Sr No	Section Number/Clause No.	Page No	Query (In detail)	Justification/Suggestion	NFAI Response
1	2.11Earnest Money Deposit (EMD)	Page 11/110	EMD BG Format not available	Shall we use out standard format for EMD BG Submission	Please refer Corrigendum
2	5.1 IP –Network PTZ Camera (IR- 50 Mtr)	Page 21/110	Sub Point no 4: Image Resolution :1920X1080 or better, 30 fps	Suggest to change it 1920X1080P@60fps, In indoor Dome camera specs @60fps is asked, where as it is more useful for outdoor application, pls change	Tender Condition remains unchanged.
3	5.1 IP –Network PTZ Camera (IR- 50 Mtr)	Page 21/110	Sub Point no 5: Compression: Multiple H.264 high profile, JPEG	Suggest to add latest compression technique i.e.H.265, which will reduce Bandwidth & Storage requirement	Bidder should provide H.264 or better technology, best suitable to NFAI requirements. Note: Bidder should also provide supporting documents for the same viz. Datasheets, Technical Specifications, User Manuals etc.in their Bid response
4	5.1 IP –Network PTZ Camera (IR- 50 Mtr)	Page 21/110	Sub Point no 8: FOCAL LENGTH: 4.5 mm - 128 mm or better, 30X optical zoom	Please change the Lens to 4.5mm ~ 135mm(30x), because lens mentioned in the RFP refer to 28X Only..pls change it to min 30X or better	Tender Condition remains unchanged.
5	5.1 IP –Network PTZ Camera (IR- 50 Mtr)	Page 21/110	Sub Point no 22: IR Range	IR Range asked in the Specs is only 20 mtrs & above the PTZ cameras specs mentioned 50 Mtr IR..Suggest to change it to min.120 mtr or better, as required PTZ asked is 30X& in case of zero light camera it will only capture 20Mtrs, suggest to change it to min.120 Mtr	For IP-Network PTZ Camera (IR - 50 Mtr) the **IR Range** mentioned in specifications, compliance, any other instances should be read as **Adaptive/Smart IR minimum 50 mtrs (meters)**.
6	5.2 Dome camera Specification (IR-30 Mtr)	Page 22/110	Sub Point no 11: No. Of Streams: Min. 3 streams or more at H.264 high profile with 1 JPEG. Total 4 streams	Suggest to add latest compression technique i.e.H.265, which will reduce Bandwidth & Storage requirement	Bidder should provide H.264 or better technology, best suitable to NFAI requirements. Note: Bidder should also provide supporting documents for the same viz. Datasheets, Technical Specifications, User Manuals etc.
7	5.2 Dome camera Specification (IR-30 Mtr)	Page 22/110	Sub Point no 18: Supported Image Resolution: H.264: 2,048 x 1,536 @ 30 fps and 1920 x 1080 resolution should support 60 fps	Suggest to add H.265 & resolution can be asked uniformly in the entire tender i.e.1920X1080P or better	Bidder should provide H.264 or better technology, best suitable to NFAI requirements. Note: Bidder should also provide supporting documents for the same viz. Datasheets, Technical Specifications, User Manuals etc.
8	5.2 Dome camera Specification (IR-30 Mtr)	Page 22/110	Sub Point no 19: Network: RJ45, IPv4 & IPv6 compliant	Suggest to make IPV4/IPV6	Tender Condition remains unchanged.
9	5.3 Specification of Bullet Camera (30 Mtr)	Page 23/110	Sub Point no 11:No. Of Streams: Min. 3 streams or more at H.264 high profile with 1 JPEG. Total 4 streams	Suggest to add latest compression technique i.e.H.265, which will reduce Bandwidth & Storage requirement	Bidder should provide H.264 or better technology, best suitable to NFAI requirements. Note: Bidder should also provide supporting documents for the same viz. Datasheets, Technical Specifications, User Manuals etc.
10	5.3 Specification of Bullet Camera (30 Mtr)	Page 23/110	Sub Point no 18: Supported Image Resolution: H.264: 2,048 x 1,536 @ 30 fps and 1920 x 1080 resolution should support 60 fps	Suggest to add H.265 & resolution can be asked uniformly in the entire tender i.e.1920X1080P or better	Bidder should provide H.264 or better technology, best suitable to NFAI requirements. Note: Bidder should also provide supporting documents for the same viz. Datasheets, Technical Specifications, User Manuals etc.
11	5.3 Specification of Bullet Camera (30 Mtr)	Page 23/110	Sub Point no 19: Network: RJ45, IPv4 & IPv6 compliant	Suggest to make IPV4/IPV6	Tender Condition remains unchanged.
12	5.4 Specification of Box Camera (50 Mtr)	Page 24/110	Sub Point no 11:No. Of Streams: Min. 3 streams or more at H.264 high profile with 1 JPEG. Total 4 streams	Suggest to add latest compression technique i.e.H.265, which will reduce Bandwidth & Storage requirement	Bidder should provide H.264 or better technology, best suitable to NFAI requirements. Note: Bidder should also provide supporting documents for the same viz. Datasheets, Technical Specifications, User Manuals etc.

Sr No	Section Number/Clause No.	Page No	Query (In detail)	Justification/Suggestion	NFAI Response
13	5.4 Specification of Box Camera (50 Mtr)	Page 24/110	Sub Point no 18: Supported Image Resolution: H.264: 2,048 x 1,536 @ 30 fps and 1920 x 1080 resolution should support 60 fps	Suggest to add H.265 & resolution can be asked uniformly in the entire tender i.e.1920X1080P or better	Bidder should provide H.264 or better technology, best suitable to NFAI requirements. Note: Bidder should also provide supporting documents for the same viz. Datasheets, Technical Specifications, User Manuals etc.
14	5.4 Specification of Box Camera (50 Mtr)	Page 24/110	Sub Point no 19: Network: RJ45, IPv4 & IPv6 compliant	Suggest to make IPV4/IPV6	Tender Condition remains unchanged.
15	5.7 Specification of LAN Switches (PoE)	Page 26/110	2 GB SDRAM and 512 MB flash	The flash memory in a device is used for storing the logs /configuration etc. Each OEM adopts different algorithm/File System for storage and hence the amount of storage needed for optimal functioning is different for each OEM. Suggest going for performance requirement rather than flash Memory and RAM , Every OEM has different file system and hence need of storage varies. Suggest changing this clause to "Optimum flash and RAM " where switch can deliver all required functions at wire speed .	Tender Condition remains unchanged.
16	5.7 Specification of LAN Switches (PoE)	Page 26/110	Shall have up to 154.8 million pps switching throughput	Forwarding rate is measured in packets per second (pps) and it is assumed to be approx. 2 mpps per port further port requirement as per tender is 24 GE + 4 10 GE , so expecting 154 mpps from the device is high ,suggest relax this clause to 130 mpps switching throughput	Suggestion accepted. The point mentioned in specifications, compliance, any other instances should be read as "**Shall have upto 130 million pps switching throughput**."
17	5.10 Specification of Backup Solution / 7	37	The backup software must use an open format (TAR) for writing backup data to tapes, so that native OS tools can also be used to recover in case the backup application is not available. It will also allow the data backup from one Unix platform to be restored on another platform	TAR limits the ability of the protection software to run any efficiency features, like de-duplication, multiplexing, multi-streaming, etc. Requesting change in the spec. Secondly, TAR is proprietary to one vendor and is not supported by Gartner's leaders like IBM, Commvault, Veeam, EMC. Hence, it is supported only by Veritas. So this is a single vendor specification. We, therefore, request you to change this according to TEC-GR guideline which will meet the project requirement and is open to all.	Suggestion accepted. The point mentioned in specifications, compliance, any other instances should be read as "**The backup software should support an open format (TAR) as well as any other formats for writing backup data to tapes, so that native OS tools can also be used to recover in case the backup application is not available. It will also allow the data backup from one Unix platform to be restored on another platform.** **Backup Software is able to rebuild the Backup Database/Catalog from tapes in the event of catalog loss/corruption**."

Sr No	Section Number/Clause No.	Page No	Query (In detail)	Justification/Suggestion	NFAI Response
18	5.10 Specification of Backup Solution / 13	37	Proposed Appliance & backup Software should be from same vendor. Appliance Hardware components, Operating System & Backup solution must be supported by single vendor to avoid multivendor ownership.	While the RFP provides complete details of backup software, the need for a purpose built backup appliance along with the given specification, limits choice of this technology to one vendor. In fact, backup and archival software mentioned in RFP sufficiently meet the project requirement. The RFP has also asked for Unified storage and Tape Library which make the requirement of backup appliance redundant. This would not only reduce project cost but also allow SI to choose from multiple option without locking themselves and the customer to a particular vendor's proprietary technology for all times. Hence, kindly remove backup appliance and allow general purpose storage and tape library to be used for this purpose.	Tender condition remains unchanged. **Note:** The proposed backup solution should be vendor agnostic and should support all the functionalities as mentioned in the RFP.
19	3 Scope of Work:	18	3.2 Laying, terminating & connecting Multimode Optical Fiber Cable (OFC) with redundancy between cameras & control room.	Need clarification on redundancy requirement of OFC.	Bidder needs to comply to the uptime of the devices mentioned in Clause No. 10.12 point no. 3.
20	3 Scope of Work:	19	PI-HFN103L, PI-HPN103L, PI-HW201L: Existing Cameras are Analog. Current scope: The Bidder shall be responsible for seamless integration with the existing CCTV cameras of NFAI.	Encoder are not in BOQ. Will be in whose scope?	Please refer Corrigendum
21	5.14 Video Management Software	46	Macintosh Client	Request approval for Web Client/ Macintosh client/ Windows client.	Tender Condition remains unchanged.
22	5.14 Video Management Software	47	Drag Zoom (Zoom on Marked Area)	With DVM we can achieve complete screen zoom possible. Request your approval.	Tender Condition remains unchanged.
23	5.14 Video Management Software	47	Email Notification with Text, JPEG or AVI clip	Email notification with JPEG or AVI clip not possible. Text and email notification can provide, Requesting approval for same.	Clause to be read as- Email Notification with Text or JPEG or AVI clip. However, the system should provide link in the email to watch the video from the server.
24	5.14 Video Management Software	47	Alarm on recognized license plate	How many cameras are to be consider for this features.	This point stands deleted from Video Management System - specifications, compliance, any other instances in the tender document
25	5.11	39	Each rack should display following parameters on top of the rack : - Source 1 and Source 2 : Current - Temp in the inner front cold space of the rack - Temp in the rear hotter space inside the rack	Web based remote monitoring is possible	Tender Condition remains unchanged.

Sr No	Section Number/Clause No.	Page No	Query (In detail)	Justification/Suggestion	NFAI Response
26	5.11	38	Solution provided should have integrated Rack Mounted - Self-contained Split Type Cooling Unit designed for cooling the racks with 24X7 operations in all respect as per ISHRAE/ASHRAE standard and also integrated with remote monitoring system. N+N Redundant cooling units with each unit of minimum 2 TR/ 7KW capacity for 2 Rack Integrated DC. In order to enhance return air efficiency, bottom mounted cooling unit should have provision to take return air continuously from middle of the rack depth till rear of the rack so as to have effective air circulation.	Solution provided should have integrated Rack Mounted - Self-contained Split Type Cooling Unit designed for cooling the racks with 24X7 operations in all respect as per ISHRAE/ASHRAE standard and also integrated with remote monitoring system. N+N Redundant cooling units with each unit of minimum 2 TR/ 7KW capacity for 2 Rack Integrated DC. In order to enhance return air efficiency, side mounted cooling unit should have provision to take return air continuously from middle of the rack depth till rear of the rack so as to have effective air circulation.	Please read the clause as; Solution provided should have integrated Rack Mounted - Self-contained Split Type Cooling Unit designed for cooling the racks with 24X7 operations in all respect as per ISHRAE/ASHRAE standard and also integrated with remote monitoring system. N+N Redundant cooling units with each unit of minimum 2 TR/ 7KW capacity for 2 Rack Integrated DC. In order to enhance return air efficiency, **bottom/side** mounted cooling unit should have provision to take return air continuously from middle of the rack depth till rear of the rack so as to have effective air circulation.
27	5.11	38	Cold Air Column Space in the front of the mounted equipment in the rack should be at least 790 mm wide and 275 mm deep for each rack.	275 mm depth can be maintained however, the back pitch of the rack shall be reduced resulting in less mounting space for other components like PDU. Kindly confirm whether 275 mm is required as our cooling units can achieve same effectiveness is less depth of approx. 100 mm.	Tender Condition remains unchanged.
28	2.19.2	15	The Bidder / Any member of the consortium should have satisfactorily executed / completed at least 1 project of value 25 Lakh and of "Supply, Installation, Implementation, Testing, Commissioning and Maintenance of CCTV surveillance system" using same/similar products from the same OEM, in Government of India / State Government or in Private	As all the projects make and model of the equipment's changes. We kindly request you to change the clause as " The Bidder / Any member of the consortium should have satisfactorily executed / completed at least 1 project of value 25 Lakh and of "Supply, Installation, Implementation, Testing, Commissioning and Maintenance of CCTV surveillance system" **using reputed OEM Products**, in Government of India / State Government or in Private"	Tender Condition remains unchanged.
29	10.12/Point No 4	52	Local office: Bidder/Contractor shall have Pune based local office with a full-fledged support facility. Bidder to give the list of the support staff and their capabilities along with technical bid.	Can we provide a declaration stating we will open a office in Pune once the tender is awarded to us. As this will allow many System Integrators to participate in the tender	Tender Condition remains unchanged.
30	5.7/ Point No 1.3	26	The switch shall support up to four 10-Gigabit ports SFP+ in addition to the above ports , Switch should have one expansion module slot	Request you to remove "the expansion module slot requirement " as it restricts many vendors to quote for a very higher model switch which will not be competitive in pricing against equivalent models of other vendors. And most of the vendor offer access switch with 24 port copper 1G and 4 SFP+ ports	Tender Condition remains unchanged.
31	5.7/ Point No 1.5	26	2 GB SDRAM and 512 MB flash	All the OEM have their own storing and processing capability. So request you to remove this point or consider Min 1 GB RAM for allowing maximum OEM participation	Tender Condition remains unchanged.
32	5.7/ Point No 1.9	26	The switch shall have minimum 740 Watts for PoE Power	Request you to consider a power budget of 720 watts as 24ports x 30watts only require 720Watts of poem power.	Please read the point as; The switch shall have minimum **720 Watts** for PoE Power
33	5.7/ Point No 9.1	28	OpenFlow protocol capability to enable software-defined networking	Request you to consider openstack/openflow protocol integration capability	Tender Condition remains unchanged.

Sr No	Section Number/Clause No.	Page No	Query (In detail)	Justification/Suggestion	NFAI Response
34	5.7/ Point No 9.2	28	Allows the separation of data (packet forwarding) and control (routing decision) paths, to be controlled by an external SDN Controller, utilizing Openflow protocol	kindly consider openflow/openstack integration. Request you to consider openstack also as an alternative	Tender Condition remains unchanged.
35	5.14/Point No P	46	Active Directory Support	This is only required if Client has Microsoft Server based Active Directory. Kindly request you to remove this line	Please read the point as; LDAP Support required.
36	5.14/Point No 4 d	46	Display pre-registered websites	Need clarity. What websites need to be displayed? Why do you need VMS to display website? Kindly remove this point	The users should be able to view the live feed through a pre-registered website.
37	5.14/Point No 4 e	46	Onboard Hardware Decoder (Intel QSV support)	This is brand specific and hardware architecture specific. Hardware should not be part of Software Specification. Kindly remove this line	Tender Condition remains unchanged.
38	5.14/Point No 10 h	47	Alarm on recognized license plate	Need ANPR Module for the same. ANPR is required for all or only some cameras?. This needs to be clearly defined .. Else this point needs to be removed .It should say support of ANPR Module by adding / integrating necessary Module upgrade	This point stands deleted from Video Management System - specifications, compliance, any other instances in the tender document
39	5.14/Point No 11 p	48	Active Directory Support	This is only required if Client has Microsoft Server based Active Directory. Kindly request you to remove this line	Please read the point as; LDAP Support required.
40	5.1/ Point No 6	21	Minimum 3 streams at different resolution and bit rate	All Camera's being asked are Quad Streams Hence this one should also be supporting 4 streams	Tender Condition remains unchanged.
41	5.1/ Point No 11	21	WDR 80 dB or more, True WDR would be preferred	For True WDR standard is 120dB for better clarity optimization	Tender Condition remains unchanged.
42	5.2/ Point No 7	22	80 dB or more, True WDR would be preferred	For True WDR standard is 120dB for better clarity optimization	Tender Condition remains unchanged.
43	5.3/ Point No 7	23	80 dB or more, True WDR would be preferred	For True WDR standard is 120dB for better clarity optimization	Tender Condition remains unchanged.
44	5.4/ Point No 7	24	80 dB or more, True WDR would be preferred	For True WDR standard is 120dB for better clarity optimization	Tender Condition remains unchanged.
45	5.11	39	Each rack should display following parameters on top of the rack : - Source 1 and Source 2 : Current - Temp in the inner front cold space of the rack - Temp in the rear hotter space inside the rack	For better management can we provide with web based monitoring instead of In Rack monitoring	Tender Condition remains unchanged.
46	5.11	38	Solution provided should have integrated Rack Mounted - Self-contained Split Type Cooling Unit designed for cooling the racks with 24X7 operations in all respect as per ISHRAE/ASHRAE standard and also integrated with remote monitoring system. N+N Redundant cooling units with each unit of minimum 2 TR/ 7KW capacity for 2 Rack Integrated DC. In order to enhance return air efficiency, bottom mounted cooling unit should have provision to take return air continuously from middle of the rack depth till rear of the rack so as to have effective air circulation.	Solution provided should have integrated Rack Mounted - Self-contained Split Type Cooling Unit designed for cooling the racks with 24X7 operations in all respect as per ISHRAE/ASHRAE standard and also integrated with remote monitoring system. N+N Redundant cooling units with each unit of minimum 2 TR/ 7KW capacity for 2 Rack Integrated DC. In order to enhance return air efficiency, side mounted cooling unit should have provision to take return air continuously from middle of the rack depth till rear of the rack so as to have effective air circulation.	Please read the clause as; Solution provided should have integrated Rack Mounted - Self-contained Split Type Cooling Unit designed for cooling the racks with 24X7 operations in all respect as per ISHRAE/ASHRAE standard and also integrated with remote monitoring system. N+N Redundant cooling units with each unit of minimum 2 TR/ 7KW capacity for 2 Rack Integrated DC. In order to enhance return air efficiency, **bottom/side** mounted cooling unit should have provision to take return air continuously from middle of the rack depth till rear of the rack so as to have effective air circulation.

Sr No	Section Number/Clause No.	Page No	Query (In detail)	Justification/Suggestion	NFAI Response
47	5.11	38	Cold Air Column Space in the front of the mounted equipment in the rack should be at least 790 mm wide and 275 mm deep for each rack.	275 mm depth can be maintained however, the back pitch of the rack shall be reduced resulting in less mounting space for other components like PDU. Kindly confirm whether 275 mm is required as our cooling units can achieve same effectiveness is less depth of approx. 100 mm.	Tender Condition remains unchanged.
48	10.1	51	Both the Camera Types and the Monitoring and Control Software has to be from a single Bidder only to ensure proper integration. All Switches have to be from a single Bidder for ease of maintenance.	Most of the surveillance project, Camera and VMS solution are from different OEM and both are integrated by using ONVIF. And we can avoid single OEM locking mechanism and we will get more better features. So we request you to consider solution from different OEM however bidder should ensure interoperability	Tender Condition remains unchanged. Note: In case of a consortium, it should be from a single bidder.
49	2.19.2	16	The Bidder/Any member of the consortium must possess an ISO 9001:2008 Certification.	Request you to include below in PQ criteria 1. Bidder should have ISO 9001:2008 Certification. 2. Bidder should have ISO/IEC 27001:2013 Certification. 3. Bidder should be CMMI Level 3 Certified Organization 13. Bidder should have office in Maharashtra from at least last 10 years. Address Proof document (like telephone bill / Electricity Bill / rent agreement etc.) should be submitted with this bid. 14. Bidder Should have certified Training Engineers from quoted Camera and VMS OEM's	Tender Condition remains unchanged.
50	2.1	9	Site 1: NFAI Phase –I & Site 2: NFAI Phase – II	Since There are 2 phase given BOQ is for both Phases or single Phase. If for single Phase kindly specify and If for Both Phases request you to give different BOQ for different phases. This will help us to get idea about the exact requirement	Tender Condition remains unchanged. Note: The BoQ mentioned is for the project for both the phases of NFAI as per the RFP.
51	2.1	67	Annexure 5 - Technical Compliance Sheets	Min. 3 streams or more at H.264 high profile with 1 JPEG. Total 4 streams. Not required and vendor specific relax to dual streams	Tender Condition remains unchanged.
52	2.1	9	Site 1: NFAI Phase –I & Site 2: NFAI Phase – II	Kindly provide with Network System Architecture or single line diagram for both these phases.	Bidder is requested to visit the site on 17-March-2017 at 11:30 am to get the first hand understanding
53	2.1	9	Site 1: NFAI Phase –I & Site 2: NFAI Phase – II	Is the monitoring, recording and Central command centre for both site be different or same? If different would like to know the assumed location for Central command Centre for each of site and if same also let us know in which Site or Phase same is planned?	Kindly refer clause no. 3.3 in scope of work.
54	7	61	On-Site Resident Engineer for Support:	Manpower required is round the clock or single shift will do?	Tender Condition remains unchanged.
55	15.1	71	SAN Switch Tape Library, HSM and Backup solution	We have not seen any Server in BOQ for loading VMS software. Kindly specify. Also Recording backup days not mentioned. Kindly specify Backup days, recording fps, recording resolution, motion based or continuous based? Pls give specification for Server.	Specification for the server are mentioned in the RFP as well as Corrigendum again. Please refer to the same. Other details as: - Backup days: 60 - Recording fps: 15 fps - Recording resolution: 720p (1280x720) - Recording: Motion based

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56	15.5.2	86	Outdoor Installation - Auto IRIS and Auto ELC	ELC compensates for moderate light changes in indoor applications without the use of expensive auto iris lenses. A fixed-iris lens or manual-iris lens can be used. ELC allows the changing of shutter speeds up to 1/100,000 second. Auto ELC feature can be relaxed with Auto iris.(https://edigitaldeals.net/blog/?p=54)	Tender Condition remains unchanged.
57			Video Management Server	Is redundancy required?	Query not clear
58			Remote viewing	Remote Viewing required or not? Pls share specification for Workstation for remote viewing.	Yes remote viewing is required. For details please refer the tender document.
59	3.2		Multimode Optical Fiber Cable (OFC) with redundancy between cameras & control room.	Request you to consider single Mode.	Query not clear
60	3.6		Training: - Bidder will provide training of Minimum 1 Month to a team of 10 Persons from NFAI Security Staff Team for Surveillance Monitoring and maintenance.		Query not clear
61	4.14		Archival of sub framed rate or full frame digital video of all or selected camera(s) in computer disks. On line replay capability from SAN and/ or Selected Backup disks for a period up to 90 days. 50 TB optional 20TB?	FPS, resolution, continuous motion etc.. And bandwidth for PTZ and normal cameras to be given	Tender Condition remains unchanged.
62	General		SD Card for camera to be given by whom	Pls specify eh SD Card for PTZ to be given by whom	Tender Condition remains unchanged.
63	General		Temperature range for PTZ	Pls specify the temperature range	Tender Condition remains unchanged.
64	General		Onvif profile S and G	Request you to make for Onvif Profile S only.	Tender Condition remains unchanged.
65	General	25	IGMP in tv	not required	Tender Condition remains unchanged.
66	General		Network Switch details, locations and Layer 3 needed or not in central command centre	Layer 3 Switch is needed or not? Pls confirm	Tender Condition remains unchanged.
67	General		Network PTZ Camera (IR -50 Mtr)	IR should be min. 100 mtrs	Tender Condition remains unchanged.
68	Storage		The storage system should be purpose built storage for video surveillance data storage and should be validated with video management software. The storage system should have a published benchmarked for 300MB/s video streaming bandwidth	The storage system ~~should be purpose built storage~~ will be used for video surveillance data storage ~~and should be validated with video management software~~. The storage system should ~~have a published benchmarked for~~ be able to deliver 300MB/s video streaming bandwidth	Supply of Unified Storage is not in the scope of this tender. Please refer the Corrigendum for further details.
69	Controller		The Storage System should be configured with dual redundant controllers. The offered SAN should be based on specialized operating system and should not be based on general purpose operating system on industry standard servers. The array should have a publically published uptime of five nine's	The Storage System should be configured with dual redundant **Symmetric Active-Active** controllers **such that a single logical unit can be shared across all offered controllers in symmetrical fashion**. The offered SAN should be based on specialized operating system and should not be based on general purpose operating system on industry standard servers. The array should have a publically published uptime of five nine's	Supply of Unified Storage is not in the scope of this tender. Please refer the Corrigendum for further details.
70	Host Ports		Array should support minimum 4x16Gbps FC port per controller for SAN connectivity	Array should support minimum **2**x16Gbps FC port per controller for SAN connectivity	Supply of Unified Storage is not in the scope of this tender. Please refer the Corrigendum for further details.

Sr No	Section Number/Clause No.	Page No	Query (In detail)	Justification/Suggestion	NFAI Response
71	Cache		The system should have a minimum of 16 GB of memory across dual controller. Array should support cache to disk in order to avoid any data loss due to extended power outage. Array should support mirroring of write operation across controllers.	The system should have a minimum of 16 GB 64GB of memory across dual controller. Array should support cache to disk in order to avoid any data loss due to extended power outage. Array should support mirroring of write operation across controllers.	Supply of Unified Storage is not in the scope of this tender. Please refer the Corrigendum for further details.
72	Protocol Support		iSCSI, ARP,RIP(V1-V2), SNMP, SNTP, LDAP and FC	iSCSI, ARP,RIP(V1-V2), SNMP, SNTP, LDAP FCOE and FC	Supply of Unified Storage is not in the scope of this tender. Please refer the Corrigendum for further details.
73	Licenses		The system should be configured with snapshot features licenses, snapshot restore licenses for the entire systems capacity, thin provisioning license and replication licenses for the entire system capacity	The system should be configured with snapshot features licenses, snapshot restore licenses for the entire systems capacity, thin provisioning **and automated thin reclaim** license and replication licenses for the entire system capacity	Supply of Unified Storage is not in the scope of this tender. Please refer the Corrigendum for further details.
74	Storage Capacity		The vendor should configure 50 TB usable in RAID 6 using 4TB NL-SAS 7200RPM drives. The useable capacity should be exclusive from overheads of hot spares, RAID or any other storage related space requirements. Array should be configured with minimum of 1 hot spare for every 30 data disks.	The vendor should configure 50 TB usable in RAID 6 using 4TB or **higher capacity** NL-SAS 7200RPM drives. The useable capacity should be exclusive from overheads of hot spares, RAID or any other storage related space requirements. Array should be configured with minimum of 1 hot spare for every 30 data disks.	Supply of Unified Storage is not in the scope of this tender. Please refer the Corrigendum for further details.
75	OS Support		Storage system should support all industries leading operating systems like Apple Mac O/S 10.8 or greater, Citrix Xenserver 6.1, HP-UX, IBM AIX, IBM VIOS 2.2, 2.3, Microsoft Windows Server 2008, Microsoft Windows Server 2008 R2+, Windows Server 2012, Windows Server 2012 R2, Microsoft Windows 7, Microsoft Windows 8 and Microsoft Windows Vista, Microsoft Hyper-V, Novell Suse Enterprise Linux, Oracle Linux, RedHat Enterprise Linux, Solaris 10 x86, Solaris 10 sparc, Solaris 11 and 11.1 (SPARC and x86), VMWare ESXi 5.x	Storage system should support all industries leading operating systems like Apple Mac O/S 10.8 or greater, Citrix Xenserver 6.1, HP-UX, IBM AIX, IBM VIOS 2.2, 2.3, Microsoft Windows Server 2008, Microsoft Windows Server 2008 R2+, Windows Server 2012, Windows Server 2012 R2, Microsoft Windows 7, Microsoft Windows 8 and Microsoft Windows Vista, Microsoft Hyper-V, Novell Suse Enterprise Linux, Oracle Linux, RedHat Enterprise Linux, Solaris 10 x86, Solaris 10 sparc, Solaris 11 and 11.1 (SPARC and x86), VMWare ESXi 5.x	Please read the clause as; Storage system should support all industries leading operating systems like Apple Mac O/S 10.8 or greater, Citrix Xenserver 6.1, HP-UX, IBM AIX, IBM VIOS 2.2, 2.3, Microsoft Windows Server 2008, Microsoft Windows Server 2008 R2+, Windows Server 2012, Windows Server 2012 R2, Microsoft Hyper-V, Novell Suse Enterprise Linux, Oracle Linux, RedHat Enterprise Linux, Solaris 10 x86, Solaris 10 sparc, Solaris 11 and 11.1 (SPARC and x86), VMWare ESXi 5.x
76	Additional Point		The OEM should belong to the leaders/Challengers in Gartner Magic Quadrant.		Tender Condition remains unchanged.
77	Backup		The backup solution should belong to the leaders in Gartner Magic Quadrant.	The backup solution should belong to the leaders/Challengers in Gartner Magic Quadrant.	Tender Condition remains unchanged.
78	Drive Technology		2 No. Of LTO 7 drives required, scalable up-to 18 Drives if required.	2 No. Of LTO 7 drives required, scalable up-to 40 Drives if required.	Tender Condition remains unchanged.
79	Capacity		Offered Library should be with Min. 41 Slots active, including I/E slots and scalable up-to 409 slots with expansion module and capacity on demand license if required.	Offered Library should be with Min. 41 Slots active, including I/E slots and scalable up-to 550 slots with expansion module and capacity on demand license if required.	Tender Condition remains unchanged.

Sr No	Section Number/Clause No.	Page No	Query (In detail)	Justification/Suggestion	NFAI Response
80	Performance		Inventory Speed: 55 seconds for average of 41 slot configuration. Configuration: Auto-discovery and auto-calibration for installed/added components (modules, tapes, drives, magazines, etc.) Drive Throughput - Native 300MBps/Compressed 750MBps Library MSBF It should be greater than 2,000,000	Inventory Speed: 65 seconds for average of 80 slot configuration. Configuration: Auto-discovery and auto-calibration for installed/added components (modules, tapes, drives, magazines, etc.) Drive Throughput - Native 300MBps/Compressed 750MBps Library MSBF It should be greater than or equal to 2,000,000	Tender Condition remains unchanged.
81	Misc		Features "Capacity-on-Demand Growth. Optional Support for Mobile Library Status update. Optional Support for Drive Encryption. Support for Advanced Reporting – Media, drive and security reports of library utilization and performance. Automated report scheduling and distribution. Library Partitioning: Supports up to 18 partitions for tape consolidation Should have optional support for Extended Data Life Management: Media health reports of cartridges stored for long-term archive and DR, information is collected outside of normal operations: – Automated scheduling for scanning tapes – Notifications on test results – Policy-based data migration to new cartridges Should have optional support for Native Storage Networking: Control Path Failover, Data Path Failover, LUN Mapping, and Drive Firmware Auto levelling. The Offered Library should be certified with the HSM (Hierarchical Storage Management) and should support LTFS.	Features "Capacity-on-Demand Growth. Optional Support for Mobile Library Status update. Optional Support for Drive Encryption. Support for Advanced Reporting – Media, drive and security reports of library utilization and performance. ~~Automated report scheduling and distribution.~~ Library Partitioning: Supports up to 20 partitions for tape consolidation Should have optional support for Extended Data Life Management: ~~Media health reports of cartridges stored for long-term archive and DR~~, ~~information is collected outside of normal operations: – Automated scheduling for scanning tapes – Notifications on test results – Policy-based data migration to new cartridges~~ Should have optional support for Native Storage Networking: Control Path Failover, Data Path Failover, LUN Mapping, and ~~Drive Firmware Auto levelling~~. The Offered Library should be certified with the HSM (Hierarchical Storage Management) and should support LTFS.	Tender Condition remains unchanged.
82	Additional Point		The OEM should belong to the leaders/Challengers in Gartner Magic Quadrant.		Tender Condition remains unchanged.
83	Hard Disk		3 x 900GB SAS 3.5" Drive in RAID 5	Request to change and/or allow 2.5" drive in RAID 5	Tender Condition remains unchanged.
84	Drives		Server should support Min 8 x 3.5" drives	Request to change and/or allow 2.5" drive	Tender Condition remains unchanged.
85	Redundant Power Supply		• Redundant hot swap power supplies. • Should be 92% + efficient at 100% Load	Request to remove Hotswap power supplies	Tender Condition remains unchanged.
86	The OEM should belong to the leaders/Challengers in Gartner Magic Quadrant.			To ensure that tested and proven technology and products are proposed by the participants, it is imperative that products from only the reputed and established Original Equipment's Manufacturer's are proposed by the bidder(s). Above listed OEM pre-qualification criteria will ensure that Industry leading / Top Reputed OEMs qualify for the project**	Tender Condition remains unchanged.
87	1.8		Shall provide Gigabit (1000 Mb) Latency of < 5 µs and 10 Gbps Latency of < 1.5 µs	Please change the 10 Gbps Latency of < 3µs	Tender Condition remains unchanged.

Sr No	Section Number/Clause No.	Page No	Query (In detail)	Justification/Suggestion	NFAI Response
88	6.6		IEEE 802.1x to provide port-based user authentication with multiple 802.1x authentication sessions per port	Please remove the multiple 802.1x authentication sessions per port	Tender Condition remains unchanged.
89	Additional Point		The OEM should belong to the leaders/Challengers in Gartner Magic Quadrant.		Tender Condition remains unchanged.
90	NFAI - CCTV RFP_V0.6.pdf		Additional Recommendation	Under Make in India, GoI Policy	Tender Condition remains unchanged.
91	NFAI - CCTV RFP_V0.6.pdf	26	5.7 Specification of LAN Switches (PoE), 1.8	Shall provide Gigabit (1000 Mb) Latency of < 5 µs and 10 Gbps Latency of < 1.5 µs	Tender Condition remains unchanged.
92	NFAI - CCTV RFP_V0.6.pdf	28	5.7 Specification of LAN Switches (PoE), 8.4	Safety and Emission standards including UL 60950-1; IEC 60950-1; VCCI Class A; EN 55022 Class A	Tender Condition remains unchanged.
93	NFAI - CCTV RFP_V0.6.pdf	28	5.7 Specification of LAN Switches (PoE), 9	Software Defined Networking (SDN) Capability 9.1 OpenFlow protocol capability to enable software-defined networking 9.2 Allows the separation of data (packet forwarding) and control (routing decision) paths, to be controlled by an external SDN Controller, utilizing Openflow protocol	Tender Condition remains unchanged.
94	NFAI - CCTV RFP_V0.6.pdf	28	5.7 Specification of LAN Switches (PoE), 10.1	Lifetime warranty with advance replacement and next-business-day delivery	Tender Condition remains unchanged.
95	5.10 Specification of Backup Solution / 7	37	The backup software must use an open format (TAR) for writing backup data to tapes, so that native OS tools can also be used to recover in case the backup application is not available. It will also allow the data backup from one Unix platform to be restored on another platform	TAR limits the ability of the protection software to run any efficiency features, like de-duplication, multiplexing, multi-streaming, etc. Requesting change in the spec. Secondly, TAR is proprietary to one vendor and is not supported by Gartner's leaders like IBM, Commvault, Veeam, EMC. Hence, it is supported only by Veritas. So this is a single vendor specification. We, therefore, request you to change this according to TEC-GR guideline which will meet the project requirement and is open to all.	Suggestion accepted. The point mentioned in specifications, compliance, any other instances should be read as "The backup software should support an open format (TAR) as well as any other formats for writing backup data to tapes, so that native OS tools can also be used to recover in case the backup application is not available. It will also allow the data backup from one Unix platform to be restored on another platform. Backup Software is able to rebuild the Backup Database/Catalog from tapes in the event of catalog loss/corruption."
96	5.10 Specification of Backup Solution / 13	37	Proposed Appliance & backup Software should be from same vendor. Appliance Hardware components, Operating System & Backup solution must be supported by single vendor to avoid multivendor ownership.	While the RFP provides complete details of backup software, the need for a purpose built backup appliance along with the given specification, limits choice of this technology to one vendor. In fact, backup and archival software mentioned in RFP sufficiently meet the project requirement. The RFP has also asked for Unified storage and Tape Library which make the requirement of backup appliance redundant. This would not only reduce project cost but also allow SI to choose from multiple option without locking themselves and the customer to a particular vendor's proprietary technology for all times.	Tender condition remains unchanged. Note: The proposed backup solution should be vendor agnostic and should support all the functionalities as mentioned in the RFP.

Sr No	Section Number/Clause No.	Page No	Query (In detail)	Justification/Suggestion	NFAI Response
			Hence, kindly remove backup appliance and allow general purpose storage and tape library to be used for this purpose.		
97			2- Can we get EMC exception (as we are register / have NSIC certificate) ?		As per Government Rules
98			3- it's mandatory to have CCTV PO? Or can we summit server, storage or modular rack PO?		Tender Condition remains unchanged.
99			4 – Can we supply only server, storage, Networking component, Modular rack and backup software?		Query not clear.
100	**5.11 (page 39 of 110)**		Each rack should display following parameters on top of the rack : - Source 1 and Source 2 : Current - Temp in the inner front cold space of the rack - Temp in the rear hotter space inside the rack	Web based remote monitoring is possible	Tender Condition remains unchanged. Also, there should be a provision for monitoring the same through a web based system
101	**5.11 (page 38 of 110)**		Solution provided should have integrated Rack Mounted - Self-contained Split Type Cooling Unit designed for cooling the racks with 24X7 operations in all respect as per ISHRAE/ASHRAE standard and also integrated with remote monitoring system. N+N Redundant cooling units with each unit of minimum 2 TR/ 7KW capacity for 2 Rack Integrated DC. In order to enhance return air efficiency, bottom mounted cooling unit should have provision to take return air continuously from middle of the rack depth till rear of the rack so as to have effective air circulation.	Solution provided should have integrated Rack Mounted - Self-contained Split Type Cooling Unit designed for cooling the racks with 24X7 operations in all respect as per ISHRAE/ASHRAE standard and also integrated with remote monitoring system. N+N Redundant cooling units with each unit of minimum 2 TR/ 7KW capacity for 2 Rack Integrated DC. In order to enhance return air efficiency, side mounted cooling unit should have provision to take return air continuously from middle of the rack depth till rear of the rack so as to have effective air circulation.	Please read the clause as; Solution provided should have integrated Rack Mounted - Self-contained Split Type Cooling Unit designed for cooling the racks with 24X7 operations in all respect as per ISHRAE/ASHRAE standard and also integrated with remote monitoring system. N+N Redundant cooling units with each unit of minimum 2 TR/ 7KW capacity for 2 Rack Integrated DC. In order to enhance return air efficiency, **bottom/side** mounted cooling unit should have provision to take return air continuously from middle of the rack depth till rear of the rack so as to have effective air circulation.
102	**5.11 (page 38 of 110)**		Cold Air Column Space in the front of the mounted equipment in the rack should be at least 790 mm wide and 275 mm deep for each rack.	275 mm depth can be maintained however, the back pitch of the rack shall be reduced resulting in less mounting space for other components like PDU. Kindly confirm whether 275 mm is required as our cooling units can achieve same effectiveness is less depth of approx. 100 mm.	Tender Condition remains unchanged.
103	**2.19.2**	15	Can this criteria be restricted to "using same/similar products, in Government of India / State Government or in Private	There are various OEM'S making the same products. All system integrators work with multiple OEM'S,hence they will have valid experience of a particular product category from an OEM but may not essentially bid for that particular OEM'S products in this bid	Tender Condition remains unchanged.
104	3.3	18	What is the exact location of the cc1 frol rooms?	for material requirement	Kindly refer clause no. 3.3 in scope of work.
105	**4.1.2**	20	Will the computer be provided by NFAI? If yes, what is the configuration? Or ts the computer to be provided by the bidder?	This information will allow us to quote according to requirement	Query not clear.
106	4.1.5	20	Is the work station required over and above the Servers? Why?		Query not clear.

Sr No	Section Number/Clause No.	Page No	Query (In detail)	Justification/Suggestion	NFAI Response
107	11 (5)	55	The L1bidder is required to place a security deposit of 10%.Whatis the need for withholding 5% of the payment		Tender Condition remains unchanged.
108	5.1.2 7 15.5.13	40 59 93	While all these points Please clarify. state that 50 TB of unified storage is required. In the BOQ unified storage has been omitted	Please Clarify	Supply of Unified Storage is not in the scope of this tender. Please refer the Corrigendum for further details.
109			1. Supply of tender free of cost.		As per Government Rules
110			2. Exemption of payment of Earnest Money Deposit and Security Deposit and submission of Performance bank guarantee.		As per Government Rules
111			3. Price preference up to 15% over the lowest bidder		As per Government Rules
112	4.1.2	20	Reception of the digital video from all cameras at the Control room called Central Monitoring Station (CMS) and additional stations over Web Browsers. CMS should have computer with customized software for all two-way control system, monitoring on all LED display, data logging and recording of the operation on the CMS as well as the Storage Area Network (SAN) at Central Monitoring System.	Why is the computer require red when 2 servers are being procured	Tender Condition remains unchanged.
113	4.1.5	20	Back-up Archival of video from main workstation HDD to Storage (SAN) along with reload facility.	The RFP does not state if the workstation is already present or has to be provided.	Tender Condition remains unchanged.
114	10.1	51	Both the Camera Types and the Monitoring and Control Software has to be from a single Bidder only to ensure proper integration. All Switches have to be from a single Bidder for ease of maintenance	Is this a typing error ?	Tender Condition remains unchanged. Note: In case of a consortium, it should be from a single bidder.
115	11	55	After successful completion of Warranty period as specified in clause Warranty Terms - 5%	The L1 bidder is required to place a security deposit of 10%. What is the need for withholding 5% of the payment	Tender Condition remains unchanged.
116	14, 15, 16	58	Casing patti & PVC pipe 1 Nos.	Is this a typing error ?	Tender Condition remains unchanged.
117	5.1.2 7 15.5.13	40 59 93	Supply, Installation, Testing, Commissioning of Unified Storage of 50 TB, with SAN Switch. Table 14 compliance sheet for unified storage	While all these points state that 50TB of unified storage is required. In the BOQ unified storage has been omitted	Supply of Unified Storage is not in the scope of this tender. Please refer the Corrigendum for further details.