

Corrigendum for Tender for CCTV camera System (Tender No. 985)

- A. As per the previous tender notice (No. 985) for CCTV Cameras, the date of the Pre bid meeting was scheduled on 1/12/2015 at 10.00 am. Instead of that it should be read as **“The Date of the Pre bid meeting is 16/11/2015 at 10.00 am”**.
- B. As per the previous tender notice, the specifications for the CCTV cameras were given, these may please be read as below. Also the specifications for the Video Management software were not mentioned in the tender notice, this may be read as below.

A. Indoor Cameras

#	Parameter	Recommended Specifications
1.	Video Compression	H.264
2.	Video Resolution	1280 x 720 or above
3.	Frame rate	Minimum 25 fps in all resolutions
4.	Image Sensor	1/4" Progressive Scan CMOS / CCD
5.	Lens Type	Fixed Focal/Varifocal
6.	Lens	4x digital zoom, 10x Optical Zoom
7.	Minimum Illumination	Colour: 0.5 lux, B/W: 0.1 lux (at 30 IRE)
8.	Panning Range	360 degrees (endless)
9.	Tilting Range	0 degrees to 90 degrees
10.	Image settings	Compression, colour, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, Auto Tracking, Pre-Set Tour Settings
11.	Audio	Built in Microphone
12.	Protocol	HTTP, HTTPS, FTP, SMTP, RTSP, RTP, TCP, UDP, RTCP, DHCP, UPnP, QoS
13.	Security	Password Protection, IP Address filtering, User Access Log
14.	Operating conditions	0 to 50°C
15.	Casing	Tamper Resistant casing for Indoor Environment



#	Parameter	Recommended Minimum Specifications
9.	Audio	Built in Microphone
10.	Protocol	HTTP, HTTPS, FTP, SMTP, RTSP, RTP, TCP, UDP, RTCP, DHCP, UPnP, QoS
11.	Security	Password Protection, IP Address filtering, User Access Log
12.	Operating conditions	0 to 50°C
13.	Casing	Outdoor Cameras (in open sky) to include IP66 Casing. (Box or Dome)

C. PTZ Cameras

#	Parameter	Recommended Specifications
1.	Video Compression	H.264
2.	Video Resolution	1280 x 720 or above
3.	Frame rate	Minimum 25 fps in all resolutions
4.	Image Sensor	1/4" Progressive Scan CMOS / CCD
5.	Lens Type	Fixed Focal/Varifocal
6.	Lens	4x digital zoom, 10x Optical Zoom
7.	Minimum Illumination	Colour: 0.5 lux, B/W: 0.1 lux (at 30 IRE)
8.	Panning Range	360 degrees (endless)
9.	Tilting Range	0 degrees to 90 degrees
10.	Image settings	Compression, colour, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, Auto Tracking, Pre-Set Tour Settings
11.	Audio	Built in Microphone
12.	Protocol	HTTP, HTTPS, FTP, SMTP, RTSP, RTP, TCP, UDP, RTCP, DHCP, UPnP, QoS
13.	Security	Password Protection, IP Address filtering, User Access Log
14.	Operating conditions	0 to 50°C
15.	Casing	Tamper Resistant casing for Indoor Environment



Specifications regarding Video Management Software

S.N.	Video Management Software	Vendors Compliance (yes/No)`
1	VMS shall be a highly, scalable enterprise level software solution	
2	The system MUST be a based on Llinux OS to avoid & withstand virus attacks	
3	The VMS must be a server & client architecture for	
4	VMS client shall provide secured remote view of the cameras and full administration rights from Windows XP, Windows vista, Windows 7PCS and OS/X MAC computers	
5	For data security operating system must be loaded on solid state drive	
6	VMS should not need any proprietary hardware to load operation system on	
7	VMS MUST be capable of providing full admin remote control using client over LAN, WAN/WIFI/3G/4G	
8	VMS should have built in VPN capability for secured transmission of the data using VMS client.	
9	VPN connection should be password projected	
10	Frame rate and resolution of recorded data and live display should be independently set and controlled.	
11	Should be able to provide secured real time cameras matrix access (minimum 16 cameras matrix) over the web to multiple users (more the 25) at a time in available bandwidth.	
12	VMA should be equipped with automatic bandwidth management & bandwidth application capability to provide satisfactory remote view of the cameras in punctuating bandwidth.	
13	VMS should monitor available bandwidth and automatically adjust live preview to give smooth live display for adopting video stream to the available bandwidth.	
14	VMS should be able to stream satisfactory secured live real time min 16 IP cameras Matrix to mobile devices using web browser. VMS allow to select individual camera from matrix in mobile web browser.	
15	VMS should support all mobile browsers like symbian, operamini, apple safari, google chorme.	
16	VMS should be able to archive recorded data on LAN/WAN/3G/4G/WIFI network without closing live matrix.	
17	VMS should have auto switchover network capability (should be able for switchover) to secondary network if primary fails.	
18	VMS should have following web based serve management options a. Should provide system information like serve uptime duration. Local IP address, HDD status like no of HDD connected / partition/recycling/health cameras recording & streaming status. b. HDD management add & remove SATA/NAS/USB drives options detailed log of HDD add/remove activities. c. Network management internet connectivity test DHCP & static IP setup. Dynamic DNS client setup VPN uninstall / install control SSL	



	<p>uninstall/install controls firewall uninstall/install controls.</p> <p>d. System management reboot/shutdown option with password protection VPN password management serve report generation</p> <p>e. Should be able to update system /license remotely.</p> <p>f. Setting server time automatic (enable NTP) manual selection. Time zone selection</p> <p>g. Should be able to view live cameras real time with secured password protected protection.</p>	
19	The software should be compatible with at least 5 different makes of IP cameras.	
20	VMS should have auto DHCP IP camera search should track IP address of cameras automatically for easier installation and maintenance.	
21	VMS should automatically track all installed IP cameras in the LAN to keep them connected in case when the IP address changes due to power cycling or reassignment connection to IP cameras should automatically restore if broken for any reason.	
22	VMS should be able to record each independent channel /camera in DI, 720P, 1080 P & 2 megapixel resolution.	
23	VMS should be able to change brightness, contrast, hue, salutation, recording resolution, bit rate, contrast quality & frame rates of each camera.	
24	VMS should be able to play recorded video directly from server without closing cameras matrix on LAN,WAN,WIFI,3G.4G networks.	
25	VMS should be able to transmit the videos over the internet without static IP address or without any port forwarding or without any registration.	
26	The software should comply to the on / standards completely (viewing, recording, Management, controlling, PTZ)	
27	The VMS should support multi recording serve configuration the software should also support NAS & SAN for recording and backup of video files	
28	The system shall allow for live view, playback and system configuration of the IP video system.	
29	The system shall allow for creation of multiple users and assign restricted access to users	
30	VMS should be capable of integrating old existing analog CCTV cameras in new IP camera setup	
31	MMS should support multiple matrix windows, each matrix with different resolution.	
32	VMS should support min tow default matrix of two independent HD and SD resolution.	
33	Each matrix should have selectable MPEG & MJEG viewing option.	
34	VMS should allow renaming setting different resolution PPS & number of cameras inputs in each matrix.	
35	VMS should allow creation of multiple matrix	
36	VMS should allow much of multiple matrices as many as you have setup including the two default matrices each matrix can be independently controlled.	
37	VMS should have private camera factions should be able to view selected	



	camera without disturbing existing matrix over LAN/WAN/3G/4G/WIFI networks.	
38	VMS shall be possible to listen to audio from individual encoder cameras or Decoders /receivers.	
39	Audio must be simultaneously transmitted from the operator to allow a two way conversation.	
40	System should have two relay & two IO inputs and they should be able to program to factions as per schedule and also should be able to manage remotely.	
41	VMS should be able to programme of automatic recording events on NVR	
42	Multiple NVR should be configurable from client.	
43	VMS should be able to set different recording schedule for different cameras	
44	VMS should be able to set backup schedule for the recorded video on a daily/weekly Basis including time of start and date/time of end.	
45	Joystick control on GUI itself to do a PTZ control of cameras	
46	PTZ function shall be possible from keyboard as well as arrow keys should be used to Do and the camera unit	
47	Brightness, contrast, sharpness, white balance can be set from the main GUI of software	
48	The VMS shall allow the following a) Live display of camera, recording viewing of recording & configuration should be possible at the same time on LAN/WAN/3G/4G/WIFI networks & locality. b) Control of PTZ cameras c) Custom layout user can programme the layout as per his/her need/requirement d) Playback of archived video over LAN/WAN/3G/4G/WIFI networks remotely e) Configuration of system settings f) Execution of salvos & sequences using tasks or manually. g) Season alarms based on type of alarm type of source date	
49	Should be able to instant playback of recorded video on live remote video pane on LAN/WAN/3G/4G/WIFI networks without closing live cameras matrix	
50	Software should have inbuilt SMS gateway and send SMS to predefined number if any alarm/event.	
51	For each camera set up bit rate, frame rate and resolution shall be independent of setting in the system, operating the setting of one shall not affect the setting of other cameras	
52	Should have software to detect if video in tampered.	
53	The software shall be capable of monitoring the status of camera in the network and shall indicate when a device goes offline by suitable red cross across the camera.	
54	Video search the software should allow search based on time, date and day	
55	MMS should provide list of alarm set event.	
56	VMS should be able to provide event related video clips	



57	Analytics integration alarms from analytics should get listed in the alarm list of VMS in real time.	
58	VMS should able to provide basic video analytics like video loss, camera blind, motion detection, area masking.	
59	MMS should support sophisticated multilayer MAP function	
60	MMS should support SMART UPS function	
61	Central server health monitoring support VMS should have health monitoring serve located in the cloud to monitor health of the VMS servers (connected with internet or LAN) and should notify interruption in operation through email and SMS messages to a designated person.	
62	Details of the system to be submitted Make Model number Datasheet submitted OSM authorization letter	

Sd/-
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