

**জাতীয় জীন ব্যাংক স্থাপন প্রকল্প**  
ন্যাশনাল ইনস্টিটিউট অব বায়োটেকনোলজি  
গণকবাড়ি, আশুলিয়া, সাভার, ঢাকা

**গত ২৭/০৭/২০২২ তারিখে প্রকাশিত জাতীয় জীন ব্যাংক স্থাপন (১ম সংশোধিত) প্রকল্পের দরপত্র সংশোধনী  
বিজ্ঞপ্তি (স্মারক নং: ৩৯.০৬.২৬৭২.০১৪.০৭.০০৩.২২.২৩৯৫; তারিখ: ২৬ জুলাই ২০২২,) এর আওতায়  
কারিগরি বিনির্দেশ এর সংশোধনী**

কারিগরি বিনির্দেশের যে অংশে সংশোধন আনয়ন করা হয়েছে সে অংশ ব্যতীত অন্যান্য অংশ অপরিবর্তিত থাকবে। সংশোধনীর  
তালিকা নিম্নরূপ-

<b>1.</b>	<b>LED Video Wall Display</b>	Country of Origin	USA/Canada/ EU/South Korea/ Vietnam /Japan/Equivalent
		Country of Manufacturing	USA/ Canada/ EU/ South Korea/ Vietnam/ Japan/ Equivalent
		Cabinet Configuration (LxH, per cabinet)	Min. 380 x 210 pixels
		Typical Power consumption (W/m <sup>2</sup> )/ (W/Cabinet)	130 (W/m <sup>2</sup> ) / 60 (W/Cabinet) or less
		Working Temperature / Humidity	0-45°C;10%-80% RH or better
		Storage Temperature / Humidity	To be mentioned by the bidder
		Curve	Should have option for making curve (if necessary) the display
		Certification	ISO, EMC Class A, Safety certificate, FCC, UL, CB, KCC (Should provide related documents)
<b>02</b>	<b>LED Video Wall Player</b>	Country of Origin	USA/Canada/EU/ South Korea/ Vietnam /Japan/ Equivalent
		Country of Manufacturing	USA//Canada/EU/ South Korea/ Vietnam/ Japan/Equivalent
		Certification	Safety: UL/c-UL, CB, EMC Class B/CE/ETL (Should provide related documents)



<b>03</b>	<b>Video Wall Display</b>	Country of Origin	USA/Canada/ EU/South Korea/ Vietnam /Japan/ Equivalent
		Country of Manufacturing	USA/ Canada/ EU/South Korea/ Vietnam/ Japan/Equivalent
		Color Gamut	NTSC 70-80%
		H & V- Scanning Frequency	60kHz ~ 70kHz & 40Hz ~ 70Hz
		Pixel Frequency	Min.70MHz
		Input Connectivity	DVI-D, Display Port 1.2, Video: HDMI 2.0 (2), HDCP: HDCP 2.2, Audio: 3.5mm/Stereo mini-Jack, USB2.0.
		Operating Temp.& Humidity	0-40°C;10%-80% RH or better
		Features	Advanced Color Management, Auto Source Switching & Recovery, Haze 28%, Temperature Sensor, RS232C/RJ45, Plug and Play, Video Wall(15x15), Video Wall Daisy Chain(10x10), Pivot Display, Image Rotation, Button Lock, DP 1.2 Digital Daisy Chain (Supporting UHD Resolution, HDCP support), Clock Battery, IP5X tested, EMC Class A, ISO Certificate
		Safety Certification	UL: 60950-1, EN:60950-1, KC : K60950-1
		EMC Certification	FCC (USA) FCC Part 15, Subpart B Class A CE (Europe) EN55022, EN55024 VCCI (Japan) VCCI CISPR32:2016 KCC (Korea): KN32, KN35, (Should provide related documents)
IP Rating Certification	IP5X or as per brand/technology (Should provide related documents)		
<b>04</b>	<b>Video Wall Mounting Kits</b>	Country of Origin	USA/Canada/EU/ South Korea/ Vietnam /Japan/ Equivalent
		Country of Manufacturing	USA/ Canada/EU/ South Korea/ Vietnam/ Japan/ Equivalent
		Accessory	Holder, VESA Bolt, Screw, Spacer, Double Tape, L-Wrench, Anchors, Safety Screw, P CLIP, Q Manual

<b>05</b>	<b>Commercial Display</b>	Country of Origin	USA/Canada/EU/ South Korea/ Vietnam /Japan/ Equivalent
		Country of Manufacturing	USA/Canada/EU/ South Korea/ Vietnam /Japan/ Equivalent
		Type	Direct LED BLU/LED/IPS
		Contrast Ratio	4000:1 or better
		Colour Gamut	NTSC 70-80%
		Haze	3% or less
		Dynamic C/R	MEGA or as per brand/technology
		H & V-Scanning Frequency	25 ~ 85kHz & 40 ~ 85HZ
		Pixel Frequency	600MHz or better
		Input Connectivity	USB 2.0 x 1, HDMI 2.0 (2), HDCP 2.2, 3.5mm/Stereo Mini Jack
		Power Consumption	Max. 300[W/h]
		Bezel Width (mm)	3 or less
		Special Features	H/W: Temperature Sensor, Clock Battery, Built in Speaker (10W 2ch), IP5x Rating S/W: Auto Source Switching & Recovery, Button Lock, Plug & Play Option, ISO Certificate
		Internal Player	Processor: Cortex Quad-Core CPU or better, On-Chip Cache Memory: Cache 2MB or better, Clock Speed: 1.7GHz, Main Memory Interface: 2.0GB LPDDR4, 64bit, Graphics: Graphic resolution : 1920x1080 Output resolution : 3840x2160, Storage: 8GB or higher, Multimedia: *Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder : AC3, MPEG, IO Ports: USB 2.0, Operating System: VD Linux/Windows/Android
Safety Certification	UL 60950-1, FCC (Should provide related documents)		
EMC Certification	Class B, FCC (Should provide related documents)		
<b>06</b>	<b>Interactive Board Display</b>	Country of Origin	USA/Canada/EU/ South Korea/ Vietnam /Japan/ Equivalent
		Country of Manufacturing	USA/ Canada/EU /South Korea/ Vietnam/ Japan/ Equivalent



		Input Connectivity	HDMI 2(Rear 1, Front 1), DP, OPS, 2(Rear/Front), 2.0/3.0 External
		Output Connectivity	HDMI 1 (Screen Share in Front), 1(Stereo Mini Jack), Touch Out 2 (USB Upstream Type, Front 1, Rear 1)/Optical1
		Type	LED/LED Edge,/IPS, Min.60Hz
		Contrast ratio	4000:1 or better
		No# of Drawing	15 or more points touch
		Haze	5%~20%
		Hardness	Heat Semi-Strengthened Glass/7H/9H
		Power Type	Internal (Main, OPS)
		Power Consumption BTU(Max)	Max[W/h]: 430 (OPS 20V/3.7A)
		BTU(Max)	1500.00 (OPS 20V/3.7A)
		VESA Mount (mm)	600 x 400 or as per brand/technology
		Bezel Width (mm)	To be mentioned by the bidder
		Special Features	H/W: Touch Overlay (IR), Front Connectivity (Tray), OPS Support (w/OPS Box) Built-in Speaker (10W x 2), WiFi/BT Module Embedded S/W: Flip S/W Platform: same brand of display
		Security Certification	EAP-TLS, EAP-TTLS, EAP-PEAP
		EMC Certification	Class A (Related Certificate should be attached)
		Included Accessory	Power Cord, USB Upstream Cable, Pen, OPS Box, Warranty/QSG
		Parts Warranty & Service	Min. 03 (Three) Years Replacement and Service Warranty
<b>07</b>	<b>UHD 4K Television (A)</b>	Country of Origin	USA/Canada/EU/South Korea/ Vietnam /Japan/ Equivalent
		Country of Manufacturing	USA/ Canada/EU/ South Korea/ Vietnam/ Japan/ Equivalent
		Type	60Hz E-LED BLU/IPS
		Contrast ratio	4000:1 or better
		Color Gamut	NTSC 70-80%
		Haze	3% or less

<b>08</b>	<b>UHD 4K Television (B)</b>	Country of Origin	USA/Canada/ EU/South Korea/ Vietnam /Japan/ Equivalent
		Country of Manufacturing	USA/ Canada/ EU/South Korea/Vietnam/ Japan/ Equivalent
		Color Gamut	NTSC 70-80%
		Contrast ratio	4000:1 or better
		Haze	3% or less
<b>09</b>	<b>UHD 4K Television (C)</b>	Country of Origin	USA/EU/China/ South Korea/ Vietnam /Japan/ Equivalent
		Country of Manufacturing	USA/EU/ China/South Korea/ Vietnam/ Japan/ Equivalent
		Country/Location	To be mentioned by the bidder
		Mobile to TV - Mirroring, DLNA, Tap View, Music Wall, Easy Setup, App Casting, Bluetooth Low Energy, WiFi Direct, TV Sound to Mobile, Sound Mirroring, Tune Station, Auto Hotspot Connect, S-Share, Auto Data Backup, Dongle Compatibility (3G /LTE/WiFi), Analog Clean View, Triple Protection, HGiG	Should be available
<b>10</b>	<b>Interactive Standing Kiosk</b>	Country of Origin	USA/EU/China/ South Korea/ Vietnam /Japan/ Equivalent
		Country of Manufacturing	USA/ EU/China/ South Korea/ Vietnam/ China/ Equivalent
		Contrast ratio	4000:1 or better
		Working temperature	0-50 <sup>0</sup> C; 10%-80%RH or Better
		Storage Temperature / Humidity	To be mentioned by the bidder
<b>11</b>	<b>Commercial and 4K TV Mounting Kits System</b>	Country of Origin	USA/Canada/EU/ South Korea/ Vietnam /Japan/ Equivalent
		Country of Manufacturing	USA/ Canada/EU/ South Korea/ Vietnam/ Japan/ Equivalent
		Included Accessory	Holder, VESA Bolt, Screw Spacer, Double Tape, L-Wrench, Anchors, Safety Screw, etc.



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ড. জাহাঙ্গীর আলম  
প্রকল্প পরিচালক