



भारत सरकार  
**GOVERNMENT OF INDIA**  
 केन्द्रीय लोक निर्माण विभाग,  
**CENTRAL PUBLIC WORKS DEPARTMENT**



कार्यापालक अभियंता एवं वरिष्ठ प्रबंधक(वै)  
 केलोनिवि., 7वीं मंजिल, सी.जी.ओ बिल्डिंग  
 सी.बी.डी. बेलापूर, नवी मुंबई-400614



O/o. Executive Engineer & Senior Manager (E)  
 CPWD, 7<sup>TH</sup> FLOOR, CGO Complex,  
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दिनांक 19 /03/2025

**Minutes of Meeting of Pre-Bid Conference**

**NAME OF WORK:** Construction of 354 nos. staff Quarters Hostel Building Academic Block, for Reserve Bank of India at Plot No. 1, Sector 7, CBD Belapur (Kharghar), Navi Mumbai.

**SH:** Package 3 work of: - Providing Services of Internal Electrical installations, Fibre to the home (FTTH), Audio Video System (AV), Data Networking System, Solar Photovoltaic System, Home Appliances, Signages, Kitchen equipment, Electric Vehicle Charging station s Access Control including miscellaneous civil works.

**NIT No:** [02/NIT/CE cum ED/EE&SM\(E\)/2024-25](#)

Pre-bid meeting for the above cited NIT for the said work was held on 27.02.2025 (Thursday) at 11.30 am under the chairmanship of Shri. Praveen Kumar Agrawal, CE cum ED Mumbai at Conference Room on 7th Floor CGO Complex, CBD Belapur, Navi Mumbai-400614. The following were present:

**Participants in the Pre-Bid Meeting:**

Sr No.	Name of Representative	Designation
<b>C.P.W.D</b>		
1	Sh. Praveen Kumar Agrawal	CE cum ED, Mumbai
2	Sh. Mukul Kumar	Executive Engineer & Senior Manager- I
3	Sh. Ajeet Nikam	Executive Engineer & Senior Manager- II
4	Sh. Utkarsh Dev	Executive Engineer & Senior Manager (E)
6	Sh. Sandeep Singh	Assistant Engineer (E)
<b>RBI</b>		
1	Sh. Shree Kant Ranjan	DGM (Tech- Elect)
2	Sh. Yogesh K Fasate	AGM (Tech- Civil)
<b>BIDDERS /Agency</b>		
1	Sh. R. Anna durai	Swastik Electrotech
2	Sh. Ashok Sonawane	Swastik Electrotech
3.	Sh. Mayur. Kasare	Allied Telesis Pvt. Ltd
4.	Sh. Ashutosh Shirpukar	Allied Telesis Pvt. Ltd
5.	Sh. Pritam G. Shisode	Godrej Enterprises
6.	Sh. Mohmmad Ali	DERWISER INDIA
7	Sh. Atish. R.Kulye	Blueberry Tech
8	Sh. Viraj Harsora	QSC India
9	Sh. Shrikant H. Dhode	QSC India

[Attendance sheet attached.](#)

Reply to Pre-Bid queries

Sr. No.	Bid Clause No./ BOQ Item No.	Description of Tender Clause/ Description of BOQ Item	Query Raised	Reply of CPWD
<b>M/s Godrej &amp; Boyce Manufacturing Company Limited</b>				
1	PART-D SCHEDULED OF QUANTITIES SUB-Head-II: FTTH	Main Server Room 2.1 Supply installation testing and commissioning of Armoured 12C SM OFC CABLE... 2.2 Supply installation testing and commissioning of Armoured 6C SM OFC CABLE ... 2.3 Supply installation testing and commissioning of 48 PORT FIBER PATCH PANEL ... 2.4 Supply installation testing and commissioning of SINGLE MODEL SC/PC FIBER ... 2.5 Supply installation testing and commissioning of 8 PORT GEAPON OPTICAL LINE TERMINAL... 2.6 Supply installation testing and commissioning of 1:2 SPLITTER WITH SC/PC CONNECTOR LOADED, ... 2.7 Supply installation testing and commissioning of 10 PORT 10/100 LAYER 2 MANAGED SWITCH POE INTERVIAN ...	Make list not available for 4-Port L1 POE Switch	Available in the list of preferred makes. Sl. No 31.
			Make list not available for 8-Port L3 GPON OLT	Available in the list of preferred makes. Sl. No 26.
			Home termination Box 4 port, not in BOQ or specification.	It is to be done in Network Racks as prescribed.
			Joint enclosure not in BOQ	BOQ of respective item is deemed to include all required accessories.
			In BOQ, for FTTH all connections are mentioned as SC/PC, however in the specification in SUB HEAD 2, it is mentioned as SC/APC	BOQ is prevailing.
2	SUB-HEAD – 2 FTTH ADDITIONAL SPECIFICATIONS FOR FTTH, SIP Video Intercom and Smart Alarm.(under page no. 114)	Cables Single Mode 4/6/12 Core Unitube (suitable for both underground and over ground) Of cable Cable to be used from Building-to-Building Connectivity and to be used for Building Shaft and from Shaft to Apartment 4 Core will be both single mode and multi-mode Unarmored 6 and 12 Core cables both single mode and multi-mode will be Armored	Fiber Cables will be Single mode for FTTH Application, it cannot be Multimode.	BOQ is prevailing.

<b>Sub Head-III: Boom Barriers &amp; Door frame metal Detector</b>				
3	General Query		Request to share the SLD for proposed solution to have the understanding of functionality that has to be achieved. And also CAD drawing for each block	Detailed designing shall be done by the agency after award of work.
4	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III : BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.1	Opening/closing time, Maximum Remote Control Distance. Which make is preferred	Opening / closing time of boom shall be as per manufacturers specifications. Refer technical specifications of Boom Barrier. Makes are available in the list of preferred makes S. No 28.
5	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III : BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.2	Page no. 130, Boom Barrier Technical Specifications mentioned: Push button for manual operation 1 Number for 1 boom barrier Which make is preferred	As per the list of preferred makes S. No 28.
6	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III : BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.3	Which make is preferred	As per the list of preferred makes S. No 30.
7	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III : BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.4	Blank	N.A.
8	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III : BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.4.1	Blank	N.A.
9	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III: BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.5	Card Reader range shall be mentioned Which make is preferred	Refer <a href="#">Corrigendum-2</a> . As per the list of preferred makes S. No 30.
10	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III: BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.6	Which make is preferred	As per the list of preferred makes S. No 30.

11	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III : BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.7	Which make is preferred	Available in the list of preferred makes S. No 4.
12	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III : BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.8	Which make is preferred	Available in the list of preferred makes S. No 4.
13	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III : BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.9	Which make is preferred	Available in the list of preferred makes S. No 29.
14	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III : BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.10	Which make is preferred	Available in the list of preferred makes S. No 29.
15	PART-D SCHEDULED OF QUANTITIES SUB- HEAD-III : BOOM BARRIERS & Door Frame Metal Detector,	BOQ ITEM NO. 3.11	It is not mentioned in tender scope, how is it considered.	Since it is mentioned in BOQ, it is included in the scope of work.
<b>Sub head:IV : audio Video</b>				
16	SUB-HEAD – 4 Audio Visuals System, ADDITIONAL SPECIFICATIONS FOR AUDIO VISUALS SYSTEM (under page no.138)	25. Crimp-style shielded RJ45 connector General Specification Supply, Installation, Testing, and Commissioning of 75" 4k Interactive Anti-Glare Panel. • Should have inbuilt 468 RAM and 32GB ..... Miracast functionality from any device	Wrong specification provided for under this section, due to possible copy paste or editing error	Refer Corrigendum-2
<b>SUB-HEAD – 5 DATA NETWORKING</b>				
17	General Query		Request to share the SLD for proposed solution to have the understanding of functionality that has to be achieved. And	Detailed designing shall be done by the agency after award of work. Schematic is provided on page 167 – 169 of NIT

			also CAD drawing for each block	
18	Eligibility of Associate Agencies, line item no. 4		SITC of LAN and Wi-fi system including both active and passive networking components is mentioned. but in data networking BOQ only active part are considered, why?	This work is to be carried out as per terms and conditions of this tender only.
19	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.1	Page no. 167, network architecture suggests to have primary & secondary firewall. Which make is preferred	Work to be executed as per BOQ. For Makes - refer Corringendum-2
20	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.2	Page 157 under clearly mentioned the Performance: min switching capacity of 1900 Gbps and forwarding Rate of min 1000 Mpps , Stacking Bandwidth support of min 400 Gbps Page no. 167, network Architecture suggest to have 2NOS core switch . Which make is preferred	Work to be executed as per BOQ. Available in the list of preferred makes S. No 31.
21	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.3	As per the schematic dwg for networking in Page 167, 168, 169. There is variation in BOQ quantity & switches Quantity in Schematic dwg.	BOQ is prevailing.
22	SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.4	Which make is preferred	Available in the list of preferred makes S. No 31.
23	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO 5.5	Which make is preferred	Available in the list of preferred makes S. No 31.
24	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO 5.6	Blank	N.A.
25	PART-D SCHEDULED OF	BOQ ITEM NO 5.7	under Wireless Lan Controller with Access	Refer Corringendum-2.

	QUANTITIES SUB-HEAD – 5 DATA NETWORKING		Point License(page no. 161), It is clearly mentioned that WLC should support up to 3000 Access point and 10,000 Clients, have 4 x1G Gig Rj-45 interfaces and 4x 10G Rj-45 Ports from day 1. Which make is preferred	Available in the list of preferred makes S. No 32.
26	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.8	under 4x4 - Outdoor Access Point - Wall/Pole Mount (page no. 164), tender specification mentioned the WLAN solution shall propose with latest 802.11ax 4x4:4 MU-MIMO on 2.4Ghz & 8x8:8 MU-MIMO on 5Ghz radio. Access Point must support 1 x 1/2.5/5Gbps autosensing (RJ-45) port. Which make is preferred	Available in the list of preferred makes S. No 32.
27	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.9	under 4x4 - Indoor Ceiling Mount Access Point (page no. 163), tender specification suggest that Access Point shall offer aggregated data rate of min 2.4Gbps or better. Access Point must support 1 x 1/2.5/5Gbps autosensing (RJ-45) port. Which make is preferred	Available in the list of preferred makes S. No 32.
28	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.10	under 2x2 - Indoor Ceiling Mount Access Point (page no. 163), tender specification suggest that Access Point shall offer aggregated data rate of min 2.4Gbps or better. Access Point must support 1 x 1/2.5/5Gbps autosensing (RJ-45) port. Which make is preferred	Available in the list of preferred makes S. No 32.

29	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.11	under 2x2 - Indoor Ceiling Mount Access Point (page no. 163), tender specification suggest that Access Point shall offer aggregated data rate of min 2.4Gbps or better. Access Point must support 1 x 1/2.5/5Gbps autosensing (RJ-45) port. Which make is preferred	Available in the list of preferred makes S. No 32.
30	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.12	Single Mode Fiber SFP Module is suggested Which make is preferred	Available in the list of preferred makes S. No 49.
31	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.13	Which make is preferred	Available in the BOQ description.
32	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.14	FA & PA is not in tender BOQ, how the size of UPS is calculated. & it is suggested the backup time to be 24hrs for FAPA	Work to be executed as per BOQ.
1	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.15	Is 10KVA ups is sufficient. Which make is preferred,	Available in the list of preferred makes S. No 1.
33	PART-D SCHEDULED OF QUANTITIES SUB-HEAD – 5 DATA NETWORKING	BOQ ITEM NO. 5.16	Is 10KVA ups is sufficient. Which make is preferred,	Available in the list of preferred makes S. No 1.
34	General Query		Request to share the SLD for proposed solution to have the understanding of functionality that has to be achieved. And also CAD drawing for each block	Refer Addendum -1
35	PART-D SCHEDULED OF QUANTITIES Sub Head XI (Access Control)	BOQ ITEM NO. 11.1	There is no tender specification for this, Based on what it is considered & Which make is preferred	Makes of Access Control system shall be considered from List of Preferred makes S. No 74

36	PART-D SCHEDULED OF QUANTITIES Sub Head XI (Access Control)	BOQ ITEM NO. 11.2	There is no tender specification for this, Based on what it is considered & Which make is preferred	Makes of Access Control system shall be considered from List of Preferred makes S. No 74.
37	PART-D SCHEDULED OF QUANTITIES Sub Head XI (Access Control)	BOQ ITEM NO. 11.3	There is no tender specification for this, Based on what it is considered & Which make is preferred	Makes of Access Control system shall be considered from List of Preferred makes S. No 74.
38	PART-D SCHEDULED OF QUANTITIES Sub Head XI (Access Control)	BOQ ITEM NO. 11.4	There is no tender specification for this, Based on what it is considered & Which make is preferred	Refer Addendum 1
39	PART-D SCHEDULED OF QUANTITIES Sub Head XI (Access Control)	BOQ ITEM NO. 11.5	There is no tender specification for this, Based on what it is considered & Which make is preferred	Makes of Access Control system shall be considered from List of Preferred makes S. No 74.
40	PART-D SCHEDULED OF QUANTITIES Sub Head XI (Access Control)	BOQ ITEM NO. 11.6	There is no tender specification for this, Based on what it is considered & Which make is preferred	BOQ is prevailing. Makes are available in the list of preferred makes S. No 74.
41	PART-D SCHEDULED OF QUANTITIES Sub Head XI (Access Control)	BOQ ITEM NO. 11.7	There is no tender specification for this, Based on what it is considered & Which make is preferred	Makes are available in the list of preferred makes S. No 4.
42	PART-D SCHEDULED OF QUANTITIES Sub Head XI (Access Control)	BOQ ITEM NO. 11.8	There is no tender specification for this, Based on what it is considered & Which make is preferred	Makes are available in the list of preferred makes S. No 4.
43	PART-D SCHEDULED OF QUANTITIES Sub Head XI (Access Control)	BOQ ITEM NO. 11.9	There is no tender specification for this, Based on what it is considered & Which make is preferred	Makes are available in the list of preferred makes S. No 6.
44	PART-D SCHEDULED OF QUANTITIES Sub Head XI (Access Control)	BOQ ITEM NO. 11.10	There is no tender specification for this, Based on what it is considered & Which make is preferred	Makes are available in the list of preferred makes S. No 14.
45	PART-D SCHEDULED OF QUANTITIES Sub Head XI (Access Control)	BOQ ITEM NO. 11.11	There is no tender specification for this, Based on what it is considered & Which make is preferred	Makes are available in the list of preferred makes S. No 74.
1.00	Smart Classroom Line No. 4.13	Poly G7500 Unit	Not required	Work to be executed as per BOQ.
2.00	Smart Classroom Line No. 4.21	Audac EPA252	Specs mentioned are wrong	Refer Corrigendum-2



3.00	Smart Classroom Line No. 4.23	Tannoy CVS401	Speaker are non dante based which will not work with dante amplifier	Work to be executed as per BOQ.
4.00	Smart Classroom	Control System	Control Processor is not considered	Work is to be done as per the BOQ & Schematic drawing
5.00	Conference Room Line No. 4.30	Samsung-QB55B	55" Display are added for which switcher or splitter may be required	BOQ is prevailing.
6.00	Conference Room		Cable Cubbies not considered , which need to consider	This work is to be carried out as per terms and conditions of this tender only.
7.00	Conference Room Line No. 4.34		Not required	Required as per scope of work
8.00	Conference Room Line No. 4.35	MEB114s	Higher microphone qty considered as per the DSP. Will require multiple DSP. Earlier Ceiling tile mics were used	Work to be executed as per BOQ.
9.00	Conference Room Line No. 4.37	Xilica GIO USB	This is mentioned wrongly as it should be FR-1D	Work to be executed as per BOQ.
10.00	Conference Room Line No. 4.39	Tannoy CVS401	Speaker are non dante based which will not work with dante amplifier	Work to be executed as per BOQ.
11.00	Auditorium Line No. 4.46	Samsung VM55 B-R	Considered videowall, UoM Considered is wrong as its of Active LED. Earlier 12 displays were considered	Work to be executed as per BOQ.
12.00	Auditorium		Digital Podium Is missing	Work to be executed as per BOQ.
13.00	Auditorium Line No. 4.56	Poly G7500 Unit	Not required	Work to be executed as per BOQ.
14.00	Auditorium		GIO XLR is not added	No changes in BOQ
15.00	Auditorium Line No. 4.64	Baso18	Specs mentioned are wrong	Refer Corrigendum-2
16.00	Auditorium Line No. 4.65	Vexo110	Specs mentioned are wrong	Refer Corrigendum-2
17.00	Auditorium Line No. 4.66	ARES5A	Specs mentioned are wrong	Refer Corrigendum-2
18.00	Auditorium Line No. 4.67	SMQ750	Specs mentioned are wrong	Refer Corrigendum-2
19.00	Community Hall Line No. 4.81	SCP224	Specs mentioned are wrong	Refer Corrigendum-2
20.00	Community Hall Line No. 4.82	EPA254	Specs mentioned are wrong	No changes in BOQ
21.00	Multi Purpose Hall Line No. 4.92	SCP224	Specs mentioned are wrong	Refer Corrigendum-2
22.00	Multi Purpose Hall Line No. 4.93	EPA254	Specs mentioned are wrong	No changes in BOQ

23.00	Pre Function Area Line No. 4.101	SCP212	Specs mentioned are wrong	Refer Corrigendum-2
24.00	Pre Function Area Line No. 4.102	EPA254	Specs mentioned are wrong	No changes in BOQ
25.00	Gym Line No. 4.109	SCP212	Specs mentioned are wrong	Refer Corrigendum-2
26.00	Gym Line No. 4.110	EPA254	Specs mentioned are wrong	No changes in BOQ
27.00	Gym Line No. 4.111	EPA252	Specs mentioned are wrong	No changes in BOQ
28.00	Terrace Garden Line No. 4.117	SCP224	Specs mentioned are wrong	Refer Corrigendum-2
1	Subhead-I Internal EI (BOQ Sr. NO mentioned in below)			
1.1	(For Academic Block): Details required like SLD			Detailed designing shall be done by the agency after award of work.
1.2	Avg length per point to be considered?			Refer Addendum-1. To be considered as per the drawings
1.3	Avg length per point to be considered?			
1.19.1	SLD required?			Detailed designing shall be done by the agency after award of work.
1.20.1	Details & SLD required?			
<b>M/s Swastik Electrotech Private Limited</b>				
<b>S.no</b>	<b>Query</b>	<b>Reply from CPWD</b>		
	The time allowed for the work is 4 month. But it is not possible to execute the work within four month.	This work is very urgent. The main work is nearing completion. Hence execution of this work has to be carried out on priority so that buildings can be put to use at the earliest possible. Hence time period could not be increased. Thus, no change in tender conditions.		
<b>M/s. QSC India Private Limited</b>				
<b>S.no</b>	<b>Query</b>	<b>Reply from CPWD</b>		
1	All the Specs are favoring a specific make & model.	The work is to be done as per terms and condition of the tender document and specifications provided for each item. Bidders have been provided with multiple options for carrying out work from the list of preferred makes. Refer Corrigendum-2, note: Point 1.		
2	Kindly consider QSC as well to submit the bid through our partners. QSC is the leading Audio-Video & Control Company	Bidders have been provided with sufficient options for carrying out work from the list of preferred makes. No changes in BOQ		
3	Every OEM has its own standards of equipment which cannot be met by any other OEM.	Refer Corrigendum-2, Point 12.		
4	Kindly consider a Hardware/Software based Control system in all the rooms so more bidders can participate.	Detailed designing shall be done by the agency after award of work.		
5	Kindly Consider Dante/AES67/Similar Network Protocol for all the rooms	Detailed designing shall be done by the agency after award of work.		
6	The Solution is designed without any calculation in terms of audio-video & Control Requirement.	Detailed designing shall be done by the agency after award of work.		
<b>Smart Classroom</b>				
1	The Room wise equipment qty. is required for understanding of BOQ	Already mentioned in BOQ and architecture drawings provided in Addendum - 1		
2	USB to Dante network endpoint is used for the communication between DSP & Connected USB	Refer Corrigendum-2, Point 12.		

	device. Each OEM has a different option to communicate for USB devices. Kindly Consider Dante/AES67/Similar Network Protocol.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
3	For the same device, it should be Certified (rather than Compatible) for Microsoft Teams, Zoom & Google applications	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
4	Why 3 DSPs are used in a classroom to accommodate 34 mics, as there are many options available for a single DSP with Multiple Mic/Line Inputs & Outputs.	Consideration of quantity is done as per the requirement of the audio work.
5	The DSP should be Certified (rather than Compatible) for Microsoft Teams, Zoom & Google meet applications.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
6	What is the role of 12 channel Audio mixer in the room? As a mixer will not help you with any VC application. Also 3 DSPs in the room will provide 42 Mic/Line Inputs then what is the use of those ports?	Audio work requirement and scope of future provision is considered
7	The DSP should be Certified (Not only Compatible) for Microsoft Teams, Zoom & Google meet applications.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
8	64x64 Dante Channel is an overkilling requirement against Analog Microphones. Why 64 Channel is required?	Audio work requirement and scope of future provision is considered
9	The 4" Speakers considered in the Smart Classroom are Passive Speakers & the specs for the proposed amplifier to drive these speakers are having RJ-45 output port. This will never work in actual scenario. Also, the same is shown in the schematic as well. The proposed Speaker & Amplifier are not compatible with each other. Please consider Traditional 4 Channel Amplifier in each Room with 2 qty.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
10	The Control System is missing in the Smart Classroom Solution. How Room equipment like switcher, Display & DSP are being control & how the Touch panel will work in this scenario?	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
	<b>Conference Room:</b>	
1	The Qty. of Display is not matched with Schematic.	Schematic is for reference, BOQ quantity to be considered. No changes in BOQ
2	USB to Dante network endpoint is used for the communication between DSP & Connected USB device. Each OEM has a different option to communicate for USB devices. Kindly Consider Dante/AES67/Similar Network Protocol.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
3	For the same device, it should be Certified (rather than Compatible) for Microsoft Teams, Zoom & Google applications.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
4	How can the 30 microphones be accommodated in 8 Channel DSP?	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
5	The DSP should be Certified (rather than Compatible) for Microsoft Teams, Zoom & Google meet applications.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
6	What is the role of 12 channel Audio mixer in the room? As a mixer will not help you with any VC application. Also 3 DSPs in the room will provide 42 Mic/Line Inputs then what is the use of those ports?	Audio work requirement and scope of future provision is considered

7	The DSP should be Certified (Not only Compatible) for Microsoft Teams, Zoom & Google meet applications.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
8	64x64 Dante Channel is an overkill requirement against Analog Microphones. Why 64 Channel is required?	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
9	The 4" Speakers considered in the Smart Classroom are Passive Speakers & the specs for the proposed amplifier to drive these speakers are having RJ-45 output port. This will never work in actual scenario. Also, the same is shown in the schematic as well. The proposed Speaker & Amplifier are not compatible with each other. Please consider Traditional 4 Channel Amplifier in each Room with 2 qty.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
10	4-Series, Xpanel, Cresnet Network, etc. belongs to a specific OEM. Kindly provide the general specs to provide a genuine Chance for bidding otherwise there is not any point for this tender.	Refer Corrigendum-2
11	Kindly consider a Hardware or Software based Control system so more bidders can participate.	Refer Corrigendum-2, Point 12.
	<b>Auditorium:</b>	
1	USB to Dante network endpoint is used for the communication between DSP & Connected USB device. Each OEM has a different option to communicate for USB devices. Kindly Consider Dante/AES67/Similar Network Protocol.	Refer Corrigendum-2, Point 12.
2	For the same device, it should be Certified (rather than Compatible) for Microsoft Teams, Zoom & Google applications	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
3	The DSP should be Certified (rather than Compatible) for Microsoft Teams, Zoom & Google meet applications.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
4	What is the role of 12 channel Audio mixer in the room? As a mixer will not help you with any VC application. Also 3 DSPs in the room will provide 42 Mic/Line Inputs then what is the use of those ports?	Audio work requirement and scope of future provision is considered
5	The DSP should be Certified (Not only Compatible) for Microsoft Teams, Zoom & Google meet applications.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
6	64x64 Dante Channel is an overkill requirement against Analog Microphones. Why 64 Channel is required?	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
7	For Better performance of audio in any auditorium the speakers must be connected in Low Impedance Mode. A High-end 15" driver is suggested for the Auditorium Requirement.	Refer Corrigendum-2, Point 12.
8	The Specs are given for 8" Wall Speakers & the suggested model is a 10" Wall Speaker. Kindly allow us to propose a 10" passive model.	The specifications provided in tender are minimum and indicative in nature, bidder may propose higher specifications.
9	Why are IP-65 speakers required in an auditorium?	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.
10	For Better performance of audio in any auditorium the speakers must be connected in Low Impedance Mode. Please consider the amplifier with only Low impedance mode to drive the audio in Auditorium.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.

	Kindly allow us to consider dual channel amplifiers (x4) to drive the proposed speakers.			
11	4-Series, Xpanel, Cresnet Network, etc. belongs to a specific OEM. Kindly provide the general specs to provide a genuine Chance for bidding otherwise there is not any point for this tender.	Refer Corrigendum-2		
12	Kindly consider a Hardware or Software based Control system so more bidders can participate.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.		
	<b>Community Hall/Multipurpose Hall/Pre-Function Area/Gym:</b>			
1	The proposed speaker is a no back can speaker, which is generally used in Fire & PA application & it's not suggested in the standard AV application. Kindly revise the specs with a proper Model requirement.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.		
2	For the subwoofer, 100W@8 ohms are sufficient as compared with the application & other speakers.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.		
3	For Better performance of audio in any auditorium the speakers must be connected in Low Impedance Mode. Please consider the amplifier with only Low impedance mode to drive the audio in Auditorium. Kindly allow us to consider a dual channel amplifier to drive the proposed Subwoofer.	Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.		
	<b>Terrace Garden:</b>			
1	Whether proper roofing for the speakers will be provided for this speaker or not?	Yes. Work to be executed as per terms and conditions of Tender document and as per detailed design to be submitted by the successful bidder.		
<b>M/s Allied Telesys</b>				
<b>Sr No.</b>	<b>Part No.</b>	<b>Clause No.</b>	<b>Query</b>	<b>Reply from CPWD</b>
1	LIST OF PREFERRED MAKES	31. ACTIVE NETWORK SWITCHES: Cisco/ Juniper/ EXTREME / ARISTA / HP 32. WIRELESS ACCESS POINT & WIFI CONTROLLER: ARUBA (HPE) / ARISTA / CISCO / CAMBIUM NETWORKS	We are active networking company working from 37 years in global market and 17 years in indian market. We are associated with RBI for major project including various sites running on allied telesys network. Request you to include Allied Telesys as brand in approved make list so we can participate in the tender.	Bidders have been provided with sufficient options for carrying out work from the list of preferred makes. No changes in BOQ
2	Layer 3 - Core Switch	Shall support In Service Software Upgrade (ISSU) to provide an upgrade of the entire platform or an individual task/process without impacting hardware	We support similar feature please change to Shall support In Service Software Upgrade (ISSU) or similar to provide an upgrade of the entire platform or an individual task/process without impacting hardware	In the tender document the contractor have to provide the complete required solution with any of the available options mentioned in list of preferred makes having equivalent

				solution. No changes in BOQ.
3	Layer 3 - Core Switch	Should support IEEE Standards of Ethernet: IEEE 802.1D, 802.1s, 802.1w, 802.1x, 802.3ad, 802.3x, 802.1p, 802.1Q, 1588v2/ NTP, DHCP Server v4 & v6,	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
4	Layer 3 - Core Switch	Should support Static routing, RIP, RIPng, OSPF, OSPFv3, PIM v4 SM, DM and SSM, PIMv6- SM, BGP, BGP4+, BFD, G.8032. Should support IEEE	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
5	Layer 3 - Core Switch	Switch should support management features like SSHv2, SNMPv2c, SNMPv3, IGMP, Netconf/ YANG/Restconf. Should support SNMP V1,V2,V3, Web GUI,	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
6	Layer 3 - Core Switch	Switch should support port security, DHCP snooping, Spanning tree root guard. Should support IPSLA feature or similar for network health monitoring to	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
7	Layer 3 - Core Switch	AAA solution for local user database creation for 802.1x authentication, Mac authentication, Web authentication, Guest Access using Captive portal, device	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
8	Layer 3 - Core Switch	Solution shall have onprem network management feature set in High Availability mode such as centralized firmware up-gradation and configuration backup,	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
9	L3 Gigabit Stackable Managed Switch	Shall support In Service Software Upgrade (ISSU) to provide an upgrade of the entire platform or an individual task/process without impacting hardware	We support similar feature please change to Shall support In Service Software Upgrade (ISSU) or similar to provide an upgrade of the entire platform or an individual task/process without impacting hardware	In the tender document the contractor have to provide the complete required solution with any of the available options mentioned in list of preferred makes having equivalent solution. No changes in BOQ.
10	L3 Gigabit Stackable Managed Switch	Should support IEEE Standards of Ethernet: IEEE 802.1D, 802.1s, 802.1w, 802.1x, 802.3ad, 802.3x, 802.1p,	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2

		802.1Q, 1588v2/NTP, DHCP Server v4 & v6,		
11	L3 Gigabit Stackable Managed Switch	Should upgradable to Static routing, RIP, RIPng, OSPF, OSPFv3, PIM v4 SM, DM and SSM, PIMv6-SM, BGP, BGP4+, BFD, G.8032. Should support IEEE	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
12	L3 Gigabit Stackable Managed Switch	Switch should support management features like SSHv2, SNMPv2c, SNMPv3, IGMP, Netconf/YANG/Restconf. Should support SNMP V1,V2,V3, Web GUI,	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
13	L3 Gigabit Stackable Managed Switch	Switch should support port security, DHCP snooping, Spanning tree root guard. Should support IPSLA feature or similar for network health monitoring to	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
14	L3 Gigabit Stackable Managed Switch	Solution shall have onprem network management feature set in High Availability mode such as centralized firmware up-gradation and configuration backup,	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
15	Wireless Lan Controller with Access Point License.	Wireless controller should Onprem software / hardware based. In case of Hardware, required resources should be supplied by Bidder.	Looks like typo, it should be incase of software the resources should be supplied by bidder. Please change to Wireless controller should Onprem software / hardware based. In case of Software, required resources should be supplied by Bidder.	Please consider it as a complete statement.
16	Wireless Lan Controller with Access Point License.	The solution should be able to integrate with security applications or appliances to instantly respond to cyber security threats alerts by enforcing the policy to	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
17	Layer 2 - 24 Port PoE Access Switch	24 nos. 10M/100M/1G POE+ ports with 4 x 1/10G uplink ports, 10-15% ports should be upgradable to Mgig(2.5/5G)ports , if not vendors can quote required	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
18	Layer 2 - 24 Port PoE Access Switch	Solution shall have onprem network management feature set in High Availability mode such as centralized	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2

		firmware up-gradation and configuration backup,		
19	Layer 2 - 24 Port Non-PoE Access Switch	Should support Perpetual POE or similar.	Looks like typo error, heading says Non-POE and here POE features are mentioned. Please remove this clause.	Refer Corrigendum-2
20	Layer 2 - 24 Port Non-PoE Access Switch	Solution shall have onprem network management feature set in High Availability mode such as centralized firmware up-gradation and configuration backup,	Statement looks incomplete, looks like typo error, Please share the complete statement to check the compliance.	Refer Corrigendum-2
21	OEM Criteria for LAN / Wi-Fi Products	Additional clause	As this is government based project to avoid issues later. Please mention MII or TEC clause (refer below). The Switches should be MII compliant or MTCTE approved as per Indian government norms.	Refer Corrigendum-2

This minute of Pre-bid meeting shall form part of the agreement.

**Encl:** As Above

-----Sd/-----  
**Executive Engineer & Senior Manager (E),**  
**O/o. CE cum ED, Mumbai,**  
**CPWD, Navi Mumbai.**



**प्रतिलिपि:-**

- 1) मुख्य अभियंता सह कार्यकारी निदेशक, मुंबई, केलोनिवि., नवी मुंबई का सूचनार्थ।
- 2) कार्यपालक अभियंता एवं वरिष्ठ प्रबंधक-II, मु.अ.एवंम का.नि., मुंबई का कार्यालय, के.लो.नि.वि, नवी मुंबई को सूचनार्थ।
- 3) कार्यपालक अभियंता एवं वरिष्ठ प्रबंधक-I, मु.अ.एवंम का. नि. मुंबई का कार्यालय, के.लो.नि.वि, नवी मुंबई को सूचनार्थ ।
- 4) सभी सहायक अभियंता (वै), आई.आई.टी.बी. प्रो.वै.मं. केलोनिवि., नवी मुंबई को सूचनार्थ एवं आवश्यक कार्रवाई हेतु।

-----Sd/-----

**Executive Engineer & Senior Manager (E),  
O/o. CE cum ED, Mumbai,  
CPWD, Navi Mumbai.**

# PRE BID MEETING

## Attendance Sheet

Date: 27.02.2025 & Time: 11.00 am.  
Venue: Conference Hall, 7th floor, CGO Complex,  
CBD Belapur, Navi Mumbai-400614

**Name Of Work:** Construction of 354 nos. staff Quarters Hostel Building Academic Block, for Reserve Bank of India at Plot No. 1, Sector 7, CBD Belapur (Kharghar), Navi Mumbai.

**SH: Package 3 work of:** - Providing Services of Internal Electrical installations, Fibre to the home (FTTH), Audio Video System (AV), Data Networking System, Solar Photovoltaic System, Home Appliances, Signages, Kitchen equipment, Electric Vehicle Charging station & Access Control including miscellaneous civil works.

NIT NO- 02/NIT/CE cum ED/EE & SM(E)/2024-25

Sr. No.	CPWD Officer Name	Designation	Signature
1	Praveen Agarwal	CE cum ED, Mumbai	
2	Ajeet Nikens	EE & SM-II,	
3	MUKUL KUMAR	EE & SM-I,	
4	Utkarsh DEW	EE & SM-(E)	
5	SANDEEP RANJAN	AE(E)	
6			
7			
8			
9			
10			
Sr. No	RBI Officer Name	Designation	Signature
1	Jogesh K. Fasate	AGM (T-C)	
2	S K Ranjan	DM (T-E)	
3			
4			
5			

# PRE BID MEETING

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NIT NO- 02/NIT/CE cum ED/EE & SM(E)/2024-25

Sl. No.	Representative Name	Name of Firm	Mobile No.	E-Mail ID	Signature
1	R. Anna durya ASHOK SONAWANE	Swastik Electrotech PVT LTD	9820002506	Mumbai Swastik@gmail.com	
2	Mayur. Kasare	Allied Telesis Pvt Ltd	8286980101	mayur.kasare@alliedtelesis.com	
3	ASHUTOSH SHIRPURE	Allied Telesis Pvt	9460663228	ashutosh.shirpure@alliedtelesis.com	
4	Pritam G. Shisode	Godrej Interio	7558589301	SPritam@godrej.com	
5	Maheshwar Dkr	DERWISER INDIA	9819249833	maheshwar.di@derwisers.com	
6	Atish. R. Kulkarni	Blueberry Tech	9167989895	atish.k@bbtechsol.com	
7	Vinay Harona	Q SC India	9773501857	vinay.harona@qsc.com	
8	Shrikant H. Dote	QSC India Pvt Ltd	9820223849	shrikant.HDC@qsc.com	
9	Venkata Paramathi	Sun Informet	9320140511	venkat@suninformet.net	
10	Rahul Toobhakar	Samsung India	9960637666	r.toobhakar@pdd@ms.samsung.com	
11	ANISH SAMEL	Godrej Interio	9892943258	anish@godrej.com	