

Ref:NCB/CA20-108/201496

February 12, 2021

ENQUIRY

=> By Speed Post/Courier

Dear Sirs

Please let us have your Quotation for the following:

S.No.	Item Description	Qty	UOM
1	Indoor AP (as per specifications attached)	24.00	NO
2	Mounting kits/ Brackets	24.00	NO
3	Access Point 3.yrs Support and Warranty	24.00	NO

1. The quotation shall be submitted in a sealed envelope duly superscribed with the enquiry number, and the due date for Ref No: 201496. The bids should be addressed and to be mailed/couriered (sent by post/courier) to 'THE HEAD-PURCHASE'.

The bids are liable to be rejected if the sealed envelope is not addressed to "THE HEAD-PURCHASE? with Tender Ref No. and Item Description and due date. The bids delivered in person shall be dropped in Purchase Section. If the bids are sent through courier or mail, it should reach by submission date and time and NCBS will not be responsible for the delay.

2. DUE DATE FOR SUBMISSION OF QUOTATION AGAINST THIS ENQUIRY IS 01/03/2021 BY 5.30PM.

3. QUOTATIONS RECEIVED AFTER THE DUE DATE SHALL BE REJECTED.

4. The validity of your quotation should be for 60 days from the due date.

5. All duties, taxes, surcharge and cess as currently applicable must be stated in your quotation, separately. Otherwise your quote is liable to be rejected.

6. Your quotation should indicate delivery period & warranty period.

7. Delivery to be made to our stores. Please indicate charges, if any extra. Transit Insurance should be done upto NCBS Stores.

8. If you are unable to supply the quality, specifications or brand as mentioned in our enquiry, please state so and then offer alternative to quality/specifications.

9. Payment: within one month after delivery & acceptance/satisfactory installation.

10. Please ensure that the enquiry number and the due date is superscribed on the envelope failing which your quotation is liable to be rejected.

11. Since we are a public funded research institution, we are exempted from paying Customs duty (Except ad valorem duty of 5% + 2% Cess and 1% Cus Sec & High Edu. CESS vide Notification No.51/96 with latest amendments) and excise duty vide Notification No. 10/97 CENTRAL EXCISE dated 01-03-1997 for all scientific equipments, technical instruments, equipments (including computers), their accessories, spares, consumables and software. Hence, please offer your prices

12. If the item is covered under DGS&D rate contract, please quote the rate as per the DGS&D rate contract with xerox copy of the DGS&D order.

13. Any dispute or differences that may arise between the parties shall be referred to the sole arbitration of the Centre Director or his nominees. The decision of the arbitrator shall be final and binding on the parties. The venue for arbitration shall be Bangalore. The provisions of the Arbitration and Conciliation Act, 1996 as amended from time to time shall apply. The courts in Bangalore shall have exclusive jurisdiction to deal with any or all disputes between the parties.

14. TIFR is a public funded research institute and is entitled to concessional rate of GST @ 5% for certain items supplied for reresearch purpose vide notification no. 47/2017 and 45/2017 dated 14th Nov, 2017. The offer should be submitted after fully considering the above notification.

15. Liquidity Damages: If the equipment/ items as per specifications in our P.O. is not supplied (shipped) within the specified delivery schedule, then liquidated damages (not in terms of penalty) will be imposed automatically and shall be deducted from the bill at the rate of 0.5% per week subject to a maximum of 10% of the order value.

16. Income Tax at the applicable rates as per the Indian Income Tax Act 1961 will be deducted at source for the services availed / ordered. In case of service provider, the rate of tax deduction shall be at 2% as per Section 194C, and in case of fee for professional / technical services under section 194J, the tax reduction shall be at the rate of 10%. In case service provider does not provide PAN number, the deduction shall be at 20% under section 206 AA.

-Tax Deduction Certificates will be provided on request for non PAN holders & Foreign Vendors and PAN holders could avail them through NSDL site dealing with 26AS.

Yours faithfully
For and on behalf of
National Centre for Biological Sciences


Head Purchase

Specifications for Enquiry 201496/20-21(L)

	Indoor AP
1	Hardware
1.1	Access Points proposed must include radios for 2.4 GHz and 5 GHz with 802.11ac
1.2	LED should be available for activity indication
1.3	Must have 2x IEEE 802.3 Gigabit Ethernet auto-sensing
1.4	The access point must have integrated antenna
1.5	The access point should support one PoE out port
2	802.11 ac features
2.1	Must support 4x4 multiple-input multiple-output (MIMO) with four spatial streams
2.2	Should have triple Radios
2.3	Should support 795 Mbps on 2.4GHz radio and up to 2.1 gbps on 5GHz radio
2.4	Should support 20,40 and 80 MHz Channels
2.5	Should support unlocked radio for Data or Dual-band 802.11 WIDS/WIPS and Location Service
2.6	Should support Advanced forward error correction coding
3	Radio Features
3.1	Radios specification:-DSSS, OFDM, MIMO, MU-MIMO
3.2	Legacy support 802.11a.b.g.n networks
4	Networking features
4.1	The access point or the controller should be capable of running a local DHCP Server
4.2	Access points must support a "controllerless" mode where one AP will provide full RF and network management.
4.3	Access points must provide automatic redundancy in case a site controller fails
4.4	The access point should support captive portal and local data base for authentication
4.5	Must have an dynamic or smart RF amangement features which allows WLAN to automatically and intelligently adapt to changes in the RF environment
4.6	WLAN Solution should support Mesh capabilities
5	Roaming Features
5.1	Along with a controller the Access Points should support fast roaming feature
5.2	Security features
5.3	The WLAN solution should have comprehensive integrated security features that include layer 2-7 stateful packet filtering firewall including for branch and remote offices.
5.4	The access point should provide wireless IPS sensor support
6	The WLAN Solution should support IP filtering and NAT
6.1	WLAN solution must support Application Visibility Control (Deep Packet Inspection)at both Controller and AP level
6.2	WLAN solution must support personal and enterprise WPA2 authentication for a staff WLAN concurrent with open access public WLAN
7	Security solution must provide Rogue AP detection by comparing the MAC address forwarding tables in common enterprise class Ethernet LAN switches
7.1	Security solution must provide air termination of Rogue APs
7.2	WLAN AP should have IP filtering, NAT, 802.1x, 802.11i, WPA2, WPA Triple Methodology Rogue Detection:
7.3	24x7 dual-band WIPS sensing, on-board IDS, captive portal, IPsec and RADIUS Server
8	Management Features
8.1	WLAN solution should provide features that provides no touch AP discovery, adoption, provisioning
8.2	WLAN solution should provide features that provides other management functions including firmware push and statistics
8.3	Access points must support autonomous mode
8.4	Must support telnet and/or SSH login to APs directly for troubleshooting flexibility,RJ45 serial port for console
8.5	Access points should be supported with single image on cloud,site controller and virtual controller without change in hardware.
10.1	Power
11	Integrated PoE Support
11.1	QOS Support
11.2	The Access Points should support WMM,WMM-UAPSD,802.1p,Diffserv and TOS
11.3	Support for Voice-over-wireless LAN (VoWLAN) quality of service (QoS) ensures toll quality, even with many simultaneous calls on a single access point.
12.1	The AP should be capable of working as a virtual controller for location where the number of AP's is less than 58
12.2	AP's configured as Virtual Controller should also perform the function of an AP.
13.3	Access points must provide automatic redundancy in case a site controller fails
	Certification
13.1	Access points must have WiFi Alliance certification for 802.11n and 802.11ac
13.2	Access points must have WiFi Alliance certification for WPA2 Enterprise
	Support
14.1	Access points must be supported for a minimum of 3 years by the hardware vendor with NBD warranty
14.2	OEM must be in the latest Gartners quadrant in Leaders category
14.3	The OEM should have R&D centre in India for min Last 5 Years. The OEM should have TAC centre in India with India Toll free number – reflected in Official website.OEM should be in Gartner leaders Magic quadrunt.
15	AP's should be compatible with existing controller
16	Vendor should have local presence in Bangalore
17	MAF should be submitted along with the quote