Corrigendum to Tender No. 104/MYS/MAINT(U)/ 2017-18, dated 16/01/2018 for "Up-gradation of CCTV System and Servers with IP Cameras and Implementation of Video Analytic Features" at BRBNMPL, Mysuru.

Sl No.	Tender Clause Sl.No.	Parameters	Existing Technical Specifications		Revised Technical Specifications	
1.	Section VII , Clause No.III 8, Sl.No. 37 Page No. 24 and Section XI , Sl.No. 37 Page No.71	Specification	IP NW 4 Megapixel Fixed Camera (Outdoor), including 128GB of SD card, Housing, fixtures, Power supply, Patchcards etc. for video analytics		IP NW 3 Megapixel Fixed Camera (Outdoor), including 128GB of SD card, Housing, fixtures, Power supply, Patch cards etc. for video analytics	
2.	Section VII , Clause No. III 3Sl.No.e) Page No. 16	Scope of work	DATA migration from the existing CCTV system to new CCTV system needs to be carried out on completion of the installation		This point stands cancelled	
3.	Section VII , Clause No. III 8 ,Sl.No.4 Page No. 22 and Section XI , Sl.No. 4 Page No.71	BOQ/Pricebid	Item	Qty	Item	Qty
			Camera Server for recording the video of IP cameras with **07 days back-up** (50 cameras per server, 10+1 standby) including required accessories	11	Camera Server for recording the video of IP cameras with **07 days back-up** (50 cameras per server, 11+1 standby) including required accessories	12
			Item	Qty	Item	Qty

4.	Section VII , auseno.III Sl.No. 8.7 Page No. 22 and Section XI , Sl.No. 7 Page No.69	BOQ / Price Bid	L3 switch – Minimum 2Line cards of 24 x 10/100/1000 Mbps RJ45 ports , Minimum 2Line cards of 4*10G SFP + ports 4 dedicated I/O slots - Fully Loaded with accessories including LIU, SFU Modules, Patch cords, Pig tails etc	01	L3 switch – Minimum 2Line cards of 24 x 10/100/1000 Mbps RJ45 ports , Minimum 2Line cards of 4*10G SFP + ports 4 dedicated I/O slots - Fully Loaded with accessories including LIU, SFU Modules, Patch cords, Pig tails etc	02

5.	Section VII , Clauseno.III Sl.No. 8.6 Page No. 22 and Section XI , Sl.No. 6 Page No.69	BOQ / Price Bid	Video Wall with 40" LED monitors (Min. 12 Nos.) Industrial grade and required 12 nos. of Client PCs with multi monitoring feature for live viewing and Video Analytics monitoring (Including Powder coated Frame work and accessories)	01 No.	Video Wall including video wall controller , 12 Nos.of 40" LED monitors Including Powder coated Frame work & accessories and required 12 nos. of Client PCs with multi monitoring feature for live viewing and Video Analytics monitoring of 600 Cameras	01 Lot
6.	Section VII , Clause No. 9.1 Sl.No.14 Page No. 25	Video resolution	> 2 MP (1920x1086)		> 2 MP (1920x1080)	
7.	Section VII , Clause No.9.2 Sl.No.14 Page No.26	Quad H.265/H264	Required, Live stream 1080p should support min. 60 FPS and recording at lower resolution and frame rate or vice versa as may be configured.		Required, Live stream 1080p should support min. 30 FPS and recording at lower resolution and frame rate or vice versa as may be configured	
8.	Section VII , Clause No.9.2 Sl.No. 18 Page No. 27	Operational temperature	0°C to 60 °C		0°C to 50 °C	
9.	Section VII , Clause No.9.5 Sl.No. 4 Page No. 29	Server-Client Architecture	The VMS shall Manage and support Enterprise Database servers, Recording Servers, Analytics Server, Storage and Operator workstations. The VMS shall support minimum 2500 cameras		The VMS shall Manage and support Enterprise Database servers, Recording Servers, Analytics Server, Storage and Operator workstations. The VMS shall support minimum 2500 cameras managed per	

				managed per Enterprise Database Server.Systems shall be scalable by adding additional Servers. The VMS shall support Analytics Serversdedicated to analyze video streams. The Analytics Servers shall process the live video using preconfigured rules and Intelligent Video Analytics algorithms to determine events of interest.	Enterprise Database Server.Systems shall be scalable by adding additional Servers. The VMS shall support Analytics Serversdedicated to analyze video streams. The Analytics Servers shall process the live video using preconfigured rules and Intelligent Video Analytics algorithms to determine events of interest The VMS Shall provide minimum 10 client software licences. Also, VMS should be compatible with video controller/video wall
10.	Section VII , Clause No.III Sl.No. 5 g Page No. 19	Scope of work		The Contractor should maintain the system 100% uptime. If the contractor fails to liquidate the complaints, failure of the system within a required time frame, a compensation for delay at 0.5% of monthly contract value per week for each occasion will be deducted. However, total deduction in this regard is limited to10% of the total contract value. Further such action shall be adversely remarked while evaluating performance for further renewal of the Contract	a) The Contractor should maintain the overall system 99.9% uptime for Server ,Storage, Network etc. through redundancy and spares at site. b) In case of Main / Hot standby Hardware / software failed it should be resolved by next business day. c) If the contractor fails to liquidate the complaints, failure of the system within a required time frame, a compensation for delay at 0.5% of quarterly AMC contract value per week for each occasion will be deducted (Quarterly Uptime = 100x(Total hours –Down hours) / Total hours

				(24hrs*90days basis for calculation of downtime)
				d) However, total deduction in this regard is limited to10% of the AMC cost for each incident.
				e) Defective disks will be retained by BRBNMPL
				f) Minimum spares to be kept at site shall include but shall not restrict to the following; i)All type of Cameras – 2nos. each. ii)Edge switches-2nos. each. iii)L2 Switch- 01 No. iv)All type of storage & server disks- 01 No. each v)10G & 1G SFU modules - 2nos. each. vi)POE injectors-01 No. vii)40" LED Monitor-01 No. viii)Power supply unit, Network card, Motherboard etc. for Camera servers and VMS server - 01 each
11.	Section VII , Clause No.9.5 Sl.No. 18 Page No. 34	Map function	Built-in map function in the client viewer shall provide an intuitive overview of the system and shall offer integrated access to all system components.	Built-in map function in the client viewer shall provide an intuitive overview of the system and shall offer integrated access to all system components.

			VMS should support GIS Map, CAD online Maps (Google Maps, Bing and Open street Maps). Map function shall be able use standard graphical file formats including jpg, gif, png, tif etc. It shall be possible to use any number of layered maps, and it shall be possible to easily drag-and drop and point-and-click definition of cameras,servers, microphones, speakers, I/O devices,hot-zones, and PTZ camera presets. Hot zones shall be allowed for intuitive navigation between different map levels. Map function shall support central overview of the surveillance system via an alarm list containing alarm indicators of high, medium or low prioritized alarms. Furthermore the alarms shall be categorized by the following states; new, in progress, on hold, or closed. Alarms must be possible to acknowledge by right clicking elements on maps	VMS should support GIS Map, CAD offline Maps (Google Maps, Bing and Open street Maps). Map function shall be able use standard graphical file formats including jpg, gif, png, tif etc. It shall be possible to use any number of layered maps, and it shall be possible to easily drag-and drop and point-and-click definition of cameras,servers, microphones, speakers, I/O devices,hot-zones, and PTZ camera presets. Hot zones shall be allowed for intuitive navigation between different map levels. Map function shall support central overview of the surveillance system via an alarm list containing alarm indicators of high, medium or low prioritized alarms. Furthermore the alarms shall be categorized by the following states; new, in progress, on hold, or closed. Alarms must be possible to acknowledge by right clicking elements on maps
12.	Section VII , Clauseno.9.12 Sl.No. 6 Page No. 43	Operating System	Microsoft Windows Server 2016 (64 bit) Standard Edition. License Copy would be in the name of BRBNMPL	Microsoft Windows Server 2012 and above / latest (64 bit) Standard Edition. License Copy would be in the name of BRBNMPL
13.	Section VII , Clauseno.9.12 Sl.No. 7 Page No. 43	Licensed Software	Microsoft SQL 2016 standard edition License Copy would be in the name of BRBNMPL	VMS licence should be in the name of BRBNMPL & database used for VMS should have licence in the name of OEM / BRBNMPL
14.	Section VII , Clauseno.9.19 Sl.No. 12 Page No. 49	Operating System	Licensed Windows Server 2016 (64bit) (Standard Edition)	Licensed Windows Server 2012 and above / latest (64 bit) (Standard Edition)

15.	Section VII , Clauseno.9.23 Sl.No. 7 Page No. 52 and Section VII , Clauseno.9.4 Sl.No. 6 Page No. 29	Operating System	Microsoft Windows Server 2016 (64 bit) Standard Edition/Linux. License Copy would be in the name of BRBNMPL	Microsoft Windows Server 2012 and above / latest (64 bit) Standard Edition/linux. License Copy would be in the name of BRBNMPL
16.	Section VII , Clauseno.9.27 Sl.No. 9 Page No. 54	Operating System	Windows Operating System, Microsoft SQL Server software, Microsoft SQL Server database files, MSOffice, VMS Transaction Log	Windows Operating System Microsoft SQL Server software, Microsoft SQL Server database files, MSOffice, VMS Transaction Log or similar available software in LINUX operating system
17.	Section VII , Clauseno.III Sl.No. 2b Page No. 16	Scope of work	Existing L3 Switch which is hosting existing OFC rings shall be upgraded if required in order to get configured with new L3 switch to provide 1+1 hot redundant and also to provide fail-safe service for all the connected cameras by hosting all OFC rings including new ring/s.	L3 switches should be configured to provide 1+1 hot redundancy and also to provide fail-safe service for all the connected cameras by hosting all OFC rings including new ring/s
18.	Section VII , Clauseno.III Sl.No. 4 B h Page No. 18	Scope of work	FRS software should have False Negative Identification Rate(FNIR) less than 0.8 in identification	FRS software should have False Negative Identification Rate (FNIR) less than 0.8 in Identification as per FIVE report of NIST
19.	Section VII , Clauseno.III 9.32 Sl.No. 14 Page No. 59	Additional Softwares	IIS Components, MS Office compatible to OS,DirectX 9	IIS Components, MS Office compatible to OS,DirectX 9 or similar available in Linux

20.	Section VII , Clauseno.III 9.32 Sl.No. 15 Page No. 59	Browser	Internet Explorer latest version	Internet Explorer latest version or similar browser in Linux
21.	Section VII , Clauseno.III 9.30 Sl.No. 25 Page No. 58	Certifications	CE,FCC,UL	CE/FCC/UL
22.	Section VII , Clauseno.III 9.20 Sl.No. 13 Page No. 50	Supported protocol	IPv4/IPv6, HTTP, HTTPS, TCP/IP, UDP,UPnP, ICMP, IGMP, RTSP, RTP, SMTP, NTP,DHCP, DNS, PPPoE, DDNS, FTP, QoS, SNMP v2c/v3, RTCP	IPv4/IPv6, HTTP, HTTPS, TCP/IP, UDP,UPnP, ICMP, IGMP, RTSP, RTP, SMTP, NTP,DHCP, DNS, DDNS, FTP, QoS, SNMP v2c/v3, RTCP
23.	Section VII , Clauseno.III 9.20 Sl.No. 16 Page No. 50	Alarm Triggers	Video motion detection, active tampering alarm, audio detection, temperature, external input	Video motion detection, active tampering alarm, audio detection, external input
24.	Section VII , Clauseno.III 9.19 Sl.No. 1 Page No. 48	VideoAnalytic Processing /Application Server-Model	specifications: Intel Xeon E5-2695v4 or higher, 2.3 GHz, 14 core, 35 Mb cache Memory bus speed 1333 MHz or better	specifications: 2 x Intel Xeon E5-2695v4 or higher, 2.10 GHz, 18 core, 45 Mb cache Memory bus speed 1333 MHz or better
25.	Section XI , Clause A Sl.No. 39 Page No. 71	Price bid	UVS System with required Server, Software & Cameras (01Main camera & 04 Auxiliary camera)	UVS System with required Server, Software & Cameras (01Main camera ,04 Auxiliary camera & 01 Number plate scanning camera)
26.	Section VII , Clause No.10 Sl No.14 Page No. 62	Approved Makes-Equipments	Armoured CAT6 cable	Armoured / Unarmoured CAT6A cable
27.	Section VII , Clause No.10 Sl No.3 Page No. 62	Approved Makes-Equipments	Facial Recognition System	Facial Recognition SDK

			Equipment	Existing Approved makes	Revised Approved makes
28.	Section VII , Clause No.10 Page No. 62	Approved Makes	1)Video management software	Milestone, pelco, CISCO , Honeywell, Bosch, Godrej, Gentec, IBM, Videonetics, Siemens	Milestone, pelco, CISCO , IBM, Honeywell, Bosch, Godrej, Gentec, Videonetics, Siemens, Mindtree
			2)Video Analytics	Milestone, Bosch, Pelco, Honeywell , Allgovision , Videonetics, Godrej	Milestone, Bosch, Pelco, Honeywell , Allgovision , Videonetics, Godrej, Mindtree
			3)Facial Recognition SDK	NEC, cognitec, Neurotechnology	NEC, Cognitec Neurotechnology ,3M Cogent
			14)Armoured /Unarmoured CAT6A cable	Tyco/Crestron/Extron/DLink/Finolex	Tyco/Crestron/Extron/DLink/Finolex / TE Connectivity
			9)Edge switches	Allied Telesis, Cisco, HP, Juniper, Dlink	Allied Telesis, Cisco, HP, Juniper, Dlink, AMG
			16)Power cable	Polycab, Finolex, Havells	Polycab,Finolex, Havells,V Gaurd Deepanjanpower
			17)Equipment Racks	Rittal, Dell, IBM, Netapp, APW Schneider	Rittal, Dell, IBM, Netapp, APW,Schneider, Netrack
			20)Video controller for videowall	-----------------	Delta, Barco, Cristie, Intelitech Matrox

				ANPR & UVS System	NEC, Bosch, Pelco, Kritikal, Secuscan, Honeywell, Polixel	NEC, Bosch, Pelco, Kritikal, Secuscan, Honeywell, Polixel,Videonat ics,Godrej

Additional Requirements:

Video wall Controller

Section VII , Clause No.III – 4E, Page-19

Controller shall be capable of managing multiple display walls (3*4 Display) using standard IP network. The system should use H.264/H.265 network video and audio streams to carry all content, providing an open and compatible system that can work with external hardware and software environments, including network cameras for security and surveillance.

The system must be future expandable and capable of driving from one up to many discrete displays arranged in a rectangular configuration or combine to create a single canvas to place and display live source content. The system must be able to guarantee perfect synchronization between displays in any single display wall. Multiple display walls must be able to be managed by the system administrators.

The system must support both audio and video signals, network display streams, still images, network surveillance cameras, and web content, played out on a display wall and on desktop systems, with multiple users having simultaneous access to content in the system. A built in mechanism to move and share content between users with the ability to easily communicate must be part of the system.

The controller inputs should be capable to take 12 Nos direct DVI inputs of resolution 1920 x 1080 from each server/workstation in the control room, encode them to H.264 stream – which could be presented on the video wall in any combination, either full screen or as a part of a single display. The controller should also be able to directly stream IP H.264 based inputs on the wall without using any separate encoders, where the same device should be able to Encode/Decode. The controller should also have a capability to cut any part of the displayed data and paste it on any part of the wall. Controller should also have a capability to save the layouts and recall them through the wall management software or through any control device by a single click. Controller should be able to replicate the input streams on the same display wall/ any other display wall which is on the same network connected to the controllers.

Video wall controller specification

Section VII ,Clause No.III ,Sl No. 9.38, Page-62

Parameter	Specification	Compliance (Yes/No)
Processor	Intel Xeon quad processor dual E5 series or better	
Video inputs	12 DVI/HDMI each supporting resolutions of minimum 1920*1080	
Video outputs	12 DVI/HDMI each supporting resolutions of minimum 1920*1080	
Streaming inputs	Should be capable of showing 72 streamed H.264 inputs on the screen, in any layout , size etc	
Display Configuaration	Display will be configured in the matrix of 3x4,each display shall have DVI input	
Transmission Distance	10-50m	
Harddrive	Minimum 2TBx2	
RAM	32Gb	
Operating system	Latest Windows/Linux	
Licenced software	Should be in the name of BRBNMPL	
Power supply	Dual & Redundant	
Mounting	Rack mountable	

There is no change in any other terms and conditions of the said tender.

Sd/-
(S M Pawale)
Asst. General Manager