

Pre- Bid Queries and their response

Technical Specification of Wireless Outdoor Access Point Specifications - 132 Nos.						
S.No.	Bidder Name	Access Point Specifications		Changes Required	Remarks from JakeGA, IT Deptt	
1	M/s BIPS Systems Limited	Dual-Band 802.11ac Wave 1 or better access points (meshed or wired). The directional angle for Wi-Fi signal dissemination is expected to be 120 degree with minimum of 150 Ft directional reach.				
2		The APs should support the legacy 802.11b/g/n standards also in the 2.4 and in the 802.11a/n in 5 GHz Dual bands				
3		Radio chains: streams 2x2:2. Min transmit power 28dBm for both bands or better				
4		Access Point should be support directional integrated antenna .				
5		The access point should provide aggregate 1 Gbps or more data-rate.				
6		AP shall have minimum 2 Gigabit Ethernet ports. With support for 10 /100/1000 Mbps with Full duplex support				
7		AP should be able to function as a stand-alone access point without the requirement of a controller				
8		The APs Should be Support Wall/Pole mounting bracket				
9		The access points should be centrally managed				
10		AP should have -20 to +60 degree operating temperature.				
11		AP should operate with 802.3af POE power with full MIMO.				
12		AP shall be IP67 rated for operation in harsh outdoor environment of winter and summer.				
13		AP shall support LED visual status for device operation status and device status managed from controller				
14		AP should provide power-over-ethernet to another device on its auxiliary ethernet port				
15		AP shall support minimum antenna gain of 10 dBi for 2.4 GHz radio and 12 dBi for 5 GHz radio for Directional Antenna device				
16		AP shall support LTE co-existence with filter for rejecting interference on 2.4 GHz from adjacent LTE bands 38, 40 in out door deployments				
17		AP should support up to 255 concurrent client associations				
18		AP shall support Hotspot 2.0 (Passpoint)				
19		AP shall support WPA-2 (802.11i) security: WPA2-Enterprise (802.1x/EAP) & WPA2-Preshared-keys, Open authentication mechanisms				
20		AP shall support MAC authentication for upto 1000 Mac per SSID. MAC authentication data base can be local to AP or at remote RADIUS server				
21		AP shall support per client and as well per SSID rate limiting				
22		AP shall support Wi-Fi WMM for traffic prioritization and UAPSD for power save.				
23		AP shall support airtime fairness				
24		AP shall support simultaneously MESH mode to serve MESH connection requirements and also regular WLAN for wireless clients to association				
25		AP shall support MESH mode operation both on 2.4 GHz and 5 GHz bands				
26		AP shall support Wi-Fi WMM QoS over MESH link				
27		AP shall support layer 3 and layer 4 ACLs on MESH link for traffic control				
28		AP shall support to drop L2 and L3 multicast and broadcast traffic on MESH link to minimize network congestion				
29		AP should be Wi-Fi certified for WMM, WPA2, PMF, 802.11n, 802.11ac				
30		FCC, CE EN 60601-1-2 (Medical EMC) UL2043 Plenum rated			Removed UL2043 Plenum Rated as it is indoor wifi product certification.	Accepted however pig tail cable used must be plenum rated.
31		AP shall support wall and pole mounting included				
Technical Specifications of Large Display Technical						
S.No.	Bidder Name	Technical Specification of Large Monitor Commercial Series Display – Type 1				
32	M/s BIPS Systems Limited	Screen Size	55 Inch Smart 4K Ultra HD TV			

33		Compute	64-bit quad-core processor, 2GB RAM + 8GB Storage	Remove 64 bit. Add 1.7ghz	Accpeted. May be read as 1.7 Ghz Quad Core Processor with 2GB RAM + 8GB Storage
34		Platform	3840 X 2160		
35		Aspect Ratio	16:09		
36		Brightness	350 nits or higher		
37		Contrast Ratio (Typical)	5000:01:00 or higher	from 5000;1 to 4000:1	Accepted.
38		Viewing Angle (H/V) and Refresh Rate	178 Deg & 60Hz		
39		Response Time	6ms	response time from 6ms to 8m	May be read as 6ms or higher
40		Connectivity	USB :2, AV:1, HMDI: 3, Ethernet:1, Wi-Fi Support, S/PDIF Out:1, Bluetooth Support	Ports- AV-delete. HDMI - 3 to 2. S/PDIF- remove	Accepted.
41		Video Decoder	MPEG1/2/4, VP8/VP9/VC1, H.264, H.263	Video decoder - function of home tv	
42		Image Decoder	PNG, GIF, JPG	Image decoder function of home TV	
43		Audio Decoder	DTS, FLAC, AMR, AAC, OGG	Audio decoder function of home TV	
44		Power Supply	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz		
45		Environmental Conditions			
46		Operating Temperature	0 ~ 45 degree Celsius	Operating temperature- 45 to 40'	Accepted
47		Operating Humidity	20% ~ 80%		
48		Storage temperature	-15 ~ 45 degree Celsius	Storage temp same as operating temp 0 - 40'	Accepted
49		Relative Humidity	<80%		
50		Software	Android Based with inbuilt Chromecast	Software- android to android/tizen or any other open platform	Accepted
51		Speakers	20W stereo speakers		
52		Safety, EMC Certifications-		CE, FCC, UL, EMC class B	Accepted
S No.	Bidder Name	Specification of Interactive Display – Type 2			Changes Required
53	M/s BIPS Systems Limited	The system should be delivered like a fully integrated interactive board with multi-touch 55 inch Edge LED /LCD Display, 1080p integrated camera, Integrated microphone array, integrated speakers, white boarding pen etc.		1080p integrated camera, Integrated microphone array to be remove and Add	Specifications to be followed as per RFP.
54		The system should have viewing angle of +/- 86 degrees, 1:4000 contract.			
55		The system should have an HDMI Input port to connect a PC/laptop, 3.5mm line out.			
56		The system should provide the following functionality – Video conferencing, white boarding and content annotation by the presenter, content sharing and should also act as			
57		The system should provide high quality audio, acoustic echo cancellation, automatic gain control, noise reduction, lip synchronization and voice/face tracking capabilities			
58		The system should have 1080p30fps resolution during video call and content sharing		From 1080p to 3840x2160p	May be read as the system should have 1080p30fps resolution during video call and content sharing
59		The system should be interoperable with the proposed Video conferencing endpoint and MCU solution proposed			
60		The solution would be used for training, briefing etc.			
61		The system should be H.323/SIP, H.264 compliant from day one.			

62.		Object Recognition Range		1 cm	Specifications to be followed as per RFP.
63.		Safety and EMC Certification		CE, FCC, UL, EMC class B	Specifications to be followed as per RFP.
Sr. No.	Bidder Name	Required Modification (Clarification Sought)	Existing Clause	Clause / Page No.	
64.	M/s BIPS Systems Limited	EMD/Tender Fee should be waive off for MSME or NSIC registered organization			Accepted
65.		Form no. 2: Technical Complaine as per the detailed Specification of the Tender clause should be removed and any OEM can't comply		Page No.14	Replies given as above from S.no 1 to 63
66.		As per tech. spec of tender to be changes /added for LFDs and Access point (spec sheet attached to your reference)			RFP to be followed. No Change.
67.		Minimum 8 port PoE switch is not mention in tech spec. of tender which is required to connect of access point.			Access Points can connect on the Router Ports. Further Access Points can be connected together using Mesh Technology. Hence RFP to be followed. No Change.
68.		Delivery Schedule should be 6 - 8 weeks from Letter of Award (LOA)			Delivery of material to be done in Six Week from the date of realease of LOI or Purchase/Work Order.
69.		Complete Installation & Implementation of Projects should be required minimum 8 weeks which shall subject to force majeure condition after deliver of equipment			The Installation to be done in Eight Weeks from the date of realease of LOI or Purchase/Work Order. Any challenges would be taken up at the time of implementaion stage.