

## General Instructions

1. Objective of this work is to extend the college wifi connectivity to the class rooms and corridors of the newly constructed CSE annexe, Mechanical Block, Electrical Engineering Block, Civil Structural Block.
2. Bidders may visit the college premises before quoting. The required accessories to be supplied along with Active and Passive. No extra fund will be allotted for the same

## Bidder Qualifications

- 1 Bidder should be a OEM or Authorized Distributor of OEM
- 2 If the bidder is an authorized Partner / Distributor of respective OEM, Bidder should submit authorization letter (MAF) from respective OEMs.
- 3 Bidder should be a registered Company in India and existing for the past 5 years in India
- 4 Bidder should have a valid IS 9001:2015 certificate
- 5 Valid Service Tax/ Sales Tax Registration Certificates from concerned authorities
- 6 Bidder should have Direct Office & Service Centre in Kerala
- 7 Bidder should not have been blacklisted from any of the government or public sector undertakings in India
- 8 Bidder should have completed similar 3 installations

## Detailed Specification and Requirements

<b>Active</b>	
<b>I. Supply, installation and commissioning of indoor Wireless access points compatible with existing Ruckus Smart100 wireless controller along with License</b>	
<b>Access Point</b>	
Wifi Standard	IEEE 802.11/a/b/g/n/ac/ax
Channels	2.5Ghz and 5 Ghz
Antena	MIMO 2X2 SU, MU
Security	WPA-PSK, WPA-TKIP, WPA2 AES, WPA3-Personal, WPA3-Enterprise
Transmission Power	2.4GHz: 26 dBm ; 5GHz: 25 dBm or compatible
Compatibility	Compatible with existing controller Ruckus Smart100 and also interchangeable with existing AP Ruckus R510/R550
License	AP License applicable to Ruckus Smart100
Support	Minimum 3 Year Support
Accessories	Secure Mounting bracket with accessories
<b>Passive</b>	
<b>II. Supply, laying, connecting CAT6 UTP cable through the ISI marked 25mm white PVC conduit and other accessories including IO box as and when it is required</b>	
Cables	CAT 6 UTP, 4 Pair, 23AWG
I/O Box	Single I/O port with all accessories (Back box, Faceplate, Keystone etc..) to connect the AP. Laying Termination, all

	fixing
Conduit	25mm PVC Conduit with all accessories
Patch cord	1 Mtr Patch cord
<b>III. Supply, laying, splicing and connecting 6 Core fiber cable along with required LIU, Pigtails, fiber patch cords and other accessories</b>	
Fiber	6 Core armoured fiber for overhead cabling with support wire and required splicing
LIU	Supply and fixing of required number of port
Terminations	Splicing and terminations as and when it is required
Accessories	Supply and installation using all the required accessories like Pug tail, coupler etc..

### Compliance Sheet

Bidder	
OEM/Distributor	
Address for communication	
Contact Person	
Phone No.	
Email ID	
ISO Certificates	
Year of Incorporation	
Details of Prior works	

Required	Quoted	Variation if any
<b>1. Wireless access point and its accessories</b>		
Make & Model		
IEEE 802.11/a/b/g/n/ac/ax		
2.5Ghz and 5 Ghz		
MIMO 2X2 SU, MU		
WPA-PSK, WPA-TKIP, WPA2 AES, WPA3-Personal, WPA3-Enterprise		
Compatible with existing controller Ruckus Smart100 and also interchangeable with existing AP Ruckus R510/R550		
AP License		
3 years Support		
Mounting Bracket		