



**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI
COMPUTER SUPPORT GROUP**

Ref: NITT/F.No.031,32-A,35,37-B/HEFA/2019-20/CSG

Date: 08-12-2023

Minutes of the Pre-bid meeting held at 03:00 pm on 05.12.2023 at Third 'I' Building, CSG Complex, NIT Tiruchirappalli

Annexure- Corrigendum

Name of work: Supply, Installation, Integration, Testing, Commissioning of Smart Classroom Solution in Orion Complex, Logos Complex, Common Halls, Academic Department Seminar Halls.

Tender Notification No: NITT/F.No.031,32-A,35,37-B/HEFA/2019-20/CSG dated 29.11.2023

The pre-bid meeting for the Tender No NITT/F.No.031,32-A,35,37-B/HEFA/2019-20/CSG was held on 05-12-2023 from 03:00 pm to 05:00 pm at Third 'I' Building, CSG Complex, NIT Tiruchirappalli. The following members attended the meeting.

1. Dr.N. Sivakumaran, HOD, CSG
2. Dr. S. Mary Saira Bhanu, Professor, CSE
3. Shri. K.Pradeep, Senior Technical Officer, CSG
4. Shri. G.Girish Kumar, Senior Technical Officer, CSG
5. Dr. S.Krishnan, Consultant, S&P
6. Shri. Karthick Raja. Technical Officer, CSG

Shri Karthick Raja, Technical officer CSG welcomed everyone to the meeting.

A total of 10 representatives from the below mentioned vendor/OEM attended the Site visit and Meeting.

1. Cat 5 Broadcast Limited
2. Educorp Technologies
3. Progility Technologies
4. Unicom Infotel
5. SEC Communication
6. A.B Traders
7. Networks Limited
8. EIS Infra
9. Ascent e-Digit Solutions

All their queries and clarifications were addressed, and representatives were also asked to send their queries and suggestions through email up to 06-12-2023.

E-mails were received from the representatives of the following OEM/suppliers.

1. Telecommunications Consultants India Limited
2. Intelli Vectra Technologies Pvt. Ltd
3. Educorp Technologies
4. Unicom Infotel
5. Progility Technologies
6. Ascent e-Digit Solutions
7. Cat 5 Broadcast Limited

The following are the queries raised by the bidders through meeting / email and the replies by NITT are as follows:

1. Request to increase delivery period from 8 weeks to 12 weeks.
Accepted for 10 Weeks.
2. Query regarding EMD Exemption / Waive off for Central Government, State Government and PSUs.
Yes. EMD Exemption / Waive off is allowed for Central Government, State Government and PSUs.
3. Query regarding EMD Exemption for NSIC / MSME registered bidders.
Manufacturer for goods, service provider for Services are only eligible for EMD exemption (Micro and Small enterprises). Traders / Distributors / Sole Agents & Medium Enterprises are excluded from EMD exemption.
4. Request to extend the EMD DD/Bank Guarantee Hard Copy Submission for 10 days from the Last date of Bid Submission.
Extended to 7 Days.
5. EMD Format in case of Bank Guarantee Submission.
Link: www.silver.nitt.edu/tender/EMD_BG_Format.docx
6. Prequalification restriction about Turnover, Net worth and Project Experience
The bidder has to submit the previous experience supply details related to this scope of tender for information purpose. There is no restriction related with turnover and net worth parameters.

7. Query regarding alternate/substitute make and models are allowed or not.
Details regarding specific make and Model is not mentioned in this tender. Hence alternate/substitute make and model requirement do not arise.
8. Query regarding Liquidated damage cost applicable for Particular not delivered item or total project value
Applicable for Total project value.
9. Request to change the payment terms from (50% On delivery and verification and 50% Satisfactory Installation, Commissioning) to 75-80% On delivery and verification and 20-25% Satisfactory Installation, Commissioning.
No Changes.
10. Request to provide Boarding / Accommodation for the Onsite-Technicians
No Residential Accommodation will be provided. Technicians may do the service activity on working hours and store the AV equipment's in Allotted AV Technician room in Lecture Hall Complex.
11. Request to Extend the PoC Demo Dates.
*Accepted. Dates increased from 5 days to 7 days.
(02,03,04,05 Jan 2024 & 08,09,10 Jan 2024)*
12. Request to Remove Android OS Compatibility for Pen-Display (item no.5).
Accepted
13. Request to decrease the PPI of Pen-Display from 140 to 60 (item no.5).
PPI Parameter Removed
14. Request to remove full lamination of Pen-Display (item no.5).
Accepted. But the Pen-Display screen area should be laminated / coated with anti-glare and scratch resistant coating / film.
15. Request to increase the Max Weight of Pen-Display (item no.5).
Weight Parameter Removed
16. Request to reduce the PoE Switch wattage from 150W to 125W (item no.12).
Accepted.
17. Request to Include Optical Touch technology for Interactive Display (Item no.13)
Accepted
18. Query regarding colour of PTZ Camera mount (Item no.22,23)
Same Ceiling Colour (White) is preferred

19. Request to include ceiling Mount bracket for PTZ cameras (item no 17,18,19)
Accepted
20. Request to include UVC 1.1, PELCO-D, PELCO-P (RS-232), CGI (IP) Protocols for PTZ cameras (item no 17,18,19)
No Changes
21. Request to add Firmware Upgrade Port and 3 knobs for PTZ Controller. (item no.20)
No Changes.
22. Request to Remove ONVIF Protocol Support for 20x LT Camera (item no.19).
Accepted.
23. Request to Remove 3G-SDI Port for 20x LT Camera (item no.19).
No Changes. (3G-SDI Required for Live Streaming Events & Switching)
24. Request to allow Single Lens for 20x LT Camera (item no.19).
No Changes. (PTZ + Panoramic lens required to cover both Presenter and Audience / Students area in single Camera)
25. Request to reduce 30x Zoom to 20x / 24x (item no. 20)
No Changes. (Min 30x Optical / Clear Image / Loss less Zoom is required for 35 Meters Long Auditorium)
26. Request to increase Lux of Camera (item no. 17, 18, 19)
Accepted for item no.17,18 up to 1.5 lux, item no.19 up to 2 lux (Lower Lux required for Low Light Operation & Better Brightness Video)
27. Query about Active USB Cable Length requirement (item no.24,25)
The mentioned Cable length is required for reaching the Podium to Camera flexibly.
28. Query about Gooseneck length and size (item no.45)
Minimum 23 inches (Tender Document Page no.54)
29. Query about interactive display availability in Basic AV class rooms
Interactive Display only included with Hybrid Class Rooms and Seminar Halls. Existing panels also have to connect with the podium as per the specification.

30. Request to remove USB I/O from Mixer. (item no.33,34)


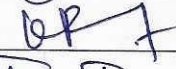
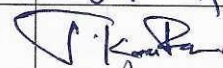
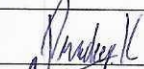

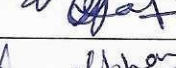
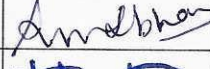
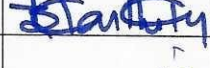

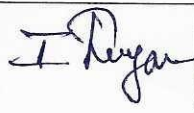
No Changes (USB I/O Required in Video Conferencing / Virtual Classes / Meetings for Sound out and Mic in Single USB cable. Also, for reducing Earthing noise merging with Mic-in signal on VC & Live Streaming Events)

31. Query regarding Docking Station Interface-Host Port Type (USB-C and USB-B). * (item no.9)

The Docking Station Host Port means, the Receptacle port/socket of USB-C or USB-B on the dock station. It will Connect the User Computer Connecting Cable (USB-C or USB-A) with the Docking Station. In Case the Computer Connecting cable (USB-C or USB-A) directly connects with Docking station, that model shall be accepted.

The Typo / Draft Errors were informed to the bidders in the Pre-Bid Meeting. These were corrected and to be released in the corrigendum.

After the pre-bid meeting, the technical specifications, tender dates were reviewed once again and the changes suggested by the purchase committee is attached in the Annexure. This annexure shall be released as corrigendum in the CPPP Portal & Institute Website.

		Name	Signature
1.	HoD, Chairman	Dr. N. Sivakumaran, HoD / CSG	
2.	Director Nominee	Dr. K. Pannirselvam, Professor / Mechanical	
3.	Initiating Officer & Convener	Shri. T. Karthick Raja, Technical Officer / CSG	
4.	Department Officer	Shri. K. Pradeep, Sr. Technical Officer / CSG	
5.		Shri. G. Girish Kumar, Sr. Technical Officer / CSG	
6.	Department Faculty	Dr. G. Lakshminarayanan, Professor, ECE	
7.		Dr. S. Mary Saira Bhanu, Professor, CSE	
8.		Dr. B. Karthikeyan, Professor, FY Co-Ordinator	
9.	Deputy Registrar (Finance and Accounts)	Shri. S. Saravanan, Deputy. Registrar (Accounts)	
10.	Deputy Registrar (S&P) / (R&C) [for R&C purchase]	Dr. S. Suresh, Deputy. Registrar (i/c) S&P	

*Dr. S. Suresh
(Convener)*



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Annexure

Ref: NITT/F.No.031,32-A,35,37-B/HEFA/2019-20/CSG

CORRIGENDUM

E-Tender Description:

Tender reference Number: NITT/F.No.031,32-A,35,37-B/HEFA/2019-20/CSG
Tender ID: 2023_NITT_783086_1

Following changes are made in the Tender document (tender.pdf), Technical Excel Sheet (technical-sheet.xls), BOQ Price Bid Sheet (BOQ_823163.xls).

Revised as follows

File Name	Page No / Item No	Terms, Conditions, Title, Technical Specifications and Standards in the existing tender document	Revised as follows
Tender Document	Page No.1	PoC Demo Dates for Primary Equipment's 27-12-2023 10 A.M to 29-12-2023 5 P.M and 02-01-2024 10 A.M to 03-01-2023 5 P.M	PoC Demo Dates for Primary Equipment's 02-01-2024 10 A.M to 05-01-2024 5 P.M and 08-01-2024 10 A.M to 10-01-2024 5 P.M
Tender Document	Page No: 7 Point No.15	Bidder should submit the Tender Fee / EMD as specified in the tender. The hard copy should be posted / couriered / given in person to the Tender Inviting Authority, within bid submission due date and time as indicated in the tender.	Bidder should submit the Tender Fee / EMD as specified in the tender. The hard copy should be posted / couriered / given in person to the Tender Inviting Authority, within next 7 days from bid submission due date and time as indicated in the tender. Scanned copy of the instrument should be uploaded as part of the offer.

		Scanned copy of the instrument should be uploaded as part of the offer.	
Tender Document	Page No. 16 Point No. 25.2-a	Technical Evaluation – After the prequalification process, the Technical Specifications shall be compared with the Technical Specifications as uploaded (Datasheet, Technical Document, Brochure) by the bidder for conformity The bidder (who clears the prequalification) shall be invited to perform the PoC (Proof of Concept) for Primary items (Speakers, Amplifiers, Mics, PTZ Camera with Connections) within One week after the opening bids (27-12-2023 10 A.M to 29-12-2023 5 P.M. and 02-01-2024 10 A.M to 05-01-2024 5 P.M).	Technical Evaluation – After the Preliminary Examination process, the Technical Specifications shall be compared with the Technical Specifications as uploaded (Datasheet, Technical Document, Brochure) by the bidder for conformity The bidder (after the scrutiny of the Preliminary Examination) shall be invited to perform the PoC (Proof of Concept) for Primary items (Speakers, Amplifiers, Mics, PTZ Camera with Connections) within One week after the opening bids (02-01-2024 10 A.M to 05-01-2024 5P.M and 08-01-2024 10 A.M to 10-01-2024 5P.M).
Tender Document	Page No: 27	Delivery Period: 8 Weeks	Delivery Period: 10 Weeks
Tender Document & Technical Excel sheet	Page No: 29 In Tender Document. Row No.1238 in Technical Excel Sheet	Delivery Period: 8 Weeks	Delivery Period: 10 Weeks
Tender Document & Technical Excel sheet	Page No.30 S. No.37 in Tender Document.	Ceiling Speaker 30W with Fall Ceiling Mount	Ceiling Speaker with Fall Ceiling Mount
Tender Document & Technical Excel sheet	Page No.30 S. No.38 in Tender Document.	Ceiling Speaker 30W with Ceiling Pendant Mount	Ceiling Speaker with Ceiling Pendant Mount
Tender Document & Technical Excel sheet	Page No.36 Item No.5 In Tender Document. Row No.206 in Technical Excel Sheet	Protection: Full Lamination System Compatibility: Should support Windows 10, Mac OS 10, Android	Protection: Full Lamination / Display area should be laminated or coated with anti-glare and scratch resistant coating or film. System Compatibility: Should support Windows 10, Mac OS 10

Tender Document & Technical Excel sheet	Page No.38 Item No.9 In Tender Document. Row No.282 in Technical Excel Sheet	Interfaces Min 1x Host USB Type-C / Type-B	Interfaces Min 1x Host USB Type-C / Type-A (Computer Side)
Tender Document & Technical Excel sheet	Page No.39 Item No.12 In Tender Document. Row No.327 in Technical Excel Sheet	PoE Power: Min 150W	PoE Power: Min 125W
Tender Document & Technical Excel sheet	Page No.40 Item No.13 In Tender Document. Row No.370 in Technical Excel Sheet	Touch technology: Infrared	Touch technology: Infrared / Optical
Tender Document & Technical Excel sheet	Page No.42 Item No.17 In Tender Document. Row No.459, 460, 462, 468, 480 in Technical Excel Sheet	Minimum Illumination: 1 Lux or less Protocol Support: HTTP, RTSP, RTMP, SRT, VISCA, ONVIF Video signal interface: Ethernet IP, USB 3.0, 3G- SDI, HDMI - Simultaneous Output Audio Output: HDMI, USB 3.0, Ethernet IP, 3G- SDI Accessories: Power adaptor, Remote Control, Standard Accessories and cables	Minimum Illumination: 1.5 Lux or less Protocol Support: HTTP, RTSP, RTMP, SRT, VISCA Video signal interface: Ethernet IP, USB 2.0/3.0 , 3G-SDI, HDMI – Min 3 Simultaneous Output Audio Output: HDMI, USB 2.0/3.0 , Ethernet IP, 3G-SDI Accessories: Ceiling Mount Bracket , Power adaptor, Remote Control, Standard Accessories and cables
Tender Document & Technical Excel sheet	Page No.43 Item No.18 In Tender Document.	Minimum Illumination: 0.5 Lux or less Audio Output: USB 3.1, Ethernet IP	Minimum Illumination: 1.5 Lux or less Audio Output: USB 3.0 , Ethernet IP

	Row No.493, 502, 514 in Technical Excel Sheet	Accessories: Power adaptor, Remote Control, Standard Accessories and cables	Accessories: Ceiling Mount Bracket , Power adaptor, Remote Control, Standard Accessories and cables
Tender Document & Technical Excel sheet	Page No.44 Item No.19 In Tender Document. Row No.518, 527, 533, 548 in Technical Excel Sheet	PTZ Optical Zoom: Min 30x zoom Minimum Illumination: 0.5 Lux or better Multi-stream Capability: Min 2x RTSP/Web View, 1x NDI Accessories: Power adaptor, Remote Control, Standard Accessories and cables	PTZ Zoom: Min 30x Optical / Clear Image /Loss Less Zoom Minimum Illumination: 2.0 Lux or less Multi-stream Capability: Min 2x RTSP/Web View, 1x NDI (Built-in) Accessories: Ceiling Mount Bracket , Power adaptor, Remote Control, Standard Accessories and cables
Tender Document & Technical Excel sheet	Page No.45 Item No.22 In Tender Document. Row No.582 in Technical Excel Sheet	Material: Steel / Metal with Rust Prevention Coat or Painting	Material: Steel / Metal with Rust Prevention Coat & Painting (White Preferred)
Tender Document & Technical Excel sheet	Page No.45 Item No.23 In Tender Document. Row No.588 in Technical Excel Sheet	Material: Steel / Metal with Rust Prevention Coat or Painting	Material: Steel / Metal with Rust Prevention Coat & Painting (White Preferred)
Tender Document & Technical Excel sheet	Page No.49 Item No.35 In Tender Document. Row No.753 in Technical Excel Sheet	Frequency Response: Min 20 Hz – 20 kHz @ 8 Ω Min 80 kHz -14 kHz @ 70V / 100 V	Frequency Response: Min 20 Hz – 20 kHz @ 8 Ω Min 80 Hz -14 kHz @ 70V / 100 V
Tender Document & Technical Excel sheet	Page No.54 Item No.47 In Tender Document.	Name of the Equipment / Goods: Rechargeable AA Battery 4 Nos Pack with Charger	Name of the Equipment / Goods: Rechargeable AA Battery 4 Nos Pack

	Row No.967 in Technical Excel Sheet		
Tender Document & Technical Excel sheet	Page No.57 Item No.55 In Tender Document. Row No.1086 in Technical Excel Sheet	10. Should Configure the Lecture Tracking camera to track the presenter movement up to +/- 160-degree range.	10. Should Configure the Lecture Tracking camera to track the presenter movement up to +/- 160-degree range in 12x single lens camera, Min 110-degree Field of View range in 20x dual lens camera.
Tender Document	Page No.61 Point No.2, 3	<p>2. After the prequalification process the Bidder should Install and Perform PoC in a Room with Quoted items of the same brand and model for one room only in each 108-Seater Hybrid and 64-Seater Hybrid Class Rooms.</p> <p>3. The bidder should bring the following quoted items for PoC</p> <p>a. Amplifier (Item No. 35,36)</p> <p>b. Speakers – 4 Nos (Item No. 37,38 or anyone of the item - if same make / model series)</p> <p>c. Microphones (Item No.39,40,41,42,46),</p> <p>d. Mixer (Item No. 33,34 or anyone anyone of the item - if same make / model series),</p> <p>e. Lecture Tracking PTZ camera with Ceiling Mount (Item No. 17,18) which are required for each room type.</p> <p>f. USB Docking Station (Item No. 9)</p>	<p>2. After the Preliminary Examination process the Bidder should Install and Perform PoC in a Room with Quoted items of the same brand and model for one room only in each 108-Seater Hybrid and 64-Seater Hybrid Class Rooms.</p> <p>3. The bidder should bring the following quoted items for PoC</p> <p>a. Amplifier (Item No. 35,36)</p> <p>b. Speakers – 4 Nos (Item No. 37,38 or anyone of the item - if same make / model series)</p> <p>c. Microphones (Item No.39,40,41,42,46),</p> <p>d. Mixer (Item No. 33,34 or anyone of the item - if same make / model series),</p> <p>e. Lecture Tracking PTZ camera with Ceiling Mount (Item No. 17,18) which are required for each room type.</p> <p>f. USB Docking Station (Item No. 9)</p> <p>e. Cables (Item No 25, 28)</p>
Tender Document & Technical Excel sheet	Page No.62 S. No.37 In Tender Document. Row No.1209 in	Ceiling Speaker 30W with Fall Ceiling Mount	Ceiling Speaker with Fall Ceiling Mount

	Technical Excel Sheet.		
Tender Document & Technical Excel sheet	Page No.62 S. No.38 in Tender Document. Row No.1210 in Technical Excel Sheet	Ceiling Speaker 30W with Ceiling Pendant Mount	Ceiling Speaker with Ceiling Pendant Mount
Tender Document & Technical Excel sheet	Page No. 64 Item No .37 In Tender Document.	Ceiling Speaker 30W with Fall Ceiling Mount	Ceiling Speaker with Fall Ceiling Mount
Tender Document & Technical Excel sheet	Page No.64 Item No .38 in Tender Document.	Ceiling Speaker 30W with Ceiling Pendant Mount	Ceiling Speaker with Ceiling Pendant Mount
Tender Document	Page No.86 GCC 28.3	The period of validity of the Warranty shall be Item wise warranty specified in the Annexure-3 (Page No. 60,61) from date of acceptance/ satisfactory installation of the equipment.	The period of validity of the Warranty shall be Item wise warranty specified in the Annexure-3 (Page No. 62,63) from date of acceptance/ satisfactory installation of the equipment.

Following Sentences, Paragraph is omitted from Tender Document.

Tender Document	Page No.23 Point No.7	Willingness to execute all orders which are placed to meet emergency requirement on priority basis. The Bidder shall note that standards for workmanship, material and equipment, and references to brand names designated by the Purchaser in the schedule of requirements are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in his bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.
Tender Document & Technical Excel sheet	Page No.36 Item No.5 in Tender Document.	Pixel Per Inch: Min 140 PPI Physical Dimensions: Weight Max 2.5 kg

	Row No.214, 225 in Technical Excel Sheet	
Tender Document & Technical Excel sheet	Page No.44 Item No.19 in Tender Document. Row No.519 in Technical Excel Sheet	PTZ Digital zoom: Min 12x zoom

All other terms, conditions, specifications remain unchanged. All the bidders are requested to quote as per the revised tender document only.

The Last date for the submission of bids extended to: 26-12-2023 3.00 PM

The Date of Opening of bids: 27-12-2023 3.00 PM

EMD format for Bank Guarantee	www.silver.nitt.edu/tender/EMD_BG_Format.docx
Podium and Rooms Connectivity Layout	www.silver.nitt.edu/tender/Podium_Room_Layout.pdf