

Corrigendum to RFP (NIT 3053 dated 3.5.2017)

Selection of System Integrator
For

Supply, Installation, Commissioning and Maintenance of
“CCTV based surveillance system”
At Sub & district Courts in Bihar

RFP Release date: 5-May-2017

BSEDC Ltd
Beltron Bhawan
Shastri Nagar, Bailey Road
Patna, Bihar – 800 023

The below Corrigendum is issued by BSEDC in response to the pre-bid queries of perspective bidders with reference to the above mentioned project and pre bid meeting held on 19th May 2017.

CORRIGENDUM-1

S.No.	RFP Ref	Original Clause	Changed clause
1	Appendix 3 Bill of Material (Tentative) sl no 14	Dual AC with sequential controller	Dual Split AC with sequential controller
2	Section 8 Deliverables and Timelines Point 5	Activity/Task- Implementation on 3 sites notified by BSEDC Deliverable /Milestone-Acceptance by BSEDC, Time lines in week T0+16	Activity/Task- Implementation on 3 sites notified by BSEDC where the SI is required to establish the PoC (proof of concept) of the solution proposed by them. Once the PoC is accepted by BSEDC, the SI will replicate the solution on all remaining sites. Deliverable /Milestone-Acceptance by BSEDC, Time lines in week T0+8
3	New clause SECTION 9 D		The OEM whose product has been quoted by the L-1 bidder (and if the bidder is awarded the contract), will invoice the SI directly without distribution through a value added distributor. In case certain OEMs, due to constraints in their respective business models are unable to achieve the same, prior notification will have to be given to BSEDC and BSEDC's approval has to be sought by the selected SI before such transaction. In case of default by the SI on the above, BSEDC may take suitable action on the System Integrator.
4	New clause SECTION 7.4.3		Successful vendor will take all necessary precaution for protection from monkey menace, rodent issues or other factors which may affect installation, all of which should be considered during the pre-survey of sites and addressed accordingly in the solution proposed to BSEDC.
5	Appendix-4 UPS Technical Specifications		
	Sl no 7	Input power factor ≥ 0.95 at full load	Input power factor ≥ 0.9 at full load
	Sl no 14	Battery Backup 8 hours	Battery Backup 4 hours
	Sl no 6	Input phase/output phase Three phase with ground /one phase out	Three phase in /three phase Out
	Sl no 17	24 VDC or more	240 VDC or more

	SI No 18	Battery ratings /VAH=min 1500 VAH	Min 96,000 VAH for 15 KVA and 128,000 VAH for 20 KVA
	SI no 26	LCD Display(inbuilt) - Back-up time, Load, battery, Mode of operation, Fault, KVA, KW, MIN, Battery Status in Bar on display, Temp Info, Load Info	LCD Display (inbuilt) - Load, battery, Mode of operation, Fault, KVA, Battery Status in Bar display, Load Info.”
	SL No 9	Input voltage/output voltage and range	Input "330V- 460V" Output 400 V 3 phase (equivalent to 230 volt phase neutral)
6	<u>Appendix-4 Technical Specifications Voltage Regulator 15-20KVA</u>	Technical Specifications Voltage Regulator 15-20KVA	Technical Specifications Voltage Regulator 30-40KVA
	SI no 2	Input Voltage Range 180V ac -465 Vac, 3 phase ,3 wire 4 wire (Delta)	Input Voltage Range 180V ac -465 Vac, 3 phase ,4 wire (Delta)
	SI no 11	Servo stabilizer feature Capacity 15 KVA /20 KVA three phase	Capacity 30 KVA /40 KVA three phase
	SI no 1	Isolation transformer capacity 30 KVA /40 KVA	Isolation transformer capacity 40/50 KVA
7	<u>Appendix-4 Flame proof PTZ with Integrated housing and mounting accessories</u>		
	SI no 37	Dust and water protection IP 66 and IK10	Dust and water protection -IP66
	SI no 26	Alarm I/O Input 2:Output 1	Alarm I/O Input 1:Output 1
	SI no 22	No of streams 2H.264 & 1 MJPEG	No of streams 2
	SI no 23	Supported resolutions H.264 & MJPEG	Supported resolutions 1080p/720p
	SI no 24	Supported Protocol 1080p/720p/D1/2CIF	Supported protocol H.264 / MJPEG/H.265
	SI 16	Motion detection : Motion Detection Window x 4 sets or more	Deleted
	SI no 12	Speed by Zoom: On/off (Pan and tilt speed proportional to zoom ratio)	Speed by Zoom: On/off (Pan(360 degree) and tilt (-60 to +60 degree) speed proportional to zoom ratio)
	SI no 11	Privacy mask 16	Deleted
	SI no 7	Zoom: 20X or better. Bidder to propose focal length to cover 100 m	Zoom: 10X or better.
	SI no 8	Focal Length: 20X or better. Bidder to propose focal length to cover 100 m	Focal length: 10X or better. Bidder to propose focal length to cover 50 m
	SI no 6	Minimum Illumination Color 0.4 Lux or better	Minimum Illumination Color 0.7 Lux or better

	Sl no 29	Configurable image parameters : Backlight Compensation, White Balance, Noise Reduction, Brightness, Exposure, Sharpness, Contrast, Saturation Hue, Privacy Mask,Day/Night Threshold	Deleted
	Sl 33	Power Source and Consumption: Should support 802.3at (PoE+) 4-Pair 60W, AC 24V/DC 12V	24 VAC
8	<u>Appendix-4 IP HD PTZ camera with camera housing mounting accessories, power adapters and illuminator mount</u>		
	Sl no 25	Supported Protocol 1080p/720p/D1	Supported Protocol H.264 / MJPEG/H.265
	Sl no 24	No of streams 2H.264 & 1 MJPEG	No of streams=2
	Sl no 37	Dust and water protection IP 66 and IK10	Dust and water protection -IP66
	Sl no 12	Speed by Zoom: On/off (Pan and tilt speed proportional to zoom ratio)	Speed by Zoom: On/off (Pan(360 degree) and til (- 60 to +60 degree) speed proportional to zoom ratio)
	Sl no 11	Privacy Mask 16	Privacy Mask 2
	Sl no 7	Zoom: 20X or better. Bidder to propose focal length to cover 100 m	Zoom: 10X or better. Bidder to propose focal length to cover 50 m
	Sl no 8	Focal Length: 20X or better. Bidder to propose focal length to cover 100 m	Focal length: 10X or better. Bidder to propose focal length to cover 50 m
	Sl no 6	Minimum Illumination Color 0.4 Lux or better	Minimum Illumination Color 0.7 Lux or better
9	<u>Appendix 4 -Fixed Explosion proof camera with camera housing mounting accessories, power adapters and junction box</u>		
	Sl no 8	Vari focal lens: Minimum coverage of 80 m with zoom of 20X or better. Bidders to propose focal length accordingly	Vari focal lens: Minimum coverage of 50 m with zoom of 10X or better. Bidders to propose focal length accordingly
	Sl no 13	No of streams 2H.264 & 1 MJPEG	No of streams=2
	Sl no 14	Supported resolutions H.264 & MJPEG	Supported resolutions 1080p/720p
	Sl no 16	Supported Protocol 1080p/720p/D1/2CIF	Supported Protocol H.264 / MJPEG/H.265
	Sl no 17	SD memory card feature 64 GB or better	SD memory card feature 32 GB or better
	Sl no 18	Alarm I/O Input 2:Output 1	Alarm I/O Input 1:Output 1
	Sl no 7	Minimum Illumination	Minimum Illumination

		Color 0.4 Lux or better	Color 0.7 Lux or better
	SI 33	Power Source and Consumption: Should support 802.3at (PoE+) 4-Pair 60W, AC 24V/DC 12V	24 VAC
	SI no 30	Max number of user account 20	Deleted
	SI no 22	Configurable image parameters : Backlight Compensation, White Balance, Noise Reduction, Brightness, Exposure, Sharpness, Contrast, Saturation Hue, Privacy Mask, Day/Night Threshold	Deleted
10	<u>Appendix 4 –Bullet IK10 with camera housing mounting accessories, power adapters and junction box</u>		
	SI no 18	Alarm I/O Input 2:Output 1	Alarm I/O Input 1:Output 1
	SI no 13	No of streams 2H.264 & 1 MJPEG	No of streams=2
	SI no 16	Supported Protocol 1080p/720p/D1/2CIF	Supported Protocol H.264 / MJPEG/H.265
	SI no 7	Minimum Illumination Color 0.4 Lux or better	Minimum Illumination Color 0.7 Lux or better
11	<u>Appendix 4 –Specification for NVR</u> <u>New clause</u>		The NVR should be 16 channel supporting Raid-5. The NVR shall support adequate HDD to record and display all channels at 1080p 25 fps. For such, a minimum of 20 GB per camera /day is forecasted at 50% activity level. Anything above, bidder may quote accordingly. The NVR shall carry CE, FCC and each HDD shall support a minimum of 6 TB SATA. The NVR shall ensure simultaneous streaming ,recording and frame rate of all channels with a minimum concurrent aggregated bandwidth 16*10=160 mbps
12	<u>Appendix 4 –Specification for 42 U Rack</u> <u>New clause</u>		<ol style="list-style-type: none"> 1. 19 “ Rack , Floor standing 1000 mm depth 42U height, Front & back door (lockable), Front glass door 2. 15 & 5 AMP AC power distribution channel made of high flame retardant & insulating material , CE approved with 10 nos sockets with individual on/off switch & light indication 3. Load bearing capacity of min 500 Kgs 4. Castor with breaks

13	Appendix 4 –Specification for 9 U Rack New Clause		<ol style="list-style-type: none"> 19 “ Rack , wall mountable 600 mm depth 9U height, Front glass door 5 AMP AC power distribution channel made of high flame retardant & insulating material , CE approved with 5 nos sockets with wall mounting hardware Load bearing capacity of min 50 Kgs 																				
14	Section: APPENDIX-4 Specifications of I/O Devices:																						
	Sl no 1	Cat6 compliant Data-gate Jacks	Cat6A compliant Jacks																				
	Sl no 2	Jacks should have Spring Loaded Shutter	Jacks/ face plate should have Shutter																				
15	Section:APPENDIX-4 Specifications of Optical Fiber Patch Cord , sl no 4	Length -10 m	Length – 2 m																				
16	Section:APPENDIX-4 Specifications for OFC 6 core																						
	Sl no 10	Attenuation at 1310 nm:0.35 db/ km	Deleted																				
	Sl no 15	Peripheral Strength Member: Two Steel wires of 1.2 mm	Peripheral Strength Member: Two Steel wires of 1.2 mm/ FRP rods																				
17	Appendix 4 –Specification for 7 meter pole	New clause	Sl no 12 -Anti-climb paint and provisioning of spikes																				
18	Pre-qualification Criteria, Sl.No.1b, CI-6.1.	Should have submitted EMD of INR 35,00,000.00 as bid security	Should have submitted EMD BG / DD of INR 35,00,000.00 as bid security																				
19	Section 7.7 FMS Services	New clause	Sl no 7- SI will deploy the L-1 support for full duration of court timings. The L-1 resource will be responsible for all camera & Network operations and all other inline work in relation to the project as directed by BSEDC.																				
20	Section 8.3 payment terms	8.1.2 Post Implementation SLA- Manpower availability	8.1.2 Post Implementation SLA- Manpower availability																				
		<table border="1"> <tr> <td>Above 99.90%</td> <td>No Penalty</td> </tr> <tr> <td>Between 99.90% to 99.01%</td> <td>1.0% of QGR- CAPEX part</td> </tr> <tr> <td>Between 99.00% to 98.01%</td> <td>2.0% of QGR- CAPEX part</td> </tr> <tr> <td>Between 98.00% to 97.01%</td> <td>5.0% of QGR- CAPEX part</td> </tr> </table>	Above 99.90%	No Penalty	Between 99.90% to 99.01%	1.0% of QGR- CAPEX part	Between 99.00% to 98.01%	2.0% of QGR- CAPEX part	Between 98.00% to 97.01%	5.0% of QGR- CAPEX part	<table border="1"> <tr> <td>Above 99.90%</td> <td>No Penalty</td> </tr> <tr> <td>Between 99.90% to 99.01%</td> <td>1.0% of QGR</td> </tr> <tr> <td>Between 99.00% to 98.01%</td> <td>2.0% of QGR</td> </tr> <tr> <td>Between 98.00% to 97.01%</td> <td>5.0% of QGR</td> </tr> <tr> <td>Between 97.00% to 96.01%</td> <td>10.0% of QGR</td> </tr> <tr> <td>Less than 96.0%</td> <td>30% of QGR</td> </tr> </table>	Above 99.90%	No Penalty	Between 99.90% to 99.01%	1.0% of QGR	Between 99.00% to 98.01%	2.0% of QGR	Between 98.00% to 97.01%	5.0% of QGR	Between 97.00% to 96.01%	10.0% of QGR	Less than 96.0%	30% of QGR
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		Less than 96.0%	30% of QGR-CAPEX part	
21	<u>Appendix 4 –Specification for NMS</u>			
	SI no 23	Must have Complete application insight visibility up to layer 7 for quick user needs provisioning and reports even the location for the wireless users (if any)with complete report of the user roaming as signal strength .		Deleted
	SI no 10	Must support RADIUS or LDAP Authentication for users of the application.		Must support RADIUS/TACACS or LDAP Authentication for users of the application.
22	<u>Appendix 4 –Specification for 8 port PoE+ switch</u>			The minimum specification of switches have been revised as under

Appendix -4 Revised minimum specification of switches

SI no	Specification For 8 Port PoE+ Switch
1	Shall be 19" Rack Mountable. The switch shall be non-blocking in architecture
2	8 RJ-45 autosensing 10/100/1000T ports with 2 No of SFP and /or SFP+ as per the design requirement of SI.
3	1 console port with console cable
4	Shall have switching capacity of 20 Gbps for providing non-blocking performance on all Gigabit ports
5	Shall have minimum 14 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports
6	Shall support 802.3ad (LACP) with upto 4 ports supported in 6 groups
7	IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol and IEEE 802.1s Multiple Spanning Tree Protocol and/ or Should support Rapid ring resiliency protection technology to support 50 millisecond convergence preventing drop of video packet should in case path disruption and to be integrated with other switches as per the design requirement of SI.

8	Shall support minimum 100 active VLAN or IEEE 802.1 Q-based VLAN tagging ,Port based VLAN, Protocol based VLAN, Voice VLAN
9	Support for minimum 8 k MAC addresses
10	Should have minimum 4 hardware based queues per port
11	Should support IGMP v1, v2 and v3 for multicast applications,
12	Should support for IPv6/IPv4 features like Neighbor discovery, Syslog, Telnet, SSH, Web GUI, SNMP, NTP, DNS, DHCP, RADIUS/TACACS, classification and marking, RFC 2544 or equivalent.
13	Should support IPv6 from day one.
14	Configuration through the CLI, console, Telnet, SSH and Web Management and also support to UDLD or equivalent, Ethernet Copper diagnostic feature /Cable fault management.
15	Switch should support on-line software reconfiguration to implement changes without rebooting/ modular Operating system
16	Switch should support MAC address based filter and port as well as VLAN based filter / ACLs
17	IEEE 802.1 X to allow port based security, MTBF 50000 Hrs
18	SNMPv1, v2, and v3 and 4 group of RMON support.
19	Power: Input 100-240VAC, 50/60Hz. Operating temp: Min 0-45 Degree C.
20	Switch and fiber module should be UL, EN ,RoHS . Switch should be EAL/NDPP certified
21	OEM should be in Gartner's Magic Quadrant for wired and wireless LAN for min 5 years. OEM should not be blacklisted by Govt./ PSU

Specification for L2 Industrial 8 Port Switch with POE+	
1	Rugged outdoor Din Rail mountable switch with Min 8 10/100/1000 Base-T port of PoE+ and 2 No of SFP/ SFP+ Ports.
2	POE/POE +Standards should be in accordance with IEEE 802.3af /IEEE 802.3at standards as per the design requirement of SI.
3	1 console port with console cable,
4	Shall have switching capacity of 20 Gbps for providing non-blocking performance on all Gigabit ports

5	Shall have minimum 14 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports
6	Shall support 802.3ad (LACP) with upto 4 ports supported in 6 groups
7	IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol and IEEE 802.1s Multiple Spanning Tree Protocol and/or should support Rapid ring resiliency protection technology to support 50 millisecond convergence thus video packet should not drop in case path disruption and to be integrated with other switches.
8	Shall support minimum 100 active VLAN or IEEE 802.1 Q-based VLAN tagging ,Port based VLAN , Protocol based VLAN, Voice VLAN
9	Support for minimum 8 k MAC addresses
10	Should have minimum 4 hardware based queues per port
11	Should support IGMP v1, v2 and v3 for multicast applications,
12	Should support for IPv6/IPv4 features like Neighbor discovery, Syslog, Telnet, SSH, Web GUI, SNMP, NTP, DNS, DHCP, RADIUS/TACACS, classification and marking, RFC 2544 or equivalent.
13	Should support IPv6 from day one.
14	Configuration through the CLI, console, Telnet, SSH and Web Management and also support to UDLD or equivalent, Ethernet Copper diagnostic feature /Cable fault management
15	Should support min. IP 30/31 rating and should be housed in IP 66/67 enclosure provided by SI as per design
16	Switch should support MAC address based filter and port as well as VLAN based filter / ACLs
17	IEEE802.1 X to allow port based security, MTBF 50000 Hrs
18	SNMPv1, v2, and v3 and 4 group of RMON support.
19	Power: Input: 48 VDC dual input. Operating temp: Min minus 5 - plus 70 Degree C .Power supply should be industrial grade only.
20	Switch and fiber module should be UL, EN ,RoHS
21	OEM should be in Gartner's Magic Quadrant for wired and wireless LAN for min 5 years. OEM should not be blacklisted by Govt./ PSU

Specification for L2 24 Port Switch	
1	Shall be 19" Rack Mountable. The switch shall be non-blocking in architecture
2	24 RJ-45 autosensing 10/100/1000 (simultaneous) ports with 2 No of SFP and / or SFP+ as per the design requirement of SI
3	1 console port with console cable
4	Shall have switching capacity of 52 Gbps for providing non-blocking performance on all Gigabit ports
5	Shall have minimum 38 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports
6	Shall support IEEE 802.3ad (LACP) with up to 4 ports supported in 6 groups
7	IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol and IEEE 802.1s Multiple Spanning Tree Protocol and/ or should support Rapid ring resiliency protection technology to support 50 millisecond convergence thus video packet should not drop in case path disruption and to be integrated with other switches.as per the design requirement of SI.
8	Shall support minimum 100 active VLAN or IEEE 802.1 Q-based VLAN tagging ,Port based VLAN , Protocol based VLAN, Voice VLAN
9	Support for minimum 8 k MAC addresses
10	Should have minimum 4 hardware based queues per port
11	Should support IGMP v1, v2 and v3 for multicast applications, MVR
12	Should support for IPv6/IPv4 features like Neighbor discovery, Syslog, Telnet, SSH, Web GUI, SNMP, NTP, DNS, DHCP, RADIUS/TACACS, classification and marking, RFC 2544 or equivalent.
13	Should support IPv6 from day one.
14	Configuration through the CLI, console, Telnet, SSH and Web Management and also support UDLD or equivalent, Ethernet Copper diagnostic feature /Cable fault management.
15	Switch should support on-line software reconfiguration to implement changes without rebooting/ modular Operating system
16	Switch should support MAC address based filter and port as well as VLAN based filter / ACLs
17	IEEE802.1 X to allow port based security, MTBF 50000 Hrs,
18	SNMPv1, v2, and v3 and 4 group of RMON support.

19	Power: Input 100-240VAC, 50/60Hz. Operating temp: Min 0-45 Degree C.
20	Switch and fiber module should be UL, EN ,RoHS ,
21	OEM should be in Gartner's Magic Quadrant for wired and wireless LAN for min 5 years. OEM should not be blacklisted by Govt./ PSU

Specification For 8 Port L3 Switch	
1	Shall be 19" Rack Mountable. The switch shall be non-blocking in architecture
2	Min. 8 RJ-45 autosensing 10/100/1000T ports with 2 No of SFP and/or SFP+ as per the design requirement of SI.
3	1 console port with console cable.
4	Shall have switching capacity of 20 Gbps for providing non-blocking performance on all Gigabit ports
5	Shall have minimum 14 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports
6	Shall support 802.3ad (LACP) with upto 4 ports supported in 6 groups
7	IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol and IEEE 802.1s Multiple Spanning Tree Protocol and/ or Should support Rapid ring resiliency protection technology to support 50 millisecond convergence thus video packet should not drop in case path disruption and to be integrated with other switches. As per the design requirement of SI.
8	Shall support minimum 100 active VLAN or IEEE 802.1 Q-based VLAN tagging, Port based VLAN , Protocol based VLAN, Voice VLAN
9	Support for minimum 8 k MAC addresses
10	Should have minimum 4 hardware based queues per port
11	Should support IGMP v1, v2 and v3 for multicast applications, MVR
12	Should support for IPv6/IPv4 features like Neighbor discovery, Syslog, Telnet, SSH, Web GUI, SNMP, NTP, DNS, DHCP, RADIUS/TACACS, classification and marking, RFC 2544 or equivalent.
13	Should support IPv6 from day one.
14	Configuration through the CLI, console, Telnet, SSH and Web Management and also support UDLD or equivalent, Ethernet Copper diagnostic feature /Cable fault management. Should have Static Route for IPv4 & IPv6 from day 1. RIP v4 and RIP v6, OSPF, PIM, VRRP from day 1.
15	Switch should support on-line software reconfiguration to implement changes without rebooting/ modular Operating system

16	Switch should support MAC address based filter and port as well as VLAN based filter / ACLs
17	IEEE802.1 X to allow port based security,MTBF-50000 Hrs
18	SNMPv1, v2, and v3 and 4 group of RMON support.
19	Power: Input 100-240VAC, 50/60Hz. Operating temp: Min 0- 45 Degree C.
20	Switch and fiber module should be - RoHS , UL, EN ,
21	OEM should be in Gartner's Magic Quadrant for wired and wireless LAN for min 5 years. OEM should not be blacklisted by Govt. / PSU.

Response to Pre bid Queries

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
1	APPENDIX -4 Hardware Specifications: Technical Specifications for 15/20 KVA Online UPS System/ Page No.- 84	UPS In failover mode with manual switchover facility	It is requested to kindly Clarify this clause.	As per RFP
2	APPENDIX -4 Hardware Specifications: Technical Specifications for 15/20 KVA Online UPS System: S. No.-7/ Page No.- 84	Input Power Factor - ≥ 0.95 at full load	It is requested to kindly amend the clause to read as " Input Power Factor - ≥ 0.9 " which is as per Industry standards	PI refer corrigendum
3	APPENDIX -4 Hardware Specifications: Technical Specifications for 15/20 KVA Online UPS System: S. No.-9/ Page No.- 84	Input Voltage /Out-put voltage and range - 170-280/230 VAC	It is requested to kindly amend the Input Voltage Range to "330V- 460V" as at Serial No.-7 of the Technical Specifications, Input Phase mentioned is Three Phase with ground. Hence, it is requested to kindly amend the clause accordingly & oblige.	PI refer corrigendum
4	APPENDIX -4 Hardware Specifications: Technical Specifications for 15/20 KVA Online UPS System: S. No.-14/ Page No.- 84	Battery Backup - 8 Hrs	Battery backup of 8 hrs backup (on full rated load) will considerably increase the cost of the UPS Systems. Backup of 4 hours (on full rated load & approx 8 Hrs on 50% of rated load) is considered to be sufficient for all conditions, as continuous power failure for upto 8 hours may not happen as the UPS are to be installed in major districts. Hence, it is requested to kindly amend the battery	PI refer corrigendum

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
			backup maximum upto 4 Hour which is as per industry standards.	
5	APPENDIX -4 Hardware Specifications: Technical Specifications for 15/20 KVA Online UPS System: S. No.-18/ Page No.- 85	Battery Ratings / VAH - Min. 1500 VAH	The specified VAH is on a very lower side. It is requested to kindly amend the Recommended VAH to: ≥ 72000VAH for 15 KVA UPS Systems for 4 Hours backup; ≥ 96000VAH for 20 KVA UPS Systems for 4 Hours backup	PI refer corrigendum
6	APPENDIX -4 Hardware Specifications: Technical Specifications for 15/20 KVA Online UPS System: S. No.-24/ Page No.- 85	Standard - USB port & Mini Slot with software for monitoring with SNMP connectivity	Is SNMP feature required mandatory for all rating of UPS OR it is an OPTIONAL item, kindly clarify. Do the SNMP prices have to be quoted now? Since this has cost implication while quoting. Also, suggest please amend this clause to read as: "USB Port/ RS232 Port/ Mini Slot with software for monitoring with SNMP connectivity" .	SNMP required from day 1. Bidder to quote accordingly
7	APPENDIX -4 Hardware Specifications: Technical Specifications for 15/20 KVA Online UPS System: S. No.-26/ Page No.- 85	LCD Display(inbuilt) - Back-up time, Load, battery, Mode of operation, Fault, KVA, KW, MIN, Battery Status in Bar on display, Temp Info, Load Info	It is requested to kindly amend the clause to read as: "LCD Display (inbuilt) - Load, battery, Mode of operation, Fault, KVA, Battery Status in Bar display, Load Info etc."	Please refer corrigendum
8	APPENDIX -4 Hardware Specifications: Technical Specifications-Voltage Regulator-15/20 KVA: S. No.-20/ Page No.- 88	Display- 2 line alpha numeric common LCD display for all three phases to view Input Voltage– R,Y &B (LL &L-N) Output voltage – R,Y &B (LL&L-N) Current –R,Y&B (output)	In lieu of "2 line alpha numeric common LCD display" we request you to kindly accept "Seven segment LED Digital display" .	As per RFP
9	Hardware and associated standard software (A) point no 5; Page No 70	NVR- 16 channel	Request you to consider Server based Solution instead of NVR Solution. Embedded NVR solution has the following limitations, - NVR is limited to number of cameras, whereas Server is Expandable.	As per RFP

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
			<ul style="list-style-type: none"> - NVR has limitation of Storage you can connect either 2-3 nos of HDD whereas Server can connect to NAS/ SAN and will provide immense storage if required in future if retention period for storage is increased for current 30 days to 90 days. - Any 3rd Party Integration in Future is possible in Servers - NVR Output Bandwidth is limited to 384 Mbps whereas Server is unlimited. - Write Throughput required higher no of drives whereas NVR can support only 2-3 drives, which results in write of video data and there would be frame drops and image drops. - NVR has a limitation of no of client views as well use of fully functionality of clients and whereas in Server as unlimited no of clients and all features will be available in server client. - Total cost of ownership for server will be cost effective than NVR. NVR warranty, AMC maintenance, upgrades will be costly as OEM dependent. - Due to technology updates, OEM may declare NVR end of Life in coming 2-3 Years, maintenance support shall not be available thereafter. 	
10	Page no 8	All data/recording should be available for 30 days	Kindly specify the parameters for recording such as resolution; frame rates, and bandwidth per camera to estimate the Storage.	PI refer corrigendum
11	BOQ Line Item	Armoured cable ,6 core	Kindly clarify this line item in BOQ and its utility in the solution; Specification for the same is required.	As per RFP
12	Fixed Normal – Bullet Camera No. of Streams; Point 13; Page No. 89	Minimum of 3 stream- 2 H.264 & 1 MJPEG	Amendment required is 3 stream- 2 H.265 & 1 MJPEG Justification:Kindly note, H.264 is old technology and all reputed manufacturers have migrated to H.265 compression technology. Kindly	As per RFP

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
			consider H.265 compression as this is the latest. Kindly note cameras with H.264 are Near End of Life products and it will not be possible to maintain the same.	
13	Fixed Normal – Bullet Camera Supported Protocol	1080p/720p/D1/2CIF	We recommend 3 MP Sensor. 2048X1536(3MP) /1080p/720p/D1/2CIF	As per RFP
14	Fixed Normal – Bullet Camera SD Memory Card Feature	64 GB or better	SD Card support should be of 128 GB or better as the cameras requirement is full HD. 128 GB will give Internal storage of approximately 7 days.	As per RFP
15	HD IP PTZ Camera Zoom	20X or better	We recommend to go for 30X or better for viewing long distance.	As per RFP
16	HD IP PTZ Camera Focal Length	20X or better	We recommend to go for 30X or better for viewing long distance.	As per RFP
17	HD IP PTZ Camera IR Distance	100 m or better corresponding to 20X optical zoom	We recommend to go for 150 m or better corresponding to 30X optical zoom	As per RFP
18	HD IP PTZ Camera Dust and water protection	IP 66 and IK10	IK10 is Impact Resistant; We recommend you to write Dust, water protection and Impact resistant	PI refer corrigendum
19	Flame Proof Fixed Camera & Flame Proof PTZ Camera	119 nos. in BOM	We request you to consider Full HD cameras for the entire project and remove flame proof cameras as these are 5 times expensive than full HD cameras. Full HD cameras can be fixed at suitable distance for DG set room coverage. Flame proof cameras are generally used in Licensed areas. All items installed in licensed area must be flame proof like electrical switches, light bulb, flame proof JB, flame proof glands etc. Since these are not mentioned in tender, having only EX Proof Cameras will not suffice the licenses area compliance.	As per RFP
20	OEM Criteria		Camera OEM for Bullet & PTZ Cameras Shall have 100 employees in India	As per RFP
21	OEM Criteria		Camera OEM for Bullet & PTZ shall have service centre in Bihar/Delhi	As per RFP

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
22	OEM Criteria		Camera OEM for Bullet & PTZ shall be present in India since past 10 years. Proof confirming the same like Pan card/Certificate of Incorporation shall be submitted.	As per RFP
23	OEM Criteria		Proposed Camera OEM for Bullet & PTZ Camera should have installed at least 600 cameras in a single project with the proposed VMS.	As per RFP
24	Fixed normal –Bullet IK10 with housing ,junction box, mounting accessories, and power adapters Section2; Page no- 89;S.No.16	Supported Protocol- 1080p/720p/D1/2CIF	Specification requirement has been asked for Supported Protocol, but the description mentioned for supported protocols do not match as description describes about the resolution. Please clarify.	Pl refer corrigendum
25	Fixed normal –Bullet IK10 with housing ,junction box, mounting accessories, and power adapters Section2; Page no- 89;S.No.17	SD Memory Card Feature-64 GB or better to b added;	As the project includes Megapixels IP cameras & extended days of recording, requesting to amend SD Memory Card Feature to 128GB considering more storage. Also, the proposed camera should support Automatic Network Replenishment (ANR) feature, when data will be stored in SD card when the network is down and as soon as the network is re-built, all the missing data should be uploaded to the storage server. Thus, kindly add that Camera should support ANR Function.	As per RFP
26	Fixed normal –Bullet IK10 with housing ,junction box, mounting accessories, and power adapters Section2; Page no- 89;S.No.18	Alarm I/O: Input: 2 ,Output: 1	Please help us to know the purpose of two Alarm inputs, as nowadays all the brands in the market has one alarm input, increasing the number of alarm input, will increase the cost of the project. Thus, to have an economical solution, requesting you to amend the Alarm I/O to Input:1, Output:1.	Pl refer corrigendum
27	Fixed normal –Bullet IK10 with housing ,junction box, mounting accessories, and power adapters Section2; Page no- 89;S.No.20	Image Compression- MJPEG / H.264	H.264 is the old video compression technology, whereas, H.265 is the latest video compression technology. This compression technology which is being used by many leading brands and helps to reduce more than 50% bandwidth and storage consumption, keeping the same image level performance as H.264 Thus, reducing the load over	As per RFP

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
			network and storage complexity. Thus will be more economical solution. Thus, kindly make it mandatory for the quoting H.265 compatible for the Fixed Camera.	
28	Fixed normal –Bullet IK10 with housing ,junction box, mounting accessories, and power adapters Section2; Page no-89;S.No.32	Certifications-CE,FCC	UL is world recognized as a leader in product safety testing and certification. UL provides safety-related certification, validation, testing, inspection, auditing, advising and training services, which is globally accepted. Thus this international certification is mandatory, hence requesting you to amend the Certifications to CE, FCC, UL.	As per RFP
29	Fixed normal –Bullet IK10 with housing ,junction box, mounting accessories, and power adapters	To be added	The ONVIF profiles make it easy to recognize how ONVIF conformant devices and clients are compatible with one another, which make integration with other devices. Hence requesting you to add the ONVIF protocol in the clause.	As per RFP
30	Fixed normal –Bullet IK10 with housing ,junction box, mounting accessories, and power adapters	To be added	The camera must have true WDR feature to avoid dark image of the object which is obtained under the influence of strong light source in the background. Thus, avoid such darkness over the area of interest under the sunlight. Kindly add that the Fixed camera should be support True WDR - 120dB or better	As per RFP
31	Fixed Explosion Proof Camera with camera housing, mounting accessories , power adapters and junction box Section2; Page no-90		An explosion proof camera is one that can be used in a hazardous potentially explosive environment. This means that the camera system will not cause an explosion, rather than survive an explosion outside the enclosure. The cameras used in these environments are designed to prevent ignition of the surrounding gases or dust. Explosion proof cameras are not anti-fire. Normal cameras also provides with stable quality design, and working in low voltage, not easy to trigger fire , also this will increase the cost of the project, requesting you to quote Normal IP66 protected surveillance bullet camera instead of Fixed Explosion Proof Camera.	As per RFP

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
32	Fixed Explosion Proof Camera with camera housing, mounting accessories , power adapters and junction box Section2; Page no-90		As tender mentions Fixed Explosion Proof Camera with camera housing, please help us to understand whether housing should be explosion proof or it should have inbuilt explosion proof.	As per RFP
33	Fixed Explosion Proof Camera with camera housing, mounting accessories , power adapters and junction box Section2; Page no-90; S.No.18	Alarm I/O-Input: 2 Output: 1	Please help us to know the purpose of two Alarm inputs, as nowadays all the brands in the market has one alarm input, increasing the number of alarm input, will increase the cost of the project. Thus, to have an economical solution, requesting you to ammend the Alarm I/O to Input: 1, Output: 1.	As per RFP
34	Fixed Explosion Proof Camera with camera housing, mounting accessories , power adapters and junction box Section2; Page no-90; S.No.32	Certifications-CE, FCC, PESO/CCOE	ATEX Certification ensures that the equipment or protective system is fit for its intended purpose and that adequate information is supplied with it to ensure that it can be used safely, which is globally accepted, thus requesting you to ammend Certifications as CE, FCC, PESO/CCOE/ATEX.	As per RFP
35	IP HD PTZ Camera with camera housing, mounting accessories , Power adapters and illuminator mount Section2; Page no-92; S.No.11	Privacy Mask-16	Privacy masking is a feature found in many IP cameras which is used to protect personal privacy by concealing parts of the image from view with a masked area. 8 privacy mask is enough to serve the purpose instaed of 16 privacy mask. Thus, requesting you to amm the Privacy mask to 8 from 16.	PI refer corrigendum
36	IP HD PTZ Camera with camera housing, mounting accessories , Power adapters and illuminator mount Section2; Page no-92; S.No.25	Supported Protocol-1080p/720p/D1/2CIF	Specification requirement has been asked for Supported Protocol, but the description mentioned for supported protocols do not match as description describes about the resolution. Please clarify.	PI refer corrigendum

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
37	IP HD PTZ Camera with camera housing, mounting accessories , Power adapters and illuminator mount Section2; Page no-92; S.No.26	SD Memory Card Feature-64 GB or better to b added;	As the project includes Megapixels IP cameras & extended days of recording, requesting to amend SD Memory Card Feature to 128GB considering more storage. Also, the proposed camera should support Automatic Network Replenishment (ANR) feature, when data will be stored in SD card when the network is down and as soon as the network is re-built, all the missing data should be uploaded to the storage server. Thus, kindly add that Camera should support ANR Function .	As per RFP
38	IP HD PTZ Camera with camera housing, mounting accessories , Power adapters and illuminator mount Section2; Page no-92; S.No.28	Image Compression-MJPEG & H.264	H.264 is the old video compression technology, whereas, H.265 is the latest video compression technology. This compression technology which is being used by many leading brands and helps to reduce more than 50% bandwidth and storage consumption, keeping the same image level performance as H.264 Thus, reducing the load over network and storage complexity. Thus will be more <u>economical solution</u> . Thus, kindly make it mandatory for the quoting <u>H.265 compatible for the PTZ Camera</u> .	Pl refer corrigendum
39	IP HD PTZ Camera with camera housing, mounting accessories , Power adapters and illuminator mount Section2; Page no-92; S.No.33	Certifications-CE,FCC	UL is world recognized as a leader in product safety testing and certification. UL provides safety-related certification, validation, testing, inspection, auditing, advising and training services, which is globally accepted. Thus this international certification is <u>manadatory</u> , hence requesting you to ammend the <u>Certifications to CE, FCC, UL</u> .	As per RFP
40	IP HD PTZ Camera with camera housing, mounting accessories , Power adapters and illuminator mount Section2; Page no-92;	To be added	The infra red specifies that it will help capture images even in the dark when things are not clear for the human eye, which is very necessary for the surveillance. Thus, requesting you to add <u>IR distance upto 150m</u> .	As per RFP
41	Flame Proof PTZ with integrated housing and		An flame proof camera is one that can be used in a hazardous potentially explosive environment. This means that the camera system will not cause an	As per RFP

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
	mounting accessories Section2;Page no.92		explosion, rather than survive an explosion outside the enclosure. The cameras used in these environments are designed to prevent ignition of the surrounding gases or dust. Explosion proof cameras are not anti fire. Normal cameras also provides with stable quality design, and working in low voltage, not easy to trigger fire , also this will increase the cost of the project, requesting you to quote <u>Normal PTZ Camera</u> instead of <u>Flame Proof PTZ Camera</u> .	
	Flame Proof PTZ with integrated housing and mounting accessories Section2;Page no.92		As tender mentions Flame Proof PTZ Camera with camera housing, please help us to understand whether housing should be explosion proof or it should have inbuilt flame proof.	As per RFP
42	Flame Proof PTZ with integrated housing and mounting accessories Section2;Page no.93,S.No.32	Certifications-CE, FCC, PESO/CCOE	ATEX Certification ensures that the equipment or protective system is fit for its intended purpose and that adequate information is supplied with it to ensure that it can be used safely, which is globally accepted, thus requesting you to amend <u>Certifications as CE, FCC, and PESO/CCOE/ATEX</u> .	As per RFP
43	NVR- 16 channel Section2;Page no.67;S.No.5		Network Video Recorder (NVR)- 16 channel is mentioned as one of the requirement in tender, but there is no technical specification mentioned for NVR in the tender. <u>Kindly add the technical specifications of 16channel-NVR(Network Video Recorder)</u> .	Pl refer corrigendum
44	NVR- 16 channel Section2;Page no.67;S.No.5	To be added	As the application of this tender is in Courts, being very sensitive area, following points must be added in the NVR: 1)Dual OS-Dual Operating System (OS) ensures the reliability of system running. 1) Dual LAN-Dual LAN helps to provide simultaneous live view at local and command and control center, avoids IP conflict as well as provides load balancing. 1)ANR(Automatic Network Replenishment) technology to enhance the storage reliability when	As per RFP

Sl no	RFP document reference	Content in RFP requiring clarification	Query	BSEDC Response
			the network is disconnected 2)Dual power supply to make sure continous surveillance incase power is interrupted. 3)RAID (Redundant Array of Independent Disk) technology as by using RAID we will be able to provide the storage redundancy. Thus, request you to add <u>Dual OS, Dual LAN,ANR, Dual Power Supply and RAID in NVR.</u>	
45	Command Control Center	To be added	As application of this tender is in the sensitive area, request you to do parallel recording at the Command and Control Center, along with the local NVR. Thus, request you to add <u>Recording at Command and Control Center.</u>	As per RFP
46	Video Mangement Software	To be added	H.265 doubles the coding efficiency compared with its predecessor H.264. This means H.265 video saves around 50% of the bit rate at the same quality of coding. Thus we request you to <u>add Video Management Software with H.265 technology.</u>	As per RFP
47	RFPDOC, Pre-qualification Criteria, SI.No.1b, CI-6.1.	Should have submitted EMD of INR 35,00,000.00 as bid security	Pls consider submission of bank guarantee as bid security	Pl refer corrigendum
48	RFPDOC, pg no:-48, CI-8.3.	60% of CAPEX will be released after complete hardware delivery	Pls consider mobilization advance against bank guarantee & 90% CAPEX release on hardware delivery	As per RFP
49	RFPDOC, pg no:-48, CI-8.3.	20% of CAPEX after implementation	Pls consider 10% CAPEX release on implementation	As per RFP
50	RFPDOC, pg no:-48, CI-8.3.	20% of CAPEX after 60months	Pls consider release of CAPEX as 10%PBG will be provided	As per RFP

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
51	A. Hardware and associated standard software (A)	5. NVR- 16 channel	Kindly share the technical specs AND approved make for NVR, also confirm the storage requirement at each site.	PI refer corrigendum
52	A. Hardware and associated standard software (A)	11. 9U Rack 12. 42U Rack	Kindly share the technical specs for Racks.	PI refer corrigendum
53	A. Hardware and associated standard software (A)	14. Dual AC (1.5 Ton) with sequential controller	Kindly share the technical specs AND approved make for AC. Also confirm Split Or Window AC requirement?	As per RFP
54	A. Hardware and associated standard software (A)	15. Light (100 watt)	Kindly share the technical specs AND approved make for lights. Also confirm types lights requirement?	As per RFP
55	Installation & Termination for Indoor & Outdoor Fiber Cabling	<p>1. Excavation and resurfacing of the soil / concrete (as per the requirement or at the depth 1 m)</p> <p>2. Supply and installation of HDPE Duct for underground laying and above surface wherever required</p> <p>3. Cable pulling pit made of reinforced concrete and brick walls with removable covers</p> <p>4. Trenchless digging (manual / with machine) for excavation under public road crossing or Wherever required as per site requirement</p>	<p>1. Please confirm the exact quantity of Soil and concrete resurfacing work.</p> <p>2. Please confirm the exact quantity of the Underground laying OR surface laying.</p> <p>3. Please confirm the the exact quantity concret and bricks work.</p> <p>4. Please confirm the exact quantity of the excavation work. Request to consider all permission require by any authority that will be in BELTRON scope.</p>	As per RFP

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
56	Specification For 8 Port PoE+ Switch	1. Shall be 19" Rack Mountable. The switch shall be non-blocking in architecture and support stacking upto min 8 units. Stacking port should be ready from day 1 so that only by connecting cable - stacking could be achieved.	As per RFP, 8 port switch with 8 unit stack,so total ports requirement is 64 nos 1G interface, but global networking standard will follow stacking for 24 or 48 port switches only. It is inclined to a particular OEM. Which will restrict other OEM'S to participate on this RFP. Justification: 8 Port, 8 unit stacking increase the latency, hopes, decrease network uptime, occupy rack space and power consumption. It will increase the project cost.	PI refer corrigendum
57	Specification For 8 Port PoE+ Switch	2. 8 RJ-45 autosensing 10/100/1000T ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment .Min PoE/PoE+ power budget should be 200 Watt .PoE management - Scheduling of Power Delivery, Power limit by device type and Power delivery prioritization.	This port combination clearly indicates that the combination is related to particular one OEM. Please consider 8 RJ-45 autosensing 10/100/1000T ports with 2 SFP ports. Justifications: This specification is specific to a particular oem, 8 port switch with 2 SFP prort will be a cost effective solution.	PI refer corrigendum
58		19. Power: Input 100-240VAC, 50/60Hz.Should have RPS.	Please consider 24 or 48 port switch with RPS or remove the clause for 8 port switch. Justifications: Globally 8 port commercial switch doesn't have RPS except one OEM.	PI refer corrigendum
59	L2 Industrial 8 Port Switch with POE+	3. 1 console port with console cable, Min. packet buffer 3 MB	Please consider packet buffer 1.5MB instead of 3MB. Justifications: It is restrict other approved OEM to participate.	PI refer corrigendum
60	Specification for 8 Port L3 Switch	1. Shall be 19" Rack Mountable. The switch shall be non-blocking in architecture and support stacking min 8 units. Stacking port should be	As per RFP, 8 port switch with 8 unit stack, so total ports requirement is 64 nos 1G interface, but global networking standard will follow stacking for 24 or 48 port switches only. It is inclined to a particular OEM. Which will restrict other OEM'S to participate on this RFP.	PI refer corrigendum

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
		ready from day 1 so that only by connecting cable - stacking could be achieved	Justification: 8 Port, 8 unit stacking increase the latency, hopes, decrease network uptime, occupy rack space and power consumption. It will increase the project cost.	
61		2. 8 RJ-45 autosensing 10/100/1000T ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment .Min PoE/PoE+ power budget should be 200 Watt .PoE management - Scheduling of Power Delivery, Power limit by device type and Power delivery prioritization.	This port combination clearly indicates that the combination is related to particular one OEM. 8 RJ-45 autosensing 10/100/1000T ports with 2 SFP ports Justifications: This specification is specific to a particular oem, 8 port switch with 2 SFP port will be a cost effective solution.	PI refer corrigendum
62		19. Power: Input 100-240VAC, 50/60Hz.Should have RPS.	Please consider 24 or 48 port switch with RPS or remove the clause for 8 port switch. Justifications: Globally 8 port commercial switch doesn't have RPS except one OEM.	PI refer corrigendum
63	1. Camera Image Sensor	1/2.8" - 1/3 Progressive Scan CMOS Sensor	Please clarify the exact size of the Sensor	PI refer corrigendum
64	13. No. of Streams	Minimum of 3 stream- 2 H.264 & 1 MJPEG	Normally is surveillance- 2 streams are utilized, one for viewing & one for recording. Please consider 2 streams	PI refer corrigendum
65	1. Camera Image Sensor	1/2.8" - 1/3 Progressive Scan CMOS Sensor	Please clarify the exact size of the Sensor	PI refer corrigendum
66	17. SD Memory Card Feature	64 GB or better	Only a particular manufacturer with PESO certification has 64GB onboard storage for Flame Proof Fixed & PTZ Cameras. Request you to reduce this to 32GB or better to ensure more options of OEM to offer.	PI refer corrigendum

Sl no	RPF document reference	Content in RFP requiring clarification	Query	BSEDC Response
67	1. Camera Image Sensor	1/2.8" - 1/3 Progressive Scan CMOS Sensor	Please clarify the exact size of the Sensor	As per RFP
68	1. Camera Image Sensor	1/2.8" - 1/3 Progressive Scan CMOS Sensor	Please clarify the exact size of the Sensor	As per RFP
69	36. Dust and water protection	IP 66 and IK10	Cutting across all manufacturers, flame proof enclosures are made of Stainless Steel of different Grades like SS 316, SS 306 etc. So no additional vandal proof certification (IK10) is issued against that as Stainless Steel is hard material & well protected. Request you to remove IK 10 certificate.	Pl refer corrigendum
70	25. SD Memory Card Feature	64 GB or better	Only a particular manufacturer with PESO certification has 64GB onboard storage for Flame Proof Fixed & PTZ Cameras. Request you to reduce this to 32GB or better to ensure more options of OEM to offer.	Pl refer corrigendum
71			Please confirm the exact Size, Make and technical specifications of the Junction Box. Is it require all Ex-proof CCOE/PESO approved JB or Wheather-Proof IP65 JB? Please confirm.	As per RFP
72	Specification For 8 Port PoE+ Switch, Point NO. 1, Page No. 78	Stacking port should be ready from day 1	Deletion Request: The switch placement in the network will be based on the positioning of the cameras. And the cameras will never be placed in the same location, rather will be spread across the premises. Thus, the switches will also have to placed accordingly. So the stacking will never be required in such a scenario. We do stacking primarily in places where the end-points are heavily clustered, while in this case, the end-points will be sporadic. Hence, request to remove the stacking support clause from the RFP	Pl refer corrigendum

73	Specification For 8 Port PoE+ Switch, Point NO. 2, Page No. 79	8 RJ-45 autosensing 10/100/1000T ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment	<p>Modification request: Presently in RFP there are two types of 8 port switches, one is for Indoor deployment and the other is asked as Industrial grade for outdoor deployment. But the functionality and port requirement for both is same. But in RFP one switch is asked with 4 x 10G ports and other with 4 x 1G uplink port. Considering both these switches are required to connect cameras, so even running at full HD on all 8 downlink ports, Giga-Ethernet uplink ports are more than sufficient and there is no need of 10G ports for surveillance at access layer. Moreover, we also recommend the uplinks to be a mix of copper and fiber. Hence uplink should be 2 X 1G Copper + 2x 1G SFP for both the 8 port switches. Request to modify the clause to " 8 RJ-45 autosensing 10/100/1000T ports with 2 X 1G Copper + 2x 1G SFP ports."</p>	
74	Specification For 8 Port PoE+ Switch, Point NO. 4, Page No. 79	Shall have switching capacity of 96 Gbps for providing non-blocking performance on all Gigabit ports	<p>Modification request: Considering the 8 Port switch with 4 GE uplink ports, the performance maximum can be a 24 Gbps. Same is rightly asked Industrial grade 8 port switches. So in similar manner the performance of 8 port Indoor switches also should be 24 Gbps instead of 96 Gbps, which is presently mentioned in RFP. Request to modify the clause to " Shall have switching capacity of 24 Gbps for providing non-blocking performance on all Gigabit ports"</p>	PI refer corrigendum
75	Specification For 8 Port PoE+ Switch, Point NO. 5, Page No. 79	Shall have minimum 65 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports	<p>Modification Request: Considering the revised throughput of 24 Gbps, forwarding rate of switch should also be changed accordingly. This should be changed to 17 Mpps which will be more than sufficient to handle the traffic forwarding. Request you to modify the clause to "Shall have minimum 17 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports"</p>	PI refer corrigendum

76	Specification For 8 Port PoE+ Switch, Point NO. 8, Page No. 79	Shall support minimum 2 K active VLAN	Modification Request: The switch will terminate only IP cameras and they can easily be placed in few vlans itself. Hence, this ask for 2000 Vlans is not practical on 8/ 24 port switch. This should be reduced to 100. Request you to modify the clause to " <i>Shall support minimum 100 active VLAN.</i> "	PI refer corrigendum
77	Specification For 8 Port PoE+ Switch, Point NO. 10, Page No. 79	Should have minimum 8 hardware based queues per port	Modification request: Since, the network will be primarily carrying video traffic and some control traffic, there is no need to have 8 egress queues. 4 egress queue support will be more than enough to address the need for traffic prioritization Request you to modify the clause to " <i>Should have minimum 4 egress queues per port</i> "	PI refer corrigendum
78	Specification For 8 Port PoE+ Switch, Point NO. 2, Page No. 79	Min PoE/PoE+ power budget should be 200 Watt	Modification request: The asked POE budget is unnecessarily high which will increase the cost of overall solution. Majority of cameras i.e. fixed camera only require POE power and it would only be PTZ cameras which may have POE+ requirement. Hence, the POE budget should be reduced to 124 W (15.4x8) instead and switch should have facility of POE+. Request you to modify the clause to " <i>Min PoE/PoE+ power budget should be 124 Watt</i> "	PI refer corrigendum
79	Specification For 8 Port PoE+ Switch, Point NO. 7, Page No. 79	Should support Rapid ring resiliency protection technology	Deletion Request: This is primarily required in metro-Ethernet environment and is not a standard feature in the enterprise switches. The layer 2 switches should rather support loop protection and prevention mechanism which is required to protect the switches from any kind of layer 2 loops happening in the network	PI refer corrigendum
80	Specification For 8 Port PoE+ Switch, Point NO. 20, Page No. 79	Switch and fiber module should be WEEE complied	Deletion Request: There is no requirement for the WEEE standard. Pls remove this from the RFP clause	PI refer corrigendum

81	Specification For 8 Port PoE+ Switch, Compliance	Addition Request: Common criteria Compliance	<p>Addition Request: The switch should be minimum EAL2 /NDPP certified. Common Criteria is an international standard for evaluating IT product security and reliability. It is recognized by multiple countries around the world including India. Many government customers around the world consider Common Criteria a mandatory requirement for purchasing network security products so same can't be relaxed. Applicable Protection Profile certified under the Common Criteria Evaluation Program is added in firewall as well.</p>	As per RFP
82	Specification For 8 Port PoE+ Switch, IPv6 Features	Addition Request: The switch should have IPv6 feature readiness like IPv6 First-hop Security with RA Guard, DHCP Guard, . from Day 1	<p>Addition request: For the successful IPv6 deployments at government networks, it is important that the IPv6 deployments are secure and are of a service quality that equals that of the existing IPv4 infrastructure There should functional parity between IPv4 and IPv6, so switch should support basic IPv6 First Hop Security features to extend the advanced threat protection to IPv6.</p>	As per RFP
83	Specification For 8 Port PoE+ Switch, Point NO. 19, Page No. 79	Power: Input 100-240VAC, 50/60Hz. Should have RPS. Operating temp: Min 0-50 Degree C.	<p>Considering the deployment of 8-port switches, redundant power supply won't be the essential feature. Further in RFP it is defined that bidder will have to install Centralized UPS and provide power to 8 Port Switches so there is no redundant power source available so this features won't be that useful. Similarly standard operating temp available for indoor enterprise switches is up to 45 Degree C. So considering the wider participation you are requested to modify the same to "<i>Power: Input 100-240VAC, 50/60Hz. Operating temp: Min 0-45 Degree C</i>".</p>	PI refer corrigendum

84	Specification For 8 Port PoE+ Switch, IPv6 Features	The switch should be IPv6 Ready Logo Phase 2 certified	<p>Addition request: The switch should be IPV6 Ready Logo certified. For the successful IPv6 deployments at government networks, it is important that the IPv6 deployments are secure and are of a service quality that equals that of the existing IPv4 infrastructure There should functional parity between IPv4 and IPv6, so switch should support basic IPv6 First Hop Security features to extend the advanced threat protection to IPv6.</p>	As per RFP
85	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 1, Page No. 80	Rugged outdoor Din Rail mountable switch with Min 8 10/100/1000 Base-T port of PoE+ and (2+2) SFP Port	<p>Modification Request: As mentioned in Clause 2 of this switch, please allow both PoE/ POE+ capability. Request you to modify the clause to " Rugged outdoor Din Rail mountable switch with Min 8 10/100/1000 Base-T port of PoE/PoE+ and (2+2) SFP Port</p>	PI refer corrigendum
86	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 2, Page No. 80	Min PoE/PoE+ power budget should be 200 Watt	<p>Modification request: The asked POE budget is unnecessarily high which will increase the cost of overall solution. Majority of cameras i.e. fixed camera only require POE power and it would only be PTZ cameras which may have POE+ requirement. Hence, the POE budget should be reduced to 124 W (15.4x8) instead and switch should have facility of POE+. Request you to modify the clause to " <i>Min PoE/PoE+ power budget should be 124 Watt</i>"</p>	PI refer corrigendum
87	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 8, Page No. 80	Shall support minimum 2 K active VLAN	<p>Modification Request: The switch will terminate only IP cameras and they can easily be placed in few vlans itself. Hence, this ask for 2000 Vlans is not practical on 8/ 24 port switch. This should be reduced to 100. Request you to modify the clause to "<i>Shall support minimum 100 active VLAN.</i>"</p>	PI refer corrigendum

88	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 10, Page No. 80	Should have minimum 8 hardware based queues per port	Modification request: Since, the network will be primarily carrying video traffic and some control traffic, there is no need to have 8 egress queues. 4 egress queue support will be more than enough to address the need for traffic prioritization Request you to modify the clause to " <i>Should have minimum 4 egress queues per port</i> "	PI refer corrigendum
89	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 3, Page No. 80	Min. packet buffer 3 MB	Deletion Request: This clause is not required and should be removed.	PI refer corrigendum
90	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 20, Page No. 80	Switch and fiber module should be WEEE complied	Deletion Request: There is no requirement for the WEEE standard. Pls remove this from the RFP clause	PI refer corrigendum
91	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 15, Page No. 80	Reverse Power protection and Transient protection > 15 W peak	Deletion Request: The requirement expected from this clause is not clear, this terminology is not commonly used in switching, so you are requested to remove this clause. Or please advise what is expected with this clause.	PI refer corrigendum
92	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 19, Page No. 80	Operating temp: Min minus 5 - plus 75 Degree C .Power supply should be industrial grade only.	Modification Request: Standard operating temp available for outdoor switches is up to 70 Degree C. So considering the wider participation you are requested to modify the same to " <i>Operating temp: Min minus 5 to plus 70 Degree C .Power supply should be industrial grade only.</i> "	PI refer corrigendum

93	Specification for L2 Industrial 8 Port Switch with POE+, Page No. 80, Industrial Grade Standards	The switch should have the Industrial grade certification/ Standards	Addition request: RFP has specifically asked for 61 Industrial grade switches but in these switches none of the industrial grade standard are defined for Shock, vibration, environmental and compliance prospective. Switch should support shock and vibration standards such as IEC 60068-2-27 (Operational Shock, Non-Operational Shock), IEC 60068-2-6, IEC 60068-2-64, EN61373 (Operational Vibration, Non-operational Vibration). In addition various industrial Ethernet standards as well such as NEMA TS2, ODVA Industrial EtherNet/IP, ABB IT Certificate etc should be considered.	As per RFP
94	L2 24 Port Switch , Point No. 1, Page No. 81	24 RJ-45 autosensing 10/100/1000 (simultaneous) ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment.	Modification Request: Considering the requirement there is no need to 10 G port in Switches. Hence request you to modify the same to " 24 RJ-45 autosensing 10/100/1000 (simultaneous) ports with (2+2) Copper/ SFP ports."	PI refer corrigendum
95	L2 24 Port Switch , Point No. 4, Page No. 81	Shall have switching capacity of 128 Gbps for providing non-blocking performance on all Gigabit ports	Modification Request: Considering the interface types, the switching throughput asked for is on a very higher side. This should be reduced to 88 Gbps instead	PI refer corrigendum
96	L2 24 Port Switch , Point No. 5, Page No. 81	Shall have minimum 90 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports	Modification Request: Considering the revised throughput of 88 Gbps, forwarding rate of switch should also be changed accordingly. This should be changed to 65 Mpps which will be more than sufficient to handle the traffic forwarding. Request you to modify the clause to "Shall have minimum 65 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports"	PI refer corrigendum

97	L2 24 Port Switch , Point No. 7, Page No. 81	Should support Rapid ring resiliency protection technology	Modification request: This is primarily required in metro-ethernet environment and is not a standard feature in the enterprise switches. The layer 2 switches should rather support loop protection and prevention mechanism which is required to protect the switches from any kind of layer 2 loops happening in the network.	PI refer corrigendum
98	L2 24 Port Switch , Point No.8, Page No. 81	Shall support minimum 2 K active VLAN	Modification Request: Looking at the number of the ports being asked for in the layer 2 switch, the need for 2000 active vlans is on a very higher side and will definitely not be required. Even if we consider multiple vlans per port, the vlan requirement should not cross 100. Hence, request to reduce the requirement to 100 instead.	PI refer corrigendum
99	L2 24 Port Switch , Point No.20, Page No. 81	Switch and fiber module should be WEEE complied	Deletion Request: There is no requirement for the WEEE standard. Pls remove this from the RFP clause	PI refer corrigendum
100	L2 24 Port Switch , Point No.21, Page No. 81, Compliance	Addition Request: Common criteria Compliance	Addition Request: The switch should be minimum EAL2 /NDPP certified. Common Criteria is an international standard for evaluating IT product security and reliability. It is recognized by multiple countries around the world including India. Many government customers around the world consider Common Criteria a mandatory requirement for purchasing network security products so same can't be relaxed. Applicable Protection Profile certified under the Common Criteria Evaluation Program is added in firewall as well.	As per RFP

101	L2 24 Port Switch , Point No.21, Page No. 81, PV6 Features	Addition Request: The switch should have IPv6 feature readiness like IPv6 First-hop Security with RA Guard, DHCP Guard, . from Day 1	Addition request: For the successful IPv6 deployments at government networks, it is important that the IPv6 deployments are secure and are of a service quality that equals that of the existing IPv4 infrastructure. There should functional parity between IPv4 and IPv6, so switch should support basic IPv6 First Hop Security features to extend the advanced threat protection to IPv6.	As per RFP
102	L2 24 Port Switch , Point No.19, Page No. 81	Power: Input 100-240VAC, 50/60Hz.Should have RPS. Operating temp: Min 0-50 Degree C.	Considering the deployment of 8-port switches, redundant power supply won't be the essential feature. Further in RFP it is defined that bidder will have to install Centralized UPS and provide power to 8 Port Switches so there is no redundant power source available so this features won't be that useful. Similarly standard operating temp available for indoor enterprise switches is up to 45 Degree C. So considering the wider participation you are requested to modify the same to " <i>Power: Input 100-240VAC, 50/60Hz. Operating temp: Min 0-45 Degree C</i> ".	PI refer corrigendum
103	L2 24 Port Switch,IPV6 Features	Addition Request: The switch should be IPv6 Ready Logo Phase 2 certified	Addition request: The switch should be IPV6 Ready Logo certified. For the successful IPv6 deployments at government networks, it is important that the IPv6 deployments are secure and are of a service quality that equals that of the existing IPv4 infrastructure. There should functional parity between IPv4 and IPv6, so switch should support basic IPv6 First Hop Security features to extend the advanced threat protection to IPv6.	As per RFP
104	8 port L3 Switch, Point No. 1, Page No. 83	Stacking port should be ready from day 1 so that only by connecting cable - stacking could be achieved.	Deletion Request: Stacking is normally done on Layer 2 devices and is not a standard feature on the Layer 3 switches. Hence, request to remove the clause from the RFP	PI refer corrigendum

105	8 port L3 Switch, Point No. 2, Page No. 83	Min. 8 RJ-45 autosensing 10/100/1000T ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment.	Modification Request: Considering the requirement there is no need to 10 G port in Switches. Moreover, we also recommend the uplinks to be a mix of copper and fiber. Hence uplink should be 2 X 1G Copper + 2x 1G SFP for both the 8 port switches. Request to modify the clause to "8 RJ-45 autosensing 10/100/1000T ports with 2 X 1G Copper + 2x 1G SFP ports."	PI refer corrigendum
106	8 port L3 Switch, Point No. 4, Page No. 83	Shall have switching capacity of 96 Gbps	Modification request: Considering the 8 Port switch with 4 GE uplink ports, the performance maximum can be a 24 Gbps. Same is rightly asked Industrial grade 8 port switches. So in similar manner the performance of 8 port Indoor switches also should be 24 Gbps instead of 96 Gbps, which is presently mentioned in RFP. Request to modify the clause to " Shall have switching capacity of 24 Gbps for providing non-blocking performance on all Gigabit ports"	PI refer corrigendum
107	8 port L3 Switch, Point No. 5, Page No. 83	Shall have minimum 65 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports	Modification Request: Considering the revised throughput of 24 Gbps, forwarding rate of switch should also be changed accordingly. This should be changed to 17 Mpps which will be more than sufficient to handle the traffic forwarding. Request you to modify the clause to "Shall have minimum 17 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports"	PI refer corrigendum
108	8 port L3 Switch, Point No. 7, Page No. 83	Should support Rapid ring resiliency protection technology	Modification request: This is primarily required in metro-ethernet environment and is not a standard feature in the enterprise switches. The layer 3 switches should rather support Layer 3 loop protection and prevention mechanism which is required to protect the switches from any kind of layer 3 loops happening in the network.	As per RFP

109	8 port L3 Switch, Point No. 8, Page No. 83	Shall support minimum 2 K active VLAN	Modification Request: The switch will terminate only IP cameras and they can easily be placed in few Vlans itself. Hence, this ask for 2000 Vlans is not practical on 8/ 24 port switch. This should be reduced to 100. Request you to modify the clause to <i>"Shall support minimum 100 active VLAN."</i>	PI refer corrigendum
110	8 port L3 Switch, Point No. 20, Page No. 84	Switch and fiber module should be WEEE complied	Deletion Request: There is no requirement for the WEEE standard. Pls remove this from the RFP clause	PI refer corrigendum
111	8 port L3 Switch, Point No. 21, Page No. 84, Compliance	Addition Request: Common criteria Compliance	Addition Request: The switch should be minimum EAL2 /NDPP certified. Common Criteria is an international standard for evaluating IT product security and reliability. It is recognized by multiple countries around the world including India. Many government customers around the world consider Common Criteria a mandatory requirement for purchasing network security products so same can't be relaxed. Applicable Protection Profile certified under the Common Criteria Evaluation Program is added in firewall as well.	As per RFP
112	8 port L3 Switch, Point No. 10, Page No. 84	Should have minimum 8 hardware based queues per port	Modification request: Since, the network will be primarily carrying video traffic and some control traffic, there is no need to have 8 egress queues. 4 egress queue support will be more than enough to address the need for traffic prioritization Request you to modify the clause to <i>" Should have minimum 4 egress queues per port"</i>	PI refer corrigendum
113	8 port L3 Switch, , Page No. 84, IPV6 features	Addition Request: The switch should have IPv6 feature readiness like IPv6 First-hop Security with RA Guard, DHCP Guard, . from Day 1	Addition request: For the successful IPv6 deployments at government networks, it is important that the IPv6 deployments are secure and are of a service quality that equals that of the existing IPv4 infrastructure There should functional parity between IPv4 and IPv6, so switch should support	As per RFP

			basic IPv6 First Hop Security features to extend the advanced threat protection to IPv6.	
114	8 port L3 Switch, Point No. 19, Page No. 84	Power: Input 100-240VAC, 50/60Hz.Should have RPS. Operating temp: Min 0-50 Degree C.	Considering the deployment of 8-port switches, redundant power supply won't be the essential feature. Further in RFP it is defined that bidder will have to install Centralized UPS and provide power to 8 Port Switches so there is no redundant power source available so this features won't be that useful. Similarly standard operating temp available for indoor enterprise switches is up to 45 Degree C. So considering the wider participation you are requested to modify the same to " <i>Power: Input 100-240VAC, 50/60Hz. Operating temp: Min 0-45 Degree C</i> ".	PI refer corrigendum
115	Specification For 8 Port PoE+ Switch, IPv6 Features	The switch should be IPv6 Ready Logo Phase 2 certified	Addition request: The switch should be IPV6 Ready Logo certified. For the successful IPv6 deployments at government networks, it is important that the IPv6 deployments are secure and are of a service quality that equals that of the existing IPv4 infrastructure. There should functional parity between IPv4 and IPv6, so switch should support basic IPv6 First Hop Security features to extend the advanced threat protection to IPv6.	As per RFP
116	Appendix-4 Hardware Specifications- Fixed normal Bullet, Page 89, point 6	Minimum Illumination Color- 0.4 Lux or better	Modification Request: Kindly Accept Color: 0.5 lux or better also, Accepting this clause will allow maximum participation from the leading camera's OEMs.	PI refer corrigendum

117	Appendix-4 Hardware Specifications- Fixed normal Bullet, Page 89, point 13	Number of streams - Minimum of 3 stream- 2 H.264 & 1 MJPEG	Modification Request: Considering the functionality, 2 streams from the cameras would be sufficient from the camera. And further in IP server based deployment, cameras can send unicast stream to server and server can handle incase multiple stream to be processed. So kindly accept number of streams to be at least minimum of 2 streams- 1 H.264 & 1 MJPEG. Also this change does not affect the functionality of the system.	As per RFP
118	Appendix-4 Hardware Specifications- Fixed normal Bullet, Page 89, point 34	Ambient operating temperature- -5 °C ~ +55 °C	Modification Request: Request to also accept the ambient operating temperature be - -10 °C ~ +50 °C. This change does not affect the functionality of the system	As per RFP
119	Appendix-4 Hardware Specifications- Fixed normal Bullet, Page 89	Add Point- Audio Analytics	Addition Request: Request you to please consider adding the advanced functionalities requirement of Audio Analytics - Camera should support audio analytics like Gunshot detection, Aggression, Glass Break, Car Alarm. Camera should support min 1 functionality at a time. However, these may be enabled as and when required with additional software purchase order. This will help enforce better security environment for public.	As per RFP
120	Appendix-4 Hardware Specifications- Fixed normal Bullet, Page 89	Add Point- Audio Detection	Addition Request: Request you to please consider adding the advanced functionalities requirement of Audio Detection - Camera should support to trigger events when it detects noise that exceeds a set volume threshold. However, this feature may be enabled as and when required with additional software purchase order. This will help enforce better security environment for public.	As per RFP

121	Appendix-4 Hardware Specifications- Fixed normal Bullet, Page 89	Add Point- Onboard Basic Video Analytics	Addition Request: Request you to please consider adding the advanced functionalities requirement of Onboard basic video analytics - Camera should ably support to trigger events when it detects activities or behaviors that match predefined rules. However, these shall be enabled as and when required with additional software purchase order. This will help enforce better security environment for public.	As per RFP
122	Appendix-4 Hardware Specifications- Fixed normal Bullet, Page 89	Add Point- SIP Client feature	Addition Request: Request you to please consider adding the advanced functionalities of SIP client feature- Camera should support to send and receive audio to and from an external SIP client device. This will help to establish two way audio communication to control room and solve emergency situations proactively and smartly.	As per RFP
123	Appendix-4 Hardware Specifications- Fixed normal Bullet, Page 89	Add Point- Video Tag	Addition Request: Request you to consider addition of advanced functionality of Video Tag- Camera should support to ably apply a tag (which appears as on-screen text) to a live video image based on an external trigger. This feature will enable system to smartly and efficiently manage and retrieve key information of archived videos, thus enabling quick search.	As per RFP
124	Appendix-4 Hardware Specifications- Fixed normal Bullet, Page 89	Add Point- Video Summarizer	Addition Request: Request you to please consider adding advanced functionality of Video Summarizer feature - Camera should support to generate snapshots from video recordings and uploads the snapshots to an FTP server. This will enable in quick troubleshooting and faster execution in important events.	As per RFP
125	Appendix-4 Hardware Specifications- Fixed normal Bullet, Page 89	Add Point- Local Video Player	Addition Request: Request you to consider addition of Local Video Player feature - Camera should support to view video from continuous recordings from the IP camera web-based user interface. This will make system more agile and resilient.	As per RFP

126	Appendix-4 Hardware Specifications- Fixed normal Bullet, Page 89	Add Point- Programming Language support	<p>Addition Request: Request you to please consider addition of advanced functionality of Programming Language Support - Camera should support to enables an IP camera to run scripts that are created in the Lua programming language. This will help in better future system planning and allow best of the best technology players to integrate new features with your system for state of the art offerings.</p>	As per RFP
127	Section 4-b)Solution Components-iii) Storage, Page 14	Storage: Surveillance HDD, NVR	<p>Addition Request: Our observation is that for maintaining the security of 61 District and subcourts across the state with high redundancy in mind, NVR is a low end solution, and not suitable for high flexibility high storage solutions. Also the video analytics is weakness part of NVR based proposal. It is easy for VMS to perform and seamlessly integrate with the video analysis to provide best quality surveillance with high scalability. Hence, Request to please also consider server based VMS solution for the optimal results.</p>	As per RFP
128	APPENDIX -4 Hardware Specifications, Page 77	Addition Request: Video Surveillance Manager Software Specifications	<p>Addition Request: Wanted to bring to your notice that there is no mention of specs for Video surveillance Manager. To achieve the vision of ensuring highly effective security surveillance operations with accurate flow of information and communication, it is important to bring forth state of the art features of VMS software in the industry which helps building a futuristic solution for surveillance. We have discussed few such relevant VMS features in below points considering the Bihar courts visions.</p>	As per RFP
129	Add Section- Software Specifications of VMS	Add Point- Open source	<p>Addition Request: Request you to please consider addition of "Video Management Software should be an Open source like RHEL, Linux-based video management software system." This will ensure better future integration with state of the art vendor agnostic feature developments for better physical security of system.</p>	As per RFP

130	Add Section- Software specifications of VMS	Add Point - Scalability	<p>Addition Request: Request you to please consider addition of : “ The System shall support the scalability of additional camera installation beyond the originally planned capacity. One single Video Management system shall be expandable to 10,000 cameras in single file system.” This will ensure better system planning.</p>	As per RFP
131	Add section – Software specifications of VMS	Add Point- Forensic Analysis tools	<p>Addition Request: Request you to please consider addition of : “ VMS should have Forensic Analysis Tools, Thumbnail Search—Use Thumbnail Search to quickly locate specific scenes or events in recorded video without fast-forwarding or rewinding., Clip Management—Use Clip Management to view, download and delete MP4 clips. that are stored on the server and Motion Analysis—Use Motion Analysis to view a summary of motion events for recorded video.” This will help ensure better problem resolution and faster search assistance.</p>	As per RFP
132	Add section- Software specifications of VMS	Add Point- Open API	<p>Addition Request: Request to please consider addition of point: “The system shall provide for integration with other software applications through an open and published Application Programming Interface (API).” This will ensure investment protection and futuristic feature-rich solution for video surveillance</p>	As per RFP
133	Appendix-4 Hardware Specifications- IP HD PTZ Camera, Page 92, Point 32	Maximum Number of user accounts:20	<p>Modification Request: Request you to please accept Maximum number of user accounts as 10. Also this change does not affect the functionality of the system.</p>	As per RFP

134	Appendix-4 Hardware Specifications- IP HD PTZ Camera, Page 92, Point 34	Power source and consumption: Should support 802.3at (PoE+) , AC 24V/12VDC	Modification Request: Request you to please accept :“Power source and consumption: Should support 802.3at(PoE+) or UPOE(60W)”. Accepting this clause will allow maximum participation from the leading camera's OEMs.	As per RFP
135	Appendix-4 Hardware Specifications- IP HD PTZ Camera, Page 92, Point 39	OEM Criterion: “OEM should have registered office in India for last five years. Should not be blacklisted by Govt/PSU. In case of global manufacturer, OEM presence in India should be through a subsidiary, no JV/Distribution agreement/Consortium is allowed.”	Modification Request: Request you to kindly accept OEM Criterion: “OEM should have registered office in India for last three years. Should not be blacklisted by Govt/PSU. In case of global manufacturer, OEM presence in India should be through a subsidiary, no JV/Distribution agreement/Consortium is allowed.” Accepting this clause will allow maximum participation from the leading camera's OEMs.	As per RFP
136	APPENDIX -3 Bill of Material (Tentative), Page 75	NVR- 16 channel	Deletion Request: NVR based architecture is envisaged for this project. NVR is legacy system and have several limitation in comparison to server based IP Surveillance such as : • Has limitations like scalability, security, flexibility. It will work only for the limited channels • Enhanced capability of video surveillance software can't be provided through NVR and it has embedded software with very minimum capabilities. • Also, NVR being an out-going technology are not recommended from future expansion & long term operations perspective.	As per RFP
137	APPENDIX -3 Bill of Material (Tentative), Page 75	Addition Request: Server for VSM	Addition Request: •IP Surveillance system should work on server platform which support virtualization and not on NVR. Server should be open standard x86 based platform.	As per RFP

<p>138</p>	<p>Addition of Integrated Command & Control center</p>	<p>Considering the present requirement where in CCTV need to set up at 61 Sub & District Courts in Bihars, considering the scale it is recommended to have Integrated Control and Command Centre (ICCC) so that various locations can be integrated and center monitoring environment can be provided for all police station as an when required. ICCC will help respond to situations/incidents effectively and would help aiding faster decision making. The system will help in following area:</p> <ul style="list-style-type: none"> a. Centrally Monitoring Cameras Systems b. GIS mapping of all the locations on GIS map c. Alert management for health of device d. Immediate Response and Management System e. Integration with NVR Video Management 	<p>The video surveillance system envisaged to cover identified locations. The entire video feed shall be monitored centrally at HQ Level. Integrated Control and Command Centre Software will help integrate CCTV infrastructure by managing multiple locations. It would enable data collection and synthesis by translating south-facing street level device data signals into a user-friendly language compatible with north-facing application/solution providers that can be turned around to manage the devices on the ground level.</p>	<p>As per RFP</p>
<p>139</p>	<p>NMS Server Min. Hardware Requirement, Point No. 2 , Page No. 83</p>	<p>Must support , Windows , Linux , Redhat, VMware , Hyper -V</p>	<p>Modification Request: This point should be rephrased as below : The server hardware should support Windows/Linux on physical appliance mode , while VMware/Hyper-V on virtual appliance mode</p>	<p>As per RFP</p>

140	Section: APPENDIX-3 Bill of Material (Tentative) Page No: 75 & 76	24-Port UTP Patch Panel & UTP I/O	24-Port UTP Patch Panel & UTP I/O are not included in the Bill of Materials. Please specify the required quantity of 24-Port UTP Patch Panel & UTP I/O.	As per RFP
141	Section: APPENDIX-4 Hardware Specifications Page No: 77	Specifications of I/O Devices: Cat6 compliant Data-gate Jacks	UTP cable & Patch Panel are of Cat6A type. But Jacks in the I/O is Cat6 type which will be the bottleneck in the channel. Requesting you to change the Jack in the I/O from Cat6 type to Cat6A type.	As per RFP
142	Section: APPENDIX-3 Bill of Material (Tentative) Page No: 75 Section: APPENDIX-4 Hardware Specifications Page No: 77	Cat6A UTP Patch Cord	Cat6A UTP Patch cords are required but not included in the Bill of Materials & Hardware Specifications. Requesting you to include Cat6A UTP Patch Cords in the Bill Of Materials & also specify the quantity & length of the UTP Patch Cords.	As per RFP
143	Section: APPENDIX-4 Hardware Specifications Page No: 78	Specifications of LIU: Rack Mount & Wall mount Both Option	LIU comes either in Rack mount OR in Wall Mount Option. In Sl.no.11 of Bill of Materials, LIU are included as accessories inside 9U Rack which will be Rack Mount type.Please clarify whether only Rack mount type LIU will be included.	As per RFP
144	Section: APPENDIX-4 Hardware Specifications Page No: 78	Specifications of LIU	LIU are not included as a separate item in the Bill of Materials. Please specify the required quantity of the LIU.	As per RFP
145	Section: APPENDIX-4 Hardware Specifications Page No: 78	Optical Fiber Patch Cord , SM , LC-LC	Optical Fiber Patch Cords are not included in the Bill of Materials. Please specify the required quantity of the same.	As per RFP

146	<p>Section: APPENDIX-3 Bill of Material (Tentative) Page No: 75 & 76</p> <p>Section: APPENDIX-4 Hardware Specifications Page No: 77 to 94</p>	Pigtail	<p>Single Mode Fiber Optic Pigtails will be required but not included in the Bill of Materials & Hardware Specifications. Requesting you to please include the same in the Bill of Materials. Also requesting you to specify the quantity & length of the Pigtails.</p>	As per RFP
147	<p>Section: APPENDIX-4 Hardware Specifications Page No: 78</p>	<p>Optical Fiber Patch Cord, SM, LC-LC: Fiber: SM E9/125 G.652.D (OS2).</p>	<p>Single Mode OS2 type Optical Fiber Patch Cords are included in the specification. But in OFC-6 Core Single Mode cable, type (OS1/OS2) is not specified. Requesting you to specify single Mode OS2 type for OFC-6Core cable & Pigtail.</p>	As per RFP
148	<p>Section: APPENDIX-4 Hardware Specifications For 8 Port PoE+ Switch Page No: 78 to 79</p>	<p>Shall be 19" Rack Mountable. The switch shall be non-blocking in architecture and support stacking upto min 8 units. Stacking port should be ready from day 1 so that only by connecting cable - stacking could be achieved.</p>	<p>Requesting you to change the number of stacking unit from 8 to 6. This is supported by most of the industry vendors & will allow more vendors to qualify.</p>	Please refer corrigendum
149	<p>Section: APPENDIX-4 Hardware Specifications For 8 Port PoE+ Switch Page No:79</p>	<p>8 RJ-45 autosensing 10/100/1000T ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment .Min PoE/PoE+ power budget should be 200 Watt .PoE management - Scheduling of Power Delivery, Power limit by device type and Power delivery prioritization</p>	<p>All the cameras will have 10/100Mbps interface & it is a 8-port Switch. So 1Gbps SFP ports will be sufficient for uplink & downlink. Requesting you to remove 10G & SFP+ options & allow only 1G SFP option.</p>	Please refer corrigendum

150	Section: APPENDIX-4 Hardware Specifications For 8 Port PoE+ Switch Page No:79	Shall have switching capacity of 96 Gbps for providing non-blocking performance on all Gigabit ports	96Gbps of Switching capacity is not required in the switch as per the interface requirement. Also 65Mpps throughput is asked for wire-speed performance. By doing the calculation for a 64Byte packet size, required switching capacity is coming as 88Gbps. Requesting you to reduce it to 88Gbps for providing non-blocking performance on all gigabit ports	Please refer corrigendum
151	Section: APPENDIX-4 Specification For L2 Industrial 8 Port Switch with POE+ Page No:80	1 console port with console cable, Min. packet buffer 3 MB	Request to change packet buffer to 1.5MB which is supported by most of the industry vendor and it will allow more vendors to qualify. This will also benefit customer in terms of better commercials.	Please refer corrigendum
152	Section: APPENDIX-4 Specification For L2 Industrial 8 Port Switch with POE+ Page No:80	Shall support 802.3ad (LACP) with upto 4 ports supported in 6 groups	Request to change to maximum 5 groups	Please refer corrigendum
153	Section: APPENDIX-4 Specification For L2 Industrial 8 Port Switch with POE+ Page No:80	Shall support minimum 2 K active VLAN or IEEE 802.1 Q-based VLAN tagging ,Port based VLAN , MAC Based VLAN , IP based VLAN, Protocol based VLAN, Private VLAN, Voice VLAN	2K VLANs will be very high for this installation. Therefore requesting you to change Active VLANs support to 256. This is supported by most of the industry vendor and it will allow more vendors to qualify.	Please refer corrigendum
154	Section: APPENDIX-4 Specification For L2 Industrial 8 Port Switch with POE+ Page No:80	Should have minimum 8 hardware based queues per port	8 hardware based queues will be very high for this installation. Therefore requesting you to change it to 4 hardware ques per port. This is supported by most of the industry vendor and it will allow more vendors to qualify.	PI refer corrigendum

155	Section: APPENDIX-4 Specification For L2 24 Port Switch Page No:80	Support for minimum 8 k MAC addresses	As per present industry standard for 24 port switch, requesting you to increase the MAC address table size to at least 16K	PI refer corrigendum
156	Section: APPENDIX-4 Specification For L2 24 Port Switch Page No:80	Should support IGMP v1, v2 and v3 for multicast(min 1K group) applications, MVR	Requesting you to decrease the supported IGMP multicast group to 960 instead of 1K. It will allow more vendors to qualify.	PI refer corrigendum
157	Section: APPENDIX-4 Specification For 8 Port L3 Switch Page No:83	Support for minimum 8 k MAC addresses	As per present industry standard, requesting you to increase the MAC address table size to at least 16K	As per RFP
158	Page no. 87	Technical Specifications- Voltage Regulator-15/20 KVA The voltage regulator will consist of an Isolation Transformer (to provide neutral) in line with an independent servo stabilizer. Both units will act as independent units and will serve as redundant units to handle power fluctuations	As per RFP 15/20 UPS is sufficient to handle power fluctuation then please clarify why regulator is required separately (as this will not used as redundant unit).	As per RFP
159	Page no. 92 & 94	Certifications	Kindly include UL, CE, FCC certifications for camera and VMS	As per RFP
160	Page no. 75 Clause no. 5	NVR- 16 channel	PI confirm if this is server based recorder or NVR. Kindly provide the technical specifications as its not mentioned in RFP.	PI refer corrigendum

161	Page no. 76	Tentative Hardware requirement for Central Monitoring Center	As per the requirement of CMC PC/Workstation is key component of CMC without PC or Workstation we will not be able to monitor any incident/network failure centralized. Kindly provide the technical specification of PC/Workstation/server	As per RFP
162	Page no. 75	APPENDIX -3 Bill of Material	VMS solution is required to manage the total no. of cameras mentioned in BoQ also provide the specifications : (i) Current solution is not reliable as the requirement for CMC. (ii) Centralized server specification for VMS and VRM required. (Make & Model) (iii) PI provide the network diagram for connectivity between courts to centralized monitoring center.	As per RFP
163	Page no. 75 Clause no. 1	PTZ Explosion Proof camera	PI clarify why only explosion proof camera is required	As per RFP
164	Page no. 75 Clause no. 15	Light (100 watt)	More clarity required against Light (100 watt) with Qty 61	As per RFP
165	Page no. 78 to 84	Specification For 8 Port PoE+ Switch	All switch specifications are in favour of single OEM or kindly provide the pre-approved make for active/passive components.	PI refer corrigendum
166	Page no. 90 Point 38	OEM should have registered office in India for last five years. Should not be blacklisted by Govt/PSU. In case of global manufacturer, OEM presence in India should be through a subsidiary, no JV/Distribution agreement/ Consortium is allowed.	Kindly allow consortium/JV as there are multiple components involved in solution.	As per RFP

167	APPENDIX -4 Hardware Specifications	Page no. 84 & 85	<p>Technical Specifications for 15/20 KVA Online UPS System</p> <p>The UPS being a critical and major infrastructure component, the need of the hour is to have specifications which offer a reliable and rugged product which offers true value for money to the user, lower cost of ownership whilst maximizing the performance levels. It has been observed that the UPS specifications provided in the tender document are deficient in its contents, which we feel, may result in investment in equipment which would adversely have severe limitations in operation, reliability and desired performance. It is thus kindly requested to provide detailed specifications so as to benchmark quotes from bidders as bidders can supply products with varying configurations and features.</p>	PI refer corrigendum
168	APPENDIX -4 Hardware Specifications, Fixed Explosion Proof Camera with camera housing, mounting accessories , power adapters and junction box, Page No. 90	Vari Focal Lens: Minimum coverage of 80 m with zoom of 20X or better. Bidders to propose focal length accordingly	20X Optical Zoom is not possible with Fixed Bullet/Box camera as lens size is very huge which cannot be accommodated in Ex-Proof Box housing. Request you to pls Make it as 10X.	PI refer corrigendum
169	APPENDIX -4 Hardware Specifications, Fixed Explosion Proof Camera with camera housing, mounting accessories , power adapters and junction box, Page No. 90	Supported Resolutions: H.264 & 1 MJPEG	There is typo error, H.264 & MJPEG are compression techniques not a Resolution. The Resolution is already mentioned at Point No. 2 , request you to rename Resolution with Compression	PI refer corrigendum

170	APPENDIX -4 Hardware Specifications, Fixed Explosion Proof Camera with camera housing, mounting accessories , power adapters and junction box, Page No. 91	Certification: CE, FCC, PESO/CCOE	There are hardly any OEMs who manufacture Fire retardant/Explosion proof housing in India and have PESO/CCOE certificate. This is restrictive and limiting factor which bars domestic manufactures to participate. Request you to allow equivalent certificate CNEEx12.2017 of Original Housing Manufacturer	As per RFP
	APPENDIX -4 Hardware Specifications, Flame Proof PTZ with integrated housing and mounting accessories ,page no. 93	Supported Resolutions: H.264 & 1 MJPEG	There is typo error, H.264 & MJPEG are compression techniques not a Resolution. The Resolution is already mentioned at Point No. 2 , request you to rename Resolution with Compression	PI refer corrigendum
171	APPENDIX -4 Hardware Specifications, Flame Proof PTZ with integrated housing and mounting accessories, page no. 93	Certification :CE, FCC, PESO/CCOE	There are hardly any OEMs who manufacture Fire retardant/flame proof housing in India and have PESO/CCOE certificate. This is restrictive and limiting factor which bars domestic manufactures to participate. Request you to allow equivalent certificate CNEEx12.2017 of Original Housing Manufacturer	As per RFP
172	APPENDIX -3 Bill of Material (Tentative),NVR,page no.75		16 ch NVR is asked in RFP but NVR specification is missing in the tender. Request you to specify NVR specifications	PI refer corrigendum

173	7. Scope of work & Page-33	8. All data/recording should be available for 30 days	Please share the recording resolution & FPS for exact storage calculation.	PI refer corrigendum
174	7. Scope of work & Page-33	9. The Network for NMS (provided via BSWAN) so envisioned will provide real time network/health status to the central monitoring center	As per Scope of work NMS will provide by BSWAN but in Tentative Hardware requirement for Central Monitoring Center (Page no-76) same line of item is asked however request to clarify the scope of the supply of the line of item.	Bandwidth for NMS will be provided by BSWAN. NMS application and associated hardware will have to be installed by the SI at Central Monitoring Center
175	Page-37	7.6 Connectivity between courts and central monitoring center at Patna	BSWAN have to provide sufficient backbone bandwidth form all court to central location for smooth cctv monitoring	As per RFP
176	Note:3 & Page no-76	All camera, housing accessories and power adapter to be of same make	Please allow with different make power supply which is also compatible with camera.	As per RFP

177		Additional Provision needs to be included	<p>Additional Provision needs to be included Limitation of Liability: In no event shall either party be liable for any incidental, consequential, special, punitive, statutory, indirect damages, loss of profits, loss of revenues, or loss of use, even if informed of the possibility of such damages. Honeywell's total liability for any damages arising out of or related to this Agreement shall in no case exceed the amount received by the Honeywell under this agreement. To the extent permitted by applicable law, these limitations and exclusions will apply regardless of whether liability arises from breach of contract, warranty, tort (including but not limited to negligence), by operation of law, or otherwise. Bidder/Honeywell's liability to the Customer, if any, in contract, tort or otherwise, will be reduced by the extent to which Customer contributed to any loss, whether or not such loss is direct, indirect, consequential, pecuniary or property loss.</p>	Already covered under clause 15.3 of draft contract
178		Additional Provision needs to be included	<p>Additional clause needs to be included Intellectual property arising out of or in connection with the contract documents shall be owned by the Bidder/Honeywell. Honeywell agrees to provide a non-exclusive license to customer/Owner for the sole purpose of performance of the services under this contract. All software provided in connection with this contract shall be licensed and not sold. The end-user/Owner of the software will be required to enter into a license agreement with terms and conditions which are standard for computer based equipment software license arrangements</p>	Already covered under clause 19 of draft contract

179		Additional Provision needs to be included	Additional clause needs to be included Delay: Where Bidder/Honeywell incurs additional cost due to a delay to the date of completion (need to be agreed) from the date of Work Order caused by Contractor or their suppliers or their sub-contractors then Honeywell shall be entitled to claim additional delay costs for such delay.	As per RFP
180		Additional Provision needs to be included	Additional clause to be included Arbitration: All disputes in connection with this Contract or the execution thereof shall be settled by friendly negotiation and resolved by mutual discussions within fifteen (15) days from one party notifying the dispute to the other party. Unresolved disputes, if any shall be subject to resolution by arbitration by a sole arbitrator to be mutually agreed. If the parties fail to agree upon a sole arbitrator, the dispute shall be referred to a panel of three arbitrators wherein each party will appoint one arbitrator and the two arbitrators so appointed shall appoint the third arbitrator. The arbitration proceeding shall be in accordance with rules thereof under the Arbitration and Conciliation Act, 1996. The award of the arbitration shall be final and binding on both parties hereto. The fees for arbitration shall be borne by the parties equally. The venue of Arbitration will be in Mumbai.	Already covered under clause 25.4 of draft contract
181		Additional Provision needs to be included	Additional clause to be included Termination: Either Party may terminate or suspend this contract if there is a material breach of the Agreement or the Order and the breaching Party fails to begin a cure within 30 calendar days after receipt of written notice from the non-breaching Party specifying the grounds.	As per RFP

182	page no 48, cl 8.3	Payment Schedule	We request you to provide 10% as an advance of CAPEX, 75% of CAPEX against delivery at site pro rata basis & Balance 15% of CAPEX against installation and commissioning.	As per RFP
183		Additional Provision needs to be included	Kindly clarify the GST impact during bid evaluation and billing time.	As per RFP
182	Section: APPENDIX-3 Bill of Material (Tentative) Page No: 75 & 76	24-Port UTP Patch Panel & UTP I/O	24-Port UTP Patch Panel & UTP I/O are not included in the Bill of Materials. Please specify the required quantity of 24-Port UTP Patch Panel & UTP I/O.	As per RFP
183	Section: APPENDIX-4 Hardware Specifications Page No: 77	Specifications of I/O Devices: Cat6 compliant Data-gate Jacks	UTP cable & Patch Panel are of Cat6A type. But Jacks in the I/O is Cat6 type which will be the bottleneck in the channel. Requesting you to change the Jack in the I/O from Cat6 type to Cat6A type.	PI refer corrigendum
184	Section: APPENDIX-3 Bill of Material (Tentative) Page No: 75 Section: APPENDIX-4 Hardware Specifications Page No: 77	Cat6A UTP Patch Cord	Cat6A UTP Patch cords are required but not included in the Bill of Materials & Hardware Specifications. Requesting you to include Cat6A UTP Patch Cords in the Bill Of Materials & also specify the quantity & length of the UTP Patch Cords.	As per RFP
185	Section: APPENDIX-4 Hardware Specifications Page No: 78	Specifications of LIU: Rack Mount & Wall mount Both Option	LIU comes either in Rack mount OR in Wall Mount Option. In Sl.no.11 of Bill of Materials, LIU are included as accessories inside 9U Rack which will be Rack Mount type. Please clarify whether only Rack mount type LIU will be included.	As per RFP
186	Section: APPENDIX-4 Hardware Specifications Page No: 78	Specifications of LIU	LIU are not included as a separate item in the Bill of Materials. Please specify the required quantity of the LIU.	As per RFP

187	Section: APPENDIX-4 Hardware Specifications Page No: 78	Optical Fiber Patch Cord , SM , LC-LC	Optical Fiber Patch Cords are not included in the Bill of Materials. Please specify the required quantity of the same.	As per RFP
188	Section: APPENDIX-3 Bill of Material (Tentative) Page No: 75 & 76 Section: APPENDIX-4 Hardware Specifications Page No: 77 to 94	Pigtail	Single Mode Fiber Optic Pigtails will be required but not included in the Bill of Materials & Hardware Specifications. Requesting you to please include the same in the Bill of Materials. Also requesting you to specify the quantity & length of the Pigtails.	As per RFP
189	Section: APPENDIX-4 Hardware Specifications Page No: 78	Optical Fiber Patch Cord, SM, LC-LC: Fiber: SM E9/125 G.652.D (OS2).	Single Mode OS2 type Optical Fiber Patch C/ords are included in the specification. But in OFC-6 Core Single Mode cable, type (OS1/OS2) is not specified. Requesting you to specify single Mode OS2 type for OFC-6Core cable & Pigtail.	As per RFP
190	Section: APPENDIX-4 Hardware Specifications For 8 Port PoE+ Switch Page No: 78 to 79	Shall be 19" Rack Mountable. The switch shall be non-blocking in architecture and support stacking upto min 8 units. Stacking port should be ready from day 1 so that only by connecting cable - stacking could be achieved.	Requesting you to change the number of stacking unit from 8 to 6.This is supported by most of the industry vendors & will allow more vendors to qualify.	PI refer corrigendum
191	Section: APPENDIX-4 Hardware Specifications For 8 Port PoE+ Switch Page No:79	8 RJ-45 autosensing 10/100/1000T ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment .Min PoE/PoE+ power budget should be 200 Watt .PoE management - Scheduling of Power	All the cameras will have 10/100Mbps interface & it is a 8-port Switch. So1Gbps SFP ports will be sufficient for uplink & downlink. Requesting you to remove 10G & SFP+ options & allow only 1G SFP option.	PI refer corrigendum

		Delivery, Power limit by device type and Power delivery prioritization		
192	Section: APPENDIX-4 Hardware Specifications For 8 Port PoE+ Switch Page No:79	Shall have switching capacity of 96 Gbps for providing non-blocking performance on all Gigabit ports	96Gbps of Switching capacity is not required in the switch as per the interface requirement. Also 65Mpps throughput is asked for wire-speed performance. By doing the calculation for a 64Byte packet size, required switching capacity is coming as 88Gbps. Requesting you to reduce it to 88Gbps for providing non-blocking performance on all gigabit ports	PI refer corrigendum
193	Section: APPENDIX-4 Specification For L2 Industrial 8 Port Switch with POE+ Page No:80	1 console port with console cable, Min. packet buffer 3 MB	Request to change packet buffer to 1.5MB which is supported by most of the industry vendor and it will allow more vendors to qualify. This will also benefit customer in terms of better commercials.	PI refer corrigendum
194	Section: APPENDIX-4 Specification For L2 Industrial 8 Port Switch with POE+ Page No:80	Shall support 802.3ad (LACP) with upto 4 ports supported in 6 groups	Request to change to maximum 5 groups	PI refer corrigendum
195	Section: APPENDIX-4 Specification For L2 Industrial 8 Port Switch with POE+ Page No:80	Shall support minimum 2 K active VLAN or IEEE 802.1 Q-based VLAN tagging ,Port based VLAN , MAC Based VLAN , IP based VLAN, Protocol based VLAN, Private VLAN, Voice VLAN	2K VLANs will be very high for this installation. Therefore requesting you to change Active VLANs support to 256. This is supported by most of the industry vendor and it will allow more vendors to qualify.	PI refer corrigendum
196	Section: APPENDIX-4 Specification For L2 Industrial 8 Port Switch	Should have minimum 8 hardware based queues per port	8 hardware based queues will be very high for this installation. Therefore requesting you to change it to 4 hardware ques per port. This is supported by	PI refer corrigendum

	with POE+ Page No:80		most of the industry vendor and it will allow more vendors to qualify.	
197	Section: APPENDIX-4 Specification For L2 24 Port Switch Page No:80	Support for minimum 8 k MAC addresses	As per present industry standard for 24 port switch, requesting you to increase the MAC address table size to at least 16K	PI refer corrigendum
198	Section: APPENDIX-4 Specification For L2 24 Port Switch Page No:80	Should support IGMP v1, v2 and v3 for multicast(min 1K group) applications, MVR	Requesting you to decrease the supported IGMP multicast group to 960 instead of 1K. It will allow more vendors to qualify.	PI refer corrigendum
199	Section: APPENDIX-4 Specification For 8 Port L3 Switch Page No:83	Support for minimum 8 k MAC addresses	As per present industry standard, requesting you to increase the MAC address table size to at least 16K	PI refer corrigendum
200	APPENDIX -4 Hardware Specifications, Fixed Explosion Proof Camera with camera housing, mounting accessories , power adapters and junction box ,Page No. 90	Vari Focal Lens: Minimum coverage of 80 m with zoom of 20X or better. Bidders to propose focal length accordingly	20X Optical Zoom is not possible with Fixed Bullet/Box camera as lens size is very huge which cannot be accommodated in Ex-Proof Box housing. Request you to pls Make it as 10X.	PI refer corrigendum
201	APPENDIX -4 Hardware Specifications, Fixed Explosion Proof Camera with camera housing, mounting accessories , power adapters and junction box, Page No. 90	Supported Resolutions: H.264 & 1 MJPEG	There is typo error , H.264 & MJPEG are compression techniques not a Resolution . The Resolution is already mentioned at Point No. 2 , request you to rename Resolution with Compression	PI refer corrigendum

202	APPENDIX -4 Hardware Specifications, Fixed Explosion Proof Camera with camera housing, mounting accessories , power adapters and junction box,Page No. 91	Certification: CE, FCC, PESO/CCOE	There are hardly any OEMs who manufacture Fire retardant/Explosion proof housing in India and have PESO/CCOE certificate. This is restrictive and limiting factor which bars domestic manufactures to participate. Request you to allow equivalent certificate CNEx12.2017 of Original Housing Manufacturer	As per RFP
203	APPENDIX -4 Hardware Specifications, Flame Proof PTZ with integrated housing and mounting accessories, page no. 93	Supported Resolutions: H.264 & 1 MJPEG	There is typo error, H.264 & MJPEG are compression techniques not a Resolution. The Resolution is already mentioned at Point No. 2 , request you to rename Resolution with Compression	Pl refer corrigendum
204	APPENDIX -4 Hardware Specifications, Flame Proof PTZ with integrated housing and mounting accessories, page no. 93	Certification: CE, FCC, PESO/CCOE	There are hardly any OEMs who manufacture Fire retardant/flame proof housing in India and have PESO/CCOE certificate. This is restrictive and limiting factor which bars domestic manufactures to participate. Request you to allow equivalent certificate CNEx12.2017 of Original Housing Manufacturer	As per RFP
205	APPENDIX -3 Bill of Material (Tentative),NVR ,page no.75		16 ch NVR is asked in RFP but NVR specification is missing in the tender. Request you to specify NVR specifications	Pl refer corrigendum
206	Page 43, Section 8.3	Payment Schedules.	Request to change the capping on CAPEX -OPEX Ratio. We request for CAPEX capping of not less than 80% of the overall Bid cost.	As per RFP
207	Page 43, Section 8.3	Payment Schedules.	Request to change the payment clause as 1. 60% of CAPEX on Delivery 2. 20% of CAPEX on Installation 3. 20% of CAPEX after Go-Live of the Project (Against PBG)	The Capex Opex ratio has been provided for the payment purposes. Irrespective of the Capex value derived from the Financial bid, for the payment purposes, capex will be capped at 60% of the Contract value. Capex thus derived will

				<p>be paid in the instalments mentioned in the RFP i.e 60%, 20% and 20% respectively.</p> <p>Similarly if Opex is less than 40% of the Contract value, the same will be brought upto 40% and the payments will be made based on QGR.</p>
208	Specification for NMS Page 82 Point 1	Must provide centralized management that should be upgradeable to manage wired, as well as wireless (if any) & security components (min 5000 nos)	Please elaborate more on security components / security component description.	As per RFP
209	Specification for NMS Page 82 Point 12	Must be able to define policies to rate-limit bandwidth, throttle the rate of new network connections, prioritize based on Layer 2 or Layer 3 QoS mechanisms, apply packet tags, isolate/quarantine a particular port or VLAN, and/or trigger predefined actions.	Are you looking for solutions which can provide you Bandwidth utilization, QOS information?	Solutions which can provide Bandwidth utilization, QOS information are not required
210	Specification for NMS Page 83 Point 22	Must have QOS , security , bandwidth rule must be maintained by the NMS centrally	Kindly confirm if you need a solution which can provide you monitoring features?	As per RFP

211	Specification for NMS Page 83 Point 23	Must have Complete application insight visibility up to layer 7 for quick user needs provisioning and reports even the location for the wireless users (if any)with complete report of the user roaming as signal strength .	The requirement asked does not provide a clarity to propose a solution and is bit ambiguous kindly confirm if you need a solution which can provide you with Deep packet analysis and application recognition, also it provide with visibility of traffic classification and reports on Wireless access points monitoring with fault alarms for uses and access points.	Deep packet analysis and application recognition are not required.
212		Request for providing Court building layouts - Blue prints to selected bidder	For route marking and cable routing etc.	Selected SI to do a site survey in this regard
213	Complete Implementation (Final Go-live)	Final Acceptance Test report by BSEDC and its nominated agencies. FAT will include the acceptance of CVs by BSEDC of the 61 L-1 support to be deployed in the project in the O&M phase	How Go-Live of individual courts will be given? We suggest phase wise Go-Live as deputation of resources can only happen on go-live due to billing issues.	As per RFP
214	4. Key Information	The solution provided should ensure that video storage could be viewed at the court as well as from the office of the respective Superintendent of Police of that district.	How can SI ensure as this depends upon connectivity also which is not is SI scope.	This clause is envisioned whenever the said connectivity is available. SI to keep the scalability of design while proposing the solution

215	8.1 SLA	The total operation time for the systems and applications within the central monitoring center and courts will be 24x7x365. The total operation time means when the manpower is required at the court premises.	Manpower is required only during court working hours.	As per RFP
216	Pg. 23. Point 4.	Bidder's annual Sales Turnover during each of the last 3 audited financial years must be INR 100 Crores or above from System integration business	We request to increase the turnover to atleast 300 Cr. from SI business and ask for Bank's solvency certificate for atleast twice the value of the project cost from Bidder.	As per RFP
217	BOQ	Centralized UPS (15 KVA) - 18 Nos.	For which location	15 and 20 KVA UPS sets are assumed to be used in groups at different locations depending on the actual requirement of power
218	Central Monitoring Centre	CMC at Patna	Size, Layout, Civil Work if any, Location, Access to SI persons 24x7x365??	As per RFP
219	OEM Role		Suggest to bind OEMS of Camera, Switch, UPS to supervise and undertake the installation and commissioning work at least at the first three court sites and prepare a SOPs for SI for other sites. MAF format should capture this.	As per RFP
220	NVR storage	All data/recording should be available for 30 days	Will it be FIFO? In case NVR HDD crashes, there will be data loss.	As per RFP

221	Specification For 8 Port PoE+ Switch,Page no-78,79	Shall be 19" Rack Mountable. The switch shall be non-blocking in architecture and support stacking upto min 8 units. Stacking port should be ready from day 1	Request to change as "Shall be 19" Rack Mountable. The switch shall be non-blocking in architecture and support stacking/Virtual Stacking upto min 8 units from day 1,so that max OEM can participate. Fixed stacking module will increase the cost.	PI refer corrigendum
222	Specification For 8 Port PoE+ Switch,Page no-79	8 RJ-45 autosensing 10/100/1000T ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment .Min PoE/PoE+ power budget should be 200 Watt .PoE management - Scheduling of Power Delivery, Power limit by device type and Power delivery prioritization	Need the clarity on 4 SFP+ requirement, In edge 8 port switch 2 SFP/SFP+ is fitable for surveillance project, cost will increase for 4 no's SFP+,if not necessary request to change this as "8 RJ-45 autosensing 10/100/1000T ports with 2 SFP ports.Min PoE/PoE+ power budget should be 185 Watt .so that maximum OEM can participate	PI refer corrigendum
223	Min Specification For 8 Port L3 Switch,page 83	Min. 8 RJ-45 autosensing 10/100/1000T ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment.	Core switch must be with higher port density with atleast 24 port with 4 SFP/SFP+ L3 switch with higher switching capacity,here it is lesser than L2,requesting to change with standard L3 Core Switch specification,so that maximum OEM can participate with best solution	PI refer corrigendum
224	RFPDOC_bihar court.pdf Specification for NMS at Pg# 82	Must provide centralized management that should be upgradeable to manage wired, as well as wireless (if any) & security components (min 5000 nos).	Please specify the type of Wireless & Security devices?	PI refer corrigendum

225	RFPDOC_bihar court.pdf Specification for NMS at Pg# 82	Must support RADIUS or LDAP Authentication for users of the application.	RADIUS authentication for users in NMS application is vendor specific and hence request you to please remove RADIUS authentication and only keep LDAP authentication.	PI refer corrigendum
226	RFPDOC_bihar court.pdf Specification for NMS at Pg# 83	Must have Complete application insight visibility up to layer 7 for quick user needs provisioning and reports even the location for the wireless users (if any) with complete report of the user roaming as signal strength.	The clause is favoring a specific vendor for the functionality of locating wireless user. Our submission is to please remove this clause.	PI refer corrigendum
227	RFPDOC_bihar court.pdf Specification for NMS at Pg# 87		Request pls mention the detailed storage specification. Also request to re-consider the storage sizing as 6TB seems very low for this requirement.	PI refer corrigendum
228	Specification For 8 Port PoE+ Switch, Pg 78, Pt 1 The switch shall be non- blocking in architecture and support stacking upto min 8 units. Stacking port should be ready from day 1	Request to change "The switch shall be non- blocking in architecture."	Stacking on 8 port switches is not available for most OEMs. Request to change for wider participation.	PI refer corrigendum
229	Specification For 8 Port PoE+ Switch, Pg 79, Pt 2 8 RJ-45 autosensing 10/100/1000T ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment	Request to change "8 RJ-45 autosensing 10/100/1000T ports with 2 SFP ports. Should support SFP module of 1G"	This port configuration is specific to limited OEMs. Most OEMs do not provide 4 SFP+ ports on a 8 port switch. A SFP port for uplink on a 8 port switch is enough.	PI refer corrigendum

230	<p>Specification For 8 Port PoE+ Switch, Pg 79, Pt 4</p> <p>Shall have switching capacity of 96 Gbps for providing non-blocking performance on all Gigabit ports</p>	<p>Request to change "Shall have switching capacity of 20 Gbps for providing non-blocking performance on all Gigabit ports"</p>	<p>This is as per calculations for 8 Gig ports + 2 SFP uplink ports.</p>	<p>PI refer corrigendum</p>
231	<p>Specification For 8 Port PoE+ Switch, Pg 79, Pt 5</p> <p>Shall have minimum 65 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports</p>	<p>Request to change "Shall have minimum 14 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports"</p>	<p>This is as per calculations for 8 Gig ports + 2 SFP uplink ports.</p>	<p>PI refer corrigendum</p>
232	<p>Specification For 8 Port PoE+ Switch, Pg 79, Pt 7</p> <p>Should support Rapid ring resiliency protection technology to support 50 millisecond convergence preventing drop of video packet should in case path disruption and to be integrated with other switches</p>	<p>Request to change "Should support resiliency protection technology to support millisecond convergence preventing drop of video packet should in case path disruption and to be integrated with other switches"</p>	<p>Diff OEMs have different technologies to achieve resiliency.</p>	<p>PI refer corrigendum</p>
233	<p>Specification For 8 Port PoE+ Switch, Pg 79, Pt 8</p> <p>Shall support minimum 2 K active VLAN</p>	<p>Request to change "Shall support minimum 256 active VLAN</p>	<p>In a dedicated surveillance network only a single VLAN is required. There is no need of 2K VLANs. This specification will restrict most eligible OEMs.</p>	<p>PI refer corrigendum</p>
234	<p>Specification For 8 Port PoE+ Switch, Pg 79, Pt 9</p> <p>Should have minimum 8 hardware based queues per port</p>	<p>Request to change "Should have minimum 4 hardware based queues per port"</p>		<p>PI refer corrigendum</p>

235	<p>Specification For 8 Port PoE+ Switch, Pg 79, Pt 12</p> <p>Should support for IPv6 features like Neighbor discovery, Syslog, Telnet, SSH, Web GUI, SNMP, NTP, DNS, DHCP, RADIUS, TACACS, classification and marking, RFC 2544.</p>	<p>Request to change "Should support for features like Neighbor discovery, Syslog, Telnet, SSH, Web GUI, SNMP, NTP, DNS, DHCP, RADIUS, TACACS, classification and marking/RFC 2544.</p>	<p>These features are not specific to IPv6. Hence request to make it generic.</p>	<p>PI refer corrigendum</p>
236	<p>Specification For 8 Port PoE+ Switch, Pg 79, Pt 19</p> <p>Should have RPS.</p>	<p>Please delete. Most OEMs do not have RPS option for a 8 port switch. Request to change for wider participation.</p>		<p>PI refer corrigendum</p>
237	<p>6. Criteria for evaluation6.1 Prequalification criteriaSI no. 4</p>	<p>Bidder's annual Sales Turnover during each of the last 3 audited financial years must be INR 100 Crores or above from System integration business</p>	<p>Kindly amend as either of the following:1.Bidder's annual Sales Turnover during each of the last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY 2016-17 to be provided.) must be INR 50 (+) Crores or above from System integration business. 2. Bidders accumulative turnover of last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY 2016-17 to be provided.) must be in excess of 200 (+) Crores. 3. Bidders average annual turnover of last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY 2016-17 to be provided.) must be in excess of 70 Crores. JustificationAs per Govt. of India, CVC notification no 12-02-1-CTE-6, (Page No-3) Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost.</p>	<p>PI refer corrigendum</p>
238	<p>6. Criteria for evaluation6.1</p>	<p>The bidder must have successfully implemented any one surveillance</p>	<p>Kindly amend as: The bidder must have successfully implemented any one surveillance related I.T project of the following criteria:1 project</p>	<p>As per RFP</p>

	Prequalification criteriaSI no. 6	related I.T project of the following criteria:1 project of min no of camera >500, or2 project no of camera > 350 ,or3 project no of camera > 250	of min no of camera >450, or2 project no of camera > 300 ,or3 project no of camera > 200	
239	6. Criteria for evaluation6.1 Prequalification criteriaSI no. 6	The bidder must have successfully implemented any one similar project (projects under operations would be considered) of the following criteria:1 project of value> 50 Cr or2 project of value> 30 Cr or3 project of value> 20 Cr	Kindly amend as: The bidder must have successfully implemented any one similar project (projects under operations would be considered) of the following criteria:1 project of value> 28 Cr or2 project of value> 17.5 Cr or3 project of value> 14 Cr Justification As per Govt. of India, CVC notification no 12-02-1-CTE-6, (Page No-3) "Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited" should be either of the following: -a. Three similar completed works costing not less than the amount equal to 40% of the estimated cost.orb. Two similar completed works costing not less than the amount equal to 50% of the estimated cost.orc. One similar completed work costing not less than the amount equal to 80% of the estimated cost.	As per RFP
240	6.2 Technical evaluation criteriaS.N.A. A.1	When revenue turnover is:More than 300 Cr :15 marksBetween 200- 300 Cr :12 marksBetween 100-200 Cr: 10 marks(Subject to the weightages givenbelow)	Please note point system needs to be amended as per undermentioned recommendation (As suggested in point no-1) please take cognizance of either of the following: 1.1.Bidder's annual Sales Turnover during each of the last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY 2016-17 to be provided.) must be INR 50 (+) Crores or above from System integration business. : 15 Marks 1.2.Bidders accumulative turnover of last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY 2016-17 to be provided.) must be in excess of 200 (+) Crores. : 12 Marks 1.3. Bidders average annual turnover of last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY	As per RFP

			2016-17 to be provided.) must be in excess of 70 Crores. : 10 Marks	
241	6.2 Technical evaluation criteria S.N.A. A.1		2.1.Bidder's annual Sales Turnover during each of the last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY 2016-17 to be provided.) must be INR 40 (+) Crores or above from System integration business. : 15 Marks 2.2.Bidders accumulative turnover of last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY 2016-17 to be provided.) must be in excess of 150 (+) Crores. : 12 Marks 2.3. Bidders average annual turnover of last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY 2016-17 to be provided.) must be in excess of 60 Crores. : 10 Marks	As per RFP
242	6.2 Technical evaluation criteria S.N.A. A.1		3.1.Bidder's annual Sales Turnover during each of the last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY 2016-17 to be provided.) must be INR 30 (+) Crores or above from System integration business. : 15 Marks 3.2.Bidders accumulative turnover of last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY 2016-17 to be provided.) must be in excess of 100 (+) Crores. : 12 Marks 3.3. Bidders average annual turnover of last 3 financial years (FY-2014-15,15-16 & 16-17 - Provisional Balance Sheet for FY 2016-17 to be provided.) must be in excess of 50 Crores. : 10 Marks	As per RFP

243	6.2 Technical evaluation criteria S.N.A. A.2	<p>CCTV/Networking Hardware Supply to be demonstrated in a maximum of 3 engagements of 15 Cr or more. The work order should have been issued within the last 5 years, from the last day of bid submission. The projects should have been either completed or an ongoing project where deliverable or milestone has been successfully met. Weightages (W) In case project is completed and letter of satisfaction available : 100% weightage In case project is in progress and the Work Order is more than 18 months old and letter of satisfaction available: 80% weightage In case project in progress and the Work Order is between 12- 18 months old and letter of satisfaction available: 50% weightage In case project in progress and the Work Order is less than 12 months old and letter of satisfaction available: 25% weightage When No. is :equal to 3</p>	<p>Kindly amend as: CCTV/Networking Hardware Supply to be demonstrated in a maximum of 1 engagements of 40 Cr or more/ maximum of 2 engagements of 15 Cr or more/ maximum of 3 engagements of 05 Cr or more. The work order should have been issued within the last 5 years, from the last day of bid submission. The projects should have been either completed or an ongoing project where deliverable or milestone has been successfully met. Weightages (W) In case project is completed/ Partially completed and letter of satisfaction available : 100% weightage When No. is :equal to 1 project of 40 Crs : 15 marks equal to 2 projects of 20 Crs : 10 marks equal to 3 projects of 10 Crs : 5 marks No project: 0 marks</p>	As per RFP

		<p>projects : 15 marks equal to 2 projects : 10 marks equal to 1 project : 5 marks No project: 0 marks</p>		
244	6.2 Technical evaluation criteria S.N.A. A.3	<p>The Bidder should furnish experience of implementation and maintenance of multi-location Surveillance/Network projects each of value of Rs 25 Crore or more. The implementation portion of the project could either be completed or ongoing. Completion / Percentage completion of the relevant work order should have been achieved within 5 years before the last date of bid submission. Weightages (W) In case project completed and letter of satisfaction available: 100% In case project in progress and the Work Order is more than 18 months old and letter of satisfaction available: 80% In case project in progress and the Work Order is between 12-18 months old and letter of satisfaction available: 50% In case project in progress and the Work Order is less than 12 months old and letter of satisfaction</p>	<p>Kindly amend as: The Bidder should furnish experience of implementation and maintenance of single order of multi-location Surveillance/Network projects each of value of Rs 40 Crore or more./ Two order of multi-location Surveillance/Network projects each of value of Rs 15 Crore or more./ Three orders of multi-location Surveillance/Network projects each of value of Rs 05 Crore or more. Weightages (W) In case project is completed/ Partially completed and letter of satisfaction available : 100% weightage When No. is : equal to 1 project of 40 Crs : 15 marks equal to 2 projects of 15 Crs : 10 marks equal to 3 projects of 05 Crs : 5 marks No project: 0 marks</p>	As per RFP

		available: 25%When No. is :equal to 3 projects : 15 marks equal to 2 projects : 10 marks equal to 1 project : 5 marks These marks would be multiplied by the weightage as defined in the previous column to arrive at accumulative score.		
245	For 8 Port PoE+ Switch	Shall be 19" Rack Mountable. The switch shall be non-blocking in architecture and support stacking upto min 8 units. Stacking port should be ready from day 1 so that only by connecting cable - stacking could be achieved.	As per RFP, 8 port switch with 8 unit stack, so total ports requirement is 64 nos 1G interface, but global networking standard will follow stacking for 24 or 48 port switches only. Justification: 8 Port , 8 unit stacking increase the latency, hopes , decrease network uptime, occupy rack space and power consumption. It will increase the project cost. Deletion Request: The switch placement in the network will be based on the positioning of the cameras. And the cameras will never be placed in the same location, rather will be spread across the premises. Thus, the switches will also have to placed accordingly. So the stacking will never be required in such a scenario. We do stacking primarily in places where the end-points are heavily clustered, while in this case, the end-points will be sporadic. Hence, request to remove the stacking support clause from the RFP	PI refer corrigendum
246	For 8 Port PoE+ Switch	8 RJ-45 autosensing 10/100/1000T ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment .Min PoE/PoE+ power budget should be 200 Watt .PoE management -	Modification request: Presently in RFP there are two types of 8 port switches, one is for Indoor deployment and the other is asked as Industrial grade for outdoor deployment. But the functionality and port requirement for both is same. But in RFP one switch is asked with 4 x 10G ports and other with 4 x 1G uplink port. Considering both these switches are required to connect cameras, so even running at full HD on all 8 downlink ports, Giga-Ethernet uplink ports are more than sufficient and	PI refer corrigendum

		Scheduling of Power Delivery, Power limit by device type and Power delivery prioritization.	there is no need of 10G ports for surveillance at access layer. Request to modify the clause to " 8 RJ-45 autosensing 10/100/1000T ports with 2x 1G SFP ports."	
247	For 8 Port PoE+ Switch	Shall have switching capacity of 96 Gbps for providing non-blocking performance on all Gigabit ports	Modification request: Considering the 8 Port switch with 4 GE uplink ports, the performance maximum can be a 24 Gbps. Same is rightly asked Industrial grade 8 port switches. So in similar manner the performance of 8 port Indoor switches also should be 24 Gbps instead of 96 Gbps, which is presently mentioned in RFP. Request to modify the clause to " Shall have switching capacity of 24 Gbps for providing non-blocking performance on all Gigabit ports"	PI refer corrigendum
248	For 8 Port PoE+ Switch	Shall have minimum 65 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports	Modification Request: Considering the revised throughput of 24 Gbps, forwarding rate of switch should also be changed accordingly. This should be changed to 17 Mpps which will be more than sufficient to handle the traffic forwarding. Request you to modify the clause to "Shall have minimum 17 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports"	PI refer corrigendum
249	For 8 Port PoE+ Switch	Shall support minimum 2 K active VLAN	Modification Request: The switch will terminate only IP cameras and they can easily be placed in few vlans itself. Hence, this ask for 2000 Vlans is not practical on 8/ 24 port switch. This should be reduced to 100. Request you to modify the clause to "Shall support minimum 100 active VLAN."	PI refer corrigendum
250	For 8 Port PoE+ Switch	Should have minimum 8 hardware based queues per port	Modification request: Since, the network will be primarily carrying video traffic and some control traffic, there is no need to have 8 egress queues. 4 egress queue support will be more than enough to address the need for traffic prioritization Request you to modify the clause to " Should have minimum 4 egress queues per port"	PI refer corrigendum

251	For 8 Port PoE+ Switch	Min PoE/PoE+ power budget should be 200 Watt	Modification request: The asked POE budget is unnecessarily high which will increase the cost of overall solution. Majority of cameras i.e. fixed camera only require POE power and it would only be PTZ cameras which may have POE+ requirement. Hence, the POE budget should be reduced to 124 W (15.4x8) instead and switch should have facility of POE+. Request you to modify the clause to " Min PoE/PoE+ power budget should be 124 Watt"	Pl refer corrigendum
252	For 8 Port PoE+ Switch	Should support Rapid ring resiliency protection technology	Deletion Request: This is primarily required in metro-Ethernet environment and is not a standard feature in the enterprise switches. The layer 2 switches should rather support loop protection and prevention mechanism which is required to protect the switches from any kind of layer 2 loops happening in the network	Pl refer corrigendum
253		Switch and fiber module should be WEEE complied	Deletion Request: There is no requirement for the WEEE standard. Pls remove this from the RFP clause	Pl refer corrigendum
254	For 8 Port PoE+ Switch	Power: Input 100-240VAC, 50/60Hz. Should have RPS. Operating temp: Min 0-50 Degree C.	Considering the deployment of 8-port switches, redundant power supply won't be the essential feature. Further in RFP it is defined that bidder will have to install Centralized UPS and provide power to 8 Port Switches so there is no redundant power source available so this features won't be that useful. Similarly standard operating temp available for indoor enterprise switches is up to 45 Degree C. So considering the wider participation you are requested to modify the same to " Power: Input 100-240VAC, 50/60Hz. Operating temp: Min 0-45 Degree C".	Pl refer corrigendum
255	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 1, Page No. 80	Rugged outdoor Din Rail mountable switch with Min 8 10/100/1000 Base-	Modification Request: As mentioned in Clause 2 of this switch, please allow both PoE/ POE+ capability. Request you to modify the clause to " Rugged outdoor Din Rail mountable switch with	Pl refer corrigendum

		T port of PoE+ and (2+2) SFP Port	Min 8 10/100/1000 Base-T port of PoE/PoE+ and (2+2) SFP Port	
256	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 2, Page No. 80	Min PoE/PoE+ power budget should be 200 Watt	Modification request: The asked POE budget is unnecessarily high which will increase the cost of overall solution. Majority of cameras i.e. fixed camera only require POE power and it would only be PTZ cameras which may have POE+ requirement. Hence, the POE budget should be reduced to 124 W (15.4x8) instead and switch should have facility of POE+. Request you to modify the clause to " <i>Min PoE/PoE+ power budget should be 124 Watt</i> "	PI refer corrigendum
257	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 8, Page No. 80	Shall support minimum 2 K active VLAN	Modification Request: The switch will terminate only IP cameras and they can easily be placed in few vlans itself. Hence, this ask for 2000 Vlans is not practical on 8/ 24 port switch. This should be reduced to 100. Request you to modify the clause to " <i>Shall support minimum 100 active VLAN.</i> "	PI refer corrigendum
258	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 10, Page No. 80	Should have minimum 8 hardware based queues per port	Modification request: Since, the network will be primarily carrying video traffic and some control traffic, there is no need to have 8 egress queues. 4 egress queue support will be more than enough to address the need for traffic prioritization Request you to modify the clause to " <i>Should have minimum 4 egress queues per port</i> "	PI refer corrigendum
259	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 10, Page No. 80	Min. packet buffer 3 MB	Deletion Request: This clause is not required and should be removed	PI refer corrigendum
260	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 20, Page No. 80	Switch and fiber module should be WEEE complied	Deletion Request: There is no requirement for the WEEE standard. Pls remove this from the RFP clause	PI refer corrigendum

261	Specification for L2 Industrial 8 Port Switch with POE+, Point NO. 15, Page No. 80	Reverse Power protection and Transient protection > 15 W peak	Modification Request: Standard operating temp available for outdoor switches is up to 70 Degree C. So considering the wider participation you are requested to modify the same to " <i>Operating temp: Min minus 5 to plus 70 Degree C .Power supply should be industrial grade only.</i>	PI refer corrigendum
262	L2 24 Port Switch , Point No. 1, Page No. 81	24 RJ-45 autosensing 10/100/1000 (simultaneous) ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment.	Modification Request: Considering the requirement there is no need to 10 G port in Switches. Hence request you to modify the same to "24 RJ-45 autosensing 10/100/1000 (simultaneous) ports with (2+2) Copper/ SFP ports."	PI refer corrigendum
263	L2 24 Port Switch , Point No. 4, Page No. 81	Shall have switching capacity of 128 Gbps for providing non-blocking performance on all Gigabit ports	Modification Request: Considering the interface types, the switching throughput asked for is on a very higher side. This should be reduced to 88 Gbps instead	PI refer corrigendum
264	L2 24 Port Switch , Point No. 7, Page No. 81	Should support Rapid ring resiliency protection technology	Modification request: This is primarily required in metro-Ethernet environment and is not a standard feature in the enterprise switches. The layer 2 switches should rather support loop protection and prevention mechanism which is required to protect the switches from any kind of layer 2 loops happening in the network.	PI refer corrigendum
265	L2 24 Port Switch , Point No.8, Page No. 81	Shall support minimum 2 K active VLAN	Modification Request: Looking at the number of the ports being asked for in the layer 2 switch, the need for 2000 active vlans is on a very higher side and will definitely not be required. Even if we consider multiple vlans per port, the vlan requirement should not cross 100. Hence, request to reduce the requirement to 100 instead	PI refer corrigendum
266	L2 24 Port Switch , Point No.20, Page No. 81	Switch and fiber module should be WEEE complied	Deletion Request: There is no requirement for the WEEE standard. Pls remove this from the RFP clause	PI refer corrigendum

267	L2 24 Port Switch , Point No.19, Page No. 81	Power: Input 100-240VAC, 50/60Hz.Should have RPS. Operating temp: Min 0-50 Degree C.	Considering the deployment of 8-port switches, redundant power supply won't be the essential feature. Further in RFP it is defined that bidder will have to install Centralized UPS and provide power to 8 Port Switches so there is no redundant power source available so this features won't be that useful. Similarly standard operating temp available for indoor enterprise switches is up to 45 Degree C. So considering the wider participation you are requested to modify the same to " <i>Power: Input 100-240VAC, 50/60Hz. Operating temp: Min 0-45 Degree C</i> ".	PI refer corrigendum
268	8 port L3 Switch, Point No. 1, Page No. 83	Stacking port should be ready from day 1 so that only by connecting cable - stacking could be achieved	Deletion Request: Stacking is normally done on Layer 2 devices and is not a standard feature on the Layer 3 switches. Hence, request to remove the clause from the RFP	PI refer corrigendum PI refer corrigendum
269	8 port L3 Switch, Point No. 2, Page No. 83	Min. 8 RJ-45 autosensing 10/100/1000T ports with (2+2) SFP+ ports. Should support both SFP and SFP+ module as 1G or 10 G for flexibility of the deployment.	Modification Request: Considering the requirement there is no need to 10 G port in Switches. Moreover, we also recommend the uplinks to be a mix of copper and fiber. Hence uplink should be 2 X 1G Copper + 2x 1G SFP for both the 8 port switches. Request to modify the clause to " <i>8 RJ-45 autosensing 10/100/1000T ports with 2 X 1G Copper + 2x 1G SFP ports.</i> "	PI refer corrigendum
270	8 port L3 Switch, Point No. 1, Page No. 83	Shall have switching capacity of 96 Gbps	Modification request: Considering the 8 Port switch with 4 GE uplink ports, the performance maximum can be a 24 Gbps. Same is rightly asked Industrial grade 8 port switches. So in similar manner the performance of 8 port Indoor switches also should be 24 Gbps instead of 96 Gbps, which is presently mentioned in RFP. Request to modify the clause to " <i>Shall have switching capacity of 24</i>	PI refer corrigendum

			<i>Gbps for providing non-blocking performance on all Gigabit ports"</i>	
271	8 port L3 Switch, Point No. 5, Page No. 83	Shall have minimum 65 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports	Modification Request: Considering the revised throughput of 24 Gbps, forwarding rate of switch should also be changed accordingly. This should be changed to 17 Mpps which will be more than sufficient to handle the traffic forwarding. Request you to modify the clause to <i>"Shall have minimum 17 million pps switching throughput to achieve wire-speed forwarding on all Gigabit ports"</i>	PI refer corrigendum
272	8 port L3 Switch, Point No. 7, Page No. 83	Should support Rapid ring resiliency protection technology	Modification request: This is primarily required in metro-ethernet environment and is not a standard feature in the enterprise switches. The layer 3 switches should rather support Layer 3 loop protection and prevention mechanism which is required to protect the switches from any kind of layer 3 loops happening in the network.	PI refer corrigendum
273	8 port L3 Switch, Point No. 8, Page No. 83	Shall support minimum 2 K active VLAN	Modification Request: The switch will terminate only IP cameras and they can easily be placed in few vlans itself. Hence, this ask for 2000 Vlans is not practical on 8/ 24 port switch. This should be reduced to 100. Request you to modify the clause to <i>"Shall support minimum 100 active VLAN."</i>	PI refer corrigendum
274	8 port L3 Switch, Point No. 20, Page No. 84	Switch and fiber module should be WEEE complied	Deletion Request: There is no requirement for the WEEE standard. Pls remove this from the RFP clause	PI refer corrigendum
275	8 port L3 Switch, Point No. 10, Page No. 84	Should have minimum 8 hardware based queues per port	Modification request: Since, the network will be primarily carrying video traffic and some control traffic, there is no need to have 8 egress queues. 4 egress queue support will be more than enough to address the need for traffic prioritization Request you to modify the clause to " Should have minimum 4 egress queues per port"	PI refer corrigendum
276	8 port L3 Switch, Point No. 19, Page No. 84	Power: Input 100-240VAC, 50/60Hz.Should	Considering the deployment of 8-port switches, redundant power supply won't be the essential feature. Further in RFP it is defined that bidder will	PI refer corrigendum

		have RPS. Operating temp: Min 0-50 Degree C.	have to install Centralized UPS and provide power to 8 Port Switches so there is no redundant power source available so this features won't be that useful. Similarly standard operating temp available for indoor enterprise switches is up to 45 Degree C. So considering the wider participation you are requested to modify the same to " <i>Power: Input 100-240VAC, 50/60Hz. Operating temp: Min 0-45 Degree C</i> ".	
277	APPENDIX -3 Bill of Material (Tentative), Page 75	NVR- 16 channel	Deletion Request: NVR based architecture is envisaged for this project. NVR is legacy system and have several limitation in comparison to server based IP Surveillance such as :• Has limitations like scalability, security, flexibility. It will work only for the limited channels• Enhanced capability of video surveillance software can't be provided through NVR and it has embedded software with very minimum capabilities. • Also, NVR being an out-going technology are not recommended from future expansion & long term operations perspective.	As per RFP
278	NMS Server Min. Hardware Requirement, Point No. 2 , Page No. 83	Must support , Windows , Linux , Redhat, VMware , Hyper -V	Modification Request: This point should be rephrased as below :The server hardware should support Windows/Linux on physical appliance mode , while VMware/Hyper-V on virtual appliance mode	As per RFP
279	Fixed normal –Bullet IK10 with housing ,junction box, mounting accessories, and power adapters SI no 32	Certifications-CE,FCC	Considering the importance of the project, the cameras should be at-least UL certified Kindly amend as: Certifications: CE, FCC,UL,RoHS.	As per RFP
280	Explosion proof PTZ SI no 32	Certifications :CE, FCC, PESO/CCOE	Considering the importance of the project, the cameras should be at-least UL certified Kindly amend as: Certifications: CE, FCC, PESO/CCOE/ IECEx, UL Justification: PESO/CCOE certifications are related to Hazardous environment that	As per RFP

			confirms to Indian standards. Whereas IECEx Certifications is an international conformity standard for equipment i.e used in explosive atmospheres. IECEx is basically an IEC Standards offers a single internal assessment and test report for acceptance in all participating countries eliminating the need for duplicate testing. The IECEx scheme is acceptable in 22 countries including Asia Psific. Europe and North America.	
281	Explosion proof PTZ SI no 37	Housing : Flame Retardant	In a court complex, 316L stainless steel housing for a camera is more than sufficient. Flame retardant housing will not do any value addition, but increase the cost only. Hence, pls do necessary amendment.	As per RFP
282	IP HD PTZ Camera with camera housing, mounting accessories , Power adapters and illuminator mount SI No-33	Certifications: :CE, FCC	Considering the importance of the project, the cameras should be at-least UL certified Kindly amend as: Certifications: CE, FCC,UL,RoHS.	As per RFP
283	Flame Proof PTZ with integrated housing and mounting accessories SI No-32	Certifications :CE, FCC, PESO/CCOE	Considering the importance of the project, the cameras should be at-least UL certified Kindly amend as: Certifications: CE, FCC, PESO/CCOE/ IECEx, UL. Justification: PESO/CCOE certifications are related to Hazardous environment that confirms to Indian standards. Whereas IECEx Certifications is an international conformity standard for equipment i.e used in explosive atmospheres. IECEx is basically an IEC Standards offers a single internal assessment and test report for acceptance in all participating countries eliminating the need for duplicate testing. The IECEx scheme ia acceptable in 22 countries including Asia Psific. Europe and North America.	As per RFP
284	Flame Proof PTZ with integrated housing and	Housing : Fire Retardant	In a court complex, 316L stainless steel housing for a camera is more than sufficient. Flame retardant housing will not do any value addition, but increase	As per RFP

	mounting accessoriesSI No-37		the cost only. Hence, pls do necessary amendment.	
285	NVR Specification	NVR Specification	There is no specifications provided for NVR in RFP. We request you to kindly provide specifications for NVR. There is no recording parameters are mentioned in the RFP only retention period is mentioned, Hence we request to kindly suggest desired frame rate, resolution.	Pl refer corrigendum
286	Tentative Hardware requirement for Central Monitoring Center	Tentative Hardware requirement for Central Monitoring Center	Please clarify are we only doing health check-up of network/ Edge equipment at central command and control through NMS-HMS or we have to set up a consolidated monitoring center for cameras of all courts at central control room. If we have to provide Video feeds of cameras from all 61 districts courts then we have to consider central video management software and related hardware in BOQ, (which is not present). Please clarify. Also as per RFP required bandwidth will be provided by BSWAN.	As per RFP
287	8.3 Payment schedules	1. Complete Hardware Delivery-60% of the CAPEX value.2. Complete Implementation (Final Go-live)-20% of the CAPEXvalue3. Post Go-live Support-20%	Kindly amend As: 1. Complete Hardware Delivery-70% of the CAPEX value.2. Complete Implementation (Final Go-live)-20% of the CAPEXvalue3. Post Go-live-10%For Support for Five Years kindly consider PBG of 10% of Tender Value	As per RFP
288	6. Criteria for evaluation6.1 Prequalification criteria	Pre-Qualification	Kindly allow/add Consortium of maximum two companies for this project.	As per RFP
289	6. Criteria for evaluation6.1 Prequalification criteria	Pre-Qualification	Please note that this project is for judiciary vertical. Hence please mandate for previous work experience in judiciary vertical.(Completed / Partially completed projects).	As per RFP

290	Page 84 , sl no 14	VDC has been asked as 24 VDC or more	we request you to please amend as 288 VDC or more	Please refer corrigendum
291	Technical specifications voltage regulator	Technical specifications voltage regulator	As Technically explained in RFP the Isolation Transformer supposed to be supplied along with UPS however Servo Stabilizer expected to be connected at Input side. So, the Rating of SCVS must get enhanced i.e for 15 KVA UPS with Battery Bank it should be 30 KVA rating & for 20 KVA UPS with Battery Bank it should be of 40 KVA rating. Even for better understanding line diagram may kindly be provided.	Please refer corrigendum
292	Technical specifications voltage regulator	Technical specifications voltage regulator	Since Output of Isolation Transformer as well as of Servo Stabilizer both is Three Phase then accordingly UPS Output should be also Three Phase only. Otherwise it will technically mismatch.	Please refer corrigendum
293	Appendix 4 ,page 84	Battery backup- 8 hours	8Hrs. Back up in 20kva requires huge Battery Bank & cost will be also high. Is it essential?	PI refer corrigendum
294	Appendix 4 ,page 85	VDC -24 V	15KVA /20KVA VDC never be 24V , it should be at least 240V	PI refer corrigendum
295	Appendix 4 ,page 85	1500VAH	First of all VAH for 15 & 20KVA for 8hrs back up never be same. Secondly 1500VAH will provide only 5min. Back up which is contradictory with back up time	PI refer corrigendum
296	RFPDOC, APPENDIX -3 Bill of Material (Tentative) & Page-75	7. 8 Port PoE+ (Access Switch) Industrial Grade	1. Industrial Grade switches have been asked but IP55 industrial racks/Junction Box are not considered on bill of material, please consider for same. 2. Where industrial switches will be use? Because if pole will be use then mounting accessories are required and if ground base will be use then cemented structure is required	As per RFP

297	RFPDOC, APPENDIX -3 Bill of Material (Tentative) & Page-75	18. UTP CAT 6A	1. Both end patch cords & face plate with I/O will be required for connectivity, please mention on bill of quantity.	As per RFP
298	RFPDOC, APPENDIX -4 Hardware Specifications (UTP- CAT6A) & Page-77	3. Jacket: LSZH	Kindly accept LSZH or FR PVC, as both cover Human Safety	As per RFP
299	RFPDOC, APPENDIX -4 Hardware Specifications (I/O Devices) & Page-77	2. Jacks should have Spring Loaded Shutter	For proofing the dust: either Jacks (I/O) should be shuttered or face plate should be shuttered, please change as "Jack or Face Plate should have shutter. Spring-loaded shutter is also specific to One OEM only.	PI refer corrigendum
300	RFPDOC, APPENDIX -4 Hardware Specifications (OFC-6 core) & Page-78	8. Sheath: LSZH (Low Smoke Zero Halogen)	LSZH cable is not required for outdoor purpose & will increase the budget also, suggested please change on HDPE.	As per RFP
301	RFPDOC, APPENDIX -4 Hardware Specifications (OFC-6 core) & Page-78	10. Attenuation at 1310 nm:0.35 db/ km	As per EIA/TIA attenuation should be <.5db/Km, please change. Standard Link: http://www.thefoa.org/tech/tia568b3.htm	PI refer corrigendum
302	RFPDOC, APPENDIX -4 Hardware Specifications (OFC-6 core) & Page-78	15. Peripheral Strength Member: Two Steel wires of 1.2 mm	Strength Member should be FRP Rods for making good strength for pulling the cable, please change.	PI refer corrigendum
303	RFPDOC, APPENDIX -4 Hardware Specifications (Optical Fiber Patch Cord , SM , LC-LC) & Page-78	4. Length – 10 m	Asked length (10 Meter) for fiber patch cords is very high as per requirement. That will be difficult to manage inside the racks. 2-3 Meter is sufficient, please change.	PI refer corrigendum
304	RFPDOC, APPENDIX -4 Hardware Specifications (Installation & Termination for Indoor & Outdoor Fiber Cabling) & Page-78	General	OFC GI Route marker will be required for marking of cable. Suggested, please consider & mention quantity in bill of quantity.	As per RFP

305	RFPDOC, APPENDIX -3 Bill of Material (Tentative) & Page-75	General	1. What is the architecture (star or ring or hybrid) for backbone connectivity? 2. Redundancy is required or not for backbone connectivity?	As per RFP
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*******End of document*******