

e) QR OF SOFTWARE FOR INTEGRATION OF CAMERAS WITH SDK/API WITH VMS, 2.5D MAPS, HYPERLINK, VA-TRIPWIRE & ZONE ENTRY EXIT

Sr. No.	Specifications
1	<b>REQUIREMENT:</b>
	The requirements VMS System shall be as below:
1.1	<b>Management Software:</b>
1.1.1	This shall be a highly scalable enterprise level software solution. It shall offer a complete video surveillance solution that will be scalable to required numbers of cameras that can be added on a unit-by-unit basis.
1.1.2	The Management Software shall be licensed and shall operate on open architecture and shall require no proprietary IT hardware.
1.1.3	The Management Software shall allow for video to be streamed on workstation in Matrix or on a video wall.
1.1.4	The user with administrative rights shall create clients (users) and give access to the software client application based on predefined user access rights.
1.1.5	The system shall allow the recording, live monitoring, playback of archived video and data simultaneously.
1.1.6	The software shall provide the following:
1.1.6.1	Several simultaneous live picture connections of camera in network.
1.1.6.2	Configuration of monitoring situation (2 Dimensional Multi-Level site maps).
1.1.6.3	Programming of alarm-triggered automatic events in various alarms configuration.
1.1.6.4	System set up with limited operation options for clearly defined surveillance tasks.
1.1.6.5	Programming of automatic recording events on a network recorder.
1.1.7	The software shall display dual H.264 video streams in real time simultaneously at frame rates ranging from 1 fps to 25 fps and resolution ranging Full HD to other HD/SD resolution.
1.1.8	Each camera's bit rate, frame rate and resolution shall be set independently from other cameras in the system, and altering these settings shall not affect the recording and display settings of other cameras.
1.1.9	The software shall provide automatic search and discovery of components of video surveillance system on the network which can be network cameras.
1.1.10	The software shall provide drag & drop functions on the system and also for set up of connection between cameras and monitors connected to one workstation.
1.1.11	The software shall allow:
1.1.11.1	Live display of cameras.
1.1.11.2	Live display of camera sequences.
1.1.11.3	Control of PTZ cameras.
1.1.11.4	Playback of archived video.
1.1.11.5	Retrieval of archived video.
1.1.11.6	Instant Replay of live video.
1.1.11.7	Use of site maps.
1.1.11.8	Configuration of system settings.
1.1.11.9	Configuration and programming of P/T/Z cameras, features like auto tours, presets etc.

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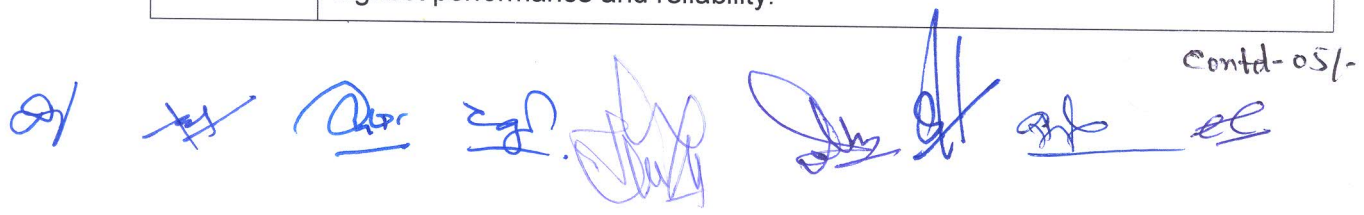
1.1.12	The software shall be able to do video recording on any of the following options - inbuilt hard disks on the server, direct attached storage boxes attached to servers, network attached storage, storage area network.
1.1.13	The software shall be capable of handling camera and alarm icons on area maps. The area map shall be configurable to pop up upon the receipt of an alarm received from a camera on the map. This can be on the same or other monitors on the PC.
1.1.14	The software shall be able to select the required recording based on the time recording was activated, the duration of recording, operator activated recording, event activated recording, scheduled recording.
1.1.15	The software shall provide a reporting utility for tracking for the following minimum options. Video clips and image snapshots shall be stored with reports for documenting events.
1.1.15.1	Alarms
1.1.15.2	Incidents
1.1.15.3	Operator logs
1.1.16	The software shall have the facility to export the desired portion of clipping of video from a desired date/time to another desired date/time on DVD/ on any client/ network storage device. Viewing of this recording shall be possible on authorized player which shall be provided by software manufacturer or in media player on computer utilizing a Window environment.
1.1.17	The Video Management servers shall not limit the number of network video recording servers which can be networked together to form video management and recording system.
1.1.18	The Video Management servers shall maintain a catalog of settings for all the clients, servers, and IP cameras & IP enabled cameras in the system. If Video Management servers & recording cannot be managed by single server, in such cases, additional server shall be provided.
1.1.19	The software shall enable the client to dynamically create connections between cameras and clients and view live or recorded video on Monitors.
1.1.20	The software shall provide the client seamless operation of all cameras and clients available in the system regardless of the actual connection to different Network Video Recording servers.
1.1.21	The software shall detect signal loss and have the capability to alert the systems administrator.
1.1.22	The software shall receive all incoming events (motion detection and triggered digital input and relay output) in the system and take appropriate actions based on user-defined event/action relationships.
1.1.23	The software shall create an audit trail of all events and user activities.
1.1.24	The Management Software shall support the following:-
1.1.24.1	The Management Software shall provide a full matrix operation of IP video to display monitors.
1.1.24.2	The Management Software shall have the capability of creating camera sequences with the following functionalities:
1.1.24.2.1	Each Sequence shall have capability up to hundreds of cameras.
1.1.24.2.2	Each camera in the sequence shall have its own individual dwell time, from 1 to 60 seconds.
1.1.24.2.3	Multiple users shall be able to view the same camera sequence simultaneously, not necessarily synchronized one with the other.

A series of handwritten signatures and initials in blue ink are located at the bottom of the page. From left to right, there is a stylized signature, a set of initials, a signature that appears to be 'Dhe', another signature, a signature that looks like 'Sudh', a signature that looks like 'Bh', and a signature that looks like 'el'. To the right of these signatures, the text 'Contd-3/' is written.

1.1.25	The software shall provide alarm management module.
1.1.25.1	The alarm management shall be able to set any monitor or groups of monitors to automatically display cameras in response to alarm inputs.
1.1.25.2	The alarm management shall be able to reset automatically or manually alarmed video.
1.1.26	It shall be possible to search for recordings in the software by camera, date and time. If a data and time is specified, playback shall commence from that date and time. It shall be possible to playback more than one camera simultaneously.
1.1.27	The software shall support at least 64 video streams concurrently. It shall support at least 4 monitors in one server/ workstation for displaying live video. It shall allow minimum 5 levels of user and alarm prioritization. It shall allow minimum 16 cameras to be replayed simultaneously.
1.1.28	The VMS shall be seamlessly integrated with Face recognition Software and have capability to receive the alerts.
<b>1.2</b>	<b>Graphic User Interface Client Software Features:</b>
1.2.1	The GUI software shall perform the following applications simultaneously without interfering with any of the storage server operations (recording, alarms, etc.):
1.2.1.1	Live display of cameras.
1.2.1.2	Live display of camera sequences.
1.2.1.3	Control of PTZ cameras.
1.2.1.4	Playback of archived video.
1.2.1.5	Retrieval of archived video.
1.2.1.6	Instant replay of live video.
1.2.1.7	Use of graphical controls (maps) and alarm management.
1.2.1.8	Configuration of system settings.
1.2.2	The GUI software shall support any form of IP network connectivity including LAN, WAN and wireless LAN technologies.
1.2.3	The GUI software shall support multicast and unicast video streaming.
1.2.4	The GUI software shall provide an authentication mechanism, which verifies the validity of the user.
1.2.5	The GUI software shall allow for live monitoring of video.
1.2.6	It shall enable view of 1 to minimum 16 video tiles simultaneously on a single digital monitor at 25 fps per camera.
1.2.7	The software shall provide on each of the digital monitors independently the following tile views:
1.2.7.1	Full screen
1.2.7.2	Quad view
1.2.7.3	4x4 (16-view)
1.2.7.4	The Software shall also support any other window division based on the site requirement.
1.2.8	The GUI software shall allow operators to view an instant replay of any Camera.
1.2.8.1	The operator shall be able to define the amount of time he wishes to go back from a timeline bar or through a custom setup period.
1.2.8.2	The operator shall be able to control the playback with play, pause, forward, and speed buttons.
1.2.9	The operator shall be able to choose and trigger following minimum action from a macro/site map:

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1.2.9.1	View Camera in a video tile.
1.2.9.2	View map or procedure in a video tile.
1.2.9.3	Starting/stopping PTZ pattern.
1.2.9.4	Go to PTZ preset.
1.2.10	The GUI software shall provide management and control over the system using a standard PC mouse, keyboard and Digital keyboard.
1.2.11	The GUI software shall display all cameras attached to the system regardless of their physical location on the network.
1.2.12	The GUI software shall display all camera sequences created in the system.
1.2.13	The GUI software shall allow operators to control (pause/play, skip forwards, skip backwards) camera sequences.
1.2.14	The GUI software shall display all cameras, sequences and users in a logical tree.
1.2.15	The GUI software operator shall be able to drag and drop a camera from a tree of available cameras into any video tile for live viewing.
1.2.16	The GUI software operator shall be able to view the camera from a tree of available cameras into any video tile for live viewing.
1.2.17	The GUI software shall support graphical site representation (map) functionality, where digital maps are used to represent the physical location of cameras and other devices throughout facility.
1.2.18	The maps shall have the ability to contain hyperlinks to create a hierarchy of interlinked maps.
1.2.19	The GUI software operator shall be able to view the camera from a map into a video tile for live viewing in the same browser without opening a new browser.
1.2.20	The operator shall be able to click on an icon in a map to initiate PTZ camera preset, run PTZ pattern, view camera in an analog monitor or send an I/O stream.
1.2.21	The GUI software shall support digital zoom on a fixed camera's live video streams.
1.2.22	The GUI software shall support digital zoom on a PTZ camera's live video streams.
1.2.23	The operator shall be able to control Pan, Tilt and Zoom patterns of P/T/Z Camera.
1.2.24	The software shall be able to display video of cameras on 40 inch Large Format Display Monitors and Workstation Monitors.
1.2.25	The software shall allow the control of display from the client PC.
1.2.26	The operator from the GUI software shall be able to decide the screen layout and also the cameras that shall be displayed on the monitors.
1.2.27	The software shall support multicasting.
1.2.28	It shall be possible to switch the screen layout in response to an alarm.
1.2.29	The GUI Software shall support text superimposing the title and date & time on the video.
<b>1.3</b>	<b>Video Recording Software:</b>
1.3.1	Software shall support recording of H.264/H.265 video streams. It shall support recording of video and audio for all the channels.
1.3.2	Software shall support triplex applications, recording, re-play and backup simultaneously. It shall be compatible with windows Server OS or Linux for highest performance and reliability.


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1.3.3	The software shall support absolute recording redundancy with X to N, N to X and N to N redundancy configurations for recording servers. This feature shall be provided, if specified by purchaser.
1.3.4	Software shall operate on open architecture and shall not require any proprietary hardware.
1.3.5	Software shall be able to record minimum 64 different video streams or more simultaneously. It shall be accessible from any client PC connected to the network.
1.3.6	Software shall provide network time server function to ensure the synchronization of the video servers and the recordings.
1.3.7	The servers shall be connected to the network so that these can be placed at any location which has network access.
1.3.8	The software shall be able to receive alarms of different types from equipment to start a recording. These alarms can be motion detection, video loss, unified picture and trigger input.
1.3.9	The software alarm recording shall support pre-and post-alarm periods. Both can be configured in duration.
1.3.10	The software shall provide a status of the available recording capacity.
<b>1.3.11</b>	<b>Fault Tolerant Recording:</b>
1.3.11.1	If software & server(s) operation are interrupted, like power disconnection and once the server(s) are restarted, these shall automatically resume recording of any cameras these were recording prior to the interruption.
1.3.11.2	The software shall support network fault-tolerant recording such that if the network connection between a video management server and video recording server becomes unavailable, for example through cable breakage, network congestion or WLAN interruption, the system operation shall automatically recover when the connection is restored.
1.3.12	Search & Export:
1.3.12.1	It shall be possible to search for recordings in the software by camera, date and time. If a data and time is specified, playback shall commence from that date and time. It shall be possible to playback more than one camera simultaneously.
1.3.12.2	The software shall be able to export sections of recordings to a separate Windows folder, which can then be written to CD-ROM, DVD-ROM or USB Flash Drives etc. to be played back at a location not connected to the network video management & recording network. The export process shall make available a player application, which can be provided with the exported video. Export shall be possible in Windows media player or any other media player compatible format. Simultaneous export of multiple cameras shall also be possible.
	The VMS should be able to integrate with IRIDISS and raise an alarm. It should support intelligent logics for entry-exit, entry-exit-entry. It should also be able to detect multiple entry, false entry, division of intruders etc
	VMS Should be able to integrate to unmanned ground sensors. This should be depicted on the live map with highlighting of zone of intrusion
	The VMS should be able to integrate with exiting surveillance equipment. It should be able to highlight any movement of humans and vehicles under no light conditions and pop up alerts on the alert screen.
	The Command Control Software should be integrated to GIS Maps to support position of cameras with Lat/Long. In addition should be DMR ready to integrate the Police DMR sets for live display of location of policemen in the venue.

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1.3.12	<b>Additional Features:</b>
1.3.12.1	The software should have an integrated Video Analytics to support following Features : i. Tripwire ii. Person moving in/out of an Area iii. Left object Detection iv. ANPR Capability v. UVSS Capability
1.3.11.2	The VMS Software, Video Analytics, ANPR & UVSS should be a seamless integrated single software Platform.

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(Rajnish Kumar), PSO (E)  
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(Surender Singh)DC  
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(R K Meel), DC  
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(SI/RM Brajesh Bhardwaj)  
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(Gagan Bhardwaj), AC  
SIW, BSF

(Insp/Comn Chhitar Mal)  
SSB

(Insp/Tele Thakar Ram)  
ITBP

(SI/RM Subhash)  
SIW, BSF

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**(Rajni Kant Mishra) IPS**  
DIRECTOR GENERAL  
BORDER SECURITY FORCE



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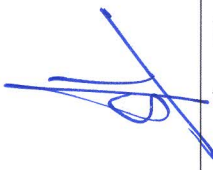
1.3.12	Additional Features:	Physically checked by BOO/Specification to be verified by the BOO through specs sheet
1.3.12.1	<p>The software should have an integrated Video Analytics to support following Features :</p> <ul style="list-style-type: none"> <li>i. Tripwire</li> <li>ii. Person moving in/out of an Area</li> <li>iii. Left object Detection</li> <li>iv. ANPR Capability</li> <li>v. UVSS Capability</li> </ul>	
1.3.11.2	<p>The VMS Software, Video Analytics, ANPR &amp; UVSS should be a seamless integrated single software Platform.</p>	Specification to be verified by the BOO through specs sheet



(Ashok Kumar Sharma)  
ADG (Log) BSF



(Rajnish Kumar), PSO (E)  
BPR&D



(Surender Singh)DC  
CRPF



(R K Meel), DC  
CISF



(SI/RM Rajesh Bhardwaj)  
BSF



(Gagan Bhardwaj), AC



(Insp/Comm Chhitar Mal)



(Insp/Tele Thakar Ram)



(SI/RM Subhash)  
SIW, BSF

SIW, BSF

SSB

ITBP

APPROVED / NOT APPROVED

  
21/6/19

(Rajni Kant Mishra) IPS  
DIRECTOR GENERAL  
BORDER SECURITY FORCE