

FOSKOR



SCOPE OF REQUIREMENTS

For

Video and Audio-Conferencing, Removal, Supply, Install and Support.

SECTION C: TECHNICAL REQUIREMENTS SPECIFICATION

1. Special instructions to tenderers

- 1.1** Tenderers shall provide full and accurate answers to the questions posed in this document, and where required explicitly state either, “Comply/Not Comply” regarding compliance with the requirements. Tenderers **must** substantiate their response to all questions, including full details on how their proposal/solution will address specific functional/technical requirements. All documents as indicated must be supplied as part of the tender response. Failure to comply to the Mandatory, Technical and Functional Requirements may lead to the Tenderer being disqualified.

2. Company Background

Foskor is one of the world’s largest producers of phosphate rock (concentrate) and phosphoric acid. It is one of the world’s few vertically integrated producers of phosphoric acid and is the second largest supplier to India, the world’s largest consumer of phosphoric acid.

The Company owns and mines phosphate resources and beneficiates the mined material to produce a phosphate concentrate at Phalaborwa, in the Limpopo Province of South Africa. The phosphate concentrate is sold locally and also transported to the Richards Bay plant on the coast of Kwa-Zulu Natal to produce phosphoric acid, sulphuric acid and granular fertilisers MAP and DAP from phosphoric acid and is the leading supplier of fertilisers to South Africa. In all about 95% of the phosphoric acid is exported and the granular sales are divided between exports and local markets. Since 1951 Foskor has supplied more than 95% of South Africa’s fertiliser requirements.

3. Background Information

The current Video Conferencing equipment installed is Cisco SX10, SX20, SX80 with an additional adaptor for TEAMS connectivity. The objective is to provide a reliable, secure, robust, scalable, integrated and cost-effective video/audio conferencing system that meets Foskor’s future business collaboration and communications requirements.

4. Scope of Work

4.1 Scope Description

The scope of this project covers the following boardrooms at Foskor Group:

- Midrand:
 - Main boardroom VC;
 - 2nd boardroom VC;
- Richards Bay:
 - Main boardroom VC;
 - Meet-me room VC;
 - HR boardroom VC;
 - PR boardroom AV,
 - Executive boardroom AV
- Phalaborwa:
 - Main PR boardroom VC;
 - Management boardroom VC
 - Mining meeting Room AV
 - Production Meeting Room AV

The following activities are required per boardroom:

- Removal of current installed equipment and handover to Foskor.
- Acquisition and installation of new hardware and software.
- Integration, testing and commissioning between Sites.
- Supply technical documentation, user documentation, design documentation and drawings.
- Provide technical and user training.
- SLA agreement and maintenance plan.

The Service level agreement and maintenance plan must detail and ensure sustainability for the next 5 years for the installed equipment.

Support Response/Repair Plan All Sites			
	Low Priority	Medium Priority	Critical
Online/telephonic	immediate /unlimited	immediate /unlimited	immediate /unlimited
Onsite Support	Within business 7 days	Within 2 business days	next business day

Maintenance Plan All Sites for next 5 years	
Maintenance	OEM Annual Service Plan
Service Items	Service Items identified as per OEM
Warranty Cover	Replacement Items to be covered by warranty
Spares Parts and Stock holding	List the required spare parts list and supplier held stock holding plan

Recommended Spares list to be available for support while repairs/testing is done		
Item	Make model	Availability
Projector	As installed or latest model in range	On demand
screen	As installed or latest model in range	On demand
Amplifier	As installed or latest model in range	On demand

VC unit	As installed or latest model in range	On demand
Camera	As installed or latest model in range	On demand

The scope of work requires a replacement Video conferencing and board room equipment to equip to the latest technology and capabilities:

- Security and Privacy Capabilities
- User Login Capabilities
- Video and Audio Quality
- Gamification
- Integration Tools and Technology
- Measuring Performance – Data Analytics

4.2 Bill of Quantities

Boardroom Layout /Requirements														
Site	Room	No Seater	Room Size		Projection /Display Size	LED Support Screen	Projector/ Screen		VC/Teams unit	Mic Required	Amplified Sound & Speaker with Ceiling Mounted	Camera	Table connection -HDMI @ C Type	Comment
			Length	Width			Screen	Ceiling Mounted						
MID	Main Boardroom	30	10 M	6 M	3 M	2	0	1	1	4	6	1	4	
	Meeting Room	6	4 M	5 M	2 M	0	0	1	1	4	6	1	1	
	Small VC Room	8	5 M	3 M	1 x 65" QB65B	0	0	0	1	4	4	1	1	
	CEO Office	6	3 M	3 M	2 x 65" QB65B	0	0	0	1	2	2	1	1	
RBY	PR	20	4,5 M	9,5 M	2 M	0	0	1	0	4	6	1	3	BYOD Camera/Mic
	Main boardroom	20	5 M	11 M	2 M + 2 x 55" QM55B	0	0	1	1	4	6	1	3	
	MeetMe room	6	4 M	3,5 M	1 x 65" QB65B	0	0	0	1	4	4	0	1	
	VIP Boardroom	20	5 M	10 M	2 M	0	0	1	0	4	6	1	2	BYOD Camera/Mic
	HR Boardroom	10	5,5 M	7 M	2 X 70" qb70b	0	0	0	1	2	4	1	1	
	Club Hall	100	20 M	14 M	3M	0	0	1	0	0	10	0	1	
PHB	Boardroom	20	10 M	6,5 M	2,2 M	0	1	1	1	4	6	1	2	
	PHB: PR Room	30	12 M	9,5 M	3 M	0	1	1	1	4	6	1	3	
	Mine VC Room	8	6 M	3,5 M	2,2 M	0	0	0	1	0	4	0	1	Projector/screen installed
	Plant VC Room	8	6 M	3,5 M	2,2 M	0	0	0	1	0	4	0	1	Projector/screen installed

BILL OF QUANTITIES SPECIFICATIONS

PHB Management Room	MODEL NO.	MAKE	QTY	Available
Audio Equipment				
XPA U 1002 Two Channel High Impedance Amplifiers 100 Watts Per Channel, 100 volts	60-1761-12	Extron	1	
SoundField XD 6.5" Two-Way Ceiling Speaker with 8" Composite Back Can and 70/100 V (Pair)	60-1310-03	Extron	3	
Source Equipment				
Existing laptop interface	Existing	Existing	1	
Video Conferencing				
Microsoft Teams Rooms Pro 1yr (Renewable Annually)	PRO	Microsoft	1	
1x UVC86 12X optical PTZ 4K intelligent camera, VCR20 remote control, power adapter, wallmount bracket and cables; Yealink MCoreKit-C5 (with MCore Pro mini-PC, MTouch Plus and RoomSensor), power adapter, cables and wall bracket; The mini-PC computer preloads Windows 10 IoT Enterprise OS and license, Microsoft Teams Rooms App, as well as Yealink Camera Control Plug-in; No audio device including 2-year hardware warranty	MVC860-C5-000	Yealink	1	
Meeting Audio & Video Processor	AVHUB	Yealink	1	
VCM35 video conferencing microphone array, including 1-year AMS	VCM35	Yealink	4	
Yealink BYOD Extender for teams and Zoom Rooms - Including 1 year extended warranty	MVC BYOD Extender	Yealink	1	
Display Devices				
Full HD laser projector, 4,500-lumen, usage life of up to 30,000 hours in Eco Mode (20,000 hours normal) & covered by a five-year warranty.	EB-L200F	Epson	1	
Ceiling Mount Projector Bracket	UNI 2M	Live	1	
106" 16:9 Ratio Cyber series motorised white screen with IR & RF control & 12V trigger, 2,340 x 1,320mm.	WM-M106 CYBER-HD	Grandview	1	
12V DC POWER SUPPLY	VER-VPSU-12V-U	Linkage	1	
65" PROFESSIONAL DISPLAY - 4K UHD, 16/7 USAGE, 350NIT BRIGHTNESS	QB65B	Samsung	1	
Retractable arm Display bracket for 65"	RT 65	Live	1	
Switching & Integration				
1.8m HDMI Cable	C-MHM/MHM-6	Kramer	2	
3m USB Type-C (M) to HDMI (M) cable	C-USBC/HM-10	Kramer	1	
0.9m HDMI Cable	C-MHM/MHM-3	Kramer	2	
DTP HDMI 4K 230 Tx DTP Transmitter for HDMI	60-1271-12	Extron	2	
DTP HDMI 4K 230 Rx DTP Receiver for HDMI	60-1271-13	Extron	2	
Remote Control				
IPCP Pro 250 IP Link Pro Control Processor	60-1429-01	Extron	1	
LinkLicense User Interface Upgrade	79-2546-01	Extron	1	

PHB PR Room	MODEL NO.	MAKE	QTY	Available
Audio Equipment				
XPA U 1002 Two Channel Low and High Impedance Amplifiers 100 Watts Per Channel, 100 volts	60-1761-12	Extron	1	
SoundField XD 6.5" Two-Way Ceiling Speaker with 8" Composite Back Can and 70/100 V (Pair)	60-1310-03	Extron	4	
AUDIO CONFERENCING PROCESSOR	P300-IMX	Shure	1	
Ceiling Array Microphone, Square, White, 60 cm	MXA920W-S-60CM	Shure	1	
Gripple Mount Kit, Square, No Cover	A900-S-GM	Shure	1	
Source Equipment				
Existing laptop interface	Existing	Existing	1	
Video Conferencing				
Microsoft Teams Rooms Pro 1yr (Renewable Annually)	PRO	Microsoft	1	
1x UVC86 12X optical PTZ 4K intelligent camera, VCR20 remote control, power adapter, wallmount bracket and cables; Yealink MCoreKit-C5 (with MCore Pro mini-PC, MTouch Plus and RoomSensor), power adapter, cables and wall bracket; The mini-PC computer preloads Windows 10 IoT Enterprise OS and license, Microsoft Teams Rooms App, as well as Yealink Camera Control Plug-in; No audio device including 2-year hardware warranty	MVC860-C5-000	Yealink	1	
Meeting Audio & Video Processor	AVHUB	Yealink	1	
Yealink BYOD Extender for teams and Zoom Rooms - Including 1 year extended warranty	MVC BYOD Extender	Yealink	1	
Display Devices				
Full HD laser projector, 4,500-lumen, usage life of up to 30,000 hours in Eco Mode (20,000 hours normal) & covered by a five-year warranty.	EB-L200F	Epson	1	
Ceiling Mount Projector Bracket	UNI 2M	Live	1	
133" 16:9 Ratio Cyber series motorised white screen with IR & RF control & 12V trigger, 2,945 x 1,656mm.	WM-M133 CYBER-HD	Grandview	1	
12V DC POWER SUPPLY	VER-VPSU-12V-U	Linkage	1	
65" PROFESSIONAL DISPLAY - 4K UHD, 16/7 USAGE, 350NIT BRIGHTNESS	QB65B	Samsung	1	
Retractable arm Display bracket for 65"	RT 65	Live	1	
Switching & Integration				
1.8m HDMI Cable	C-MHM/MHM-6	Kramer	1	
7.6m HDMI Cable	C-MHM/MHM-25	Kramer	1	
3m USB Type-C (M) to HDMI (M) cable	C-USBC/HM-10	Kramer	1	
0.9m HDMI Cable	C-MHM/MHM-3	Kramer	1	
DTP HDMI 4K 230 Tx DTP Transmitter for HDMI	60-1271-12	Extron	1	
DTP HDMI 4K 230 Rx DTP Receiver for HDMI	60-1271-13	Extron	1	
Remote Control				
IPCP Pro 250 IP Link Pro Control Processor	60-1429-01	Extron	1	
LinkLicense User Interface Upgrade	79-2546-01	Extron	1	

PHB Small Meeting Room 1	MODEL NO.	MAKE	QTY	Available
Source Equipment				
Pull-through Laptop Interface (includes 1x SA Power, 1x HDMI cable, 2x USB charging ports, 1x RJ-45 network cable & pass-throughs), Black.	JS-100SA-2U-Pro	Pro Connect	1	
Video Conferencing				
JABRA - PANACAST 50, EMEA, BLACK; 180° FIELD OF VIEW, REAL-TIME WHITEBOARD STREAMING	8200-231	Jabra	1	
Jabra Panacast 50 Remote (Black)	8220-209	Jabra	1	
PanaCast 50 Screen Mount, VESA compliant	14207-72	Jabra	1	
Display Devices				
SAMSUNG 55" PROFESSIONAL DISPLAY - 4K UHD; 24/7 USAGE; 500NIT BRIGHTNESS; SOC MEDIA PLAYER: SSSP 6	QM55B	Samsung	1	
Wall mount display bracket	WB 4665	Live	1	
Switching & Integration				
LINDY 0.5M USB3.1 AMCM 3AMP CBL-BLACK LINE (36915) OLD:41875	CAB-USB3-AMCM-3A-0.5	LinkQage	1	
4.6m USB 3.0 Active Extender Cable	CA-USB3/AAE-25	Kramer	1	
1.8m HDMI Cable	C-MHM/MHM-6	Kramer	1	
4.6m HDMI Cable	C-MHM/MHM-25	Kramer	1	
4K HDR HDMI EDID Processor	PT-1C	Kramer	1	

PHB Small Meeting Room 2	MODEL NO.	MAKE	QTY	Available
Source Equipment				
Pull-through Laptop Interface (includes 1x SA Power, 1x HDMI cable, 2x USB charging ports, 1x RJ-45 network cable & pass-throughs), Black.	JS-100SA-2U-Pro	Pro Connect	1	
Video Conferencing				
JABRA - PANACAST 50, EMEA, BLACK; 180° FIELD OF VIEW, REAL-TIME WHITEBOARD STREAMING	8200-231	Jabra	1	
Jabra Panacast 50 Remote (Black)	8220-209	Jabra	1	
PanaCast 50 Screen Mount, VESA compliant	14207-72	Jabra	1	
Display Devices				
SAMSUNG 55" PROFESSIONAL DISPLAY - 4K UHD; 24/7 USAGE; 500NIT BRIGHTNESS; SOC MEDIA PLAYER: SSSP 6	QM55B	Samsung	1	
Wall mount display bracket	WB 4665	Live	1	
Switching & Integration				
LINDY 0.5M USB3.1 AMCM 3AMP CBL-BLACK LINE (36915) OLD:41875	CAB-USB3-AMCM-3A-0.5	LinkQage	1	
4.6m USB 3.0 Active Extender Cable	CA-USB3/AAE-25	Kramer	1	
1.8m HDMI Cable	C-MHM/MHM-6	Kramer	1	
4.6m HDMI Cable	C-MHM/MHM-25	Kramer	1	
4K HDR HDMI EDID Processor	PT-1C	kramer	1	

RBY Main Boardroom	MODEL NO.	MAKE	QTY	Available
Audio Equipment				
XPA U 1002 Two Channel Low and High Impedance Amplifiers 100 Watts Per Channel, 100 volts	60-1761-12	Extron	1	
SoundField XD 6.5" Two-Way Ceiling Speaker with 8" Composite Back Can and 70/100 V (Pair)	60-1310-03	Extron	3	
Source Equipment				
Existing laptop interface	Existing	Existing	1	
Video Conferencing				
Microsoft Teams Rooms Pro 1yr (Renewable Annually)	PRO	Microsoft	1	
1x UVC86 12X optical PTZ 4K intelligent camera, VCR20 remote control, power adapter, wallmount bracket and cables; Yealink MCoreKit-C5 (with MCore Pro mini-PC, MTouch Plus and RoomSensor), power adapter, cables and wall bracket; The mini-PC computer preloads Windows 10 IoT Enterprise OS and license, Microsoft Teams Rooms App, as well as Yealink Camera Control Plug-in; No audio device Including 2-year hardware warranty	MVC860-C5-000	Yealink	1	
Meeting Audio & Video Processor	AVHUB	Yealink	1	
VCM35 video conferencing microphone array, including 1-year AMS	VCM35	Yealink	3	
Yealink BYOD Extender for teams and Zoom Rooms - Including 1 year extended warranty	MVC BYOD Extender	Yealink	1	
Display Devices				
Full HD laser projector, 4,500-lumen, usage life of up to 30,000 hours in Eco Mode (20,000 hours normal) & covered by a five-year warranty.	EB-L200F	Epson	1	
Ceiling Mount Projector Bracket	UNI 2M	Live	1	
133" 16:9 Ratio Cyber series motorised white screen with IR & RF control & 12V trigger, 2,945 x 1,656mm.	WM-M133 CYBER-HD	Grandview	1	
12V DC POWER SUPPLY	VER-VPSU-12V-U	Linkage	1	
65" PROFESSIONAL DISPLAY - 4K UHD, 16/7 USAGE, 350NIT BRIGHTNESS	QB65B	Samsung	1	
Wall mount display bracket	WB 4665	Live	1	
Switching & Integration				
1.8m HDMI Cable	C-MHM/MHM-6	Kramer	2	
3m USB Type-C (M) to HDMI (M) cable	C-USBC/HM-10	Kramer	1	
0.9m HDMI Cable	C-MHM/MHM-3	Kramer	2	
DTP HDMI 4K 230 Tx DTP Transmitter for HDMI	60-1271-12	Extron	2	
DTP HDMI 4K 230 Rx DTP Receiver for HDMI	60-1271-13	Extron	2	
Remote Control				
IPCP Pro 250 IP Link Pro Control Processor	60-1429-01	Extron	1	
LinkLicense User Interface Upgrade	79-2546-01	Extron	1	

RBV Meet Me Room	MODEL NO.	MAKE	QTY	Available
Source Equipment				
Pull-through Laptop Interface (includes 1x SA Power, 1x HDMI cable, 2x USB charging ports, 1x RJ-45 network cable & pass-throughs), Black.	JS-100SA-2U-Pro	Pro Connect	1	
Video Conferencing				
JABRA - PANACAST 50, EMEA, BLACK; 180° FIELD OF VIEW, REAL-TIME WHITEBOARD STREAMING	8200-231	Jabra	1	
Jabra Panacast 50 Remote (Black)	8220-209	Jabra	1	
PanaCast 50 Screen Mount, VESA compliant	14207-72	Jabra	1	
Display Devices				
Existing Floor to ceiling mount Pole and bracket	Existing	Existing	1	
SAMSUNG 55" PROFESSIONAL DISPLAY - 4K UHD; 24/7 USAGE; 500NIT BRIGHTNESS; SOC MEDIA PLAYER: SSSP 6	QM55B	Samsung	1	
Switching & Integration				
LINDY 0.5M USB3.1 AMCM 3AMP CBL-BLACK LINE (38915) OLD:41875	CAB-USB3-AMCM-3A-0.5	LinkQage	1	
4.6m USB 3.0 Active Extender Cable	CA-USB3/AAE-25	Kramer	1	
1.8m HDMI Cable	C-MHM/MHM-8	Kramer	1	
4.6m HDMI Cable	C-MHM/MHM-25	Kramer	1	
4K HDR HDMI EDID Processor	PT-1C	kramer	1	

RBY BYOD 20 Seater 1	MODEL NO.	MAKE	QTY	Available
Source Equipment				
Existing Laptop interface (Barn door style)	Existing	Existing	3	
Video Conferencing				
LOGITECH RALLY PLUS - Premium, modular video conferencing system with unmatched video and audio performance. With two speakers and two mic pods, Rally Plus adapts to any room shape or layout.	980-001242	Logitech	1	
RALLY MIC POD - Use up to seven pods. Each additional mic accommodates up to six more seats.	989-000430	Logitech	1	
RALLY MOUNTING KIT - Recommended mounting option for Logitech Rally	939-001644	Logitech	1	
LOGITECH - RALLY MIC POD HUB - FLEXIBLE MICROPHONE PLACEMENT FOR RALLY AND RALLY PLUS.	939-001647	Logitech	1	
Display Devices				
Full HD laser projector, 4,500-lumen, usage life of up to 30,000 hours in Eco Mode (20,000 hours normal) & covered by a five-year warranty.	EB-L200F	Epson	1	
Ceiling Mount Projector Bracket	UNI 2M	Live	1	
106" 16:9 Flat Fixed Frame Screen, White, 2346 x 1319mm viewing size, 80mm black velvet frame.	PERM106-HD	Grandview	1	
Fixed Frame 100mm Spacer	Custom - Fixed Frame / 100mm Spacer (pair of 2)	Live	2	
Rally Cam 100mm Spacer	Custom - Custom - Rally Cam / 100mm Spacer	Live	1	
Switching & Integration				
10.7m HDMI (M) to HDMI (M) Flat Cable with Ethernet Support	C-HM/HM/FLAT/ETH-35	Kramer	1	
KRAMER USB 3.0 A (M) TO B (M) CABLE - 1.8M	CABKUSB3AB6	Kramer	1	
1.8m HDMI Cable	C-MHM/MHM-6	Kramer	1	
4:2:0 HDMI Controller	PT-12	Kramer	1	

RBY BYOD 20 Seater 2	MODEL NO.	MAKE	QTY	Available
Source Equipment				
Existing Laptop interface (Barn door style)	Existing	Existing	3	
Video Conferencing				
LOGITECH RALLY PLUS - Premium, modular video conferencing system with unmatched video and audio performance. With two speakers and two mic pods, Rally Plus adapts to any room shape or layout.	980-001242	Logitech	1	
RALLY MIC POD - Use up to seven pods. Each additional mic accommodates up to six more seats.	989-000430	Logitech	1	
RALLY MOUNTING KIT - Recommended mounting option for Logitech Rally	939-001644	Logitech	1	
LOGITECH - RALLY MIC POD HUB - FLEXIBLE MICROPHONE PLACEMENT FOR RALLY AND RALLY PLUS.	939-001647	Logitech	1	
Display Devices				
Full HD laser projector, 4,500-lumen, usage life of up to 30,000 hours in Eco Mode (20,000 hours normal) & covered by a five-year warranty.	EB-L200F	Epson	1	
Ceiling Mount Projector Bracket	UNI 2M	Live	1	
106" 16:9 Flat Fixed Frame Screen, White, 2346 x 1319mm viewing size, 80mm black velvet frame.	PERM106-HD	Grandview	1	
Fixed Frame 100mm Spacer	Custom - Fixed Frame / 100mm Spacer (pair of 2)	Live	2	
Rally Cam 100mm Spacer	Custom - Custom - Rally Cam / 100mm Spacer	Live	1	
Switching & Integration				
10.7m HDMI (M) to HDMI (M) Flat Cable with Ethernet Support	C-HM/HM/FLAT/ETH-35	Kramer	1	
KRAMER USB 3.0 A (M) TO B (M) CABLE - 1.8M	CABKUSB3AB6	Kramer	1	
1.8m HDMI Cable	C-MHM/MHM-6	Kramer	1	
4:2:0 HDMI Controller	PT-12	Kramer	1	

RBY HR Room	MODEL NO.	MAKE	QTY	Available
Source Equipment				
Existing laptop interface	Existing	Existing	1	
Video Conferencing				
Microsoft Teams Rooms Pro 1yr (Renewable Annually)	PRO	Microsoft	1	
1x UVC86 12X optical PTZ 4K intelligent camera, VCR20 remote control, power adapter, wallmount bracket and cables; Yealink MCoreKit-C5 (with MCore Pro mini-PC, MTouch Plus and RoomSensor), power adapter, cables and wall bracket; The mini-PC computer preloads Windows 10 IoT Enterprise OS and license, Microsoft Teams Rooms App, as well as Yealink Camera Control Plug-in; No audio device including 2-year hardware warranty	MVC860-C5-000	Yealink	1	
VCM35 video conferencing microphone array, including 1-year AMS	VCM35	Yealink	1	
Yealink BYOD Extender for teams and Zoom Rooms - Including 1 year extended warranty	MVC BYOD Extender	Yealink	1	
Soundbar	Mspeaker	Yealink	2	
Display Devices				
Existing Dual floor to ceiling mount kit	Existing	Existing	1	
75" PROFESSIONAL DISPLAY - 4K UHD, 24/7 USAGE, 500NIT	QM75B	Samsung	2	
Back grid mounting plate	FTC BGRID	Live	1	
FTC camera arm for FTC systems - yealink UVC86	FTC CAMARM (Yealink UVC86)	Live	1	
FTC Bunny Ears VEESA mount FTC bracket	FTC BUNNY	Live	2	
Switching & Integration				
3m HDMI Cable	C-MHM/MHM-10	Kramer	1	
1.8m HDMI Cable	C-MHM/MHM-6	Kramer	1	
3m USB Type-C (M) to HDMI (M) cable	C-USBC/HM-10	Kramer	1	
8-Port Gigabit Ethernet PoE+ Unmanaged Switch with 120W PoE Budget, Rack-mount or Wall-mount	GS108PP-100EUS	Netgear	1	

BILL OF QUANTITIES

RBY Club	MODEL NO.	MAKE	QTY	Available
Audio Equipment				
DMP 64 Plus C AT 6x4 Digital Matrix Processor w/ AEC and Dante	60-1823-10	Extron	1	
XPA U 1004-100V Four Channel Low and High Impedance Amplifiers 100 Watts Per Channel	60-1760-12	Extron	1	
SF 26CT 6.5" 2-Way Ceiling Spkrs, 70/100V, Complete Pair	60-1310-03	Extron	3	
SM 26 SpeedMount Two-Way Surface Mount Speakers with 6.5" Woofer, SM 26T Transformer - White, Pair	60-1308-13	Extron	2	
SHURE - SLXD4DE--G59 - DUAL RECEIVER 470-514MHZ	SLXD4DE-G59	Shure	1	
SHURE - SLXD2/SM58--G59 - HANDHELD W/ SM58 MIC 470-514MHZ	SLXD2/SM58- G59	Shure	1	
SHURE - SLXD1--G59 - BP TRANSMITTER 470-514MHZ	SLXD1-G59	Shure	1	
SHURE - WL185 - MICROPHONE.CARDIOID LAVALIER	WL185	Shure	1	
Display Devices				
Existing Projector screen	TBC	Existing	1	
12V DC POWER SUPPLY	VER-VPSU-12V- U	Linkqage	1	
5,200 lumens, Full HD WUXGA highbrightness laser Projector	EB-L520U	Epson	1	
Projector pole & bracket	UNI 2M	Live	1	
Switching & Integration				
HC 403 Meeting Space Collaboration System – Decorator-Style Wallplate Switcher, White (Includes VGA, mini-jack audio, HDMI & built in controller)	42-271-01	Extron	1	
IPA T RLY4 IP Link Accessory with Four Relays accessory (I/O to Relay converter)	60-545-03	Extron	1	
4,6m HDMI Cable	C-MHM/MHM-15	Kramer	1	
4,6m VGA + Audio Cable	C-MGMA/MGMA- 15	Kramer	1	
3m HDMI Cable	C-MHM/MHM-10	Kramer	1	
Remote Control				
NBP 105 D Network Button Panel with 5 Buttons - Decorator-Style Wallplate	60-1688-01	Extron	1	
NBP 105 D buttons	SB-100-004697	Extron	1	

4.3 Scope – Extent of work or Service Required

- Service provider to showcase their equipment installations or showroom.
- Service provider must provide accreditation/expertise and experience in the business
- Service provider must provide the resource capacity and ability structure to

- provide maintenance services/ technical support
- All rooms must be fully teams compatible and link to each other.
- Rooms must be compatible with BYOD (Bring Your Own Device), for communication and presentations.
- All rooms must also have their own equipment to connect to teams. (No BYOD)
- All equipment, for example (amplifier) must be placed in a cabinet, complete with 2KVA UPS.
- Cabling and Trunking- comply to ISO standards.
- Equipment to be IP Rated for dust and moisture.
- Equipment must be equipped with electronic protection units.
- Work execution to be done during Foskor's business hours.

4.4 Project Deliverables

The deliverables for this project include:

- Project Management Documentation (Project Plan, Risk Register)
- Service Level Agreement
- Spare Parts List
- User and Technical training
- Warrantee Certification
- Drawings, documentation, manuals
- Software
- Installation Setups and configurations

4.5 On Site Supervision Requirements Contractor to appoint Legal appointees.

Safety Talks,

HIRA/Clearance compliance

4.6 Tender Deliverables

The deliverables will include: -

- Complete Foskor pricing schedule (BOQ)
- Preliminary Project Schedule
- Preliminary method statement to execute the site work.
- Tax Clearance
- Letter of Good standing (Workman compensation)
- BBBEE Certificate
- Commercial documents requested by Procurement.
- Not submitting the required documentation or not completing the documentation (Pricing Schedule) correctly will lead to a disregard of the tender.
- Take note of the tender evaluation documents that need to be submitted.