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Request for Quotation (RFQ) for the supply of Virtual Conference System Hardware, Software, Installation, Maintenance and Support to the CSIR

RFQ Number 9342/07/12/2021

Date of issue	Tuesday, 2021/11/30
Closing Date and Time	Tuesday, 2021/12/07 at 16h30 Please use RFQ NO: as subject reference
For submission of quotations	tender@csir.co.za
Contact details	or any other enquiries: tender@csir.co.za

1   BACKGROUND

The Council for Scientific and Industrial Research (CSIR) is one of the leading scientific research and technology development organisations in Africa. In partnership with national and international research and technology institutions, CSIR undertakes directed and multidisciplinary research and technology innovation that contributes to the improvement of the quality of life of South Africans. The CSIR's main site is in Pretoria while it is represented in other provinces of South Africa through regional offices.

2   INVITATION FOR QUOTATION

Quotations are hereby invited for the supply of Virtual Conference System with Hardware, Software, Installation and Support to the CSIR.

3   SCOPE OF WORK AND QUOTATION REQUIREMENTS

The identified bidding supplier will be required to quote and deliver on the following requirements:

3.1 The supply of hardware and software (see Section 6 attached herein for list of hard software items required) for the implementation of VC system solution for 6 regional sites, geographically spread across CoJ municipality area.

3.2 The installation and configuration of the supplied hardware and software items for the implementation of the VC system solution across 6 regional sites in the COJ municipality area.

3.3 The provision of operational support and maintenance of the VC system to the user for period of 12 months, which includes:

3.3.1 Provision of on-site and off-site support for the VC system for the CoJ council meetings. This ensures that the VC system installed is maintained and is readily available pre and during CoJ council meetings.

3.3.2 A minimum of 12 months operational support and maintenance is required for the VC system installed. A minimum of one technician available pre and during the CoJ council meetings for the small rooms and 2 technicians for the big rooms for the specified sites.

3.4 The maintenance and support for the VC system hardware and software must cover warrantees for the specified hardware and software items.

3.5 The provision of user system training and manuals for the VC system installed across 6 regional sites in the COJ area.

3.6 The provision of project management services to ensure successful delivery and completion in-line with the project schedule and end-date.

Refer to Annexure A section 1.1 and 1.2 for the list of goods and services required.

4 SPECIFICATION AND QOUTATION REQUIREMENTS

4.1 The supplied hardware and software elements for the VC system solution **shall** conform to the specification for the items attached in Annexure A.

5 SPECIAL REQUIREMENTS

5.1 The delivery and installation of the hardware and software items required for the VC system as well as user system training for all 6 regional site must be completed by 20 December 2021, which date is fixed.

5.2 All the hardware and software items procured as part of this RFQ remains property of the CSIR until fully commissioned and handed-over to the client on site.

5.3 The appointed service provider will be required to maintain the hardware and software items procured as part of the services rendered for period of 12 months. All material and components supplied by the bidding supplier must carry a 12 month warranty against manufacture defects upon commencement of installation.

5.4 The supplier will be required to carry out site preparations including networking and cabling for the sites while awaiting receipt of hardware and software items to meet the delivery time lines.

5.5 The operational support and maintenance of the VC system will commence upon acceptance and hand-over to the user is completed.

5.6 The bidding suppliers are permitted to appoint sub-contractors of choice to ensure completion in-line with the specified delivery end date of 20 December 2021. Any agreements entered into between the bidding suppliers and its sub-contractors will between the bidding supplier and the elected sub-contractors. The CSIR will not be held responsible for the third party agreements a result of the sub-contracting.

5.7 All the hardware and software items procured as part of this RFQ remains property of the CSIR until fully commissioned and handed-over to the client on site.

5.8 The bidding suppliers must provide project management services to ensure successful delivery and completion in-line with the project schedule and end-dates specified in this RFQ.

5.9 The bidding suppliers are required to submit a project plan for the delivery of the RFQ in-line with the specified time lines and a maintenance plan for the hardware and software to be installed.

5.10 The bidding suppliers are required to appoint a project manager that provides feedback to the CSIR on the activities of this project on a monthly basis.

6 INCLUSIONS

6.1 The following hardware forms part of exist hardware on the specified sites and bidding suppliers is required to provide operational maintenance and support

as part of the services provided in this RFQ. Refer to Table 1 of this RFQ for existing equipment on site.

Site	Alexander		
Item No	Model / Part No	Product Description	Quantities
		Display	
1	DU3661Z	Vivitek DU3661Z WUXGA 5,000lm Laser Projector, 20,000:1 contrast	1
2	N/A	Bracketry Allowance	1
3	WM-M120CNVHD	120" 16:9 Ratio CNV series motorised white screen with IR control	1
		Control & Switching	
4	ALF-MUH44E	4x4 HDBaseT Matrix Switcher 4K. Supports HDMI 1.4 and HDCP 2.2. Transmit 4K&2K signal	1
5	Tango	Neets Tango Central Controller with LAN, iOS and Android support	1
6	TP 10"	Neets 10" TouchPanel POE excluding Table Stand	1
7	TP Table Stand	Neets Table Stand for 7" and 10" TouchPanel	1
		Audio	
8	Radius NX 4x4 AEC-1	Symetrix Radius NX 4x4 AEC-1NX	1
9	VXS8	Yamaha Surface Mount Speaker (Pair), Black, 180W(PGM), 8" Cone, Built-in Transformer	1
10	PX3	2x 300W at 8Ω. 2x 500W at 4Ω. Newly developed Class-D amplifier engine with a custom LSI	1
		BYOD Video Conferencing	
11	UVC84	Yealink UVC84 USB Camera - 4K 12 x Optical and 3 x Digital Zoom, Built-in Auto Framing	1
12	VCM34 -	1x VCM34 video conferencing microphone array, 1x 3m network cable with 1-year AMS	
13	Mecer PC Complete	Desktop with 19" Monitor for conference sound system	1
12	NCX700EU	NovoConnect NC-X700 Wireless collaboration with Full BYOD & mobile mirroring and Miracast	1
13	N/A	Racking with Pro Dictate	1
14	N/A	Phillips Speech transcription - Phillips Speech transcription	
15	TSC6 POPUP	1 x RSA power supply, cable holes supplied with 1 x HDMI 2.0, 1 x VGA	1

Table 1: List of Audio Visual Equipment Existing in Alexander MPC Main Boardroom.

7   PRICING SCHEDULE/ BILL OF QUANTITIES

No.	Item Description	Unit of Measure	Quantity	Unit Price/ Rate (Excl. VAT)	Price (Excl. VAT)

The supply of Virtual Conference System Hardware, Software, Installation, Maintenance and Support to the CSIR					
1.	VC System Hardware and Software	Per site			
2.	System Installation and Maintenance	Per site			
3.	User Training for multiple users per site	Per user			
4.	User Operating Manuals (minimum 5 per site)	Per site			
5.	Onsite and off-site technical support	Per site			
7	Project Management				
NB: Pricing must be FIRM and inclusive of all costs to be incurred by the bidder in the delivery of the required goods and services.					
				Sub-total	
				VAT	
				Total	

8   EVALUATION CRITERIA

8.1   Selection of suppliers will be based on the 80/20 preference point system. This will be categorised as follows:

- Price: Maximum 80 points

- B-BEEE: Maximum 20 points

The points scored for the price and B-BBEE will be added together from a maximum score of 100 points.

8.2   Suppliers must indicate valid B-BBEE status on quotation. No B-BBEE status will equal zero points and shall be disqualified from further evaluation.

8.3   Suppliers must indicate the CSD number (National Treasury Central Supplier Database) on quotation. If not registered yet on CSD, use www.csd.gov.za to register. No order will be issued or no contract will be signed without a valid CSD number.

9   ELIMINATION CRITERIA

9.1   Suppliers will be eliminated under the following conditions:

- Submission of quotations after the deadline;

- Submission of quotations at incorrect location or incorrect email address (Please submit electronically to tender@csir.co.za);

- If the supplier does not meet specification and the requirements as outlines in the RFQ documents, herein

- If the supplier fails to supply any of the mandatory/returnable documents.

10 PRICING QUOTATION

10.1 Price needs to be provided in South African Rand (excl. VAT), with details on price elements that are subject to escalation and exchange rate fluctuations clearly indicated.

10.2 Price shall cover the supply of goods and services required in-line with the RFQ. This should include additional cost elements such as freight, warrantees on the supplied hardware items, insurance until acceptance, duty where applicable, etc.

10.3 Payment will be according to the CSIR Payment Terms and Conditions.

NB: The Price quoted should be firms and inclusive of all costs and services required to complete the project.

11 TENDER PROGRAMME

The tender program, as currently envisaged, incorporates the following key dates:

- Issue of tender documents: **30 November 2021**
- Last date for submission of queries or
  if anyone is aggrieved about the closing day: **3 December 2021**
- Closing / submission Date**:   7 December 2021 16h30**

12 PROCEDURE FOR SUBMISSION OF QUOTATIONS

12.1 All quotations must be submitted electronically to: tender@csir.co.za.

12.2 Respondents must use the RFQ number as the subject reference number when submitting their quotations.

12.3 The email and file sizes should not exceed a total of 25mb per email.

12.4 The naming and labelling syntax of files or documents must be short and simple (e.g. BBBEE Certificate).

12.5 Each bidder will be limited to sending two emails with their submissions and the subject of the email must be clearly reference the bidder name and RFQ number.

12.6 All documents submitted electronically via email must be clearly visible,

12.7 Submissions from a cloud platforms such dropbox, we transfer, Google Drive, etc, will not be accepted.

12.8 Tender documents received after the closing date and time will be considered as a late submission. Late submission will not be evaluated.

13 DELIVERY ADDRESS

13.1 All hardware and software as part of this project will be delivered to the following addresses as part of the solution implementation:

Site no:	Site Address
Site 1	Alexander Multi-Purpose Centre (MPC) Corner 8th Avenue and Roosevelt Street Alexander 2014
Site 2	Midrand Teljoy Building 300 15th Road, Midrand, Johannesburg,

	1685	
Site 3	Sandton Customer Service Centre Building 137 Daisy Street, Sandown, Sandton, 2031	
Site 4	Lenasia Civic Centre Corner Rose Avenue and Eland Street. Lenasia Civic Centre Lenasia 1827	
Site 5	Roodepoort Civic Centre Building 100 Christiaan de Wet Road, Florida Park, Roodepoort 1709	
Site 6	Jabulani Civic Centre building 1 Koma Street, Jabulani, Johannesburg, 1868	

14 CSIR RESERVES THE RIGHT TO

14.1 Extend the closing date;

14.2 Verify any information contained in this proposal.

14.3 Request documentary proof regarding any tendering issue;

14.4 Give preference to locally manufactured goods;

14.5 Appoint one or more service providers, separately or jointly (whether or not they submitted a joint proposal);

14.6 Award this RFQ as a whole or in part;

14.7 Cancel or withdraw this RFQ as a whole or in part.

15 DISCLAIMER

This RFQ is a request for quotations only and not an offer document. Answers to this RFQ must **not** be construed as acceptance of an offer or imply the existence of a contract between the parties. By submission of its quotation, tenderers shall be deemed to have satisfied themselves with and to have accepted all Terms & Conditions of this RFQ. The CSIR makes no representation, warranty, assurance, guarantee or endorsements to tenderer concerning the RFQ, whether with regard to its accuracy, completeness or otherwise and the CSIR shall have no liability towards the tenderer or any other party in connection therewith.

16 OTHER TERMS AND CONDITIONS

16.1 The supplier shall under no circumstances offer, promise or make any gift, payment, loan, reward, inducement, benefit or other advantage, which may be construed as being made to solicit any favour, to any CSIR employee or its representatives. Such an act shall constitute a material breach of the Agreement and the CSIR shall be entitled to terminate the Agreement forthwith, without prejudice to any of its rights.

16.2 A validity period of 90 days will apply to all quotations except where indicated differently on the quote.

16.3 All risks in the goods and services forming the subject matter in this RFQ transfer to the user upon delivery and installation on site.

16.4 Once delivered and installed on site, the risk of the delivered goods and services with be transferrable to the user of the goods and services.

16.5 All hardware components supplied must come with a minimum warrantee of 12 months to insure against defects and repairs.

17 No goods and services should be delivered to the CSIR without an official CSIR Purchase order. CSIR purchase order number must be quoted on the invoice. Invoices without CSIR purchase order numbers will be returned to supplier.

18 Note: This is not a Purchase Order.

DECLARATION BY TENDERER

Only tenderers who completed the declaration below will be considered for evaluation.

RFP No: 9342/07/12/2021

I hereby undertake to render services described in the attached tendering documents to CSIR in accordance with the requirements and task directives / proposal specifications stipulated in RFP No 9342/07/12/2021 at the price/s quoted. My offer/s remains binding upon me and open for acceptance by the CSIR during the validity period indicated and calculated from the closing date of the proposal.

I confirm that I am satisfied with regards to the correctness and validity of my proposal; that the price(s) and rate(s) quoted cover all the services specified in the proposal documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.

I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this proposal as the principal liable for the due fulfilment of this proposal.

I declare that I have no participation in any collusive practices with any tenderer or any other person regarding this or any other proposal.

I accept that the CSIR may take appropriate actions, deemed necessary, should there be a conflict of interest or if this declaration proves to be false.

I confirm that I am duly authorised to sign this proposal.

NAME (PRINT) …………………………

CAPACITY ……………………….

SIGNATURE …………………………

NAME OF FIRM ……………………………..

DATE   …………………………….

WITNESSES
1   ………………………………….
2   ………………………………….
DATE: …………………………….

Annexure A: Description of Goods and Services Required per Site:

1.1	Description of Goods Required per Site		
Site	**Alexandra**		
Item No	**Model / Part No**	**Product Description**	**Quantity Required**
	Delegate System Elements		
1	HCS 4100MB/52	TAIDEN Fully Digital Congress System Main Unit (discussion, voting, 64 Channels)	1
2	HCS-4890CVS_B/52	Fully Digital Congress System Chairman Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 CHs, 4.3" touch screen, printed nameplate, black)	1
3	HCS-4890DVS_B/52	Fully Digital Congress System Delegate Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 CHs, 4.3" touch screen, printed nameplate, black)	9
4	TMX-HD-SDI2HDMI	4x4 High Definition Digital Video Tracking Matrix Switcher (SD/HD/3G, support HCS-3316CK)	1
5	TMX-HD-SDI2HDMI	3G HD-SDI to HDMI Converter	1
	Software Elements		
6	HCS-4210/52	Basic System Setup Management Software Module	1
7	HCS-4213/50	Microphone Management Software Module	1
8	HCS-4214/50	Voting Management Software Module (including delegate management, multi-parliamentary voting, multi voting)	1
9	HCS-4215/50	Video Control Software Module	1
10	HCS-4219/50	Synchronous Audio Recording Management Software Module	1
11	HCS-4223/50	Agenda Control Software Module	1
12	HCS-4226/50	Touched/Contactless IC-Card Sign-in Management Software Module	1
13	HCS-4345TK/50	Touched IC-Card Encoder (champagne panel and gray base)	1
14	HCS-3925S	Short- distance Contactless IC Card (100 pieces of blank card, 9867 mm)	
15	N/A	Cabling Allowance	1
16	N/A	Installation Allowance	1
Site	**Midrand**		
Item No	**Model / Part No**	**Product Description**	**Quantity Required**
	Display Elements		
1	QB85R	SAMSUNG 85" Professional Display	1
2	N/A	Bracketry Allowance	1
	Control and Switching Elements		
3	ALF-MUH44E	4x4 HDBaseT Matrix Switcher 4K. Supports HDMI 1.4 and HDCP 2.2. Transmit 4K&2K signal 8m via HDMI port. 40m via HDBT port. Controllable via front panel, RS232, IR and TCP/IP. Built-in GUI for TCP/IP control and setup. EDID Management. Includes TPHD-70-E-R receivers. INPUTS: 4 x HDMI (4k x 2k@60Hz signal at max) OUTPUTS: 3 x HDBaseT 3x IR OUT 1 x HDMI 1 x SPDIF and 1 x L&R RCA	1
4	Tango	Neets Tango Central Controller with LAN, iOS and Android support	1
5	TP 10"	Neets 10" TouchPanel POE excluding Table Stand	1

6	TP Table Stand	Neets Table Stand for 7" and 10" TouchPanel	1
		Audio Elements	
7	Radius NX 4x4 AEC-1	Symetrix Radius NX 4x4 AEC-1NX	1
8	VXS8	Yamaha Surface Mount Speaker (Pair), Black, 180W(PGM), 8" Cone, Built-in Transformer	1
9	PX3	2x 300W at 8Ω. 2x 500W at 4Ω. Newly developed Class-D amplifier engine with a custom LSI. Flexible onboard PEQ, crossover, filters, delay, and limiter functions. Yamaha Speaker presets	1
		Delegate System	
10	HCS-4100MB/52	TAIDEN Fully Digital Congress System Main Unit (discussion, voting, 64 Channels	1
11	HCS-4890CVS_B/52	Fully Digital Congress System Chairman Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 CHs, 4.3" touch screen, printed nameplate, black)	1
12	HCS-4890DVS_B/52	Fully Digital Congress System Delegate Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 CHs, 4.3" touch screen, printed nameplate, black)	19
13	HCS-3316HDN_G	HD Videoconference Camera (gray)	1
14	TMX-0404SDI	4x4 High Definition Digital Video Tracking Matrix Switcher (SD/HD/3G)	1
15	TMX-HD-SDI2HDMI	3G HD-SDI to HDMI Converter	1
		Software Elements	
16	HCS-4210/52	Basic System Setup Management Software Module	1
17	HCS-4213/50	Microphone Management Software Module	1
18	HCS-4214/50	Voting Management Software Module (including delegate management, multi-parliamentary voting multi voting)	1
19	HCS-4215/50	Video Control Software Module	1
20	HCS-4219/50	Synchronous Audio Recording Management Software Module	1
21	HCS-4223/50	Agenda Control Software Module	1
22	HCS-4226/50	Touched/Contactless IC-Card Sign-in Management Software Module	1
23	HCS-4345TK/50	Touched IC-Card Encoder (champagne panel and gray base)	1
24	HCS-3925S	Short-distance Contactless IC-Card (100 pieces of blank card, 98×67 mm)	1
		BYOD Video Conferencing Elements	
25	Mecer PC Complete	Desktop with 19" Monitor for conference sound system	1
26	NCX700EU	NovoConnect NC-X700 Wireless collaboration with Full BYOD & mobile mirroring and Miracast	1
27	N/A	Allow for Racking	1
28	N/A	Pro Dictate	1
29	N/A	Phillips Speech transcription	1
30	N/A	Cabling Allowance	1
31	N/A	Installation Allowance	3
Site	**Sandton**		
Item No	**Model / Part No**	**Product Description**	**Quantity Required**
		Display Elements	
1	QB85R	SAMSUNG 85" Professional Display	1
2	N/A	Bracketry Allowance	1

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This is not a Purchase Order.

			Control and Switching Elements	
3	ALF-MUH44E	4x4 HDBaseT Matrix Switcher 4K. Supports HDMI 1.4 and HDCP 2.2. Transmit 4K&2K signal 8m via HDMI port. 40m via HDBT port. Controllable via front panel, RS232, IR and TCP/IP. Built-in GUI for TCP/IP control and setup. EDID Management. Includes TPHD-70-E-R receivers. INPUTS: 4 x HDMI (4k x 2k@60Hz signal at max) OUTPUTS: 3 x HDBaseT 3x IR OUT 1 x HDMI 1 x SPDIF and 1 x L&R RCA	1
4	Tango	Neets Tango Central Controller with LAN, iOS and Android support	1
5	TP 10"	Neets 10" TouchPanel POE excluding Table Stand	1
6	TP Table Stand	Neets Table Stand for 7" and 10" TouchPanel	1
			Audio Elements	
7	4x4	Symetrix Radius NX 12x8 AEC-2 Audio DSP	1
8	VXS8	Yamaha Surface Mount Speaker (Pair), Black, 180W(PGM), 8" Cone, Built-in Transformer	2
9	VXC6/W	Yamaha Ceiling Speaker (Per Pair), White 150W(PGM), 2-Way-6.5" Cone, Built-in Transformer.110°	2
10	PX3	2x 300W at 8Ω. 2x 500W at 4Ω. Newly developed Class-D amplifier engine with a custom LSI. Flexible on-board PEQ, crossover, filters, delay, and limiter functions. Yamaha Speaker presets	2
			Delegate System Elements	
11	HCS-4100MB/52	TAIDEN Fully Digital Congress System Main Unit (discussion, voting, 64 CHs)	1
12	HCS-4890CVS_B/52	Fully Digital Congress System Chairman Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 CHs, 4.3" touch screen, printed nameplate, black)	1
13	HCS-4890DVS_B/52	Fully Digital Congress System Delegate Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 CHs, 4.3" touch screen, printed nameplate, black)	19
14	HCS-3316HDN_G	HD Videoconference Camera (gray)	2
15	TMX-0404SDI	4x4 High Definition Digital Video Tracking Matrix Switcher (SD/HD/3G)	1
16	TMX-HD-SDI2HDMI	3G HD-SDI to HDMI Converter	1
			Software Elements	
17	HCS-4210/52	Basic System Setup Management Software Module	1
18	HCS-4213/50	Microphone Management Software Module	1
19	HCS-4214/50	Voting Management Software Module (including delegate management, multi-parliamentary voting, multi voting)	1
20	HCS-4215/50	Video Control Software Module	1
21	HCS-4219/50	Synchronous Audio Recording Management Software Module	1
22	HCS-4223/50	Agenda Control Software Module	1
23	HCS-4226/50	Touched/Contactless IC-Card Sign-in Management Software Module	1
24	HCS-4345TK/50	Touched IC-Card Encoder (champagne panel and gray base)	1
25	HCS-3925S	Short-distance Contactless IC-Card (100 pieces of blank card, 98×67 mm)	1
			BYOD Video Conferencing Elements	
27	Mecer PC Complete	Desktop with 19" Monitor for conference sound system	1
28	NCX700EU	NovoConnect NC-X700 Wireless collaboration with Full BYOD & mobile mirroring and Miracast	1
29	N/A	Allow for Racking	1

30	N/A	Pro Dictate	1
31	N/A	Phillips Speech transcription	1
32	N/A	Cabling Allowance	1
33	N/A	Installation Allowance	3

Site	Lenasia		
Item No	**Model / Part No**	**Product Description**	**Quantity Required**
		Display Elements	
1	QB85R	SAMSUNG 85" Professional Display	1
2	N/A	Bracketry Allowance	1
		Control and Switching Elements	
3	ALF-MUH44E	4x4 HDBaseT Matrix Switcher 4K. Supports HDMI 1.4 and HDCP 2.2. Transmit 4K&2K signal 8m via HDMI port. 40m via HDBT port. Controllable via front panel, RS232, IR and TCP/IP. Built-in GUI for TCP/IP control and setup. EDID Management. Includes TPHD-70-E-R receivers. INPUTS: 4 x HDMI (4k x 2k@60Hz signal at max) OUTPUTS: 3 x HDBaseT 3x IR OUT 1 x HDMI 1 x SPDIF and 1 x L&R RCA	1
4	Tango	Neets Tango Central Controller with LAN, iOS and Android support	1
5	TP 10"	Neets 10" TouchPanel POE excluding Table Stand	1
6	TP Table Stand	Neets Table Stand for 7" and 10" TouchPanel	1
		Audio Elements	
7	Radius NX 4x4 AEC-1	Symetrix Radius NX 4x4 AEC-1NX	1
8	VXS8	Yamaha Surface Mount Speaker (Pair), Black, 180W(PGM), 8" Cone, Built-in Transformer	2
9	VXC6/W	Yamaha Ceiling Speaker (Per Pair), White 150W(PGM), 2-Way-6.5" Cone, Built-in Transformer.110°	2
10	PX3	2x 300W at 8Ω. 2x 500W at 4Ω. Newly developed Class-D amplifier engine with a custom LSI. Flexible onboard PEQ, crossover, filters, delay, and limiter functions. Yamaha Speaker presets	1
		Delegate System Elements	
11	HCS-4100MB/52	Fully Digital Congress System Main Unit (discussion, voting, 64 CHs)	1
12	HCS-4890CVS_B/52	Fully Digital Congress System Chairman Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 Channels, 4.3" touch screen, printed nameplate, black)	1
13	HCS-4890DVS_B/52	Fully Digital Congress System Delegate Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 Channels, 4.3" touch screen, printed nameplate, black)	19
14	HCS-3316HDN_G	HD Videoconference Camera (gray)	2
15	TMX-0404SDI	4x4 High Definition Digital Video Tracking Matrix Switcher (SD/HD/3G)	1
17	TMX-HD-SDI2HDMI	3G HD-SDI to HDMI Converter	1
		Software Elements	
18	HCS-4210/52	Basic System Setup Management Software Module	1
19	HCS-4213/50	Microphone Management Software Module	1
20	HCS-4214/50	Voting Management Software Module (including delegate management, multi-parliamentary voting, multi voting)	1

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21	HCS-4215/50	Video Control Software Module	1
22	HCS-4219/50	Synchronous Audio Recording Management Software Module	1
23	HCS-4223/50	Agenda Control Software Module	1
24	HCS-4226/50	Touched/Contactless IC-Card Sign-in Management Software Module	1
25	HCS-4345TK/50	Touched IC-Card Encoder (champagne panel and gray base)	1
26	HCS-3925S	Short-distance Contactless IC-Card (100 pieces of blank card, 98×67 mm)	1
		BYOD Video Conferencing Elements	
25	Mecer PC Complete	Desktop with 19" Monitor for conference sound system	1
26	NCX700EU	NovoConnect NC-X700 Wireless collaboration with Full BYOD & mobile mirroring and Miracast	1
27	N/A	Allow for Racking	1
28	N/A	Pro Dictate	1
29	N/A	Phillips Speech transcription	1
30	N/A	Installation allowance	3
31	N/A	Cabling allowance	1

Site	**Roodepoort**		
Item No	**Model / Part No**	**Product Description**	**Quantity Required**
		Display Elements	
1	DU4771Z-WH	Projector Laser Vivitek DU4771Z-WH WUXGA 6,000lm Laser Projector, 20,000:1 contrast, 1.15-1.90 : 1 throw, 5-year warranty (Laser light source. DICOM. HDBaseT)	1
2	N/A	Bracketry Allowance	1
3	WM-M150CNVHD	150" 16:9 Ratio CNV series motorised white screen with IR control & 12V trigger, 3,320 x 1,867mm. Powerlite PO-SCBXB38 screen box and Kit 4 box kit	1
		Control and Switching Elements	
4	ALF-MUH44E	4x4 HDBaseT Matrix Switcher 4K. Supports HDMI 1.4 and HDCP 2.2. Transmit 4K&2K signal 8m via HDMI port. 40m via HDBT port. Controllable via front panel, RS232, IR and TCP/IP. Built-in GUI for TCP/IP control and setup. EDID Management. Includes TPHD-70-E-R receivers. INPUTS: 4 x HDMI (4k x 2k@60Hz signal at max) OUTPUTS: 3 x HDBaseT 3x IR OUT 1 x HDMI 1 x SPDIF and 1 x L&R RCA	1
5	Tango	Neets Tango Central Controller with LAN, iOS and Android support	1
6	TP 10"	Neets 10" TouchPanel POE excluding Table Stand	1
7	TP Table Stand	Neets Table Stand for 7" and 10" TouchPanel	1
		Audio Elements	
8	NX12x8 AEC-2	Symetrix Radius NX 12x8 AEC-2 Audio DSP	1
9	VXS8	Yamaha Surface Mount Speaker (Pair), Black, 180W(PGM), 8" Cone, Built-in Transformer	2
10	VXC6/W	Yamaha Ceiling Speaker (Per Pair), White 150W(PGM), 2-Way-6.5" Cone, Built-in Transformer.110°	2
11	PX3	2x 300W at 8Ω. 2x 500W at 4Ω. Newly developed Class-D amplifier engine with a custom LSI. Flexible onboard PEQ, crossover, filters, delay, and limiter functions. Yamaha Speaker presets	2

Item No	Model / Part No	Product Description	Quantity Required
		Delegate System Elements	
12	HCS-4100MB/52	TAIDEN Fully Digital Congress System Main Unit (discussion, voting, 64 Channels)	1
13	HCS-4890CVS_B/52	Fully Digital Congress System Chairman Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 Channels, 4.3" touch screen, printed nameplate, black)	1
14	HCS-4890DVS_B/52	Fully Digital Congress System Delegate Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 Channels, 4.3" touch screen, printed nameplate, black)	52
15	HCS-8300MES	TAIDEN 4 Channel Congress Extension unit	1
16	HCS-3316HDN_G	HD Videoconference Camera (gray)	2
17	TMX-0404SDI	4x4 High Definition Digital Video Tracking Matrix Switcher (SD/HD/3G)	1
18	TMX-HD-SDI2HDMI	3G HD-SDI to HDMI Converter	1
		Software Elements	
19	HCS-4210/52	Basic System Setup Management Software Module	1
20	HCS-4213/50	Microphone Management Software Module	1
21	HCS-4214/50	Voting Management Software Module (including delegate management, multi-parliamentary voting, multi voting)	1
22	HCS-4215/50	Video Control Software Module	1
23	HCS-4219/50	Synchronous Audio Recording Management Software Module	1
24	HCS-4223/50	Agenda Control Software Module	1
25	HCS-4226/50	Touched/Contactless IC-Card Sign-in Management Software Module	1
26	HCS-4345TK/50	Touched IC-Card Encoder (champagne panel and gray base)	1
27	HCS-3925S	Short-distance Contactless IC-Card (100 pieces of blank card, 98×67 mm)	1
		BYOD Video Conferencing Elements	
28	Mecer PC Complete	Desktop with 19" Monitor for conference sound system	1
29	NCX700EU	NovoConnect NC-X700 Wireless collaboration with Full BYOD & mobile mirroring and Miracast	1
30	N/A	Allow for Racking	1
31	N/A	Pro Dictate	1
32	N/A	Phillips Speech transcription	1
33		Cabling Allowance	1
34	N/A	Installation allowance	3
Site	**Jabulani**		
Item No	**Model / Part No**	**Product Description**	**Quantity Required**
		Display Elements	
1	DU4771Z-WH	Projector Laser Vivitek DU4771Z-WH WUXGA 6,000lm Laser Projector, 20,000:1 contrast, 1.15-1.90 : 1 throw, 5-year warranty (Laser light source. DICOM. HDBaseT)	1
2	N/A	Bracketry Allowance	1
3	WM-M150CNVHD	150" 16:9 Ratio CNV series motorised white screen with IR control & 12V trigger, 3,320 x 1,867mm. Powerlite PO-SCBXB38 screen box and Kit 4 box kit	1
		Control and Switching Elements	

4	ALF-MUH44E	4x4 HDBaseT Matrix Switcher 4K. Supports HDMI 1.4 and HDCP 2.2. Transmit 4K&2K signal 8m via HDMI port. 40m via HDBT port. Controllable via front panel, RS232, IR and TCP/IP. Built-in GUI for TCP/IP control and setup. EDID Management. Includes TPHD-70-E-R receivers. INPUTS: 4 x HDMI (4k x 2k@60Hz signal at max) OUTPUTS: 3 x HDBaseT 3x IR OUT 1 x HDMI 1 x SPDIF and 1 x L&R RCA	1
5	Tango	Neets Tango Central Controller with LAN, iOS and Android support	1
6	TP 10"	Neets 10" TouchPanel POE excluding Table Stand	1
7	TP Table Stand	Neets Table Stand for 7" and 10" TouchPanel	1
		Audio Elements	
8	NX12x8 AEC-2	Symetrix Radius NX 12x8 AEC-2 Audio DSP	1
9	VXS8	Yamaha Surface Mount Speaker (Pair), Black, 180W(PGM), 8" Cone, Built-in Transformer	2
10	VXC6/W	Yamaha Ceiling Speaker (Per Pair), White 150W(PGM), 2-Way-6.5" Cone, Built-in Transformer.110°	2
11	PX3	2x 300W at 8Ω. 2x 500W at 4Ω. Newly developed Class-D amplifier engine with a custom LSI. Flexible onboard PEQ, crossover, filters, delay, and limiter functions. Yamaha Speaker presets	2
		Delegate System Elements	
12	HCS-4100MB/52	TAIDEN Fully Digital Congress System Main Unit (discussion, voting, 64 channels)	6
13	HCS-4890CVS_B/52	Fully Digital Congress System Chairman Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 Channels, 4.3" touch screen, printed nameplate, black)	1
14	HCS-4890DVS_B/52	Fully Digital Congress System Delegate Unit (tabletop, 3 voting keys, contactless IC-Card reader, 64 CHs, 4.3" touch screen, printed nameplate, black)	59
15	HCS-8300MES	TAIDEN 4 Channel Congress Extension unit	1
16	HCS-3316HDN_G	HD Videoconference Camera (gray)	2
17	TMX-0404SDI	4x4 High Definition Digital Video Tracking Matrix Switcher (SD/HD/3G)	1
18	TMX-HD-SDI2HDMI	3G HD-SDI to HDMI Converter	1
		Software	
19	HCS-4210/52	Basic System Setup Management Software Module	1
20	HCS-4213/50	Microphone Management Software Module	1
21	HCS-4214/50	Voting Management Software Module (including delegate management, multi-parliamentary voting, multi voting)	1
22	HCS-4215/50	Video Control Software Module	1
23	HCS-4219/50	Synchronous Audio Recording Management Software Module	1
24	HCS-4223/50	Agenda Control Software Module	1
25	HCS-4226/50	Touched/Contactless IC-Card Sign-in Management Software Module	1
26	HCS-4345TK/50	Touched IC-Card Encoder (champagne panel and gray base)	1
27	HCS-3925S	Short-distance Contactless IC-Card (100 pieces of blank card, 98×67 mm)	1
		BYOD Video Conferencing Elements	
28	Mecer PC Complete	Desktop with 19" Monitor for conference sound system	1
29	NCX700EU	NovoConnect NC-X700 Wireless collaboration with Full BYOD & mobile mirroring and Miracast	1
30	N/A	Allow for Racking	1

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31	N/A	Pro Dictate	1
32	N/A	Phillips Speech Transcription	1
33	N/A	Cabling Allowance	1
34	N/A	Installation Allowance	3

1.2	**Description of Services Required**	
Item no	**Item Description**	**Quantity Required**
1.	Support for the hardware and software for 12months per site	1
2.	Technical support on site pre and during council meetings and ad-hoc meetings for 12 months	1
3.	5 X User Operating Manuals per site	30

Annexure B: Rooms sizes and pictures for the required CoJ sites

Site Information	Site Pictures
Site Name: Alexander MPC Building **Venue**: Main Council Boardroom **Room Capacity**: 10 - 15 seater	
Site Name: Midrand Teljoy Building **Venue**: Main Council Boardroom **Room Capacity**: 20 – 25 seater	

Site Name: Lenasia Civic Centre Building **Venue:** Main Boardroom **Room Capacity:** 20 – 25 seater	
Site Name: Sandton Service Centre **Room Capacity:** 40- 50 seater	

Site Name: Jabulani Civic Center **Venue:** Jabulani Main Chamber **Room Capacity:** 20 – 25 seater	
Site Name: Roodepoort Civic Centre **Venue:** Roodepoort Main Chamber **Room Capacity:** 100 – 150 seater	