



Memo No: AC/38/20-21

Dated: 02-09-2020

Notice Inviting e-Tender

Online quotations through website <https://wbtenders.gov.in> are invited from competent and bonafide vendors/ distributors/ dealers/agents/ manufacturers (OEM authorization certificate is mandatory for all the products) for supply, delivery and installation of various items for the Conference Room of Netaji Subhas Open University, DD-26, Sector 1, Bidhannagar, Kolkata, West Bengal 700064 subject to the following terms and conditions. Interested bidders are to participate in the bidding process as per specifications and conditions mentioned below in the Annexure - I, II & III .

DATE AND TIME SCHEDULE

Date of Publication of Tender Online through website https://wbtenders.gov.in/	02.09.2020 after 17.00 Hrs.
Date of Document Download Start	02-09.2020 after 17.00 Hrs.
Date of Pre-Bid Visit	14.09.2020 & 16.09.2020 from 12.00 pm to 3.00 pm
Date of Bid Submission Start	18.09.2020 after 16.00 Hrs.
Date of Closing for Bid Submission	08.10.2020 before 17.00 Hrs.
Date of Opening of Technical Bid	12.10.2020 at 12.00 Noon
Date of Opening of Financial Bid	To be notified later

Contact No. 9433843040 /7980366313/943324205/9051162059

Tender Id	: 2020_DHE_29478 3_1
Tender reference no	: AC/38/20-21

Finance Officer
Netaji Subhas Open University
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ANNEXURE - I

Specification for Technical Bid

1. The Bidders should have Experience in similar type of job. Quality of design & work as specified in Annexure II.
2. Bidders should have turnover of minimum of 1.0 crores for the last Three financial year
3. Tender specific MAF (Manufacturer Authorization Form) for all items to be supplied. Bid without Tender specific MAF will be technically disqualified
4. Registration with EPF & ESI is mandatory.

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ANNEXURE - II

Specifications for Financial Bid

Equipments required for Presentation/Delivery of Lecture(s) in Seminar/Conference along with sound system in the Conference Room at 7th Floor, HQ

Item-1: Wireless Presentation Solution			
Sl. No.	Particulars	Specifications	Quantity
1	Input	4 USB 3.0, 1 LAN on an RJ-45 connector or higher	1
2	Outputs	1 HDMI, 1 mini Display Port, support up to 1080p60 / WUXGA resolution	
3	Processor	Intel® Braswell CPU, Dual Core 1.04GHz	
4	Main memory	2GB, high-speed	
5	Storage	EMMC, 32GB	
6	Wireless communication	Intel dual-band wireless 802.11ac — model 3168NGW	
7	Audio	Analog or embedded HDMI	
8	Audio output	3.5mm mini jack for HP/speakers	
9	Lan	Gigabit LAN	
Preferred Make		AMX, Kramer, Creston	
Item-2 : Sound System			
Sl. No.	Particulars	Specifications	Quantity
2a:Wall Mount Speaker			
1	Type of Product:	PA Wall Speaker	6
2	Type:	2-Way	
3	Frequency Response:	75-20000 Hz	
4	Power Taps:	30/20/15/10/5W.	
5	SPL :	87dB	
Preferred Make		JBL/BOSE/Audac/ Ahuja	
2b:AMPLIFIERS			
1	Power Output	130W + 130W Max., 100W + 100W RMS at 10% THD, 90W + 90W RMS at 5% THD, 80W + 80W RMS at 2% THD	1
2	Output Regulation	≤ 2 dB, no load to full load at 1kHz	
3	Input Channels	Mono: 6 × Mic 0.65mV/4.7kΩ, 2 × Aux 100mV/470kΩ, Stereo: L/R 250mV/47kΩ	
4	Frequency Response	50-15,000Hz ±3dB	
5	Signal to Noise Ratio	60dB	
6	Tone Controls	Bass: ±10dB at 100Hz, Treble: ±10dB at 10kHz	



7	Output	Preamp 200mV/600Ω, Line 1V/1kΩ	
8	Speaker Output	4Ω, 8Ω, 70V & 100V for each zone	
9	Digital Player	MP3 Player with USB, SD	
10	Power Supply	AC: 220-240V 50/60Hz DC: 24V	
Preferred Make		JBL/BOSE/Audac/ Ahuja	
2c: Wireless Gooseneck Microphone			
1	Receiver	4 Channel Non-Diversity	4
2	Frequency response	50Hz – 16 KHz	
3	Polar Pattern (Hand mic)	Cardioid	
4	Output	Individual Channel: XL	
5	Each channel frequency display on volume control receiver & Transmitter		
6	Preferred Make	JBL/sennheiser/ Ahuja	
2d: Wireless Handheld Microphones			
	Transmitter		2
1	RF Output Power	10mW (Max.)	
2	Carrier Frequency Range	630-664MHz	
3	Frequency Stability	±0.005%	
4	Modulation Mode	FM	
5	Microphone Element	Dynamic, Cardioid	
6	Frequency Response	50-15,000Hz	
7	Power Requirement	3V	
8	Controls	POWER ON/OFF switch	
9	Indication	Channel Frequency Display	
10	Receiver		
11	Audio Output (Nominal)	Bal. 0dBu, Unbal. -10dBu	
12	S/N Ratio	100dB	
13	Distortion	<1%	
14	Frequency Response	50-15,000Hz	
15	Dynamic Range	>90dB	
16	Power Requirement	240V AC 50Hz from AC Adaptor (supplied along with)	
17	Controls	ON/OFF Switch, Volume Controls for Channel	
18	Indications	LEDs for RF & Audio Signal of Channel	
19	Preferred Make	JBL/sennheiser/ Ahuja	
2e: Wireless Lapel Microphones with Receiver			
1	Frequency Response	80-15,000Hz	
2	Distortion	<1%	
3	Transmitter Weight	62g (w/o battery) or less	



4	Transmitter Power Requirement	3V	1
5	Dynamic Range	80dB	
6	S/N Ratio	90dB	
7	Preferred Make	JBL/sennheiser/ Ahuja	
Item-3: 4K HDR HDMI DA			
Sl. No.	Particulars	Specifications	Quantity
1	Input	1 HDMI connector	1
2	Outputs	4 HDMI connectors PORT:1 RS-232 for firmware upgrade	
3	Max. Data rate	17.82Gbps (5.94Gbps per graphic channel) supporting resolutions up to 4K @60Hz (4:4:4)	
4	Compliance with HDMI standard	Supports HDCP 2.2. Supports HDR10, deep color, x.v.Color™, lip sync, 7.1 PCM, Dolby TrueHD, DTS-HD, CEC (OUT 1 only), 2K, 4K, and 3D as specified in HDMI 2.0	
5	Bandwidth	Up to 17.82Gbps	
	Preferred Make	AMX, Kramer, Creston	
Item-4: 65 Inch Or Higher Interactive Touch Display			
1	Size (diagonally)	65"	1
2	Panel Technology	Vertical Alignment (VA) or equivalent	
3	Panel Type	60Hz , Edge Led or better	
4	Resolution	3840x2160(4KUHD)	
5	Aspect Ratio	16:09	
6	Native Contrast Ratio	4000:1(without Glass) , minimum	
7	Brightness	350 nits or more	
8	Response time	8ms or lesser	
9	Input :		
	Video	Basic) HDMI 2 (With Tray) HDMI 3	
	USB	(Basic) USB 1 (With Tray) USB 2, USB External (In/Out) 1	
10	Output:		
	Touch Output	(Basic) Touch Out 1 (USB Upstream Type), Audio Out 1 (With Tray) Touch Out 2, Audio Out 1, Screen Share(HDMI-Out) 1	
	INTERNAL SENSOR	Basic) Acceleration sensor (With Tray) Acceleration sensor, NFC	
	External Control	RS232C, LAN, WiFi/BT	
11	Touch :		
	Type	InGlass™	
	Number of Drawing	Multi writing up to 4	
	Touch Pen Type	Passive Pen with magnet	
	Object Recognition Range	2mm/ 4mm / 8mm / 50mm , 1024 Level on Brush Mod	



12	Power consumption (w/h)	Minimum 100 or lesser	
13	Humidity	10~80%	
14	Special feature	H/W : Super Clear Coating, Temperature Sensor, Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W x 2), WiFi Module Embedded S/W : Flip S/W Platform : Muse-M (Tizen 5.0) or equivalent	
15	Storage	8GB (2.65GB Occupied by O/S, 5.35GB Available)	
16	Operating System	VD Linux or equivalent	
17	Warranty	3 Years Onsite warranty from OEM from date of purchase	
Preferred Make		Samsung , Sony , NEC	
Item-5: 98 Inch Or Higher Display			
Sl. No.	Particulars	Specifications	Quantity
1	Size (Diagonally)	98"or above	1
2	Panel Technology	Vertical Alignment	
3	Type	Edge LED	
4	Resolution	3840x2160	
5	Aspect ratio	16:09	
6	Brightness	350 nits or more	
7	Native Contrast Ratio	4000:01:00	
8	Response Time	6 ms (Typ) or less	
9	Operation Hour	24x7	
10	Haze	minimum 2% or better	
11	Color Gamut	92% or above	
Connectivity			
12	HDMI 2.0	2 Nos	
13	USB2.0	2 Nos	
14	RGB	DVI-D, Display Port 1.2 (1)	
15	Video Input	HDMI 2.0 (2)	
16	Video Output	HDMI 2.0(Loop out)	
17	Audio in	Stereo mini Jack, DVI, HDMI	
18	Audio out	Stereo mini Jack	
19	Power Consumption Typica	375 watt or Less	
20	Operating Temperature	0°C~ 40°C	
21	Humidity	10~80%	
22	IP Rating	IP 5x	
23	Special Feature	H/W: Temperature Sensor, Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy	
24	Storage	8GB(3.88GB Occupied by O/S, 4.12GB Available)	



25	Operating System	Tizen or equivalent
26	Certification	BIS,FCC UL
27	Warranty	3 Years onsite warranty from Manufacturer from date of purchase
Preferred make		Samsung , Sony , NEC

Item-6: 55 Inch Or Higher Display

Sl. No.	Particulars	Specifications	Quantity
1	Size (Diagonally)	55 " or above	3
2	Panel Technology	Vertical Alignment	
3	Type	Edge LED	
4	Resolution	3840x2160	
5	Aspect Ratio	16:09	
6	Brightness	350 nits or more	
7	Native Contrast Ratio	4000:01:00	
8	Response Time	8 ms (Typ) or less	
9	Operation Hour	16 Hrx7	
10	Haze	Minimum 2% or better	
11	Color Gamut	92% or above	
Connectivity			
12	HDMI 2.0	2 Nos	
13	USB2.0	2 Nos	
14	RGB	DVI-D, Display Port 1.2 (1)	
15	VIDEO INPUT	HDMI 2.0 (2)	
16	Audio in	Stereo mini Jack, DVI, HDMI	
17	Audio out	Stereo mini Jack	
18	Typical (w/h)	100 watt or Less	
19	Humidity	10~80%	
20	IP rating	IP 5x	
21	Special feature	Centralized content management software UHD	
22	Storage	8GB(3.88GB Occupied by O/S, 4.12GB Available)	
23	Operating System	Tizen or equivalent	
24	Certification	BIS,FCC UL	
25	Warranty	3 Years onsite warranty from Manufacturer from	
Preferred make		Samsung , Sony , NEC	



Summary of Required Items

Sl. No	Item Description	Quantity
1	Wireless Presentation Solution	1
2	Sound System:	
	Wall Speaker	6
	Two Zone Amplifier	1
	Wireless Gooseneck Mic	4
	Wireless handheld mic	2
	Wireless lapel microphone	1
3	4K HDR HDMI DA	1
4	65 Inch Or Higher Interactive Touch Display	1
5	98 Inch Or Higher Display	1
6	55 Inch Or Higher Display	3

Finance Officer

Netaji Subhas Open University
DD-26, Sector -1, Salt Lake, Kolkata-700064



ANNEXURE – III

GENERAL TERMS & CONDITIONS

1. The quotation should include the cost of installation and configuration of all the components.
2. The Bidders should have legal compliance such as: (1) GST Number, (2) PAN / TAN &(3) AADHAAR (wherever applicable)(4)Trade License (5) Professional Tax (6) Certificate of Authorization if applicable.
3. The bidders are to participate in the bidding process for the Tender only online at <https://www.wbtenders.gov.in> as per prescribed format (BOQ).
4. Price should be including GST.
5. Price shall be quoted in INR only.
6. Incomplete and Conditional Bids will be summarily rejected without assigning any reasons thereof.
7. Tenders must be submitted in two Separate Bids- (1) Technical Bid (2) Financial Bid as specified in Annexure - I. The Technical Bid, if found suitable to meet the specifications noted above, will be followed by Financial Bid.
8. Details of items like Brand, Model, Specification of items, service centre etc. are to be attached.
9. The Bidders should quote all the items (Partial bidding will not be considered).
10. The interested Bidders may visit the place of work at Netaji Subhas Open University, DD 26, Sector 1, Bidhannagar, Kolkata, West Bengal 700064 on 14th September, 2020 & 16th September, 2020 between 12.00 Hrs to 15.00 Hrs. The Mobile Nos. of Contact Person - Prof Anirban Ghosh are 9433843040/ 980366313.
11. The sum of all items would be taken into consideration to have LOWEST QUOTATION.
12. Quantity of itmes to be supplied may vary at the time of order.
13. The judicature of any legal disputes will be under the Hon'ble High Court, Calcutta.
14. The Authority of NETAJI SUBHAS OPEN UNIVERSITY reserves the right to reject the entire bid received without assigning any reason thereof.
15. The applicant bidders to participate in the bidding process are to fill in the following Formats given in the page No. 10 to 18.

Finance Officer
Netaji Subhas Open University



DD-26, Sector -1, Salt Lake, Kolkata-700064

Email: sachindrakar@yahoo.in

Mobile No: 9432747119

To

The Finance Officer

Netaji Subhas Open University

DD 26, Sector – 1, Salt Lake

Kolkata – 700064

Ref: Memo No: AC/38/20-21 Dated: 02.09.2020

Sub: Submission of Bid – Technical & Financial with reference to the above.

Sir,

As per guidelines given in the Tender Notice we are quoting the itemwise value and the total amount in the prescribed BOQ format in the Financial bid along with the Technical Credentials supported with relevant documents as applicable. We have read all the terms and conditions given in the Tender Notice and do hereby undertake to obey the rules and regulations of e-Tender.

With regards

Signature with Seal & Date:

Name of Signatory:

Name of Organization:

Mailing Address:

Mobile No of Contact Person:

Email Address of the Organization:



Check List of General Terms and Conditions:

Name of the Bidder/Organisation :

Sl. No.	Particulars	Put Y if Yes and N if No.
1.	Copy of GST Registration Certificate attached	
2.	Copy of PAN & TAN attached	
3.	Copy of AADHAAR as applicable attached	
4.	Copy of proof of Trade License attached	
5.	Copy of proof of Enlishment of Professional Tax attached	
6.	Copy of Certificate of Authorization, if applicable, attached	
7.	Specification of Items whether filled in	
8.	Technical Complience whether filled in	

Signature with Seal & Date:



Specifications of Items

Name of the Bidder/Organisation :

SI No.	Item	Quantity	Brand Name	Model , if any
1	Wireless Presentation Solut	1		
2	Sound System:			
2a	Wall Speaker	6		
2b	Two Zone Amplifier	1		
2c	Wireless Gooseneck Mic	4		
2d	Wireless handheld mic	2		
2e	Wireless lapel microphone	1		
3	4K HDR HDMI DA	1		
4	65 Inch Or Higher Interactive Touch Display	1		
5	98 Inch Or Higher Display	1		
6	55 Inch Or Higher Display	3		

Signature with Seal & Date:



TECHNICAL COMPLIENCE

Sl No.	Item	Specifications	Warranty	Compliance (Yes/NO)	Datasheet(Yes/NO)
Item-1: Wireless Presentation Solution					
1	Input	4 USB 3.0, 1 LAN on an RJ-45 connector or higher			
2	Outputs	1 HDMI, 1 mini Display Port, support up to 1080p60 / WUXGA resolution			
3	Processor	Intel® Braswell CPU, Dual Core 1.04GHz			
4	Main memory	2GB, high-speed			
5	Storage	EMMC, 32GB			
6	Wireless communication	Intel dual-band wireless 802.11ac — model 3168NGW			
7	Audio	Analog or embedded HDMI			
8	Audio output	3.5mm mini jack for HP/speakers			
9	Lan	Gigabit LAN			
Item-2 : Sound System					
2a:Wall Mount Speaker					
1	Type of Product:	PA Wall Speaker			
2	Type:	2-Way			
3	Frequency Response:	75-20000 Hz			
4	Power Taps:	30/20/15/10/5W.			
5	SPL :	87dB			
2b:AMPLIFIERS					
1	Power Output	130W + 130W Max., 100W + 100W RMS at 10% THD, 90W + 90W RMS at 5% THD, 80W + 80W RMS at 2% THD			



2	Output Regulation	≤ 2 dB, no load to full load at 1kHz			
3	Input Channels	Mono: 6 × Mic 0.65mV/4.7kΩ, 2 × Aux 100mV/470kΩ, Stereo: L/R			
4	Frequency Response	50-15,000Hz ±3dB			
5	Signal to Noise Ratio	60dB			
6	Tone Controls	Bass: ±10dB at 100Hz, Treble: ±10dB at 10kHz			
7	Output	Preamp 200mV/600Ω, Line 1V/1kΩ			
8	Speaker Output	4Ω, 8Ω, 70V & 100V for each zone			
9	Digital Player	MP3 Player with USB, SD			
10	Power Supply	AC: 220-240V 50/60Hz DC: 24V			
2c:Wireless Gooseneck Microphone					
1	Receiver	4 Channel Non-Diversity			
2	Frequency response	50Hz – 16 KHz			
3	Polar Pattern (Hand mic)	Cardioid			
4	Output	Individual Channel: XL			
5	Each channel frequency display on volume control receiver & Transmitter				
2d:Wireless Handheld Microphones					
	Transmitter				
1	RF Output Power	10mW (Max.)			
2	Carrier Frequency Range	630-664MHz			
3	Frequency Stability	±0.005%			
4	Modulation Mode	FM			
5	Microphone Element	Dynamic, Cardioid			
6	Frequency Response	50-15,000Hz			
7	Power Requirement	3V			
8	Controls	POWER ON/OFF switch			
9	Indication	Channel Frequency Display			
10	Receiver				
11	Audio Output (Nominal)	Bal. 0dBu, Unbal. -10dBu			
12	S/N Ratio	100dB			
13	Distortion	<1%			
14	Frequency Response	50-15,000Hz			
15	Dynamic Range	>90dB			
16	Power Requirement	240V AC 50Hz from AC Adaptor (supplied along with)			
17	Controls	ON/OFF Switch, Volume Controls for Channel			



18	Indications	LEDs for RF & Audio Signal of Channel			
2e:Wireless Lapel Microphones with Receiver					
1	Frequency Response	80-15,000Hz			
2	Distortion	<1%			
3	Transmitter Weight	62g (w/o battery) or less			
4	Transmitter Power Requirement	3V			
5	Dynamic Range	80dB			
6	S/N Ratio	90dB			
Item-3: 4K HDR HDMI DA					
1	Input	1 HDMI connector			
2	Outputs	4 HDMI connectors PORT:1 RS-232 for firmware upgrade			
3	Max. Data rate	17.82Gbps (5.94Gbps per graphic channel) supporting resolutions up to 4K @60Hz (4:4:4)			
4	Compliance with HDMI standard	Supports HDCP 2.2. Supports HDR10, deep color, x.v.Color™, lip sync, 7.1 PCM, Dolby TrueHD, DTS-HD, CEC (OUT 1 only), 2K, 4K, and 3D as specified in HDMI 2.0			
5	Bandwidth	Up to 17.82Gbps			
	Preferred Make	AMX, Kramer, Creston			
Item-4: 65 Inch Or Higher Interactive Touch Display					
1	Size (diagonally)	65"			
2	Panel Technology	Vertical Alignment (VA) or equivalent			
3	Panel Type	60Hz , Edge Led or better			
4	Resolution	3840x2160(4KUHD)			
5	Aspect Ratio	16:09			
6	Native Contrast Ratio	4000:1(without Glass) , minimum			
7	Brightness	350 nits or more			
8	Response time	8ms or lesser			
9	Input :				
	Video	Basic) HDMI 2 (With Tray) HDMI 3			
	USB	(Basic) USB 1 (With Tray) USB 2, USB External (In/Out) 1			
	Output:				
10	Touch Output	(Basic) Touch Out 1 (USB Upstream Type), Audio Out 1 (With Tray) Touch Out 2, Audio Out 1, Screen Share(HDMI-Out) 1			



	INTERNAL SENSOR	Basic) Acceleration sensor (With Tray) Acceleration sensor, NFC			
	External Control	RS232C, LAN, WiFi/BT			
11	Touch :				
	Type	InGlass™			
	Number of Drawing	Multi writing up to 4			
	Touch Pen Type	Passive Pen with magnet			
	Object Recognition Range	2mm/ 4mm / 8mm / 50mm , 1024 Level on Brush Mode			
12	Power consumption (w/h)	Minimum 100 or lesser			
13	Humidity	10~80%			
14	Special feature	H/W : Super Clear Coating, Temperature Sensor, Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W x 2), WiFi Module Embedded S/W : Flip S/W Platform : Muse-M (Tizen 5.0) or equivalent			
15	Storage	8GB (2.65GB Occupied by O/S, 5.35GB Available)			
16	Operating System	VD Linux or equivalent			
17	Warranty	3 Years Onsite warranty from OEM from date of purchase			
Item-5: 98 Inch Or Higher Display					
1	Size (Diagonally)	98"or above			
2	Panel Technology	Vertical Alignment			
3	Type	Edge LED			
4	Resolution	3840x2160			
5	Aspect ratio		16:09		
6	Brightness	350 nits or more			
7	Native Contrast Ratio		4000:01:00		
8	Response Time	6 ms (Typ) or less			
9	Operation Hour	24x7			
10	Haze	minimum 2% or better			
11	Color Gamut	92% or above			
Connectivity					
12	HDMI 2.0	2 Nos			
13	USB2.0	2 Nos			
14	RGB	DVI-D, Display Port 1.2 (1)			
15	Video Input	HDMI 2.0 (2)			
16	Video Output	HDMI 2.0(Loop out)			



17	Audio in	Stereo mini Jack, DVI, HDMI			
18	Audio out	Stereo mini Jack			
19	Power Consumption Typical (V)	375 watt or Less			
20	Operating Temperature	0°C~ 40°C			
21	Humidity	10~80%			
22	IP Rating	IP 5x			
23	Special Feature	H/W: Temperature Sensor, Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA,HDCP1.4:7EA), Wi-Fi/BT S/W: Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug &Play (Initial Setting)			
24	Storage	8GB(3.88GB Occupied by O/S, 4.12GB Available)			
25	Operating System	Tizen or equivalent			
26	Certification	BIS,FCC UL			
27	Warranty	3 Years onsite warranty from Manufacturer from date of purchase			
Preferred make		Samsung , Sony , NEC			
Item-6: 55 Inch Or Higher Display					
Sl. No.	Particulars	Specifications			
1	Size (Diagonally)	55 " or above			
2	Panel Technology	Vertical Alignment			
3	Type	Edge LED			
4	Resolution	3840x2160			
5	Aspect Ratio	16:09			
6	Brightness	350 nits or more			
7	Native Contrast Ratio	4000:01:00			
8	Response Time	8 ms (Typ) or less			
9	Operation Hour	16 Hrx7			
10	Haze	Minimum 2% or better			
11	Color Gamut	92% or above			
Connectivity					
12	HDMI 2.0	2 Nos			
13	USB2.0	2 Nos			
14	RGB	DVI-D, Display Port 1.2 (1)			
15	VIDEO INPUT	HDMI 2.0 (2)			
16	Audio in	Stereo mini Jack, DVI, HDMI			



17	Audio out	Stereo mini Jack			
18	Power Consumption Typical (V	100 watt or Less			
19	Humidity	10~80%			
20	IP rating	IP 5x			
21	Special feature	software UHD Signage Display			
22	Storage	Available)			
23	Operating System	Tizen or equivalent			
24	Certification	BIS,FCC UL			
25	Warranty	Manufacturer from date of purchase			

Signature with Seal & Date: