

**TECHNICAL SPECIFICATIONS FOR BIG SCREENS FOR KENYA POWER'S INCMS PROJECT (SYSTEM MONITORING TOOLS)**

#	Big Screen Specifications for Monitoring Project Resources	KPLC MINIMUM REQUIREMENTS	Bidder's software Compliance/Remarks	Reference
<b>1.0</b>	<b>GENERAL</b>			
1.1	Screen Size	65" (164cm)		
1.2	Resolution	3840 x 2160		
1.3	Backlight Type	LED		
1.4	Field Refresh Rate	100Hz		
1.5	Motion Clarity Index (MCI) or equivalent	400		
<b>2.0</b>	<b>BROADCASTING SYSTEM</b>			
2.1	Tuner	MPEG-2/4 DVB-T (HD)		
2.2	Number of Tuners	Single		
2.3	Free View TV	Hybrid Broadcast Broadband TV (HbbTV)		
<b>3.0</b>	<b>VIDEO</b>			
3.1	Upscaling	6-Step Upscaling		
3.2	Engine	Triple XD-Engine		
3.3	Effect	Real Cinema 24p		
3.4	Clarity	Noise Reduction		
3.5	Picture Modes	9 picture modes		
<b>4.0</b>	<b>AUDIO</b>			
4.1	Speaker System	Down Firing		
4.2	Sound Channels	Stereo (2-way, 4 speakers)		
4.3	Audio Decoder	DTS/Dolby Digital/AAC/PCM		
4.4	Audio Output	At least 20W		
4.5	Surround System	Ultra-Surround		
4.6	Sound Modes	6 Sound Modes		
4.7	Smart Sound	Smart Sound Mode		
4.8	Audio Return	Audio Return Channel		
<b>5.0</b>	<b>QUALITY FEATURES</b>			
5.1	Smart TV operating System	WebOS 2.0 or equivalent		
5.2	Web Browser	WebOS or equivalent internet browser that supports HTML5, VP9 and HEVC		
5.3	Voice Recognition	Magic Remote voice or equivalent		
5.4	Processor	Quad Core		
5.5	Mirror cast	Should have mirror cast with compatible android devices.		
5.6	Internal Memory	At least 8GB		
5.7	Smart Phone Remote	Remote control facility vide android phone application.		
5.8	Selection of programmes	My programmes selection		
5.9	Simplink	(HDMI-CEC)		
5.10	Smart Share	Should have smart share (DLNA)		
5.11	4K Ultra HD Streaming	4K Ultra HD Streaming (YouTube, Netflix etc.)		

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5.12	USB Video Playback Formats	DivX (XViD, H.264/MPEG-4 AVC)/ WMV/AVI/M4V/MOV/3GP/3G2/ /HEVC 60P (up to 2160p)/MKV/TS/TP		
5.13	USB Music Playback Formats	MP3/WAV/OGG/WMA/DTS/Dolby Digital		
5.14	USB Photo Playback Formats	JPEG/PNG/BMP		
5.16	EPG	At least SI-8days		
5.17	User guide	Inbuilt User guide or equivalent		
<b>6.0</b>	<b>CONNECTIVITY</b>			
6.1	Side Connections	HDMI Input		
6.2	Rear Connections	Minimum of HDMI Input, Antenna Input, Composite/Component Input, Audio (Optical) output, LAN Port		
6.3	WIFI	Wi-Fi 802.11 a/b/g/n, Wi-Fi hotspot, DLNA, Wi-Fi Direct		
<b>8.0</b>	<b>OTHER FEATURES</b>			
8.1	Wall Mount	The Monitor should be supplied together with wall mounting		
8.2	Accessories	The monitor should be supplied with accessories for connection from a point that is 15 meters away.		
<b>9.0</b>	<b>GUARANTEES</b>			
9.1	Manufacturers Authorization	Bidder should submit manufacturer's authorization		
9.2	Warranty	The unit should have 12months Warranty		
9.3	Ex -Stock	Items must exist Ex-stock to reduce the delivery times		