

**I.C.A.R. - Indian Agricultural Statistics Research Institute**  
**Library Avenue, Pusa, New Delhi-110012**

F.No. 36(19)/2014-CPS

Dated: 29.12.2016

Subject: : **Quotation for the purchase of LAN Switch/WiFi/Routers Cables & Installation .**

Sir,

Sealed quotations are hereby invited in a two bid system for the items mentioning below and should reach this office by not later than **13.00 hrs. on 25.01.2017**. The cover containing quotation should be super scribed as "**Quotation for (Name of the item and File No. given against the each items in BOLD letter)** in IASRI due on **25.01.2017**, failing which the quotation will have the risk of not considered.

The quotation will be opened 14.30 hrs. on the same day i.e **25.01.2017**. Quotation should satisfy the following conditions:

1. The rates quoted shall be valid for a minimum period of 180 days from the last date fixed for the receipt of quotations.
2. The rates quoted shall be for free delivery and installation at IASRI, New Delhi – 110 012. However, equipment quoted in foreign currency must be quoted on FOB basis.
3. Full specifications of the article quoted for shall be given in the quotation along with literature/pamphlet/drawing etc. User list of the quoted document may also be additionally provided for reference. The specification given in the brochure must be authenticated which can be verified from the site of firm manufacturing the equipment.
4. If taxes, duties or any other charges over and above the rates quoted Leviable, actual percentage of such taxes/duties/other charges should be clearly indicated, in the absence of which, it would be presumed that all taxes are inclusive and would be calculated accordingly. No further clarification/request in this regard would be considered.
5. Supply is to be made by any convenient mode of transport at supplier's risk unless otherwise specified.
6. In case the material is supplied through an authorized agent, manufacturer or agent or both shall be responsible for the successful installation of the equipment. The manufacturer shall be liable to any penal action for the shortcomings of the authorized agent. Any payment that is to be made separately to the agent if any shall be clearly mentioned in the quotation.
7. The bid should be accompanied with earnest money in rupees as mentioned against each of the equipment in the form of crossed Demand Draft/Pay Order in favour of Director, IASRI, payable at New Delhi on any Nationalized Bank, without which the quotation will not be entertained. No other form of deposit will be accepted. There will be no exemption for paying earnest money. However, Firms registered with the Central Purchase Organization/NSIC only are exempt from submitting bids without EMD (proof of registration must be attached therefore without which it will not be considered).  
In case, therefore, if any tenderer fails to deposit the Earnest Money the tender will be rejected straightway.

8. The EMD shall be refunded to the unsuccessful bidders after finalization of the quotation. In case of successful bidder, it can be adjusted towards security deposit which is 10% of the order value for the equipment/goods costing Rs.1.00 lakhs or more. there would, however, be no performance security deposit for equipment/goods costing less than Rs. 1.00 lakhs.
9. One year warranty has to be invariable provided by the firm or more as the case may be here in as mentioned in the specification.
10. The rates should be quoted in complete rupees (No fraction) both in figures and words. No overwriting or erasing will be allowed, if so the cutting may be signed by tenderer.
11. The quantity given in the schedule is approx. which may be increased or decreased.
12. Payment will be made by mode of e-payment to the supplier/firm after satisfactory completion of work and receipt of pre-receipt bills triplicate.
13. The Director IASRI, New Delhi reserves the right to accept or reject any or all the quotations either in full or in parts without assigning any reason.
14. Quotations not complying with the above conditions are liable to rejected.
15. Sealed quotations should be put in the “quotation Box” placed at the Ground Floor in the Old NCAP Building (Near Caretaker Room) of the IASRI, New Delh-12
16. TIN/VAT/PAN/C.S.T. Nos may be given on the Quotation.
17. Supply, Installation and Commissioning of LAN Switch/WiFi/Routers Cables & Installation at the site specified by IASRI.
18. Complete installation at desired site and functioning of equipment’s as per specification will be the responsibility of the Bidder.
19. The price quoted in the bid should include all cost for supply, installation and its related services of the related items.
20. OEM has provide technical support for configuration, all the features, usages, demonstration as per need of IASRI.
21. All the cables, connectors, any related items has to be provided from by the supplier. No additional items will be provided by IASRI.

22. Vender may visit for checking the feasibility of installation, requirement etc.
23. Manufacturer Authorization as per Annexure-II is mandatory.
24. Vendor has to Quote the rates for two years AMC by year-wise, AMC will be valid after warranty.
25. AMC Charges will not be paid in advance.

**Documents required with the technical Bids for evaluation of equipment specifications**

- a. Copy of the Registration of firm
- b. Copy of PAN Card and TIN number
- c. Valid authorization certificate of Manufacturers/Principal
- d. Required EMD in favour of Director IASRI may be enclosed. If exempted, valid NSIC certificate issued for exemption of EMD must be enclosed
- e. Users list
- f. Other conditions as enumerated under the captioned General Terms & Conditions and terms & conditions for bidder in the given technical specifications details.

S.No	Description	Qty.	File No	EMD
1	LAN Switch/WiFi/Routers Cables & Installation (As per Specification enclosed)	01 No.	36(19)/2016-CPS	10000/-

IASRI website: [www.iasri.res.in](http://www.iasri.res.in) Contact No.011-25847121-23 Ext. No.4130

ASSTT. ADMINISTRATIVE OFFICER

**PART-A . Technical Specification (In separate sealed envelope)**

**Extension of Wi-Fi Wireless Solution**

**I. Requirements**

<b>Existing Setup</b>	<b>Compliance (Yes/NO)</b>
<ul style="list-style-type: none"> <li>a. IASRI has already Fortigate 600C Wi—Fi controller having 42 (32indoor 710 Outdoor) Access Points.</li> <li>b. Wi-Fi expansion in Premise building blocks and their open area. All open and close area should be in rage of Wi-Fi.</li> <li>c. AP are to be installed in various buildings of this institute premises. Wall of buildings are made of cement, bricks and iron pillars.</li> <li>d. Wireless signal strength should properly reach to defined area of all the rooms of the building. If required addition APs to be provided by the supplier.</li> <li>e. Wireless client should minimum of 300Mbps connection speed.</li> <li>f. Supplier has to decide the type of AP like indoor, outdoor, extra antenna etc. to provide the signal strength of Wi-Fi.</li> <li>g. All the supplied items, with full features, should have complete relative licenses from day one.</li> <li>h. AP must support indoor/outdoor functionality but there shouldn't be any support for Remote Access points.</li> </ul>	

**II. Access Point (20)**

<b>S. No</b>	<b>Feature /Item</b>	<b>Compliance (Yes/NO)</b>
1.	<b>Quantity – 20 Indoor AP's(Dual Radio 600 MBPS (With Licenses)).</b>	
2.	<b>Make &amp; model: supplier need to define</b>	
3.	The APs should be single/double Radio for Indoor and outdooruseandshouldsupportthe802.11b,802.11gand 802.11nstandards as per qty mentioned above.	
4.	The access points should be centrally managed.	
5.	In some small isolated environments the AP should be able to function as a stand-alone access point without the requirement of a controller.	
6.	The access points may be placed on the same LAN as the controller or on a remote network across a WAN.	
7.	Security mechanisms should be in place to protect the communication between the Access Point controller and the Access Points	

8	Since most radio interference come from the WLAN network itself the vendor should mechanisms to detect and mitigate 802.11 and non 802.11 interference ( like Bluetooth, microwave etc)	
9.	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	
10.	The equipment should support DFS and should be at least EN 301893v1.5.1 compliant.	
11.	The access point should be operational even in situations where it is not connected to an Ethernet port. It should be able to reach the network using a radio link with other access points. The establishment of those radio links should be automatic.	
12.	All the indoor access point antennas should be in the access point enclosure to minimize damage.	
13.	Outdoor AP should have external omni directional antenna for 2.4 and 5 ghz .	
14.	The access point should have anti-theft mechanisms.	
15.	The access point should support 802.1q VLAN tagging	
16.	The AP should be manageable on at aged VLAN.	
17.	The solution should support indoor and outdoor AP management from the same controller.	
18.	The access point should support WPA2 enterprise authentication and AES/CCM Pencyption.	
19.	Implement Wi-Fi alliance standards WMM,WMM-PS,802.11hand802.11e	
20.	Support RF auto-channel selection by the following methods: <ul style="list-style-type: none"> <li>• Measuring energy levels on the channel.</li> <li>• Monitoringfor802.11signalstructures.</li> </ul>	
21.	Channelselectionbasedonmeasuringthroughputcapacityinrealti meandswitchingtoanother channel should the capacity fall be low the statistical average of all channels without using background scanning as a method	
22.	Indoor Device antenna gain must beat least2.5 d Bi on 2.4 ghz and 5 d bi on 5 ghz.	

### III. Switch PoE (Qty-02)

S. no.	Feature	Compliance (Yes/NO)
1.	Switch proposed should have minimum 24x GE RJ45 ports and 4x GE SFP ports	
2.	Proposed switch should have minimum 24 PoE Ports (802.3af/802.3at) with a PoE Power budget of 370W	
3.	Proposed switch should have a Dedicated Management port (10/100)	
4.	The form factor of the proposed switch should be 1 RU rack mountable	
5.	Proposed switch should have a RJ-45 Serial console port	
6.	Switching capacity of the proposed switch should be minimum 56 Gbps	
7.	Packet per second capacity of the switch should be minimum 83 Mpps	
8.	<b>RFCs supported</b> :RFC 2571 Architecture for Describing SNMP Framework , DHCP Client, RFC 854 Telnet Server, RFC 2865 RADIUS, RFC 1643 Ethernet-like Interface MIB, RFC 1213 MIB-II, RFC 1354 IP Forwarding Table MIB, RFC 2572 SNMP Message Processing and Dispatching, RFC 1573 SNMP MIB II, RFC 1157 SNMPv1/v2c, RFC 2030 SNTP	
9.	<b>Proposed switch should support:</b> 802.1x Port Authentication MAC Address-Based Authentication MAC Black/White Listing DHCP Relay/DHCP Snooping S Flow	
10.	<b>Supported Switching features</b>	
	a. Jumbo Frames	
	b. Auto-negotiation for port speed and duplex	
	c. IEEE 802.1D MAC Bridging/STP	
	d. IEEE 802.1w Rapid Spanning Tree Protocol	
	e. IEEE 802.1s Multiple Spanning Tree Protocol	
	f. Edge Port / Port Fast	
	g. IEEE 802.1Q VLAN Tagging	
	h. Private VLAN	

	i. IEEE 802.3ad Link Aggregation with LACP	
	j. Uni cast/Multicast traffic balance over trunking port (dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac)	
	k. IEEE 802.1AX Link Aggregation	
	l. IEEE 802.3x Flow Control and back-pressure	
	m. IEEE 802.3 10Base-T	
	n. IEEE 802.3u 100Base-TX	
	o. IEEE 802.3z 1000Base-SX/LX	
	p. IEEE 802.3ab 1000Base-T	
	q. 802.3 CSMA/CD Access Method and Physical Layer Specifications	
	r. Storm Control	
	s. MAC and IP based VLANs	
11.	<b>Management</b>	
	a. Telnet/SSH	
	b. SNMP v1/v2c/v3	
	c. SNTP	
	d. LLDP (Receive and transmit)	
	e. Standard CLI and web GUI interface	
	f. Support for HTTP REST APIs for Configuration and Monitoring	
	g. Should support Switch POE Control	

#### IV. Rack (Qty-01)

S. no.	Feature	Compliance (Yes/NO)
1	Wall mount Network Rack Min 3u Cabinet	

**V. General Conditions**

<b>S. No.</b>	<b>Item</b>	<b>Compliance (Yes/NO)</b>
1.	<p><b>Scope of work:</b></p> <ul style="list-style-type: none"> <li>i. Supply, Installation and Commissioning of Access Points, CAT5e/6 network cable, RJ-45, IO assembly, GI pipe, Conduit, cable laying etc., as per requirement of the solution, at the site specified by IASRI.</li> <li>ii. Site location in the premises of IASRI are: Sukhatme Hostel, International Training Hostel and Warden Bungalow.</li> <li>iii. OEM has to provide technical support for configuration, all the features, usages, demonstration as per need of IASRI.</li> <li>iv. Supplier has to integrate the supplied items into existing Fortigate 600C controller. Existing features should remain intact and fully compatible with existing Wi-Fi setup and LAN.</li> <li>v. In case of any civil work of cutting of roads, walls etc. the supplier has to restore the near about original stage of road, wall etc.</li> <li>vi. All the cables, injectors, connectors, any other related items have to be provided by the supplier. No additional items will be provided by IASRI.</li> <li>vii. Reallocation of existing AP along with networking to meet the signal strength.</li> </ul> <p><b>Vender may visit the site to understand the requirement of Wi-Fi implementation.</b></p>	
2.	<p><b>Manufacturer Authorization Form (MAF)</b> MANUFACTURERS' AUTHORISATION FORM required to be submitted as per ANNEXURE-II</p>	
3.	<p><b>Warranty:</b> One year one site comprehensive.</p>	



MANUFACTURERS' AUTHORISATION FORM

No. Dated \_\_\_\_\_

To

Tender No. \_\_\_\_\_

Dear Sir:

We who are established and reputable manufacturers of *(name and descriptions of goods offered)* having factories at *(address of factory)* do hereby authorize M/s *(Name and address of Agent)* to submit a bid, and sign the contract with you for the goods manufactured by us against the above tender.

We hereby extend our full guarantee and warranty as per the tender No. \_\_\_\_\_ for the goods and services offered for supply by the above firm against this tender.

Yours faithfully,

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Mobile: \_\_\_\_\_

Email: \_\_\_\_\_

Name of manufacturers \_\_\_\_\_

Note: *This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.*

**PART-B. Commercial Schedule (In separate sealed envelope)**

<b>S. No.</b>	<b>Item</b>	<b>Price /Per unit (Rs.)</b>	<b>Qty</b>	<b>Total Price (Rs.)</b>	<b>Taxes (Vat/Service Charges etc.) (Rs.)</b>	<b>Grand price inclusive of all the taxes and services (Rs.)</b>
1.	Access Point					
2.	Switch 24 port PoE					
3.	Network Rack					
4.	Installation and Scope of Work					

Any other Information/ Remarks .....

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Signature and Seal of Company

**I.C.A.R.-INDIAN AGRICULTURAL STATISTICS RESEARCH INSTITUTE  
LIBRARY AVENUE : PUSA : NEW DELHI-110012.**

F.No. 36(19)/2014-CPS

Dated the-----

**Financial Bid**

**Last date for receipt of Quotations : 25.01.2017 up to 1.00 PM**

**Date of opening of Quotations : 25.01.2017 (02.30 PM) (Technical Bid only)**

**At Room No. 508, Central Purchase Section,  
Fifth Floor Trg. Cum Admn. Block,  
IASRI Complex, Library Avenue,  
Pusa, New Delhi – 12.**

**To  
The Assistant Administrative Officer,  
IASRI, Pusa,  
New Delhi-110012**

Sir,

I/We wish to submit our Tender for **Purchase of LAN Switch/Wi/Fi/Routers Cables & Installation at IASRI, Complex, Pusa, New Delhi.**

<b>Sl.No.</b>	<b>Particulars</b>	<b>Rate(s)</b>
1.	Purchase for <b>LAN Switch/Wi/Fi/Routers Cables &amp; Installation</b> at IASRI complex, PUSA, New Delhi as specified in Quotations terms & conditions and scope of work in the quotations including all material, transportation specially covered all the acts and taxes VIZ service Tax, Income Tax, VAT, Turnover Tax and other taxes as applicable from time with highest standard of services.	

I/We agree to forfeit of the earnest money if I/We fail to comply with any of the terms and conditions in whole or in part lay down in the tender form.

We have carefully read the terms and conditions of the tender and are agreed to abide by these in letter and spirit.

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

**Name & Address of the Firm** \_\_\_\_\_

**Telephone No.**\_\_\_\_\_

**E-mail ID:**

**ICAR-INDIAN AGRICULTURAL STATISTICS RESEARCH INSTITUTE  
LIBRARY AVENUE, PUSA NEW DELHI-110012**

F.No:36(19)/2014-cps

Dated: 29.12.2016

**QUOTATION FOR PURCHASE OF LAN Switch/Wi/Fi/Routers Cables & Installation  
(PART-A TECHNICAL & OTHER INFORMATIONS)**

(Please provide the information on the following giving all relevant details. In case sufficient space is not available use separate sheets & also enclose documentary proof)

SCHEDULE: Last Date of Receipt of Quotation : 25.01.2017  
(up to 1.00 PM)

Date & Time of Opening of Quotation : 25.01.2017  
(Technical Bid only) ( 02.30 PM )

<b>S.No.</b>	<b>Information</b>	<b>Details</b>
i.	Name and address of Firm	
ii.	Earnest Money of Rs. 10,000/- Deposited (Yes/No)	
iii.	List of valued customers enclosed (Yes/No)	
iv.	TIN/VAT No.	
v.	PAN NO.	
VI.	Status of the firm (Proprietary/Limited firm/Pvt.Ltd.)	
vii.	Are you authorized service provider of a reputed Firm (If yes, please give details and enclosed copy of authorization)	
viii.	Any other information	
ix.	Bank Details	

Certified that the above information is correct and the firm is willing to accept all the term and conditions of the tender document.

SIGNATURE .....  
NAME .....  
ADDRESS .....  
PHONE NO.....

