes of pre-bid conference.

11.2.   Any addendum/corrigendum issued by the Tender Inviting Officer shall be part of the Tender Document and it shall either be uploaded in the http://tripuratenders.gov.in or notified in the News Papers in which NIT was published.

 11.3.   To give prospective Bidders reasonable time to take an addendum into account in preparing their bids, the Tender Inviting Officer may extend if necessary, the last date for submission of tenders.

(Dr. Subrata Sharma)
Principal Incharge

SCHEDULE-2 TERMS & CONDITION

1. Submission of e-tender without requisite documents as per terms & conditions of DNIT will be treated as invalid one.

2. Earnest money shall be auto refunded to all unsuccessful tenderers after final decision about acceptance of tender.

3. Any penal action imposed by the Government for breach of terms of contract shall be final and binding on the part of the supplier(s)/Tenderer(s)/contractor.

4. No interest can be claimed in case of delay in making payment beyond the stipulated period of payment.

5. **No conditional tender will be accepted whatever may be.**

6. The undersigned reserves the right to reject or accept any tender including the lowest one partly or wholly without assigning any reason or distribute the same to two or more renderers, if necessary.

7. Tender can be cancelled at any point of time by the department without any prior notice.

8. No charges towards loading and /or unloading of the item will be entertained.

9. The payment will be made in Indian Rupee only.

10. **Completion of work** - Within 30(thirty) days from the date of received of firm work order. No part payment against any part delivery of item will not be made.

11. **Installation & Training**: The relevant technical support personnel at site should provide installation of the ordered equipment and provide onsite operational training at least for 2(two) days.

12. Support: All technical support should be provided during the warranty period. In case of LAN & Wifi non-functionality, the technical support should be provided with the 3 days of reporting failing which bidder should extend the warranty period.

13. The Award of Contract will execute only after receipt of 'Performance Bank Guarantee' from the L1 bidder.

14. **Warranty: - Two years replacement guaranty from the date of commission.**

15. The item wise quantity to be supplied may increase/ or drop according to the actual requirement/availability of fund.

16. All disputes between the Successful Bidder and the College authority shall be settled as per the dispute resolution procedure elaborated in the Concession Agreement and shall be governed in accordance with the laws of India and courts in Tripura State shall have exclusive jurisdiction to adjudicate disputes arising from the terms herein. During the bidding process no dispute of any type would be entertained. Even in such cases where the College asks for additional information from any Bidder, the same cannot be adduced as a reason for citing any dispute.

(Dr. Subrata Sharma)
Principal In-charge

SCHEDULE – 3 INSTRUCTION TO THE BIDDERS

1.   Bidder shall take separate print out of the formats of Declaration **(Annexure-2)**, BOQ **(Annexure-3)** and other documents (statutory documents) including **item wise** technical specification. He/She shall fill the necessary information & put signature with stamp/seal, and then scan them into PDF (PDF should be in good resolution). Finally those documents should be uploaded (with digital signing) in Technical folder/Cover. If any of the certificate/documents furnished by the Bidder, found to be false/fabricated/bogus, the bidder will be liable to blacklisted and their E.M.D. will be forfeited.

2.   Do not quote any rate in the BOQ (Annexure-3)/anywhere in DNIT. Bidder has to download the BOQ excel sheet from Tripura tender website and quote the rate and upload the same in the Financial cover.

3.   Last date/time for submission of the Bids: Bids must be submitted within the Bid submission start and end date and time specified in DNIT.

4.   Late Bids: http://tripuratenders.gov.in will not allow any Bidder to attempt bidding, after the scheduled date and time prescribed in DNIT.

5.   Tender shall not be accepted for the product/products for which the concerned company has been blacklisted/banned/debarred either by Tender inviting authority of Govt. of Tripura or by any other State/Central Govt.

6. The concerned company/firm who stands blacklisted/banned/debarred either by Tender inviting authority or Govt. of Tripura or by any other State/Central Govt. and its procurement agencies on the date of bid submission shall not be eligible to participate in the tender.

7. Bid Opening: The bid will be opened online by the designated bid openers at the office of the Principal, Ambedkar College, Fatikroy, Unakoti Tripura, date and venue specified in the bid documents. Bids shall be scrutinized in accordance with the conditions stipulated in the Bid document. In case of any discrepancy of non-adherence conditions, the Bid accepting authority shall communicate the same which will be binding both on the bid Opening authority and the Bidder. In case of any ambiguity, the decision taken by the Bid Accepting Authority on bids shall be final.

8. Bid Evaluation & Comparison of Bids: All the statement, documents, certificates, demand draft, shall be submitted/uploaded by the bidder will be verified, for evaluation of bids. The clarifications, particulars, if any, required from the bidders, will be obtained by addressing the bidders. **Bids will be evaluated against the specified parameters/criteria same as in the case of conventional bids and the qualified bidders will be identified.** The result of bids evaluation can be seen in the e-procurement application http://tripuratenders.gov.in by all the bidders who participated in the Bid.

9. Explanation/clarification of tender:

If any bidder requires any explanation or clarification of any term condition of the e-tender, it must be sought from the tendering authority before participation in the e-tender. The clarification may be in the form of letter head or through email and reply through email will be treated a clarification against any queries.

(Dr. Subrata Sharma)
Principal Incharge

ANNEXURE –1
Products details with specification and Quantity

Sl No	Product Name	Units' Specification	Qty	UoM	Offered Brand and Model
		Scale for College Campus Wi-Fi			
1	Wi-Fi Poll Mount or Wall Mount Access Point (AP)	Chipset - Atheros9341; Wireless 802.11N, 2T2R 300M MIMO Technology; Memory 256MB DDR2 RAM; Flash 16MB Interface; 210/100 Mbps RJ45 Port, support 12~48V PoE; 1 Reset Button; 1 DC Jack, 12V Power Supply; Antenna - 5dBi omni Antenna; LED Light - POWER WIFI WAN LAN S1(GPIO9); S2(GPIO14) S3(GPIO11) S4(GPIO12); Size - L 257mm; For ease of field management, should be able to manage Base Station and CPEs using a single Computer / Laptop over web based GIU; Radio System should support the up gradation of firmware/software over the air through element management software tool	15	Nos	
2	Point-to-Point Poll Mount Wireless Devices	1. Radio System should operate in India ISM Band (5.8GHz) as per WPC Regulation locked to frequency band 5.825-5.875 GHz and other frequency bands should not be available preventing illegal operation in unauthorized frequency band 2. CPE radio should support Automatic Transmit Power Control (ATPC) to limit the power and reduce unnecessary interference to other CPEs in the proximity. 3. CPE should support maximum Tx power up to 28dBm 4. Radio System should support Channel Bandwidth of 5/10 MHz or 20/40 MHz or both 5. Radio should have 15-20 Dbm Integrated antennae form. 6. Radio should cover distance of 15 Kms or better on availability of LoS. 7. Modulation technology supported should be OFDM – MIMO 2 x 2 and Diversity, FEC k = 1/2, 2/3, 3/4, 5/6 8. Radio system should operate on TDMA duplexing mode or Scheduler mode or in any other parallel technologies 9. CPE radio should support smart dynamic assured capacity controlled by Base station 10. Radio should support any GUI/LED/RSSI indication or audible buzzer for antenna alignment 11. Latency should be lower than 20ms between BS and CPE LAN ports 12. Should support throughput Capacity upgrade license to 300mbps without changing hardware 13. To support multiple applications and traffic requirements, the radio should support Symmetric & Asymmetric Transmit ratio upto 85%:15% in any direction.	6	Nos	

		14. CPE Radio should support adaptive modulation			
		15. Radio System should support MTU size of 1700 bytes or higher, increasing fragmented frame size by limiting overheads and delivering higher data for a given duration of time			
		16. The Radio system should support dual stack IPv4 & IPv6 IP Address from day one			
		17. The Radio System should support the Quality of Service according to IEEE 802.1p, TOS/ Diffserve			
		18. Radio system should support VLAN according to IEEE			
		19. 802.1q standards; Should also support Double tagging Q in Q (DVLAN)			
		20. Separate VLAN for management and traffic should be supported			
		21. The CPE radio must have provision of Initiation of soft reset command from Link management software, and should			
		22. not have a HW based reset button for security reasons.			
		23. The Radio should support AES-128 or FIPS 197 encryption certifications			
		24. Input AC Voltage- 110 – 240 VAC or Input DC Voltage- -20 to -60 VDC			
		25. The power consumption of Radio should be Maximum < 20 W			
		26. Should support SNMPv1 & SNMP v2/SNMPv3,Telnet/SSH, web based management			
		27. For ease of field management, should be able to manage Base Station and CPEs using a single Computer / Laptop over web based GIU.			
		28. Radio System should support the up gradation of firmware/software over the air through element management software tool			
		29. Radio System should support Scheduled based / Delayed SW upgrade through element management software tool			
		30. Radio System should support Bulk software upgrade of multiple site equipment.			
		31. Event/Alarms log should be supported in the system			
		32. Temperature supported should be for outdoor radios -20° C to 60° C and indoor units 0°C to 50°C			
		33. Humidity supported should be for outdoor radios 95% condensing and for indoor units 90% non-condensing			
		34. Radio should support Wind speed (operational) of 180 km/h.			
		35. Radio System should have 2 Gigabit LAN Interface with Auto negotiation (IEEE802.3)			
		36. Radio System should support Framing/Coding IEEE802.3/U standard on Ethernet Interface to the network			
		37. The radios should support Regulations - FCC PART 15,part C, WPC - GSR-38-E for wireless			

		38. The Radio should support safety standards - UL 60950- 1orUL 60950-22 39. The system should have the feature of RSSI indications to enable fine alignment in azimuth and elevation planes on CPE 40. The system should have the feature of indications of current modulation available identify 41. interference/performance. 42. CPE hardware should have ability for capacity upgrade from 25Mbpsto 50 Mbps without any change The CPE radio system should be IP66/IP67 or higher for dust and water Ingress protection and attach certification by International/Government Accredited Lab			
3	Manage Network Switch	Network standard: EEE 802.3i IEEE 802.3u IEEE 802.3x IEEE802.3z, IEEE 802.3ab IEEE 802.3af IEEE 802.3at Port: 8 10/100/1000Mbps RJ45 client port, 2 up linking RJ45 port Indicator: 10 Link/Act LED indicator,1 Power LED indicator,1 SYS LED Indicator Performance: Forwarding mode store-and-forward Bandwidth: 20Gbps, Packet forwarding rate: 14.88Mpps, Support 8K MAC address table Input power: 100-240V/50-60Hz Shortcut function: One key AI VLAN, One key AI Extend, One key Q0S (Video priority) Input power: 100-240V/50-60Hz Environmental: Operating temperature: 0°~40°C, Storage Temperature: -40~70°C, Operating Humidity:10%~ 90%, non-condensing Storage Humidity : 5%~ 95%, non-condensing	5	Nos	
4	User Authentication Module	**General requirements:** 1 Should support features that include AAA, BYOD and Guest Access by incorporating identity, physical/device information, and conditional elements into one set of policies. 2 Solution must be Agnostic to existing wired, wireless and VPN network 3 Solution must be vendor agnostic and interoperate with any wireless controller or virtual controller based network 4 Solution must be Agnostic to existing wired, wireless and VPN network in place today. 5 Ability to mix and match virtual and hardware appliances in one deployment. 6 Platform must be deployable in out-of-band model and support for clustering with N+1 active redundancy model. 7 Support any type of networking equipment (wired, wireless, VPN) and a variety of	1	No	

		authentication methods (802.1X, MAC auth, Web auth).			

authentication methods (802.1X, MAC auth, Web auth).

8 The solution should integrate with firewalls and UTM devices on RSSO to provide identity information to firewall

9 The system should be capable of integrating with any Network Access Server(NAS) with RADIUS support

10 The system must provide support for RADIUS vendor attributes and CoA

11 The system should provide a HTTP API for downloading information from the system

12 The system should be deployed as a VM on exisiting server infrastructure

13 The system should be integrated without having to change network topology

On Boarding:

13 Solution should be capable of registering new user devices for network access

14 The registration page must be customizable and be editable from the web interface

15 The registration page must be accessible from a separate SSID

16 The system must be able to onboard and register guest users from a separate SSID thorugh a custom external captive portal

17 The administrator must be able to customize the captive portal from the web interface

18 The system should support multiple user repositories including OpenLDAP, Windows Active Directory and local users at the same time

19 The system must be able to create users on the LDAP under corresponding OU and group based on registration parameters

20 The system should be able to store and retrieve credentials of users with SHA encryption

21 The system must be able to move LDAP users between different groups from the application

22 The system must be able to reset user's LDAP password from the application

23 The solution must be able to add users to LDAP by making API calls to the application

24 The solution must support auto-creation of users, admin approved user admission, sponsor approval through email

25 The system should be able to fingerprint devices and automatically capture the MAC address on registration

26 The system should be capable of integrating with SMS and email gateways for communicating credentials with end-users

27 The solution must support server certificate based authentication

28 The solution must be able to connect to all types of devices running any version of OS

		29 Executable onboarding setup files must be provided for setting up end devices in case of Windows		
		Authentication		
		30 The solution must support 802.1X, WPA2-Enterprise with PEAP-MSCHAPv2		
		31 The AAA solution must be capable of reading encrypted hashes from LDAP		
		32 The users must be able to connect across multiple vendor wireless Aps with a one-time setup on the device		
		Policy Delivery		
		33 Guest users and enterprise users will need to have different levels of access to network resources and Internet bandwidth		
		34 Guest users and enterprise users will need to connect to only the corresponding SSIDs		
		35 System should be able to bind MAC access of user's devices		
		36 System should be able to deliver bandwidth policies, data, time and usage quotas		
		37 System should support dynamic VLAN allocation		
		38 The system must be capable on delivering RADIUS attributes based on muliple RADIUS dictionaries		
		Logs And Reports		
		39 System must provide session logs for one year		
		40 System must captive session logs with timestamp MAC address and IP address		
		41 System should be able to provide reports based on date, usage and sessions		
		42 Users must be provided with a customized self-service portal to view usage, change password, register new devices		
5	Networking with Structural Cabling and Electrical wiring with fittings	**LAN Cable:** ISI marked Category - 6 UTP Solid cable, Conductor - 23 AWG (Solid), Conductor Meta - Bare Copper Connector: RJ 45 (renowned Brand) Unmanaged Networked Switch: 8 or 5 port 10/100 well mount as required for the network (renowned Brand) Electrical wiring with fittings: as required for the network (renowned Brand)	1	Job
6	Offline UPS	Capacity: 1 KV; Waveform: Modified sine wave; Battery Type: 12V/7Ah x 1	2	Nos
7	Network Rack	4U with All Accessories	7	Nos
8	Installation and Configuration Charge	Installation and configuration charge with a comprehensive single window network management solution and detail network mapping diagram & timeline report. Also, on call manpower support for Training, Testing and up-gradation purposed.	1	Job

		Scale for CCTV Security Surveillance within College Campus on Wi-Fi WAN Network		
9	CCTV Camera (Dome/Bullet)	Camera:- Image Sensor: 1/2.7" Progressive scan CMOS Min. Illumination: 0.01lux(Color), 0lux(IR on) Shutter Time: Auto/Manual, 1/3~1/10000s Lens: 3.6 mm@F2.0: horizontal FOV: 88°, vertical FOV:47° Lens Mount: M12 Day/Night: IR cut filter with auto switch Wide Dynamic Range: DWDR Max. IR LEDs Length: 30M Smart IR: Support Compression:- Video Compression: H.264/H.264+/H.265/H.265+ H.264 Codec profile: Base/Main/High profile H.265 Codec profile: Main profile Video Bit Rate: 11 Kbps~8 Mbps Image:- Max.resolution: 1920 × 1080 Main Stream: 50Hz:25fps 1080P(1920 × 1080) 25fps 960P(1280 × 960),25fps 720P(1280 × 720) 60Hz:30fps 1080P(1920 × 1080) 30fps 960P(1280 × 960),30fps 720P(1280 × 720) Sub Stream: 50Hz:25fps D1(704 × 576),25fps CIF(352 × 288) 60Hz:30fps D1(704 × 480),30fps CIF(352 × 240) Mobile Stream: 50Hz:25fps CIF(352 × 288)60Hz:30fps CIF(352 × 240) Image Setting: Brightness/Contrast/Saturation/Hue/Sharpness BLC: Support HLC: Support ROI: Support Defog: Support Event: Motion Detection, Video Shelter Smart Functions: Area Intrusion, Line crossing, Object Missing, Unattended Object, Fast Moving	11	Nos

		Network:- Protocols: TCP/IP, ICMP, HTTP, HTTPS, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, IGMP, UPnP, SMTP, SNMP, UPnP-TM, P2P, Bonjour System compatibility: Onvif 2.6, Profile S, CGI Security: User authentication, IP address filtering, Video mask Mobile Surveillance: iPhone, iPad, Android devices Communication interface: 1 RJ45 10M / 100M Ethernet Port			
10	Network Video Recorder	Chipset: Hi3536C Video & Audio Input:- IP Video Input: 16ch Audio Input: 1ch Video &Audio Output:- HDMI: 1ch, resolution: 4K(3840×2160)/30Hz,1920×1080/60Hz,1440×900/60Hz, 1280×1024/60Hz, 1280×720/60Hz, 1024×768/60Hz VGA: 1ch, resolution: 1920×1080/60Hz,1440×900/60Hz, 1280×1024/60Hz,1280×720/60Hz, 1024×768/60Hz Audio Output: 1ch Recording:- Compression: H.265+/H.265 /H.264+/H.264 Resolution: 8MP / 5MP /4MP / 3MP /1080P /720P /D1/CIF /QCIF Bit Rate: 64Kbps~10Mbps Playback & Backup;- Playback Mode: Smart/ Normal/ Time Division/ Label/ Event/ Picture/ Log Playback Decoding Capability: 4CH@1080P Synchronous Playback: 16CH Backup Mode: USB Device/Network Advanced Features:-	1	No	

		Smart Detection: Line crossing, Area Intrusion, Fast moving, Unattached Object, Object Missing Smart Playback: Line Crossing/Are Intrution/Motion Detection Cloud Storage: Support Cloud Upgrade: Support Network:- Incoming Bandwidth: 160Mbps Outgoing Bandwidth: 256Mbps Ethernet: 1 RJ-45 10 /100/1000 Mbps self-adaptive Ethernet interface Network Function: HTTP, HTTPS, TCP/IP, IPv4, UPNP, RTSP, UDP, SMTP, NTP,DHCP, IP Filter, DDNS, FTP, P2P, ONVIF 2.6 Smart Phone: IOS(iPhone, iPad), Android(Phone, Pad)			
11	Output Video footage Monitor	55'' Standard specified viewing LED display	1	No	

Folder Details

List of Documents to be uploaded in Tripura Tenders Portal http://tripuratenders.gov.in (Technical and Pre-qualification & Financial folder)

Sl no	Name of Folder	Folder type	Contents
1	**First Folder**	Technical Bid & Pre-qualification	I. GST registration certificate & PAN II. ITR returns last financial year III. Proprietary certificate by the manufacturer. IV. Authorization of dealership V. Technical Specification details of each item. VI. Bidder's declaration Annexure -2 & Appendix X VII. Signed Tender Document. VIII. Documents in support of Bidder's recent and past supplies of similar work
3	**Second Folder**	Financial Bid	BOQ (Excel sheet) To be uploaded in the Financial folder.

ANNEXURE-2

(To be submitted on company letter head)

DECLARATION

I do hereby declare that I have personally gone through the relevant Detailed Notice Inviting Tender (DNIT) and understood all the clauses, specifications of tendered items, instruction of the DNIT and having been fully satisfied I have quoted the rate of the item/items. This is further to certify that I have suppressed no facts in the tender which could debar me to participate into the tender. If it is revealed after opening of the tender that any fact is suppressed by me, tendering authority shall have the right to reject my tender along with other punitive action against me as per term condition of the tender. I do affirm that all the term condition of the DNIT is unconditionally accepted by me.

<div align="right">

_____
Signature of the bidder:
Date:

</div>

Appendix - X (Declaration of non-Blacklisting)
(To be submitted on official letter head)

Declaration by the Bidder

Place   :
Date   :

To
The Principal,
Ambedkar College,
Department of Higher Education
Government of Tripura
Fatikroy, Unakoti; Tripura

Subject: Self Declaration of not been blacklisted in response to the NIT for supply and installation for Campus LAN& Wi-Fi and CCTV camera at different sections and buildings of Ambedkar College, Fatikroy, Unkoti; Tripura.

Ref: NIT No.

Dear Sir,
We confirm that our company or firm, is currently not blacklisted in any manner whatsoever by any of the State or UT or PSU and or Central Government in India on any ground including but not limited to indulgence in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice as on <last date of bid submission>.

(Signature of the Lead Bidder)
Printed Name Designation
Seal
Date:
Place:
Business Address:

Appendix Y (Financial Bid)
Bill of Quantity (BOQ) Format

SL No	Name of Product with details of Brand/Model	Qty	UoM	Price without GST (in INR)	GST (in INR)	Total Amount
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Value In Word:					Grand Total	

Technical Evaluation Marking Table

Sl No	Technical Parameter	Max Point	Rewarded Point	
			TCC**	PC#

1	Organizational Required Documentation:
	    a) Trade certification
	    b) Financial clearance and certification
	    c) Manufacturer authorization
		35		

2	Product Specification with comprehensive warranty support	20		
3	Methodology for installation/operation and Support for at least for 3 years support for post installation of the network.	30		
4	Past work experience and overall project preparation	15		

TCC** (Technical Core Committee) = Consist the Chairman of Purchase Committee with the Coordinator of the procurement Committee and technical committee member who award 35% of the Reward Points.

PC# (The procurement Committee) = TCC with the rest of procurement Committee member who award 65% of the Reward Point.