

Ref: C-CAMP/L-132/2021-22 (C)

September 22, 2021

ENQUIRY

Dear Sirs,

Please let us have your lowest quotation for the following:

Sl.No.	Item/s description	Qty.
1	Wifi Access points Specifications sheet attached.	5 Nos.

Note:

1. The quotation shall be submitted in a sealed envelope duly superscribed with the enquiry number, and the due date for Ref No:..... 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 CCAMP/NCBS will not be responsible for the delay.

2. DUE DATE FOR SUBMISSION OF QUOTATION AGAINST THIS ENQUIRY IS 07/10/2021 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 CCAMP 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. 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.

12. 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.

13. Since we are a 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.

14. 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.

15. CCAMP is a public funded research institute and is entitled to concessional rate of GST @ 5% for certain items supplied for research purpose vide notification no. 47/2017 and 45/2017 dated 14th Nov,

2017. The offer should be submitted after fully considering the above notification.

16. 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.

17. 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



Chetana S. R.

GKVK, Bellary Road, Bangalore 560 065. India
Phone +91-80-23666344. Fax+91-80-23636662
chetana@ncbs.res.in . www.ccamp.res.in

Specification / Requirement

- The APs should support the 802.11a, 802.11b, 802.11g and 802.11n, 802.11ac and 802.11ax standards. Simultaneous client support on dual band radio is essential.
- Shall provide Min 25 dBm Radio output power for both Radio's.
- Should support minimum 2x2:2 or higher MIMO on both radio bands for an aggregate capacity of around 1700
- AP should be flexible hardware to be deployed as Standalone, Controller-less (Cluster), Controller-based, Cloud-
- It should have adaptive antenna technology for performance optimization and interference mitigation features.
- Antenna should provide Extended coverage utilizing multi-directional antenna patterns. Access point to have Polarization Diversity with Maximal Ratio Combining (PDMRC).
- Antenna should dynamically choose antenna patterns in real-time environment to establish the best possible connection with every device. Should support at least 50 antenna patterns combinations.
- 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.
- 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.
- The access point should have minimum 2 x 1 Gigabit Ethernet port
- The access point should support 802.1q VLAN tagging
- The access point should support IOT based technologies such as Bluetooth, zigbee either inbuilt or using an external usb module.
- The access point should support WPA2 and WPA3 enterprise authentication and AES/CCMP encryption. AP should support Authentication via 802.1X and Active Directory.
- Implement Wi-Fi alliance standards WMM, 802.11d, 802.11h and 802.11e
- Should support the following channelization - 20MHz, 40MHz, 80MHz
- The Access Point should provide for concurrent support for high definition IP Video, Voice and Data application without needing any configuration.
- Antenna should direct the radio signals per-device on a packet-by-packet in real-time to support high device density environments. Should have 3 dBi gain. Antenna operates without the need for device feedback to support devices using legacy standards.
- 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.
- The access point should support application recognition and control
- AP should be able to act as sensor for WIPS, Location analytics engine and Network analytics engine.
- Should support 1GB RAM and 512 MB flash
- Should support upto 30 simultaneous Voip clients
- Should support min 500 clients per AP or more
- AP should have recovery SSID for easy access to CLI console when AP is unreachable through network.
- AP should support DHCP and NAT
- Should support tunneling such as Layer 2 Tunnelling protocol and Generic routing Encapsulation.
- Should support meshing technologies where cable infrastructure may not be available
- Shall support 30 SSID's per AP.
- Shall support 1 USB port also.
- Operating Temperature: 0°C - 45°C
- Operating Humidity: 10 % - 95% non-condensing.
- Should be plenum rated and comply to RoHS
- Should be WiFi certified; WiFi certificate to be enclosed
- Should be WPC approved; ETA certificate to be enclosed

Should support the following standards - WEEE & RoHS, EN 60950, EN 61000

Device should be UL 2043 Plenum Rated.

Device should be compatible with Existing controller (Ruckus)

MAF is to be submitted mandatorily

Vendor should have Local presence at Bangalore

Onsite warranty of 3.yrs

The warranty should be directly from the OEM.

Delivered product serial number should be reflected on the OEM website for warranty check.

Warranty should start from the date of delivery.

Necessary Mounting brackets should be supplied along with the device and installation charges to be considered