

Management Development Institute Murshidabad
Kulori, PO – Uttar Ramna, Dist. – Murshidabad, PIN-742235, West Bengal

Notice Inviting Tender

For Supply & Installation of Controller Based Wi-Fi setup in Campus at MDI Murshidabad.

Tender No: MDIM/Admin/Tender(IT)/2017/19

Date: 23/03/2017

Sealed Tenders are invited from eligible, reputed and experienced companies for “Supply & Installation of Controller Based Wi-Fi setup in MDI Murshidabad Campus”.

This Tender document can be downloaded from Institute’s website www.mdim.ac.in or may be obtained from Institutes’ Administration Office at Murshidabad.

SI No	Details	
1	Last date of Submission of Tender	17/04/2017, upto 3:30 pm
2	Tender Opening Date	17/04/2017, upto 4:00 pm (Technical Bid only)
3	EMD (non-interest bearing)	EMD (non-interest bearing): Rs. 20,000/- (Rupees Twenty Thousand only) to be deposited through online as follows and payment receipt to be enclosed: Beneficiary Name: Management Development Institute Murshidabad Bank & Branch: State Bank of India, Omarpur Branch Account Number: 33987582978 IFSC Code: SBIN0012355 A/C Type: Current
4	Tender document to be submitted at	The Registrar, Management Development Institute Murshidabad Kulori, PO – Uttar Ramna, Dist. – Murshidabad, PIN-742235, West Bengal Phone: 9674727164, 9674757164
5	Last date of any Technical Query & concerned person for queries	06/04/2017, upto 1:00 pm (after that no queries will be responded/entertained regarding this Tender) Avirup Das Mobile: 9477983948 Email: avirupdas@mdim.ac.in
6	Site Survey	Bidders are requested for survey the entire Campus for better understanding of BOQ and technical query, if any. Last date of visit the site for this is : 04/04/2017 (after that no queries will be responded/entertained regarding this Tender)


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Offers as per "Technical Bid" & "Price Bid" in prescribe formats in separate covers duly superscribed as "Technical Bid for Supply & Installation of Controller Based Wi-Fi setup in MDI Murshidabad Campus" and "Price Bid for Supply & Installation of Controller Based Wi-Fi setup in MDI Murshidabad Campus" and both the sealed covers are to be put in a bigger cover which should be sealed and superscribed as "Tender for Supply & Installation of Controller Based Wi-Fi setup in MDI Murshidabad Campus" and should be delivered thereon through **Speed Post** or **hand delivery** on or before 17/04/2017 upto 3.30 p.m. at the following address:

The Registrar
Management Development Institute Murshidabad
Kulori, PO – Uttar Ramna, PS – Raghunathganj
Dist. – Murshidabad, West Bengal, PIN – 742235

Tenders received after the due date and time will not be considered or accepted, no request or appeal will be entertained for this. MDI M authority reserves the right to accept or reject any or all the quotations without assigning any reason whatsoever.

Instructions to Bidders:

1. Documents are to be put in Technical Bid: Following documents and papers to be put into this bid without any deviations :
 - 1.1. EMD towards this tender or its online payment receipts/proofs
 - 1.2. Properly filled-up Annexure – I (Bidders & OEM criteria) and its all supporting documentary evidence.
 - 1.3. Properly filled-up Annexure – II (Technical compliance sheet) and it supporting documents like Datasheets / Spec sheet.
 - 1.4. Properly filled-up Annexure – III (BOQ & Make-Model List)
 - 1.5. Properly filled-up Annexure – IV (Terms & Conditions)
2. Documents are to be put in Price Bid: Following document to be put into this bid without any deviations:
 - 1.1 Properly filled-up Annexure – V (Price Bid Format)

Signature
22/3/17
Registrar
MDI Murshidabad
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Supply & Installation of Controller Based Wi-Fi setup in Campus at MDI Murshidabad

Annexure I (Technical Bid)

Bidder / OEM criteria

Sl. No.	Qualifying Criteria for Bidders / OEMs	Bidder Response
1	A. Name of the Organization / Bidder	
	B. Principal Address with Contact details of the Organization / Bidder	
	C. Profile of your company / Organization / Bidder:	
	C1. Year of establishment	
	C2. Annual turnover for the last 3 years (average annual turnover should be over 5 crores) **Please furnish 3 years audited Balance sheet	FY 2015-2016 : FY 2014-2015 : FY 2013-2014 :
	C3. Organization Status (should be a Register Company) **Please furnish Incorporation Certificate	
	C4. Service Center / Technical / Manpower Location / Office / Setup details which is Nearest to MDI Murshidabad	
2	The Bidders should have executed at least 2 (Two) orders each of minimum Rs.15 lakh or one order of more than Rs.30 lakh of similar nature (Wireless LAN) during the last 3 (Three) years. (The second work order should not be a repeat order of the first one).	1. (Please furnish PO & Completion Certificate) : 2. (Please furnish PO & Completion Certificate) :
3	Tender Specific Authorization Certificate of the Quoted Wi-Fi OEM : Cisco / Aruba-HPE / Ruckus-Brocade	MAF to be furnished
4	Onsite support at MDI Murshidabad Campus	Declaration on company Letter Head to be furnished.
5	Details of Technical Manpower	A list of Technical Manpower to be furnished
6	The OEM should have spare parts depot / service center / TAC in India	Details to be furnished
7	The Bidder should offer such Wi-Fi components / products of OEMs who are (a) Having presence in india for last 6 years or more and in the Wi-Fi business for last 10 years or more (b) ISO certified	(a) Supporting document for presence (b) ISO Certificate of OEM
8	The Bidder should not be Blacklisted/debarred or involved in any Corrupt & Fraudulent Practices by any Central / State government ministry/affiliate or Public sector undertaking.	Self-certification by head of the organization.

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9	Documents related to allocation of Valid (1) PAN Number (2) VAT / CST Registration (Latest) (3) Service Tax Registration (Latest) (4) P.T. clearance certificate (Latest) (5) Trade License (Latest) (6) PF & ESI Registration / Challan	Self-attested photocopies of documents/certificates issued by the competent authority to be furnished.
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BIDDER'S SIGNATURE: _____

BIDDER'S NAME: _____

BIDDER'S DESIGNATION: _____

DATE : _____

OFFICIAL STAMP:


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Supply & Installation of Controller Based Wi-Fi setup in Campus at MDI Murshidabad

Annexure II (Technical Bid)

Technical Specifications

WIRELESS LAN CONTROLLER		
Offered Make: _____ (Make List: CISCO / Aruba-HPE / Ruckus-Brocade)		
Offered Model:		
SI No	Specification / Requirement	Compliance (Yes/No)
1	The WLC should be a dedicated hardware based device only.	
2	The WLC should have 4x 10/100/1000 RJ45 Ethernet Port for connecting to LAN	
3	WLC should have Easy Setup through UPnP Network Discovery and Installation Wizard.	
4	Controller should support 40 AP's from day1 and should be scalable for 1020 or more AP's in future without adding any new hardware. Each WLC should be able to support minimum 1024 campus connected AP's or more with support of seamless roaming access over L2/L3 network.	
5	Each Controller should have capacity to handle minimum 15000 or more Concurrent devices.	
6	Controller should support minimum 1000 WLAN's.	
7	Controller should provide air-time fairness between these different speed clients – slower clients should not be starved by the faster clients and faster clients should not adversely affected by slower clients.	
8	Ability to map SSID to VLAN and dynamic VLAN support for same SSID.	
9	support automatic channel selection for interference avoidance.	
10	External Captive Portal Integration - Web-services based API for external web-portals to integrate with the controller	
11	WLC should support Hotspot 2.0 (passpoint).	
12	Access points can discover controllers on the same L2 domain without requiring any configuration on the access point.	
13	Access points can discover controllers across Layer-3 network through DHCP or DNS option	
14	WIRELESS SECURITY & Authentication: Open, 802.1x/EAP, PSK, WISPr, WPA, WPA2-AES, WPA-TKIP, WEP, EAP-SIM, EAP-AKA over WLAN for 802.1x, Authentication through external Radius /Directory services.	
15	WLC should support WIDS/WIPS for security including Rogue AP detection and containment, AP spoofing and Ad-Hoc detection, DOS attacks.	
16	WLC Should support L2 Client Isolation so User cannot access each other's devices. Isolation should have option to apply on AP or SSID's.	
17	Support for Walled garden "Walled Garden" functionality to allow restricted access to select destinations by unauthorized wireless users.	
18	The proposed architecture should be based on controller based Architecture with thick AP deployment. While Encryption / decryption of 802.11 packets should be able to perform at the AP.	

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19	WLC should support OS/Device finger printing, Bandwidth rate limit, VLAN mapping.	
20	WLC should support Mesh.	
21	WLC should be able to present a customizable dashboard with information on the status of the WLAN network.	
22	WLC should be able to raise critical alarms by sending an email. The email client on the controller should support SMTP outbound authentication and TLS encryption.	
23	WLC or integrated solution should provide reporting with minimum 1 month of historical customized reports.	
24	Filtering of Alarms and event Log based on APs, SSID or Zones	
25	Syslog support towards external syslog server	
26	per SSID or dynamic Per user bandwidth Rate Limiting	
27	Self-healing (on detection of RF interference or loss of RF coverage) and vendor should provide their Interference mitigation techniques .	
28	System must support Band Steering where 5 Ghz clients are forced to connect over 5Ghz Radio to provide better load balancing among 2.4Ghz and 5Ghz Radios.	
29	WLC shall support Quality of Service features like 802.11e based QoS enhancements, WMM or equivalent and U-APSD to provide best performance on Video applications.	
30	WLC should provide a Guest Login portal in order to authenticate users that are not part of the organization.	
31	WLC should be able to provide a web-based application that allows non-technical staff to create Guest accounts with validity for fixed duration like hours or days.	
32	Controller should be CE. FCC/UL certified.	
33	Warranty should be of 3 years (including TAC support & replacement policy)	

INDOOR WIRELESS ACCESS POINT

Offered Make: _____ (Make List: CISCO / Aruba-HPE / Ruckus-Brocade)

Offered Model:

SI No	Specification / Requirement	Compliance (Yes/No)
1	The APs should support the 802.11a, 802.11b, 802.11g and 11n and ac standards. It should also support 802.11ac standard in the 5 GHz band.	
2	Operation in dual band radio is essential	
3	Should support minimum 2x2 or higher MIMO on both radio bands for an aggregate capacity of 1.150Gbps.	
4	The access points should be centrally managed.	
5	In some small isolated environments the AP should be able to function as a full-fledged stand-alone access point without the requirement of a controller.	
6	Security mechanisms should be in place to protect the communication between the Access Point controller and the Access Points.	
7	Since most radio interference come from the WLAN network itself the vendor should specify what mechanisms such as beam steering/ adaptive antenna technology/ beamforming are available in combination to focus the energy on the destination STA and minimize radio interference with the surrounding of the AP. The vendor should specify if the activation of such feature is still compatible with 802.11n spatial multiplexing.	

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8	Since the WLAN network will be using an unlicensed band the solution should have mechanisms that reduce the impact of interference generated by other radio equipment operating in the same band. Describe techniques supported.	
9	The access point should be able to detect clients that have dual band capability and automatically steer those client to use the 5GHz band instead of the 2.4GHz band.	
10	The antennas to be dual polarised and should be integrated inside the access point enclosure to minimize damage and create a low profile unit that does not stand out visually.	
11	The access point should have 1 Gigabit Ethernet port.	
12	The access point should support 802.1q VLAN tagging	
13	The access point should support WPA2 enterprise authentication and AES/CCMP encryption. AP should support Authentication via 802.1X and Active Directory.	
14	Implement Wi-Fi alliance standards WMM, 802.11d, 802.11h and 802.11e	
15	The Access Point should provide for concurrent support for high definition IP Video, Voice and Data application without needing any configuration. This feature should be demonstrable.	
16	Support RF auto-channel selection by the following three methods: a) measuring energy levels on the channel; b) monitoring for 802.11 signal structures and; c) detecting radar pulses. Other similar forms of smart selection shall also be accepted.	
17	Channel selection based on measuring throughput capacity in real time and switching to another channel should the capacity fall below the statistical average of all channels without using background scanning as a method.	
18	Should support Transmit power tuning in 1dB increments in order to reduce interference and RF hazards	
19	Device antenna gain (integrated) must be at least 4dBi and should provide automatic interference rejection of about 10dB.	
20	Should support up to 200 clients per AP	
21	Should support DHCP Option 82 in standalone mode (without Controller) as well as in Managed mode (with Controller)	
22	For troubleshooting purposes, the administrator should have the ability to remotely capture 802.11 and / or 802.3 frames from an access point without disrupting client access.	
23	Should be plenum rated and comply to RoHS	
24	Should be Wi-Fi certified; Wi-Fi certificate to be enclosed	
25	Should be WPC approved; ETA certificate to be enclosed	
26	Warranty should be of 3 years (including TAC support & replacement policy)	
27	PoE Injector of same make should be supplied as per requirement	

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OUTDOOR WIRELESS ACCESS POINT		
Offered Make: _____ (Make List: CISCO / Aruba-HPE / Ruckus-Brocade)		
Offered Model:		
SI No	Specification / Requirement	Compliance (Yes/No)
1	The Access Point should have minimum 1 Port 10/100/1000Mb POE in Ethernet port.	
2	802.11n Access Point should be able to power up using standards 802.3af POE input, and at the same time operate in full MIMO mode.	
3	AP should have Dual Radios to support 2.4 GHz & 5Ghz concurrent users with 802.11 a/b/g/n/ac capability. AP Must support 2x2 or 3x3 MIMO with 2 Radio Chain.	
4	AP should be able to handle upto 250 Concurrent users.	
5	AP should provide minimum 24 dBm transmit power for 2.4Ghz and 5 Ghz. (EIRP should be limited as per govt. regulation for outdoor AP's).	
6	Wireless Interface: Dual radio; 802.11a/b/g/n/ac ; 2.4Ghz and 5Ghz concurrent support.	
7	SSID support : 16 BSSID (8 BSSID per Radio)	
8	AP should support upto 300Mbps data rates in 2.4Ghz 802.11b/g/n and upto 867 Mbps in 5Ghz 802.11a/n/ac.	
9	The access point should support 802.1q VLAN tagging	
10	Antenna: Integrated/External for 360 degree coverage, with 4 dB or better Gain for 2.4Ghz and 5Ghz both.	
11	Should support the operating temp -10° to 55° C and Humidity: up to 95% non-condensing.	
12	AP Must be IP67 certified for outdoor deployment. AP must be outdoor rated and no AP will be accepted which is indoor and installed in outdoor casing.	
13	The access point should support following security mechanism: WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i.	
14	System should support Authentication via 802.1X, Local (controller based) authentication database, support for RADIUS and Active Directory.	
15	Should Support : Web User Interface (HTTP/S), CLI (Telnet/SSH), SNMP v1, 2, 3	
16	Should be managed by Controller or standalone if required	
17	Should be WPC approved	
18	Warranty should be of 3 years (including TAC support & replacement policy)	
19	PoE Injector of same make should be supplied	

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24 Port L3 Switch		
Offered Make: _____ (Make List: CISCO/ Brocade / ARUBA)		
Offered Model: _____		
SI No	Specification / Requirement	Compliance (Yes/No)
1	Switch architecture should be Fixed Form factor / stackable based.	
2	Switch should have wire-speed, non-blocking and distributed forwarding on all the ports.	
3	Hardware of the switch should be minimum IPV6 Ready Logo Certified from Day1	
4	Switch should have minimum of 24 x 10/100/1000 Mbps RJ45 plus 6 x 1G SFP uplink ports from day one. 3 (three) nos. 1G SFP transceiver (SM) to be supplied with the switch.	
5	Switch should support scalability of 6 x 10GBase-X SFP+ ports either in addition OR with replacement of existing Gigabit Ethernet SFP ports in future.	
6	Switch should have wire speed of data switching capacity of 168 Gbps and forwarding throughput of 126 Mpps.	
7	Switch should have 2GB of RAM & 2GB of internal flash.	
8	Switch should support stacking of 40Gbps bandwidth and stackable upto 8 units in single stack.	
9	Switch should support min 16 K MAC addresses and min 4000 active VLANs.	
10	Switch should have full Layer 2 features like STP, RSTP, MSTP/PVST, LACP/IEEE802.3ad, ACL, QoS and IGMPv1/v2/v3 from day one.	
11	Switch should have Static Routing, PBR, RIP, RIPng, OSPF (v2 & v3), VRRP-E, PIM-SM, PIM-DM, PIM-SSM from day1.	
12	Should support 4K IGMP Groups and 6K ARP entries.	
13	Should support 8 queues per port and security protocols like RADIUS, TACACS/TACACS+, AAA & SSH.	
14	Switch should be quoted with 3 years direct OEM TAC support and Next Business day hardware shipment.	

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PoE Switch		
Offered Make: _____ (Make List: CISCO / Aruba-HPE / Ruckus-Brocade)		
Offered Model:		
SI No	Specification / Requirement	Compliance (Yes/No)
1	Switch architecture should be Fixed Form factor / stackable based.	
2	Switch should have 12 x 10/100/1000 Mbps RJ45 POE+ and 2 x 1G SFP uplink ports from day one.	
3	Switch should support scalability of 2 x 10GBase-X SFP+ ports either in addition OR with replacement of existing Gigabit Ethernet SFP ports in future.	
4	Minimum PoE power budget would be 124w or more	
5	Switch should have minimum of 56 Gbps or more data switching capacity and 41 Mpps or more forwarding throughput.	
6	Switch should have 1GB of RAM & 1GB of internal flash.	
7	Switch should support stacking of 20Gbps bandwidth and stackable upto 8 units in single stack.	
8	Switch should support min 16 K MAC addresses and min 4000 active VLANs.	
9	Switch should have full Layer 2 features like STP, RSTP, MSTP/PVST, LACP/IEEE802.3ad, ACL, QoS and IGMPv1/v2/v3 from day one.	
10	Switch should support RIP, OSPF v2 & v3.	
11	Should support 2K IGMP Groups.	
12	Should support 8 queues per port and security protocols like RADIUS, TACACS/TACACS+, AAA & SSH.	
13	Switch should be quoted with 3 years direct OEM TAC support and Next Business day hardware shipment.	

CAT6 Cable		
Offered Make: _____ (Make List: TYCO/BELDEN/D-LINK)		
Offered Model:		
SI No	Specification / Requirement	Compliance (Yes/No)
1	Category 6 Unshielded Twisted Pair 4 pair 100W cable shall be compliant with ANSI/TIA/EIA-568-C.2-1 Additional Transmission Performance Specifications for 4-pair 100W Category 6Cabling. Cat6 cable should be tested up to 600MHz.	
2	Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, UTP.	
3	The 4 pair Unshielded Twisted Pair cable shall be UL Listed, ETL Certified.	
4	All Category 6 cables shall meet or exceed the following characteristics:	
5	Construction: 4 twisted pairs separated by internal X shaped, 4 channel, polymer spine / full separator. Half shall not be accepted.	
6	Conductor Solid bare Copper	
7	Conductor Diameter 0.56±0.005mm (23 AWG)	
8	Insulation :High Density Polyethylene	
9	Jacket PVC	
10	Outer Diameter 6.1 mm nominal	

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12U NETWORK RACK		
Offered Make: _____ (Make List: APW/VAL/NETRACK)		
Offered Model:		
SI No	Specification / Requirement	Compliance (Yes/No)
1	Racks manufactured out of steel sheet punched, formed, welded and Powder coated	
2	Rack should be manufactured by ISO 14001 Certified Company	
3	Standard for Racks configuration will be welded frame and vented top cover	
4	Rack should have Front Toughened Glass Door with lock & Key.	
5	Rack Should have ventilation slots on the both sides	
6	Racks should be available in either SKD or Assemble condition for Transportation	
7	Rack should be 12U in Height, 600MM Width, 600MM Depth with 50 Kg Load capacity	
8	Rack should Conforms to DIN 41494 or Equivalent EIA /ISO Standard	
9	Rack should have Adjustable mounting depth,	
10	Rack 4 No Adjustable, 19" verticals with Punched 10mm Square Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.	
11	Rack should have Numbered U positions,	
12	Rack should have 100% assured compatibility with all equipment conforming to DIN 41494 (General industrial standard for equipment)	
13	Powder coated finish with seven Tanks pre-treatment process meeting IS	
14	Rack should have one cantilever shelf	
15	Rack should have Fan module Mount Provision on top Cover with 2 fans	
16	1Ph, 230V, 8A, 2U standard rack mount power distribution unit with 6 X Indian Round Pin 5A, Inlet Plug type 6A Indian Round Pin, 8A Fuse – PDU Rating 1.8KVA	
17	Rack should have 1 No Horizontal Cable Organizer with Plastic Loops.	
18	Rack should have provision for cable entry Exit from Both top & Bottom with rubber grommets	
19	Rack should have 1 Packet of Mounting hardware, Pack of 20	

BIDDER'S SIGNATURE: _____

BIDDER'S NAME: _____

BIDDER'S DESIGNATION: _____

DATE : _____

OFFICIAL STAMP:


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Supply & Installation of Controller Based Wi-Fi setup in Campus at MDI Murshidabad

Annexure III (Technical Bid)

BOQ & Make-Model List

COMPONENTS:

SI No	Item	Description	UoM	Qty	Make & Model
1	Wireless LAN Controller (WLC)	WLC with 4 GigE for Central Management of Access Points within Layer2/3 network. 802.11ac ready and support for 802.11 a/b/g/n also.	Nos	1	
1a	WLC Support	3 Year warranty & software support	Nos	1	
1b	AP License	Single AP Upgrade License for Wireless Controller	Nos	36	
2	Access Point Type-1 (Indoor)	Dual-band 802.11abgn/ac Wireless Access Point, 2x2:2 streams, dual ports, 802.3af PoE support + Mounting Bracket	Nos	34	
2a	AP Support	3 Year warranty & software support of Indoor AP's	Nos	34	
3	Access Point Type-2 (Outdoor)	Dual-band 802.11abgn/ac Wireless Access Point, 2x2:2 streams, dual ports, 802.3af PoE support + Mounting Bracket	Nos	2	
3a	AP Support	3 Year warranty & software support of Outdoor AP's	Nos	2	
4	PoE Injector	Power over Ethernet (PoE) Adapter for both indoor and outdoor Access Points	Nos	8	
5	POE Switch	POE Switch with minimum 12 x 10/100/1000 POE+ ports and 2 x SFP ports	Nos	5	
6	L3 Switch	24 Ports 10/100/1000Mbps L3 Managed Switch with at least 6 x SFP slots. 3 (three) nos. 1G SFP transceiver (SM) to be supplied with the switch.	Nos	1	
7	UTP Cable	305 Meter 4 -Pair CAT6 23AWG UTP Cable	Box	6	
8	Rack	12U Wall Mount Rack with standard accessories	Nos	2	
9	Connectors	Cat 6 RJ45 Connector Packet that contains 100 Nos.	Box	1	

BIDDER'S SIGNATURE: _____

BIDDER'S NAME: _____

BIDDER'S DESIGNATION: _____

DATE : _____

OFFICIAL STAMP:


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Supply & Installation of Controller Based Wi-Fi setup in Campus at MDI Murshidabad

Annexure IV (Technical Bid)

Terms & Conditions

Sl No	Terms & Conditions Details	Acceptance of Bidder (Accepted / Not Accepted)	Remarks / Comments of Bidder (if not Accepted)
01	Job Completion : Within 10 weeks from the award of contract		
02	Freight charges to MDI Murshidabad : Bidder's responsibility, included in the offer		
03	Warranty Terms of Materials : 3 Years from the date of delivery		
04	Warranty Terms of Service : 3 Years from the date of Work Completion		
05	Payment Terms : 50% of Total Order Value (including Taxes) after delivery of Materials AND rest 50% (including Tax) will be paid after satisfactory completion and commissioning the project.		
06	MDIM's Scope : (a) Required UPS Power Outlets near Rack / AP locations (b) Adequate & safe space for keeping the materials during delivery & execution (c) Down time (if required) during execution (d) Required Pole / space for fixing APs (e) HDPE pipe / Roll pipe / other outdoor conduits for mounting / laying of Outdoor APs and its accessories		
07	Bidder's Scope : (a) Project to be completed on Turnkey basis and as per MDIM's satisfaction (b) Project Documentation to be provided after execution (c) Necessary Training to be given after execution (d) 3 Years onsite Support for any breakdown service issues (e) Remote support / Telephone support for any other Service issues		
08	Performance Security Amount: In the form of Bank Guarantee @10% for 3 years of the Total Order Value should be submitted after installation and commissioning the project.		
09	Liquidated Damage (LD): Any delay in completion of the project will attract LD @0.5% per week and limited to 10% maximum. The MDI M authority reserves the right to cancel the contract when LD accumulates to 10%.		

BIDDER'S SIGNATURE: _____

BIDDER'S NAME: _____

BIDDER'S DESIGNATION: _____

DATE : _____

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Supply & Installation of Controller Based Wi-Fi setup in Campus at MDI Murshidabad

Annexure V (Price Bid)

PRICE BID FORMAT

COMPONENTS:

Sl No	Item	Description	UoM	Qty	UNIT Rate	Total Amount	Tax Extra (in %)
1	Wireless LAN Controller (WLC)	WLC with 4 GigE for Central Management of Access Points within Layer2/3 network. 802.11ac ready and support for 802.11 a/b/g/n also.	Nos	1			
1a	WLC Support	3 Year warranty & software support	Nos	1			
1b	AP License	Single AP Upgrade License for Wireless Controller	Nos	36			
2	Access Point Type-1 (Indoor)	Dual-band 802.11abgn/ac Wireless Access Point, 2x2:2 streams, dual ports, 802.3af PoE support + Mounting Bracket	Nos	34			
2a	AP Support	3 Year warranty & software support of Indoor AP's	Nos	34			
3	Access Point Type-2 (Outdoor)	Dual-band 802.11abgn/ac Wireless Access Point, 2x2:2 streams, dual ports, 802.3af PoE support + Mounting Bracket	Nos	2			
3a	AP Support	3 Year warranty & software support of Outdoor AP's	Nos	2			
4	PoE Injector	Power over Ethernet (PoE) Adapter for both indoor and outdoor Access Points	Nos	8			
5	POE Switch	POE Switch with minimum 12 x 10/100/1000 POE+ ports and 2 x SFP ports	Nos	5			
6	L3 Switch	24 Ports 10/100/1000Mbps L3 Managed Switch with atleast 6 x SFP slots. 3 (three) nos. 1G SFP transceiver (SM) to be supplied with the switch.	Nos	1			
7	UTP Cable	305 Meter 4 -Pair CAT6 23AWG UTP Cable	Box	6			
8	Rack	12U Wall Mount Rack with standard accessories	Nos	2			
9	Connectors	Cat 6 RJ45 Connector Packet that contains 100 Nos.	Box	1			
SUB TOTAL: (A)							

SERVICE:

Sl No	Item	Description	UoM	Qty	UNIT Rate	Total Amount	Tax Extra (in %)
10	Cable Laying Charges	Laying of UTP Cable including supply and installation of PVC Conduit.	Mtr.	1800			
11	Service Charges	One time Installation Charges including laying of cables through required PVC conduit and configuring controller for entire Setup including 3 Year Service Support	Lot	1			
SUB TOTAL: (B)							

GRAND TOTAL FOR ENTIRE WI-FI PROJECT (A + B): ** Taxes Extra as per above mentioned rate	
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BIDDER'S SIGNATURE: _____

BIDDER'S NAME: _____

BIDDER'S DESIGNATION: _____

DATE : _____

OFFICIAL STAMP:

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