

383

Ref: Email dt:12.12.2021 received from M/s. Raxa- A GMR Group Company

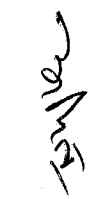
M/s. Raxa- A GMR Group Company

Sr no.	Reference in tender document	Clause no. and Details	Queries of M/s. Raxa- A GMR Group Company	Reply of BNP, Dewas	Remark
1	Page No 12 of Technical Specifications under AUTOFOCUS LENS	In 4K Bullet/2MP Bullet/ANPR Bullet camera you have asked for P-Iris support	Request this to be changed to P-Iris/DC-Iris	As per tender	No change
2	Page No 13 of Technical Specifications under INTELLIGENT VIDEO	In 2MP Bullet camera you have asked the camera should have built in Video Motion Detection, Active Tampering, Alarm and ability to port third party applications on the edge, of these we have the VMD, Tampering, Alarm etc, however we do not support third party applications to be loaded on the camera for security reasons, and hence will not support this feature	advisable to get this point mentioned either as optional or in "/>" , or better removed.	Point is noted	Necessary corrigendum shall be issued
3	Page No 14 of Technical Specifications under PROTOCOL	In PTZ you have asked NFS protocol support means (Network file system), this protocol basically helps in allowing the client	can we get more clarity as to what is expected out of this protocol in respect to cameras, as anyways the client	As per tender	No change

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		<p>system to view and access files stored on remote computing device machine connects to camera and can access the SD card data as well, so that is a default feature of all cameras, still want to clarify as this is not usually mentioned in the technical specifications.</p>			
4	<p>3. Site Inspection & Existing System Details Annexure-1 Page No. 2,3 & 4</p>	<p>As per RFP Storage & All Passive Existing Components can be re-used.</p>	<p>Kindly Clarify if the Existing Servers can be re-used. If Yes, then request you to please provide with the Raw Capacity & Usable Capacity available within the Existing Servers.</p>	<p>As per tender</p>	<p>No change</p>
5	<p>3. Site Inspection & Existing System Details Annexure-1 Page No. 2</p>	<p>VCA Analytics</p>	<p>Kindly please Provide the List of Video Analytics that are currently installed, along with the List of Use-Cases running on each Cameras. We Understand that the Existing Analytics are being replaced or upgraded, thus we understand that the Video Analytics Licenses Quantity mentioned on Page. No. 21 of RFP is Total Qty Inclusive of Replacement or Upgradation.</p>	<p>As per tender</p>	<p>No change</p>
6	<p>Video Management System Software along Device & other</p>	<p>Live Video Storage -171 Cameras for 7 No. Of Days under RAID 6</p>	<p>We Understand that the Current Tender Requirement for Recording in SAN Storage is of</p>	<p>It is clarified that 171 cameras to be read as 287</p>	<p>Corrigendum shall be issued</p>

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<p>requisite Devices. Annexure-1 Page No. 19 & 20</p>		<p>287 Cameras, however the Live Video Storage within the NVR/Recording Server is asked for 171 Cameras Only. Please Clarify if whether 171 Cameras or 281 Cameras Recording is required within the NVR/Recording Server.</p>		
<p>7 Network Recording Server & Redundant Recording Server Annexure-1 Page No. 28</p>	<p>Video Live Video Storage -45 Cameras for 7 No. Of Days under RAID 6 SAS (7.2K RPM or Better)</p>	<p>his Clause is in Contradiction with the Clause of VMS on Page No. 19 which states that "No. of Camera Support per NVR Appliance -100 Min." We Understand that the Live Video Storage within the NVR should be 7 Days for all the Network Cameras mapped to that Particular Video Recording Server instead of just 45 Cameras. Please confirm if our Understanding is Correct.</p>	<p>Point is noted</p>	<p>Corrigendum shall be issued if required</p>
<p>8 Section XIV: Manufacturer's Authorization Form Page No. 32</p>	<p>We further confirm that no supplier or firm or individual other than Messrs.....(name and address of the agent) is authorized to submit a tender, process the same further and enter into a contract with you against</p>	<p>We Herby request you to please Delete this Clause.</p>	<p>Point is noted</p>	<p>Corrigendum shall be issued if required</p>

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		Your requirement as contained in the above referred tender enquiry documents for the above goods manufactured by us.			
9	Page No 14 of Tender under PAYMENT Terms	You have mentioned 100% Payment against receipt/Supply of material and again writing after Installation	Kindly Clarify	Typographical error	Corrigendum shall be issued
10	Page No. 10 of Technical Specifications under BILL OF MATERIAL	Turnkey Project and No payment will paid if any material will get increased	Kindly Clarify if No. of Cameras/Switch Server etc will get increase how can be these may be managed?	As per tender	No change
11	Page No 22 Point No 1 Pre qualifications	You Have asked for Analytics & IP Cameras within in last 5 Years	IP Cameras with Analytics limiting to various SI. Request to kindly amend as only IP Cameras.	As per tender	No change
12	Page No 26 of Tender under Point No 5 Cameras License	You Have mentioned that you required Camera License 290 Nos.	Kindly Clarify how old Camera which is almost 207 Nos can be integrated.	As per tender	No change

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Ref: Email dt:12.12.2021 received from M/s. RAMAN COMPUT SOLUTIONS PVT LTD, MYSORE

M/s. RAMAN COMPUT SOLUTIONS PVT LTD

Sl NO	TENDER DOC PAGE & POINT	Clause	Queries of M/s. RAMAN COMPUT SOLUTIONS PVT LTD, MYSORE	Reply of BNP, Dewas	Remark
1	Annexure Page 01, Point 2.2	The recording of the video shall be on an open architecture, non-embedded based recording server from reputed manufacture like HP/DELL or equivalent.	Since most of the VMS vendors having their OEM recording Server. Which has more Scalability with in Box and Which shall optimize number of Server and Bandwidth consumption. Hence we request you to consider brand like BCD, Stream Vault.	As per tender	No change
2	Page 02. Point 2.16.2	CAT 6 Cable Make: Dlink/Polycom/Molex/Finolex/Digisol	We request you to consider equivalent Make Commscope.	As per tender	No change
3	Page 03 Point 02	Redundant NVR Cum Domain Server	Asper industry recommendations & security policy. Redundant NVR Cum Domain Server on Same Hardware is not proposed. Hence we request you to consider Additional Server for the same.	As per tender	No change
4	Page 03. Point 04	VMS Software	Do we get existing VMS License access for upgradation or we need to propose NEW VMS for complete Infra.	As per tender	No change
5	Page No 11, 12, 13 & 14 & 15.	NDAA National Defense Authorization Act.	Request you to consider NDAA compliant Cameras only. Since NDAA has better Security Standards declared for mission	The point is noted	Corrigendum shall be issued if required

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378

			critical sites. And Majority of Standard OEM's have been listed with NDAA models.		
6	Page 03. Point 07	NAS Servers. 12.	Since NAS is on FILE Level Protocol and CCTV Video is accessed on Block Level Protocol, Industry recommendation is on SAN Environment. Hence we request you to amend recording Storage on SAN environment which has less failure rate in compare to NAS.	As per tender	No change
7	Page 03. Point 08	NAS Servers. 06.	1. As we assume Totally 504 TB usable space is available across 18 Units. Hence we recommend to consolidate existing NAS Servers to ONE SAN STORAGE. Wherein we will reuse the existing Drives, Which will also reduce maintenance cost to BNP.	As per tender	No change
8	Page 03. Point 09,10 & 11	Sony SNC-RH/RS Series, Panasonic WV-NP502 Series & Hikvision Fixed Bullet Camera HD IR 2 MP.	Existing total cameras are 209. Whereas 171 will be replaced cum reallocation. Remaining 38 Cameras what needs to be done. We don't the list and justification on these cameras, do we need to reallocate!	As per tender	No change
9	Page 03. Point 09	Sony SNC-RH/RS Series	Since Sony camera is End of Life and Support form OEM. Do we need to retain or replacement has to be planned. Kindly confirm.	As per tender	No change
10	Page 03.	Core Switch H3C S7503E	1. We have to retain or	As per tender	No change

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	Point 14		<p>replacement has to be proposed! Since we can't use this Core Switch, which is bottle neck in terms of bandwidth demand & single point failure.</p> <ol style="list-style-type: none">Existing Network Layout Architecture is required. Any redundancy is factored in existing network or we have to propose, kindly suggest to avoid Single Point Failure.We have not seen any Network Bandwidth Traffic/ health monitoring system requirement. Which is very important. Kindly suggest if any Network Management Software is available or we have to propose in new Supply BOM.Since Current Core Switch is on 1 G Environment. Whereas 281 Cameras bandwidth demand will be higher. Kindly suggest, do we need to propose new Core Switch with redundancy!		
11	Page 03. Point 15	Access Switch POE H3C 83100 Series	<p>We have retain or new to propose new Access Switch! If required to retain share the year of purchase with Serial Number.</p>	As per tender	No change

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376

12	Page 03. 16	Distribution Switch H3C S5500 + HP A5500 Series JD374A	Do we need to retain Distribution Switch or we have to propose new? If we retain uplink connectivity is max on 1 G can be achieved, whereas network demand is higher throughput in bandwidth beyond 1 G.	As per tender	No change
13	Page 03. Point 18	6U Rack.	As reallocation of cameras are mentioned. During which do we need to plan for 6U Rack relocation! If yes then existing 6U rack will not have sufficient space for additional cables.	As per tender	No change
14	Page 03. Point 19.	UPS 6kVA	Share us the year of Purchase and UPS Serial Number. Since we have to check with OEM on Spare availability as this UPS has to be under CAMC.	As per tender	No change
15	Page 03. Point 20	Media Converter	As per IT Standards & Security norms Media Convertors are not recommended. And has more MTBF. We request to consider within Switch Uplink.	As per tender	No change
16	Page 03. Point: 21	Complete OFC (underground, aerial, on surface) and Copper Network, Electrical Wiring network, Pole (15 nos.).	<ol style="list-style-type: none"> Kindly share Network Topology from existing OFC network. As per security concerns laying OFC or any Surveillance Cable on aerial is not accepted. We request you to eliminate this requirement and consider underground cabling for the same. 	As per tender	No change

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375

			<p>3. Share the OFC & LAN cable laid year and also life of cable.</p> <p>4. We recommend you to consider OTDR report on Existing OFC & LAN to check the connectivity strength of Cables, before considering for CAMC.</p> <p>5. What is the OFC Cable Type kindly share, accordingly we can review to consider existing OFC will meet the bandwidth demand, which will be sized according tender requirement.</p>		
17	Page 04 Point: 4. 4.8	SCOPE: Installation and configuration of Core Switch, Access Switch and all active, passive components.	We need clarification on Core Switch installation is for Existing or New Supply?.	As per tender	No change
18	Page 04 Point: 4. 4.9	Removal, unmounting and safekeeping of existing servers, switch, cameras (Maximum Qty 207 nos. + 32 nos.) and any other components as per site requirement. Removed item have to be handed over to BNP' representative.	Total Existing cameras are 209 (190+17+2). If we replace 171 cameras remaining would be 38 numbers. But your statement say 32 Numbers. Kindly suggest how many cameras we have to retain and share the model numbers for the same.	As per tender	No change
19	Page 06 Point: 4. 4.34	All required power wiring etc. from the Centralized UPS room for the system is under the scope of Supplier. All electrical works for the same is under the scope of supplier	Kindly share the Power Budget Calculation and provide UPS details if existing available at Centralized UPS room.	As per tender	No change
20	Page 06 Point: 4. 4.35	LAN Management like Switch configuration, router configuration will be under the scope of	For LAN management, industry recommendation is to have Network Management Software.	As per tender	No change

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374

21	Page 06 Point: 4.4.36	Supplier. The replacement/upgradation activity have to be carried by the prospective firm without any Loss of archival CCTV footages.	Which is needed. Kindly confirm for the same as your requirement.	Point is clarified	No change	
22	Page 06 Point: 4.4.38	Current License: One Base License and 207 Camera License. These licenses have to be upgraded/replace as per tender scope along with support for period up to 8 years from date of FAC.	1. To achieve this point. Kindly share the existing archival policy. Where in currently 5+1 NVR Servers are configured with One Failover Redundant. 2. ONLY VMS application is considered for Single Server in current infra. Kindly suggest redundancy is required at VMS, since VMS application is very critical part in Surveillance data.	To plan for upgrade we need existing license details. Share us details on VMS Version & SLC Code.	Firm is requested to do site visit	No change
23	Page 06 Point: 5. 5.1	INTEGRATION: The Proposed solution shall be integrated with existing below system and solution shall be based on open architecture, vendor independent confirming to industry standard for 3rd party integration and shall be open to integration with future CCTV system to be installed in BNP. It shall centralize the System in one, easy to use interface. If required, the existing	1. Current PACS API Documentation 2. Whether API is going to push the data to VMS through our connector as Events are occurred in the PACS 3. Credential for PACS for accessing API, In case our connector need to Pull the event data 4. List of PACS Events to be pushed to VMS. 5. Is Event processing	Firm is requested to do site visit	No change	

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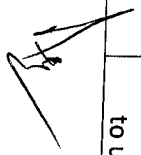



		components/software without loss of any- functionality can be reconfigure/replace as the case may be to achieve the integration.	<ol style="list-style-type: none"> 6. requirement is real-time availability with at least one door configured for validating the events 7. Source PACS Application Operating System 8. Allow for .Exe deployment in BNP eco system, if yes what are all the compliance requirements to be fulfilled. 		
24	Page 07 Point: 6. 6.10	Proposed System to have facility for additional camera installation beyond the originally planned capacity by 50%.	To meet this requirement, we can't consider existing Servers & Storage System. Which has less scalability within the Box. For additional cameras as per tender requirement. Kindly suggest your response.	Proposed system should have facility for scalable/expandable	No change
25	Page 07 Point: 6. 6.20	Clock/Time Sync. All the elements of the system shall sync time with a control server. No manual setting/regular work to be done for the regular date & time sync. All necessary items & work required for the central data & time server will be in the scope of supplier. VMS server shall act as NTP Server.	If we are configuring using VMS Server act as NTP Server. Which will again fall under manual sittings. Which is not recommended as per industry standards. Hence we propose NTP Server only to meet real time Clock/Time Sync as per NIST.	As per tender	No change
26	Page 08 Point: 6. 6.22	All the PC/Server systems shall be protected by Server-Client based Anti-Virus software.	Do we need to consider new server to meet this requirement or we will get existing server if any. Kindly confirm.	As per tender	No change
27	Page 08 Point: 6.	VMS (Management server) should be in hot-stand by configuration and in	This statement is Server Fail Over Clustering. If we go with this	As per tender	No change

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372

6.24	Page No: 16	<p>case primary fails then the secondary stand-by will become primary one. Once the down VMS server comes up, auto sync of data to be done b/w Primary VMS server and Hot-standby Stand by VMS server.</p> <p>Video Management Software:</p>	<p>scenario, It is required additional License. Which is not mentioned in your tender requirement. Kindly confirm for the same.</p>	<p>The points are noted for 01-04. Point 05 is clarified.</p>	<p>28</p> <p>We recommend to add below points in the VMS specifications to get the added advantage of VMS software application -</p> <ol style="list-style-type: none"> 1. To prevent unauthorized access to the streamed video, the VMS should support certificate-based <u>HTTPS</u> encrypted and <u>SRTP</u> communication between the camera and the Recording Server 2. To prevent unauthorized access to the streamed video and other communication data between servers and clients, the VMS should support certificate-based <u>HTTPS</u> encrypted communication 3. To prevent unauthorized access directly to the recordings, the VMS should support media database encryption (AES256), SHA-2 and digital signing 4. The VMS system shall be able to update the cameras <p>Corrigendum shall be issued for point 01-04 if required</p>
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371

		password and firmware directly from VMS software/console 5. Please confirm if integration of VMS software is required with the PIDS system.		
29	Page 26 Video Wall Controller H/W along with 20 LED Panel	Since we are planning to stream 280 + cameras, we required higher RAM & Bandwidth at Controller. Hence kindly share the revised Controller configuration.	The point is noted	Corrigendum shall be issued if required
30	Page 27 Management application server & Hot standby Management application server	<ol style="list-style-type: none">1. Processor core not consider in the compliance. Kindly share the core details.2. Consider 10G NIC Card x2 nos because of As per the camera resolution throughput bandwidth is more & 1G Nic its bottle neck of database.	The point is noted	Corrigendum shall be issued if required
31	Page 28 Network video recording server & redundant Network video recording server	<ol style="list-style-type: none">1. Processor core not available in the compliance.2. Consider 10G NIC Card x2 nos & SFP+ also because of As per the camera resolution throughput bandwidth is more & 1G Nic its bottle neck of cameras recording in live & SAN Archival environment.3. As per the best practice in server rack not required for any monitor because of security concern, we recommended for KVM switch	The point is noted	Corrigendum shall be issued if required

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32	Page 29	Analytic Server	<p>with monitor consolidated for all the servers check with in single console.</p> <ol style="list-style-type: none">1. Processor core not available in the compliance.2. Consider 10G NIC Card x2 nos & SFP+ also because of As per the camera resolution throughput bandwidth is more & 1G NIC its bottle neck of cameras recording in live & SAN Archival environment.3. As per the best practice in server rack not required for any monitor because of security concern. We recommended for KV34M switch with monitor consolidated for all the servers check with in single console.	The point is noted	Corrigendum shall be issued if required
33	Page 30	SAN Storage	<ol style="list-style-type: none">1. RAM it's very less because of its asking 90days recording & consider Higher Ram for storage.2. We need connectivity of SAN storage details because SAN switch not available in the tender.3. FC port also not consider in recording servers.4. Our recommendation is 8nos of 10G Ethernet Ports (4 X Base-T and 4X SFP+ Ports) and	As per tender	No change

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369

34	Page 31	Workstation client operator	8nos x16Gbps FC ports across dual Controllers for Host Connectivity SATA HDD is not giving any performance on live of the cameras. Kindly consider for SSD Drive with 16GB Ram minimum for your requirement.	As per tender	No change
35	Page 31	Workstation client for ANPR	Sata HDD is not given any performance of live of the cameras Kindly consider for SSD Drive with 16GB Ram.	As per tender	No change
36	Page 31	Core Switch	<ol style="list-style-type: none"> 1. As per the existing network topology, how many FC uplink available from existing core to distribution switch. Our recommendation considers 24 port 10G or 48 Port 10G network for higher throughput. 2. Kindly confirm All servers & Clients which switch connected our recommendation consider for server firm switch for better throughput & industry standard. 3. SAN switch connectivity also not factor in the tender & kindly consider for SAN switch for the server room for better failover. 	Firm is requested to do site visit	No change
37	Page 33	24 port L2 network Switch	In the 24 port consider uplink	As per tender	No change

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			connectivity 10G with SFP+ Module			
38	Page 33	8 port Network Enterprises or Commercial switch	How much power budget need for each port	Firm is requested to do site visit	No change	
39	Page 34	42 U Rack	Kindly share the rack depth & width details	Firm is requested to do site visit	No change	
40	Page 34	UPS	Need single phase or 3 phase (IN & OUT) & share us the IT Load.	Firm is requested to do site visit	No change	
41	Page 35	6 U Rack	Kindly share the rack depth & width details	Firm is requested to do site visit	No change	
42	Page 36	Pole Rack	Kindly share the rack depth & width details	Firm is requested to do site visit	No change	
43		How users can proactively monitor server's status like CPU, Temp, Storage, Power, Network, and predict hardware failures seamlessly through their VMS and getting Alarms with alerts on to VMS client.	Kindly review the value sheet as enclosed In <u>Annexure 1</u> . Which has technical approach note as enclosed. iDRAC +Xprotect.	The point is noted	Necessary corrigendum shall be issued if required	
44	Tender Document Page 17 2.a	Period of Contract: IP Based Video Surveillance System & ANPR CAMERA on Turnkey basis: Schedule of supply and commissioning shall be 120days from date of award of Purchase order.	As due to pandemic situation and short fall in chipset at Global Level. We request to extent Period of Contract from 120 Days till 270 Days. (Excluding Monsoon & Lockdown)	The point is noted	Necessary corrigendum shall be issued if required	
45	Tender Document Page 14 SCC-4.	Terms and Mode of Payment: 100% Payment shall be released after receipt of entire materials, inspection & Acceptance at BNP Dewas stores.	We request you to release 80% payment against Supply of Materials. And remaining after installation is completed along with FAC.	As per tender	No change	
46	SAN STORAGE	The system should have minimum 16 GB usable cache (Read & Write) across the two controllers with an ability to protect data on cache if	The system should have minimum 24 GB usable cache (Read & Write) across the two controllers with an ability to protect data on cache if	As per tender	No change	

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		system fails and it results into controller failure. The cache on storage shall have battery backup. Cache shall be dynamically managed for both Read & Write operations	system fails and it results into controller failure. The cache on storage shall have battery backup or Battery-free cache backup with super capacitors and compact flash. Cache shall be dynamically managed for both Read & Write operations. SSD drives or flash cache should not be considered as cache.		
47	Page 08 Point 6.26	Storage Protocol: FC, iSCSI	Kindly consider FC or iSCSI only.	As per tender	No change
48	Page 01 INTRO	This proposal includes replacing the existing CCTV cameras, NVR's, Servers, Network Switch, Routers, UPS and Storage with latest IP based HD/UHD IR cameras, Servers and storage and also Implementation of Video Analytics features.	As per our understanding all existing Servers and camera are replace with New Server and Camera. Please confirm our understanding.	As per tender	No change
49	Page 03 Point 01	Recording Server (NVR)	All this existing Server shall be replaced.	As per tender	No change
50	Page 10 Point 09	NVR Server 07 Nos	We request you give System Integrator to design NVR Qty based on design.	As per tender	No change
51	Page 16	Video analytics Server	As we understand that Video analytics server and ANPR server is from third-party system and It shall be not part of VMS system. Please confirm our understanding.	As per tender	No change





52	Page 18	Secure HTTPS connectivity (on supported devices)	<p>We request you add following points in VMS which are useful</p> <p>VMS shall support Bandwidth Control to for Live view and Playback stream to the clients.</p> <p>a. It shall be possible to configure number of concurrent live and playback stream allows.</p> <p>b. It shall be also possible to control the overall combined bandwidth in Kbps</p> <p>c. It shall be possible to limit the bandwidth consumed by live and playback video from the client software to better control the bandwidth across multiple sites.</p> <p>The Server software shall be able to prioritize video streaming to the client based on user level.</p>	As per tender	No change
53	Page No 18	Secure HTTPS connectivity (on supported devices)	<p>Cyber security:</p> <p>VMS should support Dual sign in to log in to the system administrator and client - Log in shall be permitted when two authorized person's login. Any user can login first and second user will authenticate. There shall be no restriction which user login first or second</p> <p>VMS shall support auto lock of client after specified time with inactivity.</p> <p>VMS shall support able to give alarm if specified user is login in, log off.</p> <p>VMS shall support able to give</p>	As per tender	No change

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			<p>alarm if specified user is login failed.</p> <p>PASSWORD MANAGEMENT:</p> <ul style="list-style-type: none"> VMS shall support following password management policies Admin shall create the user and set the password shall have provision to change the password on next login of user Admin shall have provision to set the user password rule like enforce minimum characters, uppercase, lower case, numerical character, special character. Admin shall set the password which can expire with specified time limit There shall be possible to lock user based on schedule decided by administrator VMS shall provide recommendations relating to the passwords used to access the hardware units in the system. The recommendation should display if the passwords used on the units are weak, average, strong, or very strong. 		
54	Page No19	<p>User management:</p> <ol style="list-style-type: none"> Centralized user management User rights/authorization management Basic user as well as Windows user Microsoft active-directory support 	<p>We request you add following additional points:</p> <p>DASHBOARD:</p> <ul style="list-style-type: none"> VMS shall have health dashboard which shall able to graphically display following information Hardware device online No of clients online and active Security score: Which will 	As per tender	No change

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364

			recommend the user about change the default login password and enforce strong password policy, update camera firmware.		
55	Page 20	NVR- Live Video Storage:	Can you please confirm Live storage 7 days? As per our understanding overall recording retention require is 90 days.	As per tender	No change
56	Page 20	Video Analytics Hardware & Software	Video analytics require different product shall be achieved using 3rd party analytics system. Please confirm VMS and VCA application can be from different make and add the make of Video analytics make	As per tender	No change
57	Page 21	Integration: OPC Interface (e.g. Fire Alarm System or any System that support OPC.)	For OPC integration, can you please provide overall Data point Qty require for integration?	Firm is requested to do site visit	No change
58	Page No 27	Management Application Server & Hot Standby Management Application Server: Processor: Intel Xeon Processor 2.8 Ghz -2 Nos or better	Can you please provide number of core require in Server? We request to consider 2.1 GHZ as major VMS application is Ok with 2.1 GHZ also.	As per tender	No change
59	Page No 28	Network Video Recording Server & Redundant Network Video Recording Server: Processor: Intel Xeon Processor 2.8 Ghz -2 Nos or better	Can you please provide number of core require in Server? We request to consider 2.1 GHZ as major VMS application is Ok with 2.1 GHZ also. Few VMS additional specks which are good to be incorporated as also submitted along with our Pre-Bid Queries. Kindly review and consider. Enclosed as Annexure 2	As per tender	No change
60	Page No 12	Camera Outdoor/Indoor: Operating	Operating temperature should be minimum 55 deg for all the	As per tender	No change

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363

		Temperature: 0 to 60 Degree Celsius.	cameras.		
61	Page No 12	Cyber Security:	All the camera cyber security should be Inbuilt	As per tender	No change
62	Page No 21	FRS Analytics	To qualify on FRS accuracy request you to ask NIST Test Certificate from respective OEM on Analytics.	As per tender	No change
63	Page No 21	VMS & Analytics Integration	We request you to ask Seems less Integration. Where in VMS Screen will be used to run to necessary analytics.	The point is noted	Corrigendum shall be issued if required
64	Page No 21	Server Based Analytics:	We request you to ask all Analytics should be Server Based with GPU Usage chart & should support Linux platform.	As per tender	No change
65	Page No 21	Analytics License	We request you to add POC is mandatory before release of LOI on all Analytics. If accuracy is poor then Bidder has to propose alternate Analytics as per BNP requirement.	As per tender	No change
66	Cache	The system should have minimum 16 GB usable cache (Read & Write) across the two controllers with an ability to protect data on cache if system fails and it results into controller failure. The cache on storage shall have battery backup. Cache shall be dynamically managed for both Read & Write operations	Please change this to: The system should have minimum 24 GB usable cache (Read & Write) across the two controllers with an ability to protect data on cache if system fails and it results into controller failure. The cache on storage shall have battery backup or Battery-free cache backup with	As per tender	No change

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67	VMS Validation on the Storage System	The Proposed Storage System should be tested and validated jointly by the VMS Application OEM & Storage OEM. The Validation white paper for the same to be submitted as a part for the Storage System Compliance documentation.	super capacitors and compact flash. Cache shall be dynamically managed for both Read & Write operations. SSD drives or flash cache should not be considered as cache.	As per tender	No change
68	Environment	Operating Temp- 5 degree Celsius to 35 degree Celsius.	Please change this to: Operating Temp: 5 to 40 Degree Centigrade.	The point is noted	Corrigendum shall be issued if required
69	RAID Controller	Dual for redundancy	Please change this to -- Single RAID card. All servers come with single internal RAID card. Even if two cards are provisioned in the server, only one card can be used.	The point is noted	Corrigendum shall be issued if required
70	Graphics Adapter	Intel HD Graphics to meet the performance & features of entire IP CCTV surveillance system.	Please change this to -- Intel or equivalent HD Graphics to meet the performance & features of	As per tender	No change

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		<p>entire IP CCTV surveillance system. This allows NVIDIA or other OEM cards to be offered.</p>		
71	<p>Environment</p>	<p>Operating Temp-5 degree Celsius to 40 degree Celsius</p>	<p>Please change this to: Operating Temp: 5 degree Celsius to 28 degree Celsius, maximum wet bulb temperature, non-condensing.</p>	<p>As per tender</p>
<p>Suggestions for inclusion</p>				
72	<p>SAN connectivity</p>	<p>NIL</p>	<p>We understand that -- Servers would be connecting to SAN storage on either FC or iSCSI, as designed by the Bidder. Pl confirm.</p>	
73	<p>Network Interface</p>	<p>4 nos. 1 Gbps or better</p>	<p>Please change to: 4 nos. 1 Gbps or better and 2*10 G LAN ports matching the LAN switch ports. Modern day network connectivity is 10G LAN. It's suitable for iSCSI traffic as well as your user traffic. It's recommended to have these configured in the server. The choice is of Copper / Fiber connectivity, depending on the distance between LAN switch and Servers.</p>	

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