	Electronics Corporation of Tamil Nadu Limited
ELCOT
Adding Value through IT	

Rate Contract Tender

**Supply, Installation and Commissioning of
Display Monitor & TV**

Tender Ref.
ELCOT/PROC/OT/33189/ Display Monitor & TV/RC/ 2018-19

Corrigendum No. 2 to the Tender Document

CORRIGENDUM TO THE TENDER DOCUMENT

The following Corrigendum to the Tender Document is hereby issued:-

S. N	Title of the clause	Existing	To be read as
1	Page No.16 : Clause No.4- Eligibility Criteria- Point No.5	The Bidder shall have an Average Annual Turnover of Rs.5 (Five) Crores or above in the last three successive Audited Financial Years.	The Bidder shall have an Average Annual Turnover of Rs.3 (Three) Crores or above in the last three successive Audited Financial Years.
2	Page No.16 : Clause No.4- Eligibility Criteria- Point No.6	The Bidder shall have executed Single order for supply, installation and commissioning of SMART TV for a value of at least Rs. 3 Lakhs and above for any Government Departments / Organisations / Public Sector Undertakings in Tamil Nadu in the last 3 years.	The Bidder shall have executed Single order for supply, installation and commissioning of Display Monitor / TV/Smart phone for a value of at least Rs. 3 Lakhs and above for any Government Departments / Organisations / Public Sector Undertakings in Tamil Nadu in the last 3 years.
3	Page No.15 : Clause No.4- Eligibility Criteria- Point No.3	Display Monitor & TV - OEMs or their authorised Dealers/ Distributors are only eligible to Bid.	Display Monitor / TV/Smart Phone - OEMs or their authorised Dealers/ Distributors are only eligible to Bid.
4	Page no.17 to 41- Clause No.5.Specification : Item code 33189-001 to 33189-023: Parameter: Certifications	The display should have the following standards certification a) RoHS compliant – For environment b) UL/IEC – for safety c) FCC – for radiation regulation d) BIS certificate	BIS or Certification from any other reputed labs in India approved by Govt. of India complying to the specified environment, saftey and radiation regulation standards
5	Page No. 50- Clause No. 7- Tender opening and Evaluation- Section- 7.5.3- Price Bid Evaluation	**• Partial bid is not allowed in this tender.** d) The prices will be evaluated as follows and the decision of ELCOT will be the final. The total cost excluding applicable Local Taxes and including all other duties and charges (Such	**• Partial bid is allowed in this tender.** d) The prices will be evaluated as follows and the decision of ELCOT will be the final. The total cost excluding applicable Local Taxes and including all other duties and charges (Such

		as Excise Duty, Customs Duty, Installation Charges etc., as per the guidelines stated above) of all the tendered items along with the CAMC charges for 2_{nd} and 3_{rd} years will be taken for Price Bid evaluation. The total/Over all rates (price for individual items along with CAMC charges) quoted by the bidders will be taken for the price bid evaluation. The bidder who has become lowest in overall total will be considered as L1 bidder. The L1 Bidder will be negotiated to reduce the quoted price further and to match L1 Price of the items(if any),where they have not become L1. Other qualified bidders will be negotiated to match the overall L1 rates. If more than one Bidder matches the overall L1 Price, then order will be placed more than one Bidder, who matches the overall L1 Price. However, preference will be given to the L1 Bidder. The L1 Bidder will be given an order value more than the other Bidders, who match the L1 Price. The L1 will be given not less than 60% subject to or restricted to their capacity (manufacturing or trading). The decision of ELCOT will be the final.	as Excise Duty, Customs Duty, Installation Charges etc., as per the guidelines stated above) of the individual line items along with the CAMC charges for 2_{nd} and 3_{rd} years will be taken for Price Bid evaluation.However, the L1 bidder has to match the lowest rate / AMC of the individual line item of other bidders, where they have not become L1. Similarly the L2 bidders have to match the final negotiated rate / price of L1. The L1 Bidder as well as all the Technically Qualified Bidders will be negotiated to match L1 Price. If more than one Bidder matches the L1 Price, then order will be placed more than one Bidder, who matches the L1 Price. However, preference will be given to the L1 Bidder. The L1 Bidder will be given an order value more than the other Bidders, who match the L1 Price. The decision of ELCOT will be the final.
6	Page no.27 to 31 & 37-Clause No.5.Specification : Item code 33189-010 to 33189-014 & 33189-020: Parameter: Ports	6) RJ 45 X 1	Removed.
7	Specification		11 New Items added (8 Main Items + 3 Addon Items) - Specification given in Annexure – I.

Note: (The above corrigendum is applicable to all other clauses which contains the respective terms in the tender document)

Annexure-I

ELCOT/Proc/OT/33189/Display Monitor & TV/RC/2018-19

Code	Item Description	Make	Appx. Qty
33189-001	4K INTERACTIVE FLAT PANEL- 65" Android with Optional Windows Pc	Any reputed make	1 No.

S.No	Parameter	Specification
1	Technology	TFT LCD with DLED Backlit
2	Display Size (diagonal)	65"
3	Aspect Ratio	16:9 or higher
4	Resolution	3840 x 2160 4K Ultra HD
5	Flicker Free	Yes with Blue Light Filter
6	Processor	ARM Cortex A53 Quad Core 1.25Hz
7	Storage	eMMC 16GB
8	Contrast Ratio	1200:1 (typ)
9	Brightness	350 nits
10	Display Colour	1.07 Billion colors
11	Input Ports	HDMI x 3; VGA x 1; Display Port x 1 ; Audio x 1 ; CVBS (AV) ; RS 232 x 1; PC Slot x 2; Slot In For PC Built-in x 1; Wi-Fi Module Slot Built-in x1;
12	Output Ports	HDMI x 1; Audio (Earphone out) x 1; SPIDF x 1; LAN
13	LAN	RJ 45 x 1
14	USB	3.0 Type A x 3; 2.0 Type A x 3 2.0 Type B (For Touch) x 2
15	Speakers	16W x 2
16	Touch	Type: IR Recognition; Touch Resolution: 32767 x 32767 Touch Point : 20 Points Writing : 10 Points Response Time: < 15ms Supports: Windows 10 / Windows 8 / Windows 7 / Windows XP / Vista / Linux/ MAC / Android / Wince / Chrome
17	Anti Scratch – Anti Glare	Minimum 7H scratch resistant and Anti Glare

18	Mirror Extending	Flexibility to allow content to be mirrored on two IFP simultaneously through HDMI Out
19	Save Option	Built-in save option directly to Google Drive, One Drive and DropBox
20	Quiz	Built in Tool to allow participants to submit answers from their Smart Phones using as answering/voting device.
21	Zoom Video Conferencing	Built in Zoom Video Conferencing as an integral part of IFP
22	QR Code Scan	File download in smart phone just by scanning the QR code
23	Email	Facility to email the whole annotation file directly without saving File.
24	Split Screen	The software should have built-in facility to split the screen in 2, 4 or max.6 for simultaneous function / working on various application
25	Power Consumption	350W (typ)
26	Built-in PC Slot	Should have slot for the built-in PC
27	Certifications	BIS, FCC,CE,CB, and cTUVus
28	(Optional) Slot in Windows PC	OPS Intel i5Processor , Intel HD Graphics Max resolutions 4096*2304 @64 bit, 8GB RAM, 128 SSD HDD, Intel Dual Band Wireless (WiFi), Windows 10 Professional
29	Stand (Optional)	Wall Mount Stand Kit
30	Stand (Optional)	Floor Mount Stand Kit

Code	Item Description	Make	Appx. Qty
33189-002	4K INTERACTIVE FLAT PANEL- 75" Android with Optional Windows Pc	Any reputed make	1 No.

S.No	Parameter	Specification
1	Technology	TFT LCD with DLED Backlit
2	Display Size (diagonal)	75"
3	Aspect Ratio	16:9 or higher.
4	Resolution	3840 x 2160 4K Ultra HD
5	Flicker Free	Yes with Blue Light Filter
6	Processor	ARM Cortex A53 Quad Core 1.25Hz
7	Storage	eMMC 16GB
8	Contrast Ratio	1200:1 (typ)
9	Brightness	350 nits
10	Display Colour	1.07Billion colors
11	Input Ports	HDMI x 3; VGA x 1; Display Port x 1 ; Audio x 1 ; CVBS (AV) ; RS 232 x 1; PC Slot x 2; Slot In For PC Built-in x 1; Wi-Fi Module Slot Built-in x1;
12	Output Ports	HDMI x 1; Audio (Earphone out) x 1; SPIDF x 1; LAN
13	LAN	RJ 45 x 1
14	USB	3.0 Type A x 3; 2.0 Type A x 3 2.0 Type B (For Touch) x 2
15	Speakers	16W x 2
16	Touch	Type: IR Recognition; Touch Resolution: 32767 x 32767 Touch Point : 20 Points Writing : 10 Points Response Time: < 15ms Supports: Windows 10/ Windows 8 / Windows 7 / Windows XP / Vista / Linux/ MAC / Android/ Wince / Chrome
17	Anti Scratch – Anti Glare	Minimum 7H scratch resistant and Anti Glare
18	Mirror Extending	Flexibility to allow content to be mirrored on

		two IFP simultaneously through HDMI Out.
19	Save Option	Built-in save option directly to Google Drive, One Drive and DropBox
20	Quiz	Built in Tool to allow participants to submit answers from their Smart Phones using as answering/voting device.
21	Zoom Video Conferencing	Built in Zoom Video Conferencing as an integral part of IFP
22	QR Code Scan	File download in smart phone just by scanning the QR code
23	Email	Facility to email the whole annotation file directly without saving File
24	Split Screen	The software should have built-in facility to split the screen in 2, 4 or max.6 for simultaneous function / working on various application
25	Power Consumption	430W (typ)
26	Built-in PC Slot	Should have slot for the built-in PC
27	Certifications	BIS, FCC,CE,CB, and cTUVus.
28	(Optional) Slot in Windows PC	OPS Intel i5Processor , Intel HD Graphics Max resolutions 4096*2304 @64 bit, 8GB RAM, 128 SSD HDD, Intel Dual Band Wireless (WiFi), Windows 10 Professional
29	Stand (Optional)	Wall Mount Stand Kit
30	Stand (Optional)	Floor Mount Stand Kit

ELCOT/Proc/OT/33189/Display Monitor & TV/RC/2018-19

Code	Item Description	Make	Appx. Qty
33189-003	4K INTERACTIVE FLAT PANEL- 86" Android with Optional Windows Pc	Any reputed make	1 No.

S.No.	Parameter	Specification
1	Technology	TFT LCD with DLED Backlit
2	Display Size (diag-onal)	86"
3	Aspect Ratio	16:9 or higher.
4	Resolution	3840 x 2160 4K Ultra HD
5	Flicker Free	Yes with Blue Light Filter
6	Processor	ARM Cortex A53 Quad Core 1.25Hz
7	Storage	eMMC 16GB
8	Contrast Ratio	1200:1 (typ)
9	Brightness	350 nits
10	Display Colour	1.07Billion colors
11	Input Ports	HDMI x 3; VGA x 1; Display Port x 1 ; Audio x 1 ; CVBS (AV) ; RS 232 x 1; PC Slot x 2; Slot In For PC Built-in x 1; Wi-Fi Module Slot Built-in x1;
12	Output Ports	HDMI x 1; Audio (Earphone out) x 1; SPIDF x 1; LAN
13	LAN	RJ 45 x 1
14	USB	3.0 Type A x 3; 2.0 Type A x 3 2.0 Type B (For Touch) x 2
15	Speakers	16W x 2
16	Touch	Type: IR Recognition; Touch Resolution: 32767 x 32767 Touch Point : 20 Points Writing : 10 Points Response Time: < 15ms Supports: Windows 10/ Windows 8 / Windows 7 / Windows XP / Vista / Linux/ MAC / Android/ Wince / Chrome
17	Anti Scratch – Anti Glare	Minimum 7H scratch resistant and Anti Glare
18	Mirror Extending	Flexibility to allow content to be mirrored on two IFP simultaneously through HDMI Out.
19	Save Option	Built-in save option directly to Google Drive, One Drive and DropBox
20	Quiz	Built in Tool to allow participants to submit an-swers from their Smart Phones using as answer-

			ing/voting device.
21	Zoom Video Con-ferencing	Built in Zoom Video Conferencing as an integral part of IFP
22	QR Code Scan	File download in smart phone just by scanning the QR code
23	Email	Facility to email the whole annotation file directly without saving File.
24	Split Screen	The software should have built-in facility to split the screen in 2, 4 or max.6 for simultaneous function / working on various application
25	Power Consumption	500W (typ)
26	Built-in PC Slot	Should have slot for the built-in PC
27	Certifications	BIS, FCC,CE,CB, and cTUVus.
28	(Optional) Slot in Windows PC	OPS Intel i5Processor , Intel HD Graphics Max resolutions 4096*2304 @64 bit, 8GB RAM, 128 SSD HDD, Intel Dual Band Wireless (WiFi), Windows 10 Professional
29	Stand (Optional)	Wall Mount Stand Kit
30	Stand (Optional)	Floor Mount Stand Kit

S.No.	Add on Items
1	Windows PC for 4K INTERACTIVE FLAT PANEL: OPS Intel i5Processor , Intel HD Graphics Max resolutions 4096*2304 @64 bit, 8GB RAM, 128 SSD HDD, Intel Dual Band Wireless (WiFi), Windows 10 Professional
2	Wall Mount Stand Kit for 4K INTERACTIVE FLAT PANEL
3	Floor Mount Stand Kit for 4K INTERACTIVE FLAT PANEL

Smart Phones

Code	Item Description	Make	Appx. Qty
33189-001	4.5 Inch – 4G Android Smart Phone with Dual SIM	Any reputed make	1 No.

S.No.	Parameters	Elcot Specifications
1	Processor	Quad-Core 1.0GHz or above
2	Sim	Dual 4G Sim
3	Operating System	Android 6.0 or above
4	Display & Resolution	4.5 " inch or above 480 x 854 pixels or above
5	Memory	1 GB or higher
6	Internal Storage	8 GB ROM or higher Memory card slot - support up to 32 GB
7	Display Panel and Protection	LCD capactive touch screen, Gorilla Glass or Any tough glass
8	Features	4G, WiFi, A-GPS, FM Radio, Bluetooth 4.1 and OTG support
9	Camera	Rear: 5 MP or higher Front: 2 MP or higher
10	Battery	2000mAh
11	Accessories	Handset, Charger, User Guide, Data cable, Ear Phones
12	Certificate	SAR value and BIS certificate
13	Warranty	1 Year

Code	Item Description	Make	Appx. Qty
33189-002	5.5 Inch – 4G Android Smart Phone with Dual SIM	Any reputed make	1 No.

S.No.	Parameters	Elcot Specifications
1	Processor	Octa-Core 1.3GHz or above
2	Sim	Dual 4G Sim
3	Operating System	Android 7.0 or above
4	Display & Resolution	5.5 " inch or above 1280 x 720 pixels or above
5	Memory	2 GB or higher
6	Internal Storage	16 GB ROM or higher Expandable up to 64 GB
7	Display Panel and Protection	IPS LCD capacitive touchscreen, 16M colors,
8	Features	Fingerprint, accelerometer, gyro, proximity, compass, Bluetooth 4.1,WiFi, WiFi Direct,
9	GPS Support	OEM should provide SDK / API free of cost to share the GPS Data with customer Applic-
10	Camera	Rear: 8 MP with flash or higher Front: 5 MP or higher
11	Battery	3000mAh or above
12	Accessories	Handset, Charger, User Guide, Data cable, Ear Phones
13	Certificate	SAR value and BIS certificate
14	Warranty	1 Year

Code	Item Description	Make	Appx. Qty
33189-003	5.9 Inch – 4G Android Smart Phone with Dual SIM	Any reputed make	1 No.

S.No.	Parameters	Elcot Specifications
1	Processor	Octa-Core 2.0 GHz or above
2	Sim	Dual 4G Sim
3	Operating System	Android 8.0 or above
4	Display & Resolution	5.9 " inch or above 1920 x 1080 pixels or above
5	Memory	4 GB or higher
6	Internal Storage	64 GB ROM or higher Expandable up to 256 GB
7	Display Panel and Protection	IPS LCD capacitive touchscreen, 16M colors, Gorilla Glass or Any tough glass
8	Features	Fingerprint, Face detection, accelerometer, gyro, proximity, compass, Bluetooth 4.1, Dual-band WiFi, WiFi Direct, **GPS**, A- GPS, FM Radio, and OTG support
9	GPS Support	OEM should provide SDK / API free of cost to share the GPS Data with customer Application Software.
10	Camera	Rear: 12 MP with flash or higher Front: 8 MP or higher
11	Battery	3000 mAh or above
12	Accessories	Handset, Charger, User Guide, Data cable, Ear Phones
13	Certificate	SAR value and BIS certificate
14	Warranty	1 Year

Code	Item Description	Make	Appx. Qty
33189-004	6.0 Inch – 4G Android Smart Phone with Dual SIM	Any reputed make	1 No.

S.No.	Parameters	Elcot Specifications
1	Processor	Octa-Core 2.2 GHz or above
2	Sim	Dual 4G Sim
3	Operating System (OS Upgradable)	Android 8.1 or upgradable to Android 9.0 (Pie)
4	Display Type & Size	AMOLED capacitive touchscreen, 16M colors & 6.0 " inch or above
5	Display Panel Protection	Corning Gorilla Glass or equivalent
6	Resolution	2280 x 1080 pixels or above
7	Memory	6 GB or higher
8	Internal Storage	128 GB ROM or higher
9	Sensors	Accelerometer, Proximity Sensor, Magnetometer, Ambient Light, Gyroscope
10	Features	Fingerprint Scanner, Face Detection, Dual WiFi, GPS, FM Radio, Blue tooth 5.0 and OTG support
11	Camera	Rear: Dual 16 MP + 16 MP or higher Front: 16 MP or higher
12	GPS Support	OEM should provide SDK / API free of cost to share the GPS Data with customer Application Software.
13	Battery	3300 mAh battery or above
14	Accessories	Handset, Charger (Type-C), User Guide, Data cable, Ear Phones, Tempered glass, mobile case
15	Certificate	SAR value and BIS certificate
16	Warranty	1 Year

Code	Item Description	Make	Appx. Qty
33189-005	6.3 Inch – 4G Android Smart Phone with Dual SIM	Any reputed make	1 No.

S.No.	Parameters	Elcot Specifications
1	Processor	Octa-Core 2.8 GHz or above
2	Sim	Dual 4G Sim
3	Operating System (OS Upgradable)	Android 8.1 or upgradable to Android 9.0 (Pie)
4	Display Type & Size	AMOLED capacitive touchscreen, 16M colors & 6.3 " inch or above
5	Display Panel Protection	Corning Gorilla Glass 5 or equivalent
6	Resolution	2280 x 1080 pixels or above
7	Memory	8 GB or higher
8	Internal Storage	256 GB ROM or higher
9	Sensors	Accelerometer, Proximity Sensor, Magnetometer, Ambient Light, Gyroscope
10	Features	Fingerprint Scanner, Face Detection, Dual WiFi, GPS, FM Radio, Blue tooth 5.0 and OTG support
11	Camera	Rear: Dual 16 MP + 16 MP or higher Front: 16 MP or higher
12	GPS Support	OEM should provide SDK / API free of cost to share the GPS Data with customer Application Software.
13	Battery	3500 mAh or above
14	Accessories	Handset, Charger (Type-C), User Guide, Data cable, Ear Phones, Tempered glass, mobile case
15	Certificate	SAR value and BIS certificate
16	Warranty	1 Year