

TENDER NO. ELCOT/Networks/OT/32873/PA System/2016						
Supply and Commissioning of Public Address Systems and Video Cameras on Rate Contract basis						
CORRIGENDUM -1						
The Tender document was released on 19.01.2016 and the Pre - bid meeting was held on 25.01.2016. Corrigendum -1 is part of the Tender document dated 19.01.2016. The Bidders should submit the corrigendum also. During the submission of the bid; bidders should submit the signed and sealed Corrigendum - 1 without fail.						
Sl. No.	Page No.	Chapter	Clause No.	Title	Existing	Read as
1	73	Annexure – A Technical Specifications	-	9	Technical Specifications for Professional Power Amplifier 2 x 600W / 2 x 900W @ 2 Ohms.	Technical Specifications for Professional Power Amplifier 2 x 600W @ 4 ohms / 2 x 900W @ 2 Ohms
2	74	Annexure – A Technical Specifications	-	10	Technical Specifications for Professional Power Amplifier 2 x 900 W / 2 x 1250W @ 2 Ohm	Technical Specifications for Professional Power Amplifier 2 x 900 W @ 4 ohms / 2 x 1250W @ 2 Ohms
3	102	Annexure – A Technical Specifications	-	39	Technical Specifications for 16W Metal Ceiling Loudspeaker	Technical Specifications for 20W Metal Ceiling Loudspeaker
4	135	Annexure – A Technical Specifications	-	88	Technical Specifications for Digital Still Camera 20MP 1/23" CCD Sensor 42 X Optical Zoom – Existing Specification Deleted	Technical Specifications for Digital Still Camera 20MP 1" MOS Sensor 16X Optical Zoom. New Technical Specification is indicated below
5	113	Annexure – A Technical Specifications	-	55	Technical Specifications for Headworn Microphone S.No.10.Element - PL22 Cardioid Dynamic	Technical Specifications for Headworn Microphone S. No.10.Element – Omni Directional Headworn
6	113	Annexure – A Technical Specifications	-	55	Technical Specifications for Headworn Microphone	Technical Specifications for Headworn Microphone S.No.20. - Deleted

TENDER NO. ELCOT/Networks/OT/32873/PA System/2016						
					S.No.20.Features- ClearScan automatically finds the clearest channel <ul style="list-style-type: none"> • EZsync one-step channel setup • PL22 cardioid dynamic microphone element • 14 hour battery life from two AA alkaline • Rugged metal transmitter • Metal receiver chassis with optional rack mount 	
7	114	Annexure – A Technical Specifications	-	56	Technical Specifications for Handheld System Dynamic Microphone S.No.10.Element - PL22 Cardioid Dynamic	Technical Specifications for Handheld System Dynamic Microphone S.No.10 - Cardioid Dynamic
8	115	Annexure – A Technical Specifications	-	56	Technical Specifications for Handheld System Dynamic Microphone <ul style="list-style-type: none"> • S.No.20. Features - PL22 cardioid dynamic microphone element 	S.No.20. Technical Specifications for Handheld System Dynamic Microphone
9	115	Annexure – A Technical Specifications	-	57	Technical Specifications for Lapel System Microphone System S.No.11.Element - ULM18 Directional Microphone	Technical Specifications for Lapel System Microphone System S.No.11 Element - Directional Microphone

TENDER NO. ELCOT/Networks/OT/32873/PA System/2016						
10	115	Annexure – A Technical Specifications	-	57	Technical Specifications for Lapel System Microphone System • S.No.22. Features - ULM18 directional lavalier microphone	S.No.22. Technical Specifications for Lapel System Microphone System
11	116	Annexure – B Bill of Materials	To add	-	-	Bill of Materials - Enclosed as separate sheet
12	161	Price Bid	-	88	Digital Still Camera 20MP 1/23" CCD Sensor 42X Optical Zoom	Digital Still Camera 20MP 1" MOS Sensor 16X Optical Zoom

(88) Technical Specifications for Digital Still Camera 20MP 1" MOS Sensor 16X Optical Zoom

Part code: CAM002

Sl. No	Description		Compliance: Yes/No
	Pixels	Actual: 20 Megapixel Effective: 20 Megapixel	
	Sensor	1" MOS	
	File Formats	Still Images: JPEG, RAW Movies: AVCHD Ver. 2.0, MP4 Audio: AAC, Dolby Digital 2ch	
	Max Resolution	20 MP: 5472 x 3648	
	Aspect Ratio	1:1, 3:2, 4:3, 16:9	
	Image Stabilization	Optical, 5-Way	
	Lens	Leica DC Vario-Elmarit, 15 elements in 11 groups 5 Aspherical, 4 ED EFL: 9.12-146mm (35 mm equivalent: 25-400mm) Aperture: f/2.8 (W) - 4 (T) to f/11	
	Filter Thread	62mm	
	Zoom	Optical: 16x Extra Optical Zoom (EZ): 22.4x Extra Optical Zoom (EZ): 32x Intelligent Zoom: 32x Digital: 4x	
	Focus Range	Wide: 11.81" (30 cm) - Infinity Telephoto: 3.28' (1 m) - Infinity Wide Macro: 1.18" (3 cm) - Infinity Tele Macro: 3.28' (1 m) - Infinity	
	ISO Sensitivity	Auto, 125-12800 (Extended Mode: 80-25600)	
	Shutter	Type: Mechanical Speed: 60 - 1/4000 seconds Type: Electronic Speed: 1 - 16,000 seconds 2 - 0 seconds in Bulb Mode	
	Exposure Metering	Center-weighted, Multi, Spot	

	Exposure Modes	Modes: Aperture Priority, Manual, Programmed Auto, Shutter Priority Compensation: -5 EV to +5 EV (in 1/3 EV steps)	
	Shooting Modes	Bleach-Bypass Cross-Process Dynamic Monochrome Expressive Fantasy High Dynamic High-Key Impressive Art Low Key Miniature Effect Monochrome Old Days One Point Color Retro Rough Monochrome Sepia Silky Monochrome Soft Focus Star Filter Sunshine Toy Camera Effect Toy Pop	
	White Balance Modes	Auto, Cloudy, Color Temperature, Daylight, Flash, Incandescent, Shade, White Set 1, White Set 2, White Set 3, White Set 4	
	Continuous Shooting	Up to 30fps frames Up to 12 fps frames Up to 7 fps frames Up to 2 fps frames	
	Self Timer	2 Sec, 10 Sec	
	Remote Control	DMW-RSL1 (Optional)	
	Flash Modes	1st Curtain Sync Auto Auto/Red-eye Reduction Forced On Forced On/Red-eye Reduction Off Second-curtain Sync Slow Sync Slow Sync/Red-eye Reduction	
	Built-in Flash	Yes	
	Maximum Effective Flash Range	Wide: 0.98 - 44.29' (0.3 - 13.5 m) Telephoto: 3.28 - 31.17' (1 - 9.5 m)	

	External Flash Connection	Hot Shoe	
	Memory Card Type	SD SDHC SDXC	
	Video Recording	Yes, NTSC	
	Resolution	3840 x 2160p: 30 fps 1920 x 1080p: 60 fps, 30 fps, 24 fps 1280 x 720p: 30 fps 640 x 480p: 30 fps	
	Video Clip Length	Up to 29 Min 59 Sec	
	Audio Recording	Built-in Mic: With Video, Stereo Optional External Mic: With Video	
	Viewfinder Type	Electronic	
	Viewfinder Coverage	100%	
	Screen	3.0" LCD Rear Screen Swivel (921,000 pixels)	
	Screen Coverage	100%	
	Connectivity	1/8" Microphone, 2.5mm Sub-mini (3-Ring), AV / USB Multi, AV Output, HDMI D (Micro), USB 2.0	
	Wi-Fi	Yes, 802.11b/g/n built-in	
	Battery	1x DMW-BLC12 Rechargeable Lithium-Ion Battery Pack, 7.2 VDC, 1200 mAh	
	AC Power Adapter	DMW-AC10 (Optional)	

Annexure -B					
Bill of Materials					
S.no	Part Code	Item Description	Make	Model	Remarks
1	CMS001	Conference Mic system - Control unit (Premium Series)			
2	CMS002	Conference Microphone systems Delegate unit / Chairman Unit (Premium series)			
3	CMS003	10 meter extension cable for Premium series conferencing Mic systems			
4	CMS004	Conference Mic system- control unit (Economical series)			
5	CM5005	Conference Microphone systems Chairman unit (Economical series)			
6	CMS006	Conference Microphone systems Delegate unit (Economical series)			
7	CMS007	10 meter extension cable for conferencing Mic systems (Economical series)			
8	AMP001	Professional Power Amplifier, 2 x 450 W @ 4 Ohms / 2 x 650W @ 2 Ohms.			
9	AMP002	Professional Power Amplifier with 2 x 600W @ 4 Ohms / 2 x 900W @ 2 Ohms.			
10	AMP003	Professional Power Amplifier With 2 x 900 Watts @ 4 Ohms /2 x 1250W @ 2 Ohms			
11	AMP004	Professional Power Amplifier With 2 x 1200W @ 4Ohms / 2x 1800W @ 2 Ohms			
12	AMP005	Commercial Power Amplifier single channel 250 watts mono for 70/100 V lines			
13	AMP006	Dual 250 W per channel power amplifier 70/100 V lines / Bridged out 540 W @ 8 Ω			
14	AMP007	Dual 400 W per channel power amplifier 70/100 V lines / Bridged mono out 860 W @ 8 Ω			
15	AMP008	Quad 150 W per channel power amplifier @ 4Ω /Bridged mode for dual 315 W outputs @ 8 Ω			

16	AMP009	Mixer Amplifier 60 Watts			
17	AMP010	Mixer Amplifier 120 watts			
18	AMP011	Mixer Amplifier 240 watts			
19	AMP012	Pre-amplifier with 6 Zone Operation.			
20	AMP013	Voice Alarm Controller			
21	AMP014	Voice Alarm Router			
22	AMP015	Reliable portable PA System with Collar Microphone			
23	SPK001	200 watt 8" two-way Passive speaker system			
24	SPK002	200 watt 8" two-way passive weatherized speaker system			
25	SPK003	8" 200W two-way weatherized speaker system Multi-Tap 70/100V Transformer			
26	SPK004	12" Two way Powered Loudspeaker, 1000 W (Class D)			
27	SPK005	15" Two way Powered Loudspeaker, 1000 W (Class D)			
28	SPK006	2 Way 12" Passive Loudspeaker BLK (350 Watt)			
29	SPK007	2 Way 15" Passive Loudspeaker, BLK (400Watt)			
30	SPK008	2 Way 12" Powered Loudspeaker (1500W)			
31	SPK009	2 Way 15" Powered Loudspeaker (1500W)			
32	SPK010	6W Cabinet Loudspeaker			
33	SPK011	12W Cabinet Loudspeaker			
34	SPK012	12W Bidirectional Cabinet Loudspeaker			
35	SPK013	15 W Premium Sound Cabinet Loudspeaker			
36	SPK014	30 W Premium Sound Cabinet Loudspeaker			
37	SPK015	6W Metal Ceiling Loudspeaker			
38	SPK016	12 Watt Ceiling Speaker			
39	SPK017	20 Watt Ceiling Speaker			
40	SPK018	30W Horn Speaker			
41	SPK019	15W Horn Speaker			
42	SPK020	4-inch two-way coaxial ceiling loudspeaker			
43	SPK021	8-inch two-way coaxial ceiling loudspeaker			

44	SWR001	15" Single Passive Sub-Woofer, BLK (400 watt)			
45	SWR002	18" Single Passive Sub-Woofer, BLK (400 watt)			
46	SWR003	15" Single Powered Sub-Woofer, BLK (1300 W)			
47	SWR004	18" Single Powered Sub-Woofer, BLK (1300 W)			
48	MIC001	Dynamic supercardioid Handheld microphone with On/ Off Switch			
49	MIC002	Dynamic supercardioid Kick drum microphone			
50	MIC003	Dynamic Tom, Snare & Instrument Microphone			
51	MIC004	Premium Dynamic Vocal Microphone			
52	MIC005	Wired boundary multi-pattern condenser microphone			
53	MIC006	12" Gooseneck Multi-Pattern Condenser Desk Microphone			
54	MIC007	18" Gooseneck Multi-Pattern Condenser Desk Microphone			
55	MIC008	Head worn Microphone			
56	MIC009	UHF Handheld Wireless Microphone System			
57	MIC010	UHF Lapel Wireless Microphone System			
58	MIC011	6 Zone Call Station Microphone			
59	BKT001	Wall Mount Bracket for 12" Loudspeaker			
60	BKT002	Wall Mount Bracket for 15" Loudspeaker			
61	BKT003	Truss Clamp Adapter for 12" and 15" Passive and Powered Loudspeaker			
62	STD001	Table Mic stand			
63	STD002	Floor Mic stand			
64	STD003	Steel subwoofer stand			
65	STD004	Aluminium tripod speaker stand			
66	DVD001	DVD Player with HDMI output, USB Port, CD/DVD/Divx/VCD/ mp3 playback with Remote control			
67	DVD002	MP3 player & Recorder for Audio recording			
68	CAB001	2 core 1.5 sq mm Speaker Cable with 3/4" PVC Pipe			

69	CAB002	2 core 14/36 shielded Mic Cable with 3/4" inch PVC pipe and accessories			
70	CAB003	3 core 1.5 sqmm Power Cable with 3/4" inch PVC pipe and accessories			
71	CAB004	HDMI over cat 6 cable transmitter receiver in pair			
72	RAC001	Audio -Visual 42 U Rack with 6 Trays and Power Manager			
73	RAC002	Audio -Visual 27 U Rack with 4 Trays and Power Manager			
74	RAC003	Audio -Visual 17 U Rack with 3 Trays and Power Manager			
75	MIC012	Microflex Boundary Microphone with I/O Support			
76	DSP001	Digital Signal processor with 2 input and 6 output for connecting Speakers			
77	DSP002	12 X 8 Digital Matrix Processors for connecting Microphones			
78	MGC001	8 - Channel Mixing Console			
79	MGC002	12-Channel Mixing Console			
80	MGC003	16-Channel Mixing Console			
81	SPK023	20W wireless Bluetooth Speaker			
82	STB001	5 KVA Manually Operated Voltage Stabilizer			
83	STB002	2 KVA Manually Operated Voltage Stabilizer			
84	CON001	Connectors Required for Auditorium Setup (upto 500 seater):			
85	CON002	Connectors Required for Board Room Setup (upto 50 People):			
86	CON003	Connectors Required for Conference Room Setup: (upto 25 People)			
87	CAM001	Professional Video Camera			
88	CAM002	Digital Still Camera 20MP 1" MOS Sensor 16X Optical Zoom			
89	CAM003	Digital Still Camera 12.1 MP 1/2.3" MOS Sensor 24X Optical Zoom			
90	CAM004	Full HD Camcorder 1080/60p Video Recording 10 Megapixel Still Images 2.51 Megapixel 1/5.8" MOS Sensor			

91	CAM005	Full HD Camcorder Record Full HD Video 24 MP Stills 1/2.3" Back-Illuminated MOS Sensor			
92	CAM006	Ultra HD Camcorder 4K Ultra HD Video 25.9 MP Stills 1/2.3" Back-Illuminated MOS Sensor			
93	CAM007	HD PTZ Conference Camera			
94	CAM008	Tripod stand for Professional Video Camera			
95	CAM009	Additional Battery for Professional Video Camera			
96	CAM010	32GB SDHC card for professional Video camera			
97	CAM011	Bag for Professional Video Camera			
98	CAM012	Bag for Camcorder			
99	CAM013	Bag for Still Camera			
100	CLK001	LED Standalone Clock – Big Cabinet Size -10" x 16" X 3"(H x L x D)			
101	CLK002	LAN Clock Small Size -Cabinet Dimension 9" x 28" x 3 " (H x L x D)			
102	CLK003	LAN Clock Big Size - Cabinet Dimension 16" x 41" x 3" (H x L x D)			
103	CLK004	Server for LAN clock			
104	LSB001	LED Scrolling Board Cabinet Size- 16" x 66" (H x L)			
105	LED001	24" LED display with RF Tuner			
106	LED002	28" LED display with RF Tuner			
107	LED003	32" LED display with RF Tuner			
108	LED004	40" LED display with RF Tuner			
109	LED005	50" LED display with RF Tuner			
110	LED006	55" LED display with RF Tuner			
111	LED007	60" LED display with RF Tuner			

Note:

The Bidder is advised to Quote the Make and Model of the each item in the above Bill of Materials as per the technical specifications indicated in the tender.