







TP Central Odisha Distribution Limited

TP Nothern Odisha Distribution Limited

TP Southern Odisha Distribution Limited

TP Western Odisha Distribution Limited

CENTRALIZED CONTRACTS GROUP

NIT No.: TPCODL/CCG/24-25/1000003327

Corrigendum No. - I

Dt.: 03-09-2025

Tender Enquiry No- TPCODL/CCG/24-25/1000003327

Tender Subject - 2 years RC for SITC of CCTV across discoms

Corrigendum Summary:

A] Clause 1.3: Revised Calendar of Event shall be as follows:

Existing Clause	Proposed Clause
Due Date of Posting Consolidated replies to all the pre-bid queries as received: 23.08.2025, 18:00 Hours	Revised timeline 03.09.2025
Due date and time of receipt of Bids – 01.09.2025, 17:30 Hours	Revised timeline 10.09.2025, 18:00 Hours

NOTE: All Other Terms & Conditions of the tender shall remain unchanged as per NIT document, GCCs and Pre-bid reply (attached annexure-I).

Approved By,

Sd/-

(Head - Centralized Contracts Group)

Annexure-I TP ODISHA DISCOM (TPCODL, TPNODL) SOW & Technical Specs for CCTV System at TP-Odisha							
S.No	Page No.	Clause No:	PCODL, TPNODL) SOW & Technical Specs for CCTV System Particulars of the query / clarification	n at TP-Odisha Remarks	TPOdisha Discom's Reply		
1	in the Tender 1G. 16 Channel Network Video Recorder (NVR)P	16. Technical Specification 16 Channel Network Video Recorder (NVR) -Point No - 21	Hard Disk 2 SATA ports, Each disk can contain up to 20 TB.	As Per RFP 180 days storage is not enough in 2 SATA" Port So kinldy amened 8 SATA port of each NVR.	Tender clause may be read as "The requirement is for 180 days of backup storage. Bidders must calculate the necessary storage capacity and submit their proposals accordingly."		
2	Network Bullet Camera, point No -02,	Network Bullet Camera, point No -02,	Particulars of the query / clarification	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage.	Tender clause Stands		
				Please amend 4MP or Better Camera.			
3	Network Bullet Camera, point No -03,	Network Bullet Camera, point No -03,	ROM 4GB	It's single OEM Specific specification basically thus requesting you remove this clause . Suggestion: 128MB or better is ROM followed by all OEM's.	The caluse can be read as" Network Bullet Camera, point No -03, - ROM 1GB or higher"		
4	Network Bullet Camera, point No -04,	Network Bullet Camera, point No -04,	RAM 1GB	It's single OEM Specific specification basically thus requesting you remove this clause . Suggestion: 512MB or better is standard RAM followed by all OEM's.	The caluse can be read as" The RAM of network Bullet Camera should minimum 512MB or higher.		
5	Network Bullet Camera, point No -05,	Network Bullet Camera, point No -05,	IVS Intrusion, tripwire, loitering detection, people gathering	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.Please remove this Clause or IVS by VMS Software.	The clause can be read as "Network Bullet Camera, point No - 05, The camera should have minimum AI capabilities which can be configured without any additional Licences as per the standards and shall support VMS integration."		
9	Network Bullet Camera, point No -41,	Network Bullet Camera, point No -41,	Interoperability ONVIF G,S,T & M	Onvif Profile S,G& T is standard Onvif Profile followed by all CCTV OEM's it's geenric point.	Accepted		
10	Technical Specification of PTZ Camera- point No -07	Technical Specification of	Electronic Shutter 1/5s~1/100,000 s	1/1 s-1/30,000 s is standard Electronic Shutter Speed followed by all OEM's.	The clause can be read as " Electronic shutter should be ranged 1/1 s–1/30,000 s to 1 / 5s \sim 1 / 100,000 s.		
11		Technical Specification of PTZ Camera- point No -07	Edge Video Content Analytics Camera should have in-built Edge Based Analytics, Pedestrian Intrusion Detection, Line cross Detection, SOD-Stationaary Object Detection, Vehicle Detection, face Detection (PID/LCD/SOD/PD&VD/FD/CC/SOD)	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. OEM Suggestion: Please remove this Clause or IVS Through the VMS Software.	Tender clause may be tread as "Edge Video Content Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required. "		
15	2D. Technical Specification of ANPR Camera, Point no -6	2D. Technical Specification of ANPR Camera, Point no -6		Requesting to modify this cluase as 10 to 50 mm for accuracy & result so kinldy amened this cluase with motorized lense. For Allow the maximum Oem for Bid.	Tender clause may be read as " ANPR camera lens CS mountable, fixed iris, 5mm -50mm prime lens"		

TP SOUTHER N ODISHA DISTRIBUI TION LIMITED, BERHAMP UR, Doc. No SC-SSS-1	Ī					
S.No	Page No. in the Tender	Clause No:	Particulars of the query / clarification	Remarks		
1	Page No.22, Point No -2	I.A. Network Dome Camera	Max. Resolution 2560[H] X 1920[V]	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend 4MP or Better Camera.	Go through the modified specifications	
3	3 Page No.22, Point No -18	IA. Network Dome Camera	IVS (Perimeter Protection) Intrusion detection, Loitering detection, Line crossing detection	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	For Dome Camera IVS not required	
4	4 Page No.22, Point No -24	IA. Network Dome Camera	Resolution 30 fps @ 2880x1616 or better	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend 4MP or Better Camera.	Go through the modified specifications	

Page No.24, Point No -17	1B. Network Bullet Camera	Smart Object Detection Abandoned object; Missing object	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Edge Video Content Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
Page No.24, Point No -41	1B. Network Bullet Camera	Interoperability ONVIF G,S,T & M	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	Agree
Page No.36, Point No -14	1H. 32 Channel Network Video Recorder (NVR)	Record Interval $1\sim120$ min (default: 60 min), Pre-record: $1\sim30$ sec, Post-record: $10\sim300$ sec	Record Interval $1\sim60$ min (default: 60 min), Pre-record: $1\sim30$ sec, Post-record: $10\sim300$ sec is standard Record Interval followed by all OEM's.	$1\sim120$ min (default: 60 min), Pre-record: $1\sim30$ sec, Post-record: $10\sim300$ sec and $1\sim60$ min (default: 60 min), Pre-record: $1\sim30$ sec, Post-record: $10\sim30$ sec , Both are acceptable
Page No.37, Point No - 21	1H. 32 Channel Network Video Recorder (NVR)	Interface 4 RJ-45 Ports (10/100/1000Mbps)	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	Agree
Page No.37, Point No - 22	1H. 32 Channel Network Video Recorder (NVR)	Ethernet Port 4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	2 port asceeptable but the ports must work Joint or independent
Page No.37, Point No - 14	1I. 64 Channel Network Video Recorder (NVR)	Record Interval 1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec	Record Interval $1\sim60$ min (default: 60 min), Pre-record: $1\sim30$ sec, Post-record: $10\sim300$ sec is standard Record Interval followed by all OEM's.	$1\sim120$ min (default: 60 min), Pre-record: $1\sim30$ sec, Post-record: $10\sim300$ sec and $1\sim60$ min (default: 60 min), Pre-record: $1\sim30$ sec, Post-record: $10\sim30$ sec , Both are acceptable
Page No.37, Point No - 21	1I. 64 Channel Network Video Recorder (NVR)	Interface 4 RJ-45 Ports (10/100/1000Mbps)	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	Agree
Page No.37 , Point No-22	1I. 64 Channel Network Video Recorder (NVR)	Ethernet Port 4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	2 port ascceptable but the ports must work Joint or independent
Page No.48 , Point No-6	2D. Technical Specification of ANPR Camera	Lens CS mountable, fixed iris, 6mm prime lens	Requesting to modify this cluase as 10 to 50 mm for accuracy & result so kinldy amened this cluase with motorized lense . For Allow the maximum Oem for Bid.	Agree
Page No.50 , Point No-7	2E. Technical Specification of PTZ Camera	Electronic Shutter 1/5s~1/100,000 s	1/1 s-1/30,000 s is standard Electronic Shutter Speed followed by all OEM's.	Both are acceptable
Page No.50 , Point No-19	2E. Technical Specification of PTZ Camera	Image Setting white balance, brightness, contrast, saturation, sharpness, gamma curve, defog, 3DNR, HLM, EIS (built-in gyro sensor), scene mode (auto), exposure strategy (measurement window, metering mode), Privacy mask, Pixel calculator, Scheduled profile settings	It's single OEM Specific specification basically thus requesting you remove this clause . 3DNR,HLC,BLC,WDR,EIS ,Brightness ,Contrast,Sharpness,Gamma followed by all OEM's.	Agree, without 3DNR,HLC,BLC,WDR,EIS ,Brightness ,Contrast,Sharpness,Gamma also acceptable
Page No.50 , Point No-21	2E. Technical Specification of PTZ Camera	TF card Seamless Recording to MicroSD/SDHC/SDXC card (1TB capacity supported) and recording to network-attached storage (NAS)	512GB memory card slot in a PTZ camera is used for local video storage, allowing the camera to record footage directly to the card without needing an external storage device or cloud service. This provides a convenient way to store and access recorded video, especially when network connectivity is limited or unavailable. 512GB is standard Electronic Shutter Speed followed by all OEM's.	Adhere to specification
	Page No.24, Point No -41 Page No.36, Point No -14 Page No.37, Point No - 21 Page No.37, Point No - 22 Page No.37, Point No - 21 Page No.37, Point No - 21 Page No.37, Point No -21 Page No.37, Point No-6 Page No.50, Point No-7 Page No.50, Point No-19	Page No.24, Point No -17 Camera Page No.24, Point No -41 Page No.36, Point No -41 Page No.37, Point No - 21 Page No.37, Point No - 22 Page No.37, Point No - 22 Page No.37, Point No - 24 Page No.37, Point No - 25 Page No.37, Point No - 26 Page No.37, Point No - 27 Page No.37, Point No - 21 Page No.37, Point No - 22 Page No.37, Point No - 21 Page No.37, Point No - 22 Page No.37, Point No - 20 Page No.37, Point No - 21 Page No.38, Point No - 21 Page No.50, Point No - 21 Page No - 20 Page No	Abandoned object; Missing object Page No.24, Point No.41 18. Network Bullet Camera 18. Network Bullet Camera 18. Network Gas, T. & M 18. Network Bullet Camera 18. Network Gas, T. & M 18. Network Video Recorder (NVR) 18. 32 Channel Netw	B. Network Bullet Smart Object Disection Abandoned object Smart Object Smart Object Abandoned objec

24	Page No.50, Point No-29	2E. Technical Specification of PTZ Camera	Edge Video Content Analytics Intrusion detection, Loitering detection, Line crossing detection, Face detection, Unattended object detection, Missing object detection, SoC with built-in hardware deep learning accelerator, Object Detection [People, Vehicle (4-wheeled, 2-wheeled)], Attribute Extraction [People (gender, clothing colour, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, colour), Re-Search Extraction, Path Extraction	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Edge Video Content Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
25	Page No.50 , Point No-44	2E. Technical Specification of PTZ Camera	Compatibility ONVIF profile S , G ,T & M	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	Agree
26	Page No.49 , Point No-6	2E. Technical Specification of PTZ Camera	Zoom 40 X optical Zoom, 32 X Digital Zoom, Auto Pan mode	Opetical Zoom 45X and 16X Digital Zoom is standard Opetical and Digital Zoom followed by all OEM's.	40 X optical Zoom, 32 X Digital Zoom and 45X and 16X Digital Zoom, both are accepted
27	Additional Point	Critiarea	Additional Point	CCTV Camera OEM should be fulltime member of ONVIF and quoted Camera models should be listed on ONVIF official website (All the certifications & Credentials should be valid on the date of technical evaluation).	Please follow the Technical specifications
		TP ODISHA DISCOM (TI	PCODL, TPNODL) SOW & Technical Specs for CCTV System	n at TP-Odisha	
S.No	Page No. in the Tender	Clause No:	Particulars of the query / clarification	Remarks	
1	1G. 16 Channel Network Video Recorder (NVR)P	16. Technical Specification 16 Channel Network Video Recorder (NVR) -Point No - 21	Hard Disk 2 SATA ports, Each disk can contain up to 20 TB.	As Per RFP 180 days storage is not enough in 2 SATA" Port So kinldy amened 8 SATA port of each NVR.	Tender clause may be read as "The requirement is for 180 days of backup storage. Bidders must calculate the necessary storage capacity and submit their proposals accordingly."
2	Network Bullet Camera, point No -02,	Network Bullet Camera, point No -02,	Max. Resolution 2560x1920 (5MP)	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend 4MP or Better Camera.	Tender clause Stands
3	Network Bullet Camera, point No -03,	Network Bullet Camera, point No -03,	ROM 4GB	It's single OEM Specific specification basically thus requesting you remove this clause . Suggestion: 128MB or better is ROM followed by all OEM's.	The caluse can be read as" Network Bullet Camera, point No -03, - ROM 1GB or higher"
4	Network Bullet Camera, point No -04,	Network Bullet Camera, point No -04,	RAM 1GB	It's single OEM Specific specification basically thus requesting you remove this clause . Suggestion: 512MB or better is standard RAM followed by all OEM's.	The caluse can be read as" The RAM of network Bullet Camera should minimum 512MB or higher.

1			1			
	Network Bullet Camera, point No -05,	Network Bullet Camera, point No -05,	IVS Intrusion, tripwire, loitering detection, people gathering	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	The clause can be read as "Network Bullet Camera, point No - 05,The camera should have minimum AI capabilities which can be configured without any additional Licences as per the standards and shall support VMS integration."	
61	Network Bullet Camera, point No -17,	Network Bullet Camera, point No -17,	Smart Object Detection Smart abandoned object; smart missing object	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.Please remove this Clause or IVS by VMS Software.	The clause can be read as " Network Bullet Camera, point No - 17,The camera should have minimum AI capabilities which can be configured without any additional Licences as per the standards and shall support VMS integration."	
	Network Bullet Camera, point No -19,	Network Bullet Camera, point No -19,	Video Metadata Object Detection: People, Vehicle (4-wheeled, 2-wheeled); Attribute Extraction: People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color); Re-Search Extraction; Path Extraction, Smart Motion Detection, Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Unattended object detection, Missing object detection, Face detection, Crowd detection.	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.Please remove this Clause or IVS by VMS Software.	The clause can be read as " Network Bullet Camera, point No - 19,The camera should have minimum AI capabilities which can be configured without any additional Licences as per the standards and shall support VMS integration."	
	Network Bullet Camera, point No -26,	Network Bullet Camera, point No -26,	Video Bit Rate. H.264: 32 kbps-16384 kbps; H.265: 12 kbps-11776 kbps.	OEM Suggestion : H.264:8 kbps-6144 kbps, H.265:3 kbps-6144 kbps is Standard Bit rate Follow by all OEM's.	The clause can be read as "Video Bit rate should be ranged H.264:8 kbps-6144 kbps, H.265: 3 kbps-6144 kbps to H.264: 32 kbps-16384 kbps; H.265: 12 kbps-11776 kbps.	
Q1	Network Bullet Camera, point No -41,	Network Bullet Camera, point No -41,	Interoperability ONVIF G,S,T & M	Onvif Profile S,G& T is standard Onvif Profile followed by all CCTV OEM's it's geenric point.	Accepted	
	Technical Specification of PTZ Camera- point No -07	Technical Specification of PTZ Camera- point No -07	Electronic Shutter 1/5s ~ 1/100,000 s	1/1 s-1/30,000 s is standard Electronic Shutter Speed followed by all OEM's.	The clause can be read as " Electronic shutter should be ranged $1/1$ s= $1/30,000$ s to $1/5$ s $\sim 1/100,000$ s.	
		Technical Specification of PTZ Camera- point No -07	Edge Video Content Analytics Camera should have in-built Edge Based Analytics, Pedestrian Intrusion Detection, Line cross Detection, SOD-Stationaary Object Detection, Vehicle Detection, face Detection (PID/LCD/SOD/PD&VD/FD/CC/SOD)	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. OEM Suggestion: Please remove this Clause or IVS Through the VMS Software.	Tender clause may be tread as "Edge Video Content Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required. "	
12	Technical Specification of PTZ Camera- point No -43	Technical Specification of PTZ Camera- point No -43	BNC 1XBNC	BNC connector is used typically for analog video (CVBS, HD-CVI/TVI/AHD), while IP cameras use RJ45 (network). Please remove this Clause.	Tender clause can be removed.	
13		Technical Specification of PTZ Camera- point No -46	Compatibility ONVIF profile S , G and Q	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	Accepted	

2D. Technical Specification of ANPR	2D. Technical Specification		Currently As per Govt normes all product should be		
Camera, Point no -2	of ANPR Camera, Point no -2	Processor Hisilicon, specialized license plate recognition chip	requierd MII complinace and need manufacturing in india , So chip set is many more out of china , so please remove the cluase .	Tender clause stands	
2D. Technical Specification of ANPR Camera, Point no -6	2D. Technical Specification of ANPR Camera, Point no -6	Lens CS mountable, fixed iris, 6mm prime lens	Requesting to modify this cluase as 10 to 50 mm for accuracy & result so kinldy amened this cluase with motorized lense . For Allow the maximum Oem for Bid.	Tender clause may be read as " ANPR camera lens CS mountable, fixed iris, 5mm -50mm prime lens"	
RN ODISHA DISTRIBUIT	TION LIMITED, BERHAMI	PUR, Doc. No SC-SSS-1			
Page No. in the Tender	Clause No:	Particulars of the query / clarification	Remarks		
Page No.22, Point No -2	1A. Network Dome Camera	Max. Resolution 2560[H] X 1920[V]	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend 4MP or Better Camera.	Go through the modified specifications	
Page No.22, Point No -18	1A. Network Dome Camera	IVS (Perimeter Protection) Intrusion detection, Loitering detection, Line crossing detection	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	For Dome Camera IVS not required	
Page No.22, Point No -24	1A. Network Dome Camera	Resolution 30 fps @ 2880x1616 or better	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage.	Go through the modified specifications	
	Camera, Point no -6 RN ODISHA DISTRIBUT Page No. in the Tender Page No.22, Point No -2 Page No.22, Point No -18	Page No.22, Point No -18 IA. Network Dome Camera Page No.22, Point No -18 IA. Network Dome Camera IA. Network Dome Camera	CS mountable, fixed iris, 6mm prime lens -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	CS mountable, fixed iris, 6mm prime lens and MAPR Camera, Point no -6 AR ODISHA DISTRIBUTION LIMITED, BERHAMPUR, Doe. No SC-SSS-1 Page No. in the Tender Clause No: Particulars of the query / clarification Remarks Remarks Page No. 22, Point No -2 As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Cemeras) intrusion detection, Lottering detection, Line crossing detection Page No. 22, Point No -18 As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Cemeras) intrusion of detection, Lottering detection, Line crossing detection Page No. 22, Point No -14 Page No. 22, Point No -24 Page No. 22, Point No -	Camera, Point no 4. APP Camera

5	Page No.22, Point No -22	1A. Network Dome Camera	Video Frame Rate Main Stream: 30fps @2880x1616, 2688x1512, 2560x1440, 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) 2nd Stream: 30fps @1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) 3rd Stream: 30 fps @ 1280x720, 640x360, 480x272 (16:9)	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend Main stream: Main stream: 4MP (2688 × 1520)@1–20 fps/ (2560×1440)1-25/30fps Sub stream 1: D1@1–25/30 fps; Sub stream 2: D1@1–25/30 fps; Sub stream 3: D1@1fps	Go through the modified specifications	
6	Page No.22, Point No -26	1A. Network Dome Camera	Video Bit Rate H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps	H.265: 3 kbps-6144 kbps, H.264: 8 kbps-6144 kbps is Standard Bit rate Follow by all OEM's.	Agree	
7	Page No.24, Point No -2	1B. Network Bullet Camera	Max. Resolution 2560x1920 (5MP)	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend 4MP or Better Camera.	Adhere to specification	
8	Page No.24, Point No -3	1B. Network Bullet Camera	ROM 4 GB	It's single OEM Specific specification basically thus requesting you remove this clause . 128MB is ROM followed by all OEM's.	Adhere to specification	
9	Page No.24, Point No -4	1B. Network Bullet Camera	RAM 1 GB	It's single OEM Specific specification basically thus requesting you remove this clause . 512MB is standard RAM followed by all OEM's.	Adhere to specification	
11	Page No.24, Point No -16	1B. Network Bullet Camera	IVS Intrusion, tripwire, loitering detection, people gathering	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.	
12	Page No.24, Point No -17	1B. Network Bullet Camera	Smart Object Detection Abandoned object; Missing object	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.	
13	Page No.24, Point No -41	1B. Network Bullet Camera	Interoperability ONVIF G,S,T & M	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	Agree	
1	1G. 16 Channel Network	16. Technical Specification 16 Channel Network Video	Hard Disk	As Per RFP 180 days storage is not enough in 2 SATA"	The requirement is for 180 days of backup storage. Bidders must calculate the necessary storage capacity and submit their	
	Video Recorder (NVR)P	Recorder (NVR) -Point No - 21	2 SATA ports, Each disk can contain up to 20 TB.	Port So kinldy amened 8 SATA port of each NVR.	proposals accordingly.	

Network Bullet Camera, point No -02,	Network Bullet Camera, point No -02,	Max. Resolution 2560x1920 (5MP)	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend 4MP or Better Camera.	Adhere to specification	
Network Bullet Camera, point No -03,	Network Bullet Camera, point No -03,	ROM 4GB	It's single OEM Specific specification basically thus requesting you remove this clause . Suggestion: 128MB or better is ROM followed by all OEM's.	Adhere to specification	
4 Network Bullet Camera, point No -04,	Network Bullet Camera, point No -04,	RAM 1GB	It's single OEM Specific specification basically thus requesting you remove this clause . Suggestion: 512MB or better is standard RAM followed by all OEM's.	Adhere to specification	
Network Bullet Camera, point No -05,	Network Bullet Camera, point No -05,	IVS Intrusion, tripwire, loitering detection, people gathering	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on eybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.	
Network Bullet Camera, point No -17,	Network Bullet Camera, point No -17,	Smart Object Detection Smart abandoned object; smart missing object	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.	
7 Network Bullet Camera, point No -19,	Network Bullet Camera, point No -19,	Video Metadata Object Detection: People, Vehicle (4-wheeled, 2-wheeled); Attribute Extraction: People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color); Re-Search Extraction; Path Extraction, Smart Motion Detection, Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Unattended object detection, Missing	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.	
Network Bullet Camera, point No -26,	Network Bullet Camera, point No -26,	Video Bit Rate. H.264: 32 kbps-16384 kbps; H.265: 12 kbps-11776 kbps.	OEM Suggestion : H.264:8 kbps-6144 kbps, H.265: 3 kbps-6144 kbps is Standard Bit rate Follow by all OEM's.	Agree	
Network Bullet Camera,	Network Bullet Camera,	Interoperability	Onvif Profile S,G& T is standard Onvif Profile followed by all CCTV		

	Technical Specification of	Technical Specification of	Electronic Shutter	1/1 s-1/30,000 s is standard Electronic Shutter Speed followed by all		
10		PTZ Camera- point No -07		OEM's.	Agree	
11		Technical Specification of PTZ Camera- point No -07	Edge Video Content Analytics Camera should have in-built Edge Based Analytics, Pedestrian Intrusion Detection, Line cross Detection, SOD-Stationaary Object Detection, Vehicle Detection, face Detection (PID/LCD/SOD/PD&VD/FD/CC/SOD)	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. OEM Suggestion: Please remove this Clause or IVS Through the VMS Software.	Edge Video Content Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.	
12		Technical Specification of PTZ Camera- point No -43	BNC 1XBNC	BNC connector is used typically for analog video (CVBS, HD-CVI/TVI/AHD), while IP cameras use RJ45 (network). Please remove this Clause.	Without BNC is acceptable	
13		Technical Specification of PTZ Camera- point No -46	Compatibility ONVIF profile S , G and Q	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	Agree	
14	2D. Technical Specification of ANPR Camera, Point no -2	2D. Technical Specification of ANPR Camera, Point no -2	Processor Hisilicon, specialized license plate recognition chip	Currently As per Govt normes all product should be requierd MII complinace and need manufacturing in india, So chip set is many more out of china, so please remove the cluase.	Agree	
15	2D. Technical Specification of ANPR Camera, Point no -6	2D. Technical Specification of ANPR Camera, Point no -6		Requesting to modify this cluase as 10 to 50 mm for accuracy & result so kinldy amened this cluase with motorized lense . For Allow the maximum Oem for Bid.	Agree	
1	Page 9(Document name-	2.0 Pre- Qualification Criteria, B-Financial Pre- Qualification Requirements , 2 (Experience)	surveillance system works during the last 5 years.	Requesting main clause to be amended as "a) The bidder should have completion of cumulative orders of Rs. 6 Cr. for similar types of CCTV and surveillance system works or any IT/ITES Works during the last 5 years. Copy of work order to be submitted in this regard."	Requesting main clause to be amended as "a) The bidder should have completion of cumulative orders of Rs. 6 Cr. for similar types of CCTV or surveillance system works including LAN/WAN Networking during the last 5 years. Copy of work order to be submitted in this regard.	

2 Page-1(Document na spec)	me 1. IP BULLET CAMERA IR 60 MTRS	4MP(1/3"" 4 MP PS CMOS Image Sensor, Max. 4MP (2560 x 1440) @25/30 fps, and 4MP (2688 X 1520) @ 20 fbps, H.265 +/H.264+dual stream encoding, WDR(120 dB), Day / Night (ICR), 3D - DNR, ROI, AWB,AGC, BLC,HLC, 3.6mm fixed lens (2.8 mm optional) IR Range of 60 Mtrs, IP67, Poe, Mobile Software: Android and I phone supported. The device should be supported CMS software and must have STQC certification	Request: Requesting your kind attention to amend the CCTV specifications as outlined below. Kindly remove the following points, as they pertain to NVR parameters and are not relevant to the CCTV hardware specifications: - Mobile Software: Android and I phone supported The device should be supported CMS software and must have STQC certification Justification: The proposed changes are intended to ensure the specifications are more appropriate and justified, aiming to deliver better performance and operational efficiency. CCTV SPECIFICATION: IP BULLET CAMERA IR 60 MTRS 1. SMP (2560 X 1920), Motorized V/F IR Bullet Camera. 2. Image Sensor: 1/2.8" Progressive Scan CMOS Sensor. 3. Focal Length: 2.7mm to 13.5mm, P-Iris 4. Triple streams (H.265 / H.265 / MJPEG) 5. Up to 60m IR or better 6. True Day Night (TDN) with automatic removable cut filter 7. True WDR, 120dB 8. Audio Communication: Bi-directional audio (2-way), 1IN/1OUT 9. ONVIF Profile S, G, T & M 10. Alarm IN x 1, Alarm OUT x 1 11. PoE & 12VDC support power supply failover 12. Built-in micro SD card slot, up to 1TB (Encrypted Storage) 13. IP67, IK10 & NEMA 4X 14. CE, FCC, UL & BIS	STQC is mandatory however rest of the suggested specification is acceptable	
Page-1(Document na spec)	me 2. IP DOME CAMERA IF 30 MTRS	(1/3"" 4MP PS CMOS Image Sensor, Max 4 MP (2560 X 1440)@25/30fps and 4MP (2688 X 1520) @20 fps,H.265+and H.264+ dual stream encoding, WDR(120dB), Day/Night (ICR), 3D-DNR, ROI, AWB, AGC, BLC, HLC,3.6mm fixed lens (2.8mm optional), IR Range of 30 Mtrs, IP67, POE, Mobile Software: Android and I phone supported. The device should be supported CMS software and must have STQC certification	Request: Requesting your kind attention to amend the CCTV specifications as outlined below. Kindly remove the following points, as they pertain to NVR parameters and are not relevant to the CCTV hardware specifications: - Mobile Software: Android and I phone supported The device should be supported CMS software and must have STQC certification Justification: The proposed changes are intended to ensure the specifications are more appropriate and justified, aiming to deliver better performance and operational efficiency. CCTV SPECIFICATION: IP DOME CAMERA IR 30 MTRS 1. SMP (2560 X 1920), Motorized V/F IR Dome Camera. 2. Image Sensor: 1/2.8" Progressive Scan CMOS Sensor. 3. Focal Length: 2.7mm to 13.5mm, P-Iris 4. Triple streams (H.265 / H.265 / MJPEG) 5. Up to 30m IR or better 6. True Day Night (TDN) with automatic removable cut filter 7. True WDR, 120dB 8. Audio Communication: Bi-directional audio (2-way), 1IN/10UT 9. ONVIF Profile S, G, T & M 10. Alarm IN x 1, Alarm OUT x 1 11. PoE & 12VDC support power supply failover 12. Built-in micro SD card slot, up to 1TB (Encrypted Storage) 13. IP67, IK10 & NEMA 4X 14. CE, FCC, UL & BIS	STQC is mandatory however rest of the suggested specification is acceptable	

				specifications as outlined below.		
4	Page-1(Document name spec)	3. 8 CHANNEL NVR	Support 8 Channel IP camera input, Max 80Mbps Network Bandwidth, Smart H.265+/H.265/Smart H.264+/H.264 codec decoding, Up to 8MP resolution preview and playback, support 1 SATA HDDs up to 8TB, 2 USB Ports,(USB 2.0), VGA / HDMI simulations video output,maximum resolution of HDMI simultaneous video output, maximum resolution of HDMI is 1080P, support multi-brand network cameras, ONVIF version conformance, Mobile Software: CMS software should be available,	Justification: The proposed changes are intended to ensure the specifications are more appropriate and justified, aiming to deliver better performance and operational efficiency. NVR SPECIFICATION: 12- CHANNEL NVR 1. Channels Supported: 12 channels IP input 2. Embedded OS: Linux-based 3. Storage Capacity Upto 144TB; HDD Interface 8 X SATA @ 18TB each Hard Disk 4. RAID 0 / 1 / 5 / 10 supported 5. Network Bandwidth: 512Mbps / 512Mbps (Incoming / Outgoing) 6. Monitor Output: HDMI 2.0 X 1 (Main) 7. LAN: 2 X RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface 8. USB: 2 X USB 2.0, 1 X USB 3.0 9. Alarm IN X 2, Alarm OUT x 1 10. Factory Reset Button: Yes 11. ONVIFS 12. Certification: BIS, CE & FCC 13. CMS software should be available 14. Mobile Connection: iOS / Android 15. Supports upto 12MP Resolution 16. H.265 / H.264 / MJPEG Compression Technique 17. NVR Native Client and Local Client for connecting multiple NVRs	Refer to the original NVR requirement, suggested configuraiton is not acceptable	
5	Page-50(Document name- SLA, SOW, TS & BOM) Or Page-48(Document name- Specifications of Security Surveillance System Phase- 2_R0)	2C. Outdoor Junction Box	2C. Outdoor Junction Box	Please clarify the Mounting Rail with mounting Channels and how many U required for this JB. (If applicable)	Specification of outdoor junction box is mentioned in the RFP , However the dimension of the junction box should be 600H x 400W x 300D, 12 U rack space required.	
6	Page-22(Document name- SLA, SOW, TS & BOM)	ANNEXURE I Price Schedule for Rate contract for CCTV Installation Work at Stores and PSS	1	Laying standard is not mentioned for Quantity for PSS is 15000 Mtr, Quantity for Store and Office location is 7760 Mtr. Please Clarify any standard procedure follow by Tata power. Is there any specific standard for OFC	The required cable should be supplied and laid as per the attached specification with RFP.	
7	Page-22(Document name- SLA, SOW, TS & BOM)	Installation, testing and commissioning of Control center as well as at Data Centre	Installation, testing and commissioning of Control center as well as at Data Centre	If there are any active and passive layout architectures, pls share	All the architecture required document can be shared with the successful bidder after successful POC of the solution.	
1	7	2.0 Pre- Qualification Criteria A 1.c	The Bidder shall be either manufacturer of critical components or shall be a manufacturer's authorised system integrator of the Security surveillance system specified in this document. In latter case, the bidder shall give backup guarantee from the OEM for support and satisfactory performance as specified in this document. Cameras and NVR should be Make in India compliant with STOC and BIS certified Kindly confirm if OEM & System Integrator both are	e allowed to bid in the tender	Yes	
2	7	2.0 Pre- Qualification Criteria A 1.d	similar type work for power utility	System integrator is bidding and can submit OEM implemented	Yes, but the bidder must have experience in CCTV Works	
3	7	2.0 Pre- Qualification Criteria A 1.e	Bidder /OEM must have experience to deploy IP based CCTV Surveillance System with minimum 250 nos. IP cameras in a Server/VMS based system in a single order in last seven years. Copy of Work Order and Copy of Completion Certificate / submitted Request to make the camera nos. to 200 IP cameras		Agree	

4	8	2.0 Pre- Qualification Criteria A 1.f	For future expansion, the surveillance system should be independent of camera make and shall support at least 10 different makes of camera. (List of Supported Camera Makes to be submitted by the bidder) and OEM declaration is required for the same. g) Bidders /OEM must have - For this we would suggest to take O	pen Platform VMS	Adhere to specification
5	8	2.0 Pre- Qualification Criteria A 1.f	Bidders /OEM must have manufacturing facilities Manufacturing capacity, details of works executed. Details		
		1.1	of plant and machinery, manufacturing and testing facilities - This	s clause should be applicable of OEM's	Agree, Bidders must include required OEM documentation.
6	8	2.0 Pre- Qualification Criteria A 1.h	CCTV OEM should have direct presence in India since last 5 Years. Documentary evidence to be submitted. Bidder shall have the capability to integrate the new Security Surveillance system being offered. He must have Service centre in Bhubaneswar. The manufacturing facility must be in India since last 5 years Request to give relaxation on no. of years for manufacturing facility in India	facility in India as post STQC regulation all OEM's are setting up the	Adhere to tender clause
1	1G. 16 Channel Network Video Recorder (NVR)P	16. Technical Specification 16 Channel Network Video Recorder (NVR) -Point No - 21	Hard Disk 2 SATA ports, Each disk can contain up to 20 TB.	As Per RFP 180 days storage is not enough in 2 SATA" Port So kinldy amened 8 SATA port of each NVR.	The requirement is for 180 days of backup storage. Bidders must calculate the necessary storage capacity and submit their proposals accordingly.
2	Network Bullet Camera, point No 02,	Network Bullet Camera, point No 02,	May Recolution	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend 4MP or Better Camera.	Adhere to specification
3	Network Bullet Camera, point No 05,	Network Bullet Camera, point No 05,		As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
4	Network Bullet Camera, point No- 17,	Network Bullet Camera, point No. 17,	- Smart Object Detection Smart abandoned object; smart missing object	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
5	Network Bullet Camera, point No 19,	19,	Video Metadata Object Detection: People, Vehicle (4-wheeled, 2-wheeled); Attribute Extraction: People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color); Re-Search Extraction; Path Extraction, Smart Motion Detection, Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Unattended object detection, Missing object detection, Face detection, Crowd detection.	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	
6	Technical Specification of PTZ	Technical Specification of PTZ	Electronic Shutter	1/1 s-1/30,000 s is standard Electronic Shutter Speed followed by all OEM's.	Agrae
7	Camera- point No -07 Technical Specification of PTZ Camera- point No -07	Camera- point No -07 Technical Specification of PTZ Camera- point No -07	Edge Video Content Analytics Camera should have in-built Edge Based Analytics, Pedestrian Intrusion Detection, Line cross Detection, SOD-Stationaary Object Detection, Vehicle Detection, face Detection	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily AI capabilities. While AI is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. OEM Suggestion: Please remove this Clause or IVS Through the VMS	Edge Video Content Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote
			(PID/LCD/SOD/PD&VD/FD/CC/SOD)	Software.	monitoring, ensuring no extra bandwidth is required.

8	Technical Specification of PTZ	Technical Specification of PTZ			
		'	Compatibility	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	
	Camera- point No -46	Camera- point No -46	ONVIF profile S , G and Q		Agree
	2D. Technical Specification of	2D. Technical Specification of		Currently As per Govt normes all product should be requierd MII	
9	ANPR Camera, Point no -2	ANPR Camera, Point no -2	Processor	complinace and need manufacturing in india , So chip set is many more	
		-	Hisilicon, specialized license plate recognition chip	out of china , so please remove the cluase .	Agree
40	2D. Technical Specification of	2D. Technical Specification of	1	Requesting to modify this cluase as 10 to 50 mm for accuracy & result	
10	ANPR Camera, Point no -6	ANPR Camera, Point no -6	Lens CS mountable, fixed iris, 6mm prime lens	so kinldy amened this cluase with motorized lense . For Allow the maximum Oem for Bid.	Advan
					Agree
		TP SOUTHER	N ODISHA DISTRIBUITION LIMITED, BERHAMPUR , Doc. No SC-SS	S-1 	
S.No	Page No. in the Tender	Clause No:	Particulars of the query / clarification	Remarks	
				Higher resolution cameras (tike 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying	
1	Page No.22, Point No -2	1A. Network Dome Camera	Max. Resolution 2560[H] X 1920[V]	individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage.	
				Please amend 4MP or Better Camera.	Adhere to specification
2	Page No.22, Point No -18	1A. Network Dome Camera	IVS (Perimeter Protection) Intrusion detection, Loitering detection, Line crossing detection	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
3	Page No.22, Point No -24	1A. Network Dome Camera	Resolution 30 fps @ 2880x1616 or better	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage.	
4	Page No.22, Point No -22	1A. Network Dome Camera	Video Frame Rate Main Stream:: 30 fps @2880x1616, 2688x1512, 2560x1440, 1920x1080, 1600x904, 1360x768, 1280x720, 640x360(16:9) 2nd Stream: 30 fps @1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) 3rd Stream:: 30 fps @ 1280x720, 640x360, 480x272 (16:9)	Please amend 4MP or Better Camera. Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend Main stream: Main stream: 4MP (2688 × 1520)@1–20 fps/ (2560×1440)1-25/30fps Sub stream 1: D1@1-25/30 fps; Sub stream 2: D1@1-25/30 fps; Sub stream 3: D1@1fps	Adhere to specification Accepted
5	Page No.22, Point No -26	1A. Network Dome Camera	Video Bit Rate H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps	H.265: 3 kbps-6144 kbps, H.264: 8 kbps-6144 kbps is Standard Bit rate Follow by all OEM's.	Accepted
6	Page No.24, Point No -2	1B. Network Bullet Camera	Max. Resolution 2560x1920 (5MP)	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend 4MP or Better Camera.	Accepted

7	Page No.24, Point No -3	1B. Network Bullet Camera	ROM 4 GB	It's single OEM Specific specification basically thus requesting you remove this clause.	
				128MB is ROM followed by all OEM's.	Accepted
8	Page No.24, Point No -4	1B. Network Bullet Camera	RAM 1 GB	It's single OEM Specific specification basically thus requesting you remove this clause . 512MB is standard RAM followed by all OEM's.	Accepted
9	Page No.24, Point No -16	1B. Network Bullet Camera	IVS Intrusion, tripwire, toltering detection, people gathering	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
10	Page No.24, Point No -17	1B. Network Bullet Camera	Constant Data dia	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
11	Page No.24, Point No -41	1B. Network Bullet Camera	Interoperability ONVIF G,S,T & M	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	Agree
12	Page No.36, Point No -14	1H. 32 Channel Network Video Recorder (NVR)	300 sec	Record Interval 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec is standard Record Interval followed by all OEM's.	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec and 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec, Both are acceptable
13	Page No.37, Point No - 21	1H. 32 Channel Network Video Recorder (NVR)	Interface 4 RJ-45 Ports (10/100/1000Mbps)	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	Agree
14	Page No.37, Point No - 22	1H. 32 Channel Network Video Recorder (NVR)	Ethernet Port 4 Ethernet Ports Joint Working or 4 Independent 1000Mbps	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	2 port ascceptable but the ports must work Joint or independent
15	Page No.37, Point No - 14	11. 64 Channel Network Video Recorder (NVR)		Record Interval $1 \sim 60$ min (default: 60 min), Pre-record: $1 \sim 30$ sec, Post-record: $10 \sim 300$ sec is standard Record Interval followed by all OEM's.	1 \sim 120 min (default: 60 min), Pre-record: 1 \sim 30 sec, Post-record: 10 \sim 300 sec and 1 \sim 60 min (default: 60 min), Pre-record: 1 \sim 30 sec, Post-record: 10 \sim 300 sec , Both are acceptable
16	Page No.37, Point No - 21	11. 64 Channel Network Video Recorder (NVR)	Interface 4 RJ-45 Ports (10/100/1000Mbps)	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	Agree
17	Page No.37 , Point No-22	1I. 64 Channel Network Video Recorder (NVR)	Ethernet Port 4 Ethernet Ports Joint Working or 4 Independent 1000Mbps	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	2 port ascceptable but the ports must work Joint or independent
18	Page No.48 , Point No-6	2D. Technical Specification of ANPR Camera	Lens CS mountable, fixed iris, 6mm prime lens	Requesting to modify this cluase as 10 to 50 mm for accuracy & result so kinldy amened this cluase with motorized lense. For Allow the maximum Oem for Bid.	Agree
19	Page No.50 , Point No-7	2E. Technical Specification of PTZ		1/1 s-1/30,000 s is standard Electronic Shutter Speed followed by all OEM's.	Both are acceptable
20	Page No.50 , Point No-29	2E. Technical Specification of PTZ Camera	Edge Video Content Analytics Intrusion detection, Loitering detection, Line crossing detection, Face detection, Unattended object detection, Missing object detection, SoC with built-in hardware deep learning accelerator, Object Detection [People, Vehicle (4-wheeled, 2-wheeled)], Attribute Extraction [People (gender, clothing colour, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, colour), Re-Search Extraction, Path Extraction	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian	Edge Video Content Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
21	Page No.50 , Point No-44	2E. Technical Specification of PTZ Camera	Compatibility ONVIF profile S , G ,T & M	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	Agree
22	Page No.49 , Point No-6	2E. Technical Specification of PTZ Camera	Zoom	Opetical Zoom 45X and 16X Digital Zoom is standard Opetical and Digital Zoom followed by all OEM's.	Both are acceptable
23	Additional Point	Critiarea		CCTV Camera OEM should be fulltime member of ONVIF and quoted Camera models should be listed on ONVIF official website (All the certifications & Credentials should be valid on the date of technical evaluation).	Adhere to specification

			T			
24	Additional Point Additional Point	Critiarea Critiarea	Additional Point Additional Point	The Camera OEM should comply to General Data Protection Regulation (GDPR) & Waste Electrical and Electronic Equipment (WEEE). OEM should have valid EPR (Extended Producer Responsibility License/ Authorization No. from Central Pollution Control Board for Electrical & Electronic Equipment E-Waste. OEM need to submit its certificate with technical bid. CCTV OEM should have manufacturing in India since last Five years and Foreign CCTV OEM should have manufacturing unit globally from last 10 Years. (Documentary evidence should be submitted).	Adhere to specification Adhere to specification	
2	1	4	Earnest Money Deposit (EMD) Exemption	As per tender conditions, EMD exemption is allowed only for MSME registered in the State of Odisha. We request clarification/consideration to extend this exemption to valid MSME certificates issued in other States as well, and not restrict it only to Odisha.	Adhere to tender clause	
3	1	4	Reservation for MSME	As per tender conditions, 20% procurement is reserved for MSMEs registered in the State of Odisha. We request clarification/consideration that such reservation should not be restricted only to Odisha MSMEs, but extended to MSMEs registered across all States, subject to meeting technical and quality requirements.	Adhere to tender clause	
4	1	4	Performance Bank Guarantee (PBG) Relaxation	As per tender conditions, the Performance Bank Guarantee (PBG) for MSMEs registered in Odisha is prescribed at 25% of the normal value. We request clarification/consideration to extend this benefit to all MSMEs registered across India, and not restrict it only to Odisha MSMEs.	Adhere to tender clause	
5		9	registered with DISCOM	Bidder Have to registered with DISCOM .Please confirm	Shall be intimated during TER (if required)	
6		9	Factory Inspection	Please Clarrify the process.		
7		6 Specification of Security Surveillance	Existing VMS	We understand that the existing VMS deployed is from Vehant. Kindly clarify whether integration with the existing Vehant VMS is required under the present scope of work, or if a new integration is to be carried out separately.	Go through the tender	
4	12	Design requirements of Video Management System (VMS) & Video Analytics Platform	and alert generation for	Referring to Clause 15.1 Bill of Material (BOM) for Part-A: Surveillance System for Additional 40 PSS, it is mentioned under item 6. that a License for Video Analytics Software for Face Recognition for 50 people is required for 40 cameras. However, on page 12, it appears that a Server- based Face Recognition Software License for a minimum of 100 people per camera is specified. Kindly confirm the exact license requirement.	The current requirement is for a license covering 50 people. However, the software must have the technical capability to support a minimum of 100 people per camera to allow for future scalability.	
5	12	Design requirements of Video Management System (VMS) & Video Analytics Platform	12. NVR/LPU at each PSS shall store the video feed recording data for 30 days and the VA system at Security Control Room/PSS LPU shall store the data and alerts for 30 days.			
	4	1.2.2 Part-B: Surveillance for CRC Locations	A minimum of 90 days local storage (with appropriate memory backup/NVR solution) for video recording must be ensured.	Kindly confirm the exact number of days of recording		
6	13	Part-B: Surveillance for CRC Locations	5. The system shall support 24x7 recording with a minimum of 30 days storage capacity.	required, so that the appropriate storage capacity can be proposed.		
7	14	Part-C: Surveillance for Open- Space Stores	The video feed from all cameras shall be recorded continuously on an NVR with minimum 180 days of storage capacity.			
	25	1C. Functional Requirement Specification for Video Management Software (VMS) License	4. Should record H.264 / H.265, MPEG4 or MJPEG in at minimum 25 fps at minimum Full HD (1080p) resolution for 30 days		The scope of work and detailed design are clearly defined in the tender specification document.	

			The VMS license shall be able to get integrated with	Kindly please read as:						
			existing VMS central Software platform and shall be	The VMS license shall be able to get integrated with existing/ newly replaced VMS central Software platform and shall be						
	8 25		Scalable, Client Server based, Enterprise level	Scalable, Client Server based, Enterprise level capable to						
8			capable to integrate new as well as exiting IP camera	integrate new as well as exiting IP camera of any make						
			of any make model in the VMS system. It shall be capable to expand by adding additional camera	model in the VMS system. It shall be capable to expand by						
			license and server in the same VMS platform.	adding additional camera license and server in the						
				same/newly replaced VMS platform.	Agree					
			3. The OEM shall have existing ONVIF membership for	Kindly please read as: 3. The OEM shall have existing ONVIF full membership for						
9	25		open integration with 3rd party system / devises	open integration with 3rd party system / devises integration						
			integration to meet project objective and functionality.	to meet project objective and functionality.	Adhere to specification					
				Kindly please read as:						
		1C. Functional	25 Live View possible for upto 144 live videos and	25 Live View possible for upto 110 live videos and upto 64						
11	25	Requirement Specification for Video Management	upto 64 playback videos simultaneously on 1 screen or multiple monitors using software video wall.	playback videos simultaneously on 1 screen or multiple monitors using software video wall.						
		Software (VMS) License	of multiple monitors using software video walt.	monitors using software video wall.	Agree					
		, ,	22							
			VMS software should have the Encryption algorithm of	Request you kindly remove this clause as this CMMi Level-3						
12	27		1024 / 096-bit RSA and hashing of SHA -512 for	certificate will restrict many OEMs/Bidder to participate.						
			tamper proof data. VMS OEM must be CMMi Level-3 certified and listed on www.cmmiinstitute.com	, ,	Adhere to specification					
				Kindly please read as:	Adhere to Specification					
			55 Should support multiple brand IP camera,	55 Should support multiple brand IP camera, encoders and						
13	28		encoders and DVRs. No restriction on camera hardware. VMS OEM must have presence in India for	DVRs. No restriction on camera hardware. VMS OEM must						
			last 5 years.	have presence in India and should be VMS business for last						
			,	5 years. Kindly please read as:	Adhere to specification					
14	28		56 Should support ONVIF protocol including Profile-S,	56 Should support ONVIF protocol including Profile-S, G, M						
			G & T.	& Т.	Adhere to specification					
				Kindly please read as:						
			Single Unified System							
			Unified AI Based Video Platform - The existing unified AI-based video analytics platform shall be seamless	Single Unified System Unified AI Based Video Platform - The existing/newly						
17	29		integrated with any OnVIF compliant IP Camera	replaced unified Al-based video analytics platform shall be						
								(existing/new both) and additional VA licenses in	seamless integrated with any OnVIF compliant IP Camera	
			existing Video Analytics Platform.	(existing/new both) and additional VA licenses in existing						
				Video Analytics Platform.	Accepted.					
19	30		Alert Monitoring							
			Attribute-based search: Advanced search options will							
20	31	1E Eupational Boquiss	be available to filter results based on object attributes							
		1E. Functional Requirement Specifications for Artificial	like colour, clothing, gender, and object							
		Intelligence Based Video	classification.		Adhere to specification					
		Analytics Platform	Rule Management The system shall allow users creation and save a set	Kindly please confirm the number of Attribute Search						
			of filters called rule by combining conditions, for	license required for Video Analytics OEM						
21	22		example, Object type (Person, Animal), Gender (Male,							
21	33		Female), Clothing (Upper body, Lower body, Colour),							
			and/or Accessories (Handbag, Backpack, Baggage).							
			This ensure a for quick and easy filtering instead of setting individual values each time.		Adhara to engelification					
					Adhere to specification					
			VehicleDetection	Kindhadaaa aa Kindhadaa Kiidhala Barari						
23	34		The Central VA platform shall be capable to detect and capture the images of vehicle entering at the PSS	Kindly please confirm the number of Vehicle Detection license required for Video Analytics OEM						
			premise in the selected camera filed of view(FoV)	assesses required for video/filacytics of r						
					Adhere to specification					

			T	T	
1	Technical Specification> IP BULLET CAMERA IR 60 MTRS	1	IR Range of 60 meter	The IR Range of the Camera can be dependant on its focal length. Normally for 3.6 mm or 4 mm fixed lens the maximum IR Distance should be 40 meters. To extend the IR Distance to 60 meter, need to consider 6 mm lens. Hence, it would be better to amend the clause as "IR Range of 40 meter or better".	Adhere to specification
2	Technical Specification> IP BULLET CAMERA IR 60 MTRS	1	3.6 mm fixed lens	Normally, 3.6 mm lens are used by very specific OEMs. Mostly avialble lens is 4 mm. The features are mostly same as the 3.6 mm lens, even 4mm lens can give better Field of View by advanced technology. Hence, please amend the clause as " 3.6 or 4 mm fixed lens".	Adhere to specification
3	Technical Specification> 8 CHANNEL NVR	2	The device must have STQC certification	As per the recent communication, NVR does not need Certification from STQC. Only IP Cameras will need such certification. Hence, please eliminate this clause from spec.	Accepted
1	14 TECHNICAL PARTICULARS > 1A. Network Dome Camera	22	7. Minimum Illumination: 0.007 Lux@F1.6(Colour,30IRE), 0.01 Lux@F1.6(B/W,30IRE) 0 lux (IR on	Generally, min. illumination of the B/W mode will be depend on the built in IR. Built in IR will be operated automatically while the lux level reaches at 0 Lux. Even, in the very dark mode at lux level 0.01 lux visibility will be too less and quality of image will be poor. Heene, please amend the clause as "Minimum Illumination: 0.007	
2	14 TECHNICAL PARTICULARS > 1A. Network Dome Camera	22	8. S/N Ratio: > 56dB	Lux@F1.6(Color,30IRE), 0 lux (IR on)". Normally, the standard S/N Ratio is ≥52dB which is supported by many OEMs. To keep the spec generic we request to amend the clause as "S/N Ratio: >52dB or better".	Adhere to specification Accepted
3	14 TECHNICAL PARTICULARS > 1A. Network Dome Camera	22	22. Video Frame Rate: Main Stream: 30fps @2880x1616, 2688x1512, 2560x1440, 1920x1080, 1600x904, 1360x768, 1280x720, 640x360(16:9) 2nd Stream: 30fps @1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) 3rd Stream: 30 fps @ 1280x720, 640x360, 480x272 (1	The resolution is mentioned in the frame resolution are uncommon and not the standard resolution. It seems that the specification is made with specific CCTV OEM. Requesting to amend the clause by keeping all the common parameters so that OEMs can participate.	Accepted
4	14 TECHNICAL PARTICULARS > 1A. Network Dome Camera	22	24. Resolution: 30 fps @ 2880x1616 or better	The resolution is asked in the specification is 2560 x 1920 which is 5 MP and it is maximum resolution for Cameras, but in this parameters resolution is mentioned 2880 x 1616 which is not standard and very much uncommon resolutiom in compare to other OEMS technical spec. Request to amend the clause as per the standard resolution of the Cameras.	
5	14 TECHNICAL PARTICULARS > 1B. Network Bullet Came Network Bullet Camera	24	7. Minimum Illumination: 0.006 Lux@F1.6(Color), 0.0006 Lux@F1.6(B/W), 0 lux (IR on)	Generally, min. illumination of the B/W mode will be depend on the built in IR. Built in IR will be operated automatically while the lux level reaches at 0 Lux. Even, in the very dark mode at lux level 0.0006, visibility will be too less and quality of image will be poor. Heene, please amend the clause as "Minimum Illumination: 0.006 Lux@F1.6(Color,30IRE), 0 lux (IR on)".	Adhere to specification
6	14 TECHNICAL PARTICULARS > 1B. Network Bullet Came Network Bullet Camera	24	19. Video Metadata: Object Detection: People, Vehicle (4-wheeled, 2-wheeled); Attribute Extraction: People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color); Re-Search Extraction; Path Extraction, Smart Motion Detection, Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Unattended object detection, Missing object detection, Face detection, Crowd detection	Generally metadata will be required for such camera which is having edge based analytics to be integrated with common VMS Platform so that it can take the metadata from Camera and process. Here, additional analytic application software is there in the BOQ which can take the live video streams from Camera and process the video streams by pre-defined AI features by the application. Hence, it would be better to eliminate this clause for avoiding further confusions.	Adhere to specification
7	14 TECHNICAL PARTICULARS > 1B. Network Bullet Came Network Bullet Camera	25	36. Alarm Event: Audio detection, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot	Shock detection alarm events may be a equivalent feature of Tamper Detection. Few OEMs are using Shock Detection and major OEM in CCTV industry uses Tamper detection as it is very common term, hence request to please amend the spec as " shock detection or tamper detection".	Accepted
8	14 TECHNICAL PARTICULARS > 1B. Network Bullet Came Network Bullet Camera	25	41. Interoperability: ONVIF G,S,T & M	ONVIF Profile M is used for metadata to be integrated with third party system or application. In this Tender there is a separate SI Software application which will do analytics from the video data from the Cameras, for that ONVIF S, G and T will be enough. Hence, please amend the clause as "Interoperability: ONVIF G,S,T".	Accepted

9	14 TECHNICAL PARTICULARS> 1G. 16 Channel Network Video Rec	35		It has been noticed that there are Video Analytic software are there in the BOQ. A detailed technical specification of VMS and analytic Software are there in the techner documents. If analytics features are controlled by the AI software application then Edge based camera analytics will not be required. Please clarify on the same.	Adhere to specification
10	14 TECHNICAL PARTICULARS> 1G. 16 Channel Network Video Rec	35	16. SMD Plus by NVR: 8 Channels: Secondary filtering for human and motor vehicle, Reducing false alarms caused by leaves, Rain and lighting condition change	Cameras with SMD features will alerady have those features to reduce the false alarms, using of SMD Plus NVR will be a additional benefits which can do double filteration. In this scenario, 4 Channels will be sufficient for the NVR to do the double filteration. Hemc, please amend the clause as "4 Channels: Secondary filtering for human and motor vehicle, Reducing false alarms caused by leaves, Rain and lighting condition change:.	Adhere to specification
11	14 TECHNICAL PARTICULARS> 1G. 16 Channel Network Video Rec	36	22. Hard Disk: 2 SATA ports, Each disk can contain upto 20TB	This is brand specific requirement.	Adhere to specification
12	14 TECHNICAL PARTICULARS> 1G. 16 Channel Network Video Rec	36	24. 2 USB Ports (1 front USB 2.0 port, 1 rear USB 3.0 port), 1 RS232, 1 RS485	Generally, 16 Channel 2 SATA NVR is eco series NVR which generally does not have serial interfaces. If these ports are mandetory then, the spec should be for atleast 16 Channel NVR with 4 SATA Interface.	Adhere to specification
13	14 TECHNICAL PARTICULARS> 1H. 32 Channel Network Video	36	21. Interface: 4 RJ-45 Ports (10/100/1000Mbps)	Generally, NVR should have atleast 2 x RJ45 Ethernet Interface for redundancy purposes. It is enough for the NVR for somooth data transmission. Hence, please amend the clause as "Interface: atleast 2 RJ-45 Ports (10/100/1000Mbps)".	Accepted
14	14 TECHNICAL PARTICULARS> 11. 64 Channel Network Video Record	37	21. Interface: 4 RJ-45 Ports (10/100/1000Mbps)	Generally, NVR should have atleast 2 x RJ45 Ethernet Interface for redundancy purposes. It is enough for the NVR for somooth data transmission. Hence, please amend the clause as "Interface: atleast 2 RJ-45 Ports (10/100/1000Mbps)".	Accepted
26	1. Internal HDD: Should have 180 days recording backup (Bite rate-2048Kbps) storage capacity.	In the technical spec of NVR 2 SATA HDD Interface is mentioned. To keep the backup of 180 days 2 SATA HDD will not be enough, moreover the recording parameters are not mentioned to calculate the storage, hence kindly add the clause here as "Storage calculation needs to be done for 180 days".			The requirement is for 180 days of backup storage. Bidders must calculate the necessary storage capacity and submit their proposals accordingly.
27	9. AI by Camera: Face detection, Face recognition, Video metadata (Human, Motor vehicles, Non-motor vehi- cles), Perimeter protection, SMD Plus, Steroe analysis, Crowd distribution, People counting, ANPR, Vehicle density, Heat map	It has been noticed that there are Video Analytic software are there in the BOQ. A detailed technical specification of VMS and analytic Software are there in the techner documents. If analytics features are controlled by the AI software application then Edge based camera analytics will not be required. Please clarify on the same.			Adhere to specification
27	13. Perimeter Performance AI by NVR (Number of Channels): 4 Channels, 10 IVS rules for each Channel	There is a dedicated AI application in the Tender BOQ hence, this is understood that all AI features are controlled and operated by the AI application and VMS. In such eases, the NVR AI features will be not used as it will be connected to the main VMS module and AI Module, all types of events can be handled by VMS. Clarification is required for which purposes the mentioned AI Function are required for NVR.			Adhere to specification

27	15. SMD Plus by NVR : 8 Channels: Secondary filtering for human and motor vehicle, Reducing false alarms caused by leaves, Rain and lighting condition change	Cameras with SMD features will alerady have those features to reduce the false alarms, using of SMD Plus NVR will be a additional benefits which can do double filteration. In this scenario, 4 Channels will be sufficient for the NVR to do the double filteration. Hemc, please amend the clause as "4 Channels: Secondary filtering for human and motor vehicle, Reducing false alarms caused by leaves, Rain and lighting condition changes.		Adhere to specification	
27	17. Metadata Performance of 8 Channels	Generally metadata will be required for such camera which is having edge based analytics to be integrated with common VMS Platform so that it can take the metadata from Camera and process. Here, additional analytic application software is there in the BOQ which can take the live video streams from Camera and process the video streams by predefined AI features by the application. Hence, it would be better to eliminate this clause for avoiding further confusions.		Adhere to specification	
27	23. 2 USB Ports (1 front USB 2.0 port, 1 rear USB 3.0 port), 1 RS232, 1 RS485	Generally, 16 Channel 2 SATA NVR is eco series NVR which generally does not have serial interfaces. If these ports are mandetory then, the spec should be for at least 16 Channel NVR with 4 SATA Interface.		Adhere to specification	
28	3. Minimum Illumination: 0.006 Lux@F1.6(Color,30IRE), 0.0006 Lux@F1.6(B/W,30IRE) 0 lux (IR on)	Generally, min. illumination of the B/W mode will be depend on the built in IR. Built in IR will be operated automatically while the lux level reaches at 0 Lux. Even, in the very dark mode at lux level 0.0006, visibility will be too less and quality of image will be poor. Heene, please amend the clause as "Minimum Illumination: 0.006 Lux@F1.6(Color,30IRE), 0 lux (IR on)".		Adhere to specification	
28	9. S/N Ratio: >56 dB	Normally, the standard S/N Ratio is ≥52dB which is supported by many OEMs. To keep the spec generic we request to amend the clause as " S/N Ratio: >52dB or better".		Accepted	
28	10. Video Compression: H.265, H.264+, H.265, H.264, H.264H, H.264B, MJPEG	Compression format H.264H, H.264B are brand specific, most generic video compression is H.265, H.264 or MJPEG. Hence request to keep the Tender spec generic so that maximum OEM can participate in this Tender.		Accepted	

28	12. Image Stabilization: Electronic Image Stabilization (EIS)	Generally, EIS may not be applicable for the CCTV Cameras as these Cameras will be installed at fixed areas where the image is already stabilized, there is no requirement of additional Image Stabilization features in the fixed cameras. It unnecessarily increases the cost of the Cameras. Hence, please climinate the EIS feature from this spec.		Adhere to specification	
30	7. Minimum Illumination: 0.006 Lux@F1.6(Color), 0.0006 Lux@F1.6(B/W), 0 lux (IR on)	Generally, min. illumination of the B/W mode will be depend on the built in IR. Built in IR will be operated automatically while the lux level reaches at 0 Lux. Even, in the very dark mode at lux level 0.0006, visibility will be too less and quality of image will be poor. Hecne, please amend the clause as "Minimum Illumination: 0.006 Lux@F1.6(Color,30IRE), 0 lux (IR on)".		Adhere to specification	
30	elothing color, bag, hat), Vehicle (bike, bus, car, motorycle, truck, color); Re- Search Extraction; Path Extraction, Smart Motion Detection, Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Unattended object detection, Missing	Platform so that it can take the		Adhere to specification	
32	detection, eybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input, manual trigger, motion detection, periodical trigger, recording	Shock detection alarm events may be a equivalent feature of Tamper Detection. Few OEMs are using Shock Detection and major OEM in CCTV industry uses Tamper detection as it is very common term, hence request to please amend the spec as "shock detection or tamper detection".		Accepted	
41	Interoperability: ONVIF G,S,T & M	ONVIF Profile M is used for metadata to be integrated with third party system or application. In this Tender there is a separate SI Software application which will do analytics from the video data from the Cameras, for that ONVIF S, G and T will be enough. Hence, please amend the clause as "Interoperability: ONVIF G,S,T".		Accepted	

1	1G. 16 Channel Network Video Recorder (NVR)P	16. Technical Specification 16 Channel Network Video Recorder (NVR) -Point No - 21	Hard Disk 2 SATA ports, Each disk can contain up to 20 TB.	As Per RFP 180 days storage is not enough in 2 SATA" Port So kinldy amened 8 SATA port of each NVR .	The requirement is for 180 days of backup storage. Bidders must calculate the necessary storage capacity and submit their proposals accordingly.
2	Network Bullet Camera, point No -02,	Network Bullet Camera, point No -02,	Max. Resolution 2560x1920 (5MP)	Higher resolution cameras (like 2K or 4K) capture more pixels, resutting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend 4MP or Better Camera.	Adhere to specification
3	Network Bullet Camera, point No -03,	Network Bullet Camera, point No -03,	ROM 4GB	It's single OEM Specific specification basically thus requesting you remove this clause . Suggestion: 128MB or better is ROM followed by all OEM's.	Adhere to specification
4	Network Bullet Camera, point No -04,	Network Bullet Camera, point No -04,	RAM 1GB	It's single OEM Specific specification basically thus requesting you remove this clause . Suggestion: 512MB or better is standard RAM followed by all OEM's.	Adhere to specification
5	Network Bullet Camera, point No -05,	Network Bullet Camera, point No -05,	IVS Intrusion, tripwire, loitering detection, people gathering	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
6	Network Bullet Camera, point No -17,	Network Bullet Camera, point No -17,	Smart Object Detection Smart abandoned object; smart missing object	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
7	Network Bullet Camera, point No -19,	Network Bullet Camera, point No -19,	Video Metadata Object Detection: People, Vehicle (4-wheeled, 2-wheeled); Attribute Extraction: People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color); Re-Search Extraction; Path Extraction, Smart Motion Detection, Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Unattended object detection, Missing object detection, Face detection, Crowd detection.	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
8	No -26,	Network Bullet Camera, point No -26,		OEM Suggestion : H.264:8 kbps-6144 kbps, H.265: 3 kbps-6144 kbps is Standard Bit rate Follow by all OEM's.	Accepted
9	Network Bullet Camera, point No -41,	Network Bullet Camera, point No -41,	Interoperability ONVIF G,S,T & M	Onvif Profile S,G& T is standard Onvif Profile followed by all CCTV OEM's it's geenric point .	Accepted
10	Technical Specification of PTZ Camera- point No -07	Technical Specification of PTZ Camera- point No -07		1/1 s-1/30,000 s is standard Electronic Shutter Speed followed by all OEM's.	Accepted
-	· · · · · · · · · · · · · · · · · · ·			-	

11	Technical Specification of PTZ Camera- point No -07	Technical Specification of PTZ Camera- point No -07	Edge Video Content Analytics Camera should have in-built Edge Based Analytics, Pedestrian Intrusion Detection, Line cross Detection, SOD-Stationaary Object Detection, Vehicle Detection, face Detection (PID/LCD/SOD/PD&VD/FD/CC/SOD)	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. OEM Suggestion: Please remove this Clause or IVS Through the VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
12	Technical Specification of PTZ Camera- point No -43	Technical Specification of PTZ Camera- point No -43	BNC 1XBNC	BNC connector is used typically for analog video (CVBS, HD-CVI/TVI/AHD), while IP cameras use RJ45 (network). Please remove this Clause.	Accepted
13	Technical Specification of PTZ Camera- point No -46	Technical Specification of PTZ Camera- point No -46	Compatibility ONVIF profile S , G and O	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	Accepted
14	2D. Technical Specification of ANPR Camera, Point no -2	2D. Technical Specification of ANPR Camera, Point no -2		Currently As per Govt normes all product should be requierd MII complinace and need manufacturing in india , So chip set is many more out of china , so please remove the cluase .	
15	2D. Technical Specification of ANPR Camera, Point no -6		CS mountable, fixed iris, 6mm prime lens	Requesting to modify this cluase as 10 to 50 mm for accuracy & result so kinldy amened this cluase with motorized lense . For Allow the maximum Oem for Bid.	Agree
		TP SOUTHERN O	DISHA DISTRIBUITION LIMITED, BERHAMPUR, Doc. No SC	:-SSS-1	
S.No	Page No. in the Tender	Clause No:	Particulars of the query / clarification	Remarks / Request for Change	
1	Page No.22, Point No -2	1A. Network Dome Camera	Мах. Resolution 2560[H] X 1920[V]	Higher resolution cameras (like ZK or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend 4MP or Better Camera.	Adhere to specification
3	Page No.22, Point No -18	1A. Network Dome Camera	IVS (Perimeter Protection) Intrusion detection, Loitering detection, Line crossing detection	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.Please remove this Clause or IVS by VMS Software.	
4	Page No.22, Point No -24	1A. Network Dome Camera	Resolution 30 fps @ 2880x1616 or better	Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage.	

				Higher resolution cameras (like 2K or 4K) capture more pixels,		
				resulting in sharper, clearer images compared to lower		
				resolutions like 4MP or 5MP. This is particularly important for		
			Middle France Bake	identifying faces, license plates, and other crucial details,		
			Video Frame Rate	especially in situations where identifying individuals is critical.		
			Main Stream: 30fps @2880x1616, 2688x1512, 2560x1440,	•		
			1920x1080,	When zooming in on specific areas, higher resolution cameras		
5	Page No.22, Point No -22	1A. Network Dome Camera	1600x904, 1360x768, 1280x720, 640x360(16:9) 2nd	maintain image clarity, preventing pixelation and blurriness that		
			Stream: 30fps	can occur with lower resolution cameras. This allows for a more		
			@1920x1080, 1600x904, 1360x768, 1280x720, 640x360	focused and detailed examination of captured footage.		
			(16:9) 3rd			
			Stream: 30 fps @ 1280x720, 640x360, 480x272 (16:9)	Please amend Main stream: Main stream: 4MP (2688 ×		
				1520)@1–20 fps/ (2560×1440)1-25/30fps Sub stream 1:		
				D1@1-25/30 fps; Sub stream 2: D1@1-25/30 fps; Sub stream 3:		
				D1@1fps	Accepted	
			Video Bit Rate	H.265: 3 kbps-6144 kbps, H.264: 8 kbps-6144 kbps is Standard		
6	Page No.22, Point No -26	1A. Network Dome Camera	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps	Bit rate Follow by all OEM's.	Accepted	
			THE ON TO HOPE CITE ROPE THE COLOR ROPE CITE ROPE	Higher resolution cameras (like 2K or 4K) capture more pixels,	7.000ptou	
				resulting in sharper, clearer images compared to lower		
				resolutions like 4MP or 5MP. This is particularly important for		
				identifying faces, license plates, and other crucial details,		
				especially in situations where identifying individuals is critical.		
7	Page No.24, Point No -2	1B. Network Bullet Camera	Max. Resolution	When zooming in on specific areas, higher resolution cameras		
1 '	. u50 140.27, 1 UIIIL 140 -2		2560x1920 (5MP)	maintain image clarity, preventing pixelation and blurriness that		
				can occur with lower resolution cameras. This allows for a more		
				focused and detailed examination of captured footage.		
				locased and detailed examination of captured footage.		
				Please amend 4MP or Better Camera.	Adhere to specification	
				It's single OEM Specific specification basically thus requesting	Adhere to appearment on	
8	Page No.24, Point No -3	1B. Network Bullet Camera	ROM	you remove this clause .		
	1 450 140.24, 1 01110140 0	251 Notificial Buttot Guillord	4 GB	128MB is ROM followed by all OEM's.	Adhere to specification	
				It's single OEM Specific specification basically thus requesting		
9	Page No.24, Point No -4	1B. Network Bullet Camera	RAM	you remove this clause .		
_	1 480 11012-1, 1 01111110 -1		1 GB	512MB is standard RAM followed by all OEM's.	Adhere to specification	
				STQC (Standardization Testing and Quality Certification)	rande to specification	
				certification for CCTV cameras primarily focuses on		
				cybersecurity and physical security aspects, not necessarily Al		
11	Page No.24, Point No -16	1B. Network Bullet Camera	IVS	capabilities. While AI is becoming increasingly important in	Analytics is mandatory. If it is performed through VMS or VA, the	
			Intrusion, tripwire, loitering detection, people gathering	surveillance, STQC's current emphasis is on ensuring cameras	processing must occur locally and only the pictures and videos of the	
				are secure, reliable, and compliant with Indian standards.Please	events and alarts should be transmitted to the central VA for remote	
				remove this Clause or IVS by VMS Software.	monitoring, ensuring no extra bandwidth is required.	
				STQC (Standardization Testing and Quality Certification)	J. 0 11 11 11 11 11 11 11 11 11 11 11 11 1	
				certification for CCTV cameras primarily focuses on		
				cybersecurity and physical security aspects, not necessarily Al		
12	Page No.24, Point No -17	1B. Network Bullet Camera	Smart Object Detection	capabilities. While AI is becoming increasingly important in	Analytics is mandatory. If it is performed through VMS or VA, the	
-			Abandoned object; Missing object	surveillance, STQC's current emphasis is on ensuring cameras	processing must occur locally and only the pictures and videos of the	
				are secure, reliable, and compliant with Indian standards.Please	events and alarts should be transmitted to the central VA for remote	
				remove this Clause or IVS by VMS Software.	monitoring, ensuring no extra bandwidth is required.	
			Interoperability	Onvif Profile S,G&T is standard Onvif Profile followed by all	5 0	
13	Page No.24, Point No -41	1B. Network Bullet Camera	ONVIF G,S,T & M	OEM's.	Agree	
			Record Interval	Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~	
		1H. 32 Channel Network Video	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-		300 sec and 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-	
14	Page No.36, Point No -14	Recorder (NVR)	record: 10 ~	10~	record: 10 ~	
		, , ,	300 sec	300 sec is standard Record Interval followed by all OEM's.	300 sec , Both are acceptable	
		1H. 32 Channel Network Video		2 Ethernet Port in NVR is standard Ethernet Port followed by all		
15	Page No.37, Point No - 21	Recorder (NVR)	4 RJ-45 Ports (10/100/1000Mbps)	OEM's.	Agree	
			Ethernet Port		Ĭ	
16	Page No.37, Point No - 22	1H. 32 Channel Network Video	4 Ethernet Ports Joint Working or 4 Independent 1000Mbps	2 Ethernet Port in NVR is standard Ethernet Port followed by all		
		Recorder (NVR)	Ethernet Ports	OEM's.	2 port ascceptable but the ports must work Joint or independent	
				Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~	
		11. 64 Channel Network Video	Record Interval	1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record:		
17	Page No.37, Point No - 14	Recorder (NVR)	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-	10~	record: 10 ~	
			record: 10 ~ 300 sec	300 sec is standard Record Interval followed by all OEM's.	300 sec , Both are acceptable	
		<u> </u>	1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1	

May 1.5 Common May M				T		
Page No. 27, Port No. 27 Page No. 27 Page No. 27, Port No. 27 Page	18	Page No.37, Point No - 21	11. 64 Channel Network Video		2 Ethernet Port in NVR is standard Ethernet Port followed by all	
1.5 Page No. 27, Part No. 29 Page No. 29, Page N		1 460110107,1 0111110 21	Recorder (NVR)		OEM's.	Agree
Section Page March Page Ma			11 64 Channel Network Video		2 Ethernet Port in NIVP is standard Ethernet Port followed by all	
Million Companies Page 18.6 S, Paler No. 2	19	Page No.37 , Point No-22		4 Ethernet Ports Joint Working or 4 Independent 1000Mbps		
Page No. 5, Norter No. Page N			Recorder (NVK)	Ethernet Ports	OEM'S.	2 port ascceptable but the ports must work Joint or independent
Page No. 60, Prior No. 50, P			an T 1 : 10 :5 :: 6		Requesting to modify this cluase as 10 to 50 mm for accuracy &	
And the continuement field. 2.1 Space No. 50, Point No. 20 Page No. 50, P	20	Page No.48 . Point No-6	1		result so kinldy amened this cluase with motorized lense . For	
El Celented Sport (Contract Sp			ANPR Camera	CS mountable, fixed iris, 6mm prime lens		Agree
Page No. 51, Point No. 21 Page No. 51, Point No. 22 Page No. 51, Point No. 23 Page No. 24, Point No. 24, P			2F Technical Specification of	Flectronic Shutter		1.6
Image Sating Im	21	Page No.50 , Point No-7			•	Both are acceptable
white balance, rightness, comman, students, specification balactary than requesting, specification balactary than requesting to review should present white states are specification balactary than requesting to review should be should sharp an advantage of the specification balactary and don't a PTZ-create and service, specification balactary and service and service. Interpretation of service and service, specification balacter and service, specification balacter and service. Interpretation of service, specification balacter and service, specification balacter and services. Surface specification balacter and services. Interpretation of services and services and services and services and services. Interpretation of services and services and services and services and services. Interpretation of services and services and services. Interpretation of services and services and services and services and services and services. Interpretation of services and services and services and services and services. Interpretation of services and services and services and services and services and services. Interpretation of services and services. Interpretation of services and services and services and services and services and services and services			P1Z Calliela		by all OEM's.	both are acceptable
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2. Technical Specialization Processing Message and processing Messag				_		
Page No.50, Point No.51 Page No.50, Point No.52 Page N				, , , ,		
PIC Cinetes Into de (auto), Post No. 90, Point No. 20 Page No. 90, Point	22	Page No 50 Point No-19	2E. Technical Specification of	curve, defog, 3DNR, HLM, EIS (built-in gyro sensor), scene	you remove this clause .	
month, Princy mo		rage 140.00 ; rome 10	PTZ Camera	mode (auto),	3DNR,HLC,BLC,WDR,EIS,Brightness	
Page No. 50, Point No. 21 Page No. 50, Point No. 21 Page No. 50, Point No. 22 Page No. 50, Point No. 22 Page No. 50, Point No. 20 Page No. 50, Point				exposure strategy (measurement window, metering	,Contrast,Sharpness,Gamma followed by all OEM's.	
Farity September 19 22 Technical Specification of PTZ Camera 25 Technical Specification of PTZ Camera 26 Technical Specification of PTZ Camera 27 Page No. 50 , Point No. 29 28 Technical Specification of PTZ Camera 28 Page No. 50 , Point No. 29 29 Page No. 50 , Point No. 29 29 Page No. 50 , Point No. 29 20 Technical Specification of PTZ Camera 21 Technical Specification of PTZ Camera 22 Technical Specification of PTZ Camera 23 Technical Specification of PTZ Camera 24 Technical Specification of PTZ Camera 25 Technical Specification of PTZ Camera 26 Technical Specification of PTZ Camera 27 Technical Specification of PTZ Camera 28 Technical Specification of PTZ Camera 29 Page No. 50 , Point No. 29 20 Technical Specification of PTZ Camera 21 Technical Specification of PTZ Camera 22 Technical Specification of PTZ Camera 23 Technical Specification of PTZ Camera 24 Technical Specification of PTZ Camera 25 Technical Specification of PTZ Camera 26 Technical Specification of PTZ Camera 27 Additional Pares 28 Technical Specification of PTZ Camera 29 Design No. 1 Technical Specification of PTZ Camera 20 Technical Specification of PTZ Camera 20 Technical Specification of PTZ Camera 20 Technical Specification of PTZ Camera 21 Technical Specification of PTZ Camera 22 Technical Specification of PTZ Camera 23 Technical Specification of PTZ Camera 24 Technical Specification of PTZ Camera 25 Technical Specification of PTZ Camera 26 Technical Specification of PTZ Camera 27 Technical Specification of P				mode), Privacy		Without 3DNR,HLC,BLC,WDR,EIS,Brightness
Fig. 12-20 Page No. 50, Point No. 22 Page No. 22 Pag				mask, Pixel calculator, Scheduled profile settings		,Contrast,Sharpness,Gamma will be Accepted
Fraid Scandings Recording to MicroSOSDHCCSDVC call till Control Space of the Control Space of					512GB memory card slot in a PTZ camera is used for local video	
For any September 1 of Page No.50, Point No.50 Page No.50, Point No.50					-	
2. Technical Specification Plotto Comment 2. Technical Specificatio						
Page No. 50, Point No. 22 Page No. 50, Point No. 24 Page No. 50, Point No. 25 Page No. 50, Point No. 25 Page No. 50, Point No. 26 Page No. 50, Point No. 27 Page No. 50, Point No. 27 Page No. 50, Point No. 40 Page No. 11 to 15 and Point Conduction of Page Control Point Conduction of No. 11 to 15 and Point Conduction of No. 11 to 15 and Point Conduction of Page Control Point Conduction of No. 11 to 15 and Point Conduction of No.			2E Technical Specification of	Seamless Recording to MicroSD/SDHC/SDXC card (1TB	I = = = = = = = = = = = = = = = = = = =	
Supported) and recording for networks attached stones (NAS) Substantial Electronic Shutter Speed followed by all ODENs.	23	Page No.50 , Point No-21		capacity	-	
Page No. 50, Point No. 20 Page No. 50, Point No. 40 Page No. 50, Point			PIZ Camera	supported) and recording to network-attached storage		
Size						
Fig. 1 Section 1 Specification of PTZ Camera Fig. No. 50 , Point No. 29 Fig. No. 50 , Point No. 29 Fig. No. 50 , Point No. 29 Fig. No. 50 , Point No. 40 Fig. Camera Fig				()		
Analytics Intrusion detection, Face detection, Face detection, Missing object detection, Face detection, Missing object detection, Missing object detection, SoC Windows and Compatibility Final Hardward seep learning accelerator, Object Detection Proc. Journal of Proc. Verbicle (4-wheeled, 2-wheeled), Attribute Estraction (People (gender, coloning colour), bag, harl, Vehicle (bits, bus, car motorrycis, truck, colour), Re-Search Estraction, Penil Estraction Prople, Vehicle (4-wheeled, 2-wheeled)), Attribute Estraction (People (gender, coloning colour), bag, harl, Vehicle (bits, bus, car motorrycis, truck, colour), Re-Search Estraction, Penil Estraction Prople, Vehicle (4-wheeled, 2-wheeled)), Attribute Estraction (People (gender, coloning colour), bag, harl, Vehicle (bits, bus, car motorrycis, truck, colour), Re-Search Estraction, Penil Estraction Compatibility Try Cramera ONNY profile S, c. 1 AM ONNY profi					OEM's.	Accepted
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24 Page No. 50, Point No-29 25 Page No. 50, Point No-49 26 Page No. 50, Point No-49 27 Page No. 50, Point No-49 28 Page No. 50, Point No-49 29 Page No. 50, Point No-49 20 Page No. 50, Point No-49 20 Page No. 50, Point No-49 21 Page No. 50, Point No-49 21 Page No. 50, Point No-49 22 E-Technical Specification of Page Page No. 50, Point No-49 25 Page No. 50, Point No-49 26 Page No. 50, Point No-49 27 Additional Point 28 Page No. 50, Point No-49 29 Page No. 50, Point No-49 20 Page No. 50, Point No-49 20 Page No. 50, Point No-49 20 Page No. 50, Point No-49 21 Page No. 50, Point No-49 22 E-Technical Specification of Page Page No. 50, Point No-49 23 Page No. 50, Point No-49 24 Page No. 50, Point No-49 25 Page No. 50, Point No-49 26 Page No. 50, Point No-49 27 Additional Point 28 Page No. 50, Point No-49 29 Page No. 50, Point No-49 20 Page No. 50, Point No-49 21 Page No. 50, Point No-49 22 Page No. 50, Point No-49 23 Page No. 50, Point No-49 24 Page No. 50, Point No-49 25 Page No. 50, Point No-49 26 Page No. 50, Point No-49 27 Page No. 50, Point No-49 28 Page No. 50, Point No-49 29 Page No. 50, Point No-49 20 Pag				, , , , , , , , , , , , , , , , , , , ,		
PEZ Camera Detection People, Vehicle (4-wheeled), Attribute Extraction [People (gender, cothing colour, bag, hat), Vehicle (bike, bus, car, motorcycle, motorcycle	24	Describer 50 Deiothic 00	2E. Technical Specification of			
People, Vehicle (4-wheeled), Attribute Extraction People (action) People (action	24	Page No.50 , Point No-29	PTZ Camera			
Extraction [People (gender, clothing colour, bag, hat), Vehicle (bike, bus, car motorcycle, rock, colour), Re-Search Extraction, Path Extraction 25 Page No. 50, Point No-44 PZ Camera 26 Page No. 49, Point No-66 PZ Camera Additional Point 27 Additional Point 28 Technical Specification of PIZ Camera Additional Point Critiarea Additional Point Critiarea Additional Point Critiarea Additional Point 1 19 13.1 Special Conditions of Contract, Clause no 5 Contract, Clause no 5 Contract, Clause no 5 Contract, Clause no 5 Delivery Period: For TPWODL - The devices should be defined within 1 to 5% of the base order value (excluding taxes) in two 10% of the base order value (excluding taxes) in two 10% of base order value, in leave of Government departments and PSUs of base order value, in leave of Government departments and PSUs of base order value, in leave of Department of Sor Abs and PSUs of base order value, in leave of Government departments and PSUs of base order value, in leaving of the same should be performance Bank Guarantee as per GCC within 21 days of the contract of the performance Bank Guarantee as per GCC within 21 days of the contract of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarantee as per GCC within 21 days of the performance Bank Guarante					_	
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motorcycle, motorcycle, truck, colour), Re-Search Extraction, Path Extraction 25 Page No. 50, Point No-44 PT.C. Camera					remove this Clause or IVS by VMS Software.	
truck, Colour), Re-Search Extraction, Path Extraction 25 Page No. 50, Point No-4 26 Page No. 49, Point No-6 27 Additional Point 27 Additional Point 28 Page No. 38 In the Tender 19 19 Clause No: Contract, Clause no 5 Contract Clause no 6 Contract				(gender, clothing colour, bag, hat), Vehicle (bike, bus, car,		processing must occur locally and only the pictures and videos of the
25. Page No.50, Point No-44 26. Page No.49, Point No-6 27. Exclinical Specification of PTZ Camera 28. Additional Point 29. Additional Point 20. Page No.49, Point No-6 30. Page No. 17. Camera 20. Additional Point 20. Page No. 17. Camera 20. Additional Point 20. Page No. 17. Citiarea 20. Additional Point 21. Page No. 17. Citiarea 21. Special Conditions of Contract, Clause no 5 21. Special Conditions of Contract, Clause no 5 22. Exclinical Specification of PTZ Camera 20. Additional Point 20. Page No. 19. Citiarea 20. Page No. 19. Particulars of the query / clarification 20. Particulars of the query / clarification 21. Special Conditions of Contract, Clause no 5 21. Special Conditions of Contract, Clause no 5 22. Additional Point 23. Special Conditions of Contract, Clause no 5 24. Additional Point 25. Page No. 19. Particulars of the query / clarification 26. Particulars of the query / clarification 27. Particulars of the query / clarification 28. Page No. 19. Particulars of the query / clarification 29. Particular of the query / clarification 29. Particular of the query / clarificat				motorcycle,		events and alarts should be transmitted to the central VA for remote
Piz Camera ONVIF profile S, G, T & M OEMS. 26 Page No.49, Point No-6 Piz Camera ONVIF profile S, G, T & M OEMS. 27 Additional Point Critiarea Additional P				truck, colour), Re-Search Extraction, Path Extraction		monitoring, ensuring no extra bandwidth is required.
Piz Camera ONVIF profile S, G, T & M OEMS. 26 Page No.49, Point No-6 Piz Camera ONVIF profile S, G, T & M OEMS. 27 Additional Point Critiarea Additional P			2E. Technical Specification of	Compatibility	Onvif Profile S,G&T is standard Onvif Profile followed by all	
26 Page No.49, Point No-6 PTZ Camera Additional Point Critiarea Additional Point Additional Point Additional Point Critiarea Additional Point Additional Point Additional Point Additional Point Critiarea Additional Point Additional Poin	25	Page No.50 , Point No-44				Accepted
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Additional Point Critiarea Additional Point Critiarea Additional Point CCTV Camera OEM should be fulttime member of ONVIF and quoted Camera models should be listed on ONVIF official website (All the certifications & Credentials should be valid on the date of technical evaluation). S.No Page No. in the Tender 1 19	26	Page No.49, Point No-6			·	Accepted
Additional Point Critiarea Additional Point quoted Camera models should be listed on ONVIF official website (All the certifications & Credentials should be valid on the date of technical evaluation). S.No Page No. in the Tender 1 19 13.1 Special Conditions of Contract, Clause no 5 Contract, Clause no 5 We would like to humbly request a revision of the Date of the Current 10%, considering the following: in two (02) months from the date of intimation. We would like to humbly request a revision of the Date of requirement to 3% of the base order value (excluding taxes) instead of the current 10%, considering the following: 1. We are operating on thin margins due to competitive pricing and market conditions. 2 A significant number of Government departments and PSUs have revised their PSG requirements to 3% of base order value, in lew with guidelines from the Ministry of Finance, particularly in lew within guidelines from the Ministry of Finance, particularly in the current to a since the current to the since of the current to 3% of the base order value, in lew with guidelines from the Ministry of Finance, particularly in lew with guidelines from the Ministry of Finance, particularly in the current to the properties of the current to 3% of the second revised their PSG requirements to 3% of base order value, in lew with guidelines from the Ministry of Finance, particularly in the current to 3% of the second the cur			04014			,,
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## Address of the date of technical evaluation). Page No.	27	Additional Point	Critiarea	Additional Point	·	
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Delivery Period: For TPWODL - The devices should be delivered within four (04) weeks from Release order issuance of PO and Installation within 4 Weeks' time subject to site readiness. Particulars of the quivery Period: For TPWODL - The devices should be delivered within four (04) weeks from Release order issuance date and installation of the same should be done in two (02) months from the date of intimation. We would like to humbly request a revision of the PBG requirement to 3% of the base order value (excluding taxes) instead of the current 10%, considering the following: 1. We are operating on thin margins due to competitive pricing and market conditions. Business Associate (BA) shall submit applicable Performance Bank Guarantee as per GCC within 21 days of the base form the distinct of the page of the current to 3% of base order value, in line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Finance, particularly in Line with guidelines from the Ministry of Financ					tne date of technical evaluation).	Addres to specification
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Contract Clause no 3 issuance of order LPRC annicable shall be 5% of RC as nor light of the current business environment. lender Clause remain same	2	10	13.1 Special Conditions of	Performance Bank Guarantee as per GCC within 21 days of		Tandas Olavas assasia assas
	2	19	Contract Clause no 3	issuance of order PRG anniicable shall be 5% of RC as per	light of the current business environment.	render Clause remain same

		CONTRACT CIRCLE III J	GCC	3. Reducing the PBG percentage will greatly support our working capital management and help ensure seamless execution of the order without compromising on quality or commitment. We assure you that this request is made solely with the intention of smooth execution and financial prudence. We remain fully committed to fulfilling all terms and obligations of the contract to your utmost satisfaction.	Tender Clause remain same Tender Clause remain same	
3	19	Payment Terms 7.5	Payment Terms: On delivery of the materials in good condition and certification of acceptance by certified official post installations, Associate shall submit the Bills/ Invoices in original in the name of respective Odisha discom to Invoice Desk. The payment shall be released within 45 days from the date of the submission of errorfree certified bills/ invoices. Any change in statutory taxes, duties and levies during the contract period shall be borne by respective discom. However, in case of delay in work execution owing to reasons not attributable to respective discom, any increase in total liability shall be passed on the Bidder, whereas any benefits arising owing to such statutory variation in taxes and duties shall be passed on respective Odisha Discom.	We kindly request to amend the payment terms as follows: The payment shall be released within 30 days from the date of the submission of error-free certified bills/ invoices . Subject to Site readiness , If site is not ready, 100% payment shall released and payable within 30 (thirty) days from the date of delivery."	80 % payment will be released within 45 days from date of receipt of materials at store / site and 20 % Payment will be released within 45 days from the date of complete ITC (Istallation, testing and commissioning). But the time capping in between supply and site availability to the contractor for ITC will be 90 days. Any further delay in making the site available to Contractor / Bidder beyond 90 days will lead to remittance of balance 10 % payment of 20% retained amount of BA on immediate basis for each such site. and rest 10% will be paid post complete ITC. Retention terms apply site wise, individually, and not collectively for all the sites of the Purchase Order.Payment of retained amount of an ITC completed site will not be withheld for pendency of ITC at any other site or sites. Paymnet against line items exclusively related to installation (ITC part), 100% paymmet will be released within 45 days from date of submission of certified bills to the respective discoms. Certifiaction will be done through authorized persons from the respective discoms.	
2	1	4	Earnest Money Deposit (EMD) Exemption	As per tender conditions, EMD exemption is allowed only for MSME registered in the State of Odisha. We request clarification/consideration to extend this exemption to valid MSME certificates issued in other States as well, and not restrict it only to Odisha.	Tender Clause remains same	
3	1	4	Reservation for MSME	As per tender conditions, 20% procurement is reserved for MSMEs registered in the State of Odisha. We request clarification/consideration that such reservation should not be restricted only to Odisha MSMEs, but extended to MSMEs registered across all States, subject to meeting technical and quality requirements.	Tender Clause remains same	
4	1	4	Performance Bank Guarantee (PBG) Relaxation	As per tender conditions, the Performance Bank Guarantee (PBG) for MSMEs registered in Odisha is prescribed at 25% of the normal value. We request clarification/consideration to extend this benefit to all MSMEs registered across India, and not restrict it only to Odisha MSMEs.	Tender Clause remains same	
5		9	registered with DISCOM	Bidder Have to registered with DISCOM .Please confirm	Tender Clause remains same	
7		9 6 Specification of Security Surveillance	Factory Inspection Existing VMS	Please Clarrify the process. We understand that the existing VMS deployed is from Vehant. Kindly clarify whether integration with the existing Vehant VMS is required under the present scope of work, or if a new integration is to be carried out separately.	Shall be intimated during TER - if required. Go through the tender	
4	12	Design requirements of Video Management System (VMS) & Video Analytics Platform	alert generation for	Referring to Clause 15.1 Bill of Material (BOM) for Part-A: Surveillance System for Additional 40 PSS, it is mentioned under item 6. that a License for Video Analytics Software for Face Recognition for 50 people is required for 40 cameras. However, on page 12, it appears that a Server-based Face Recognition Software License for a minimum of 100 people per camera is specified. Kindly confirm the exact license requirement.	The current requirement is for a license covering 50 people. However, the software must have the technical capability to support a minimum of 100 people per camera to allow for future scalability.	
5	12	Design requirements of Video Management System (VMS) & Video Analytics Platform	Control Room/PSS LPU shall store the data and alerts for 30 days.			
	4	1.2.2 Part-B: Surveillance for CRC Locations	A minimum of 90 days local storage (with appropriate memory backup/NVR solution) for video recording must be ensured.			
6	13	Part-B: Surveillance for CRC Locations	5. The system shall support 24x7 recording with a minimum of 30 days storage capacity.	Kindly confirm the exact number of days of recording required, so that the appropriate storage capacity can be proposed.		

				_		
7	14	Part-C: Surveillance for Open Space Stores	The video feed from all cameras shall be recorded continuously on an NVR with minimum 180 days of storage capacity.			
	25	1C. Functional Requirement Specification for Video Management Software (VMS) License	A. Should record H.264 / H.265, MPEG4 or MJPEG in at minimum 25 fps at minimum Full HD (1080p) resolution for 30 days		The scope of work and detailed design are clearly defined in the tender specification document.	
8	25		The VMS license shall be able to get integrated with existing VMS central Software platform and shall be Scalable, Client Server based, Enterprise level capable to integrate new as well as exiting IP camera of any make model in the VMS system. It shall be capable to expand by adding additional camera license and server in the same VMS platform.	Kindly please read as: The VMS license shall be able to get integrated with existing/ newly replaced VMS central Software platform and shall be Scalable, Client Server based, Enterprise level capable to integrate new as well as exiting IP camera of any make model in the VMS system. It shall be capable to expand by adding additional camera license and server in the same/newly replaced VMS platform.	Agree	
9	25		The OEM shall have existing ONVIF membership for open integration with 3rd party system / devises integration to meet project objective and functionality.	Kindly please read as: 3. The OEM shall have existing ONVIF full membership for open integration with 3rd party system / devises integration to meet project objective and functionality.	Adhere to specification	
11	25	1C. Functional Requirement Specification for Video Management Software (VMS) License	25 Live View possible for upto 144 live videos and upto 64 playback videos simultaneously on 1 screen or multiple monitors using software video wall.	Kindly please read as: 25 Live View possible for upto 110 live videos and upto 64 playback videos simultaneously on 1 screen or multiple monitors using software video wall.	Agree	
12	27		22 VMS software should have the Encryption algorithm of 1024 / 096-bit RSA and hashing of SHA -512 for tamper proof data. VMS 0EM must be CMMi Level-3 certified and listed on www.cmmiinstitute.com	Request you kindly remove this clause as this CMMi Level-3 certificate will restrict many OEMs/Bidder to participate.	Adhere to specification	
13	28		55 Should support multiple brand IP camera, encoders and DVRs. No restriction on camera hardware. VMS 0EM must have presence in India for last 5 years.	Kindly please read as: 55 Should support multiple brand IP camera, encoders and DVRs. No restriction on camera hardware. VMS 0EM must have presence in India and should be VMS business for last 5 years.	Adhere to specification	
14	28		56 Should support ONVIF protocol including Profile-S, G & T.	Kindly please read as: 56 Should support ONVIF protocol including Profile-S, G, M & T.	Adhere to specification	
17	29		Single Unified System Unified AI Based Video Platform - The existing unified AI-based video analytics platform shall be seamless integrated with any OnVIF compliant IP Camera (existing/new both) and additional VA licenses in existing Video Analytics Platform.	Kindly please read as: Single Unified System Unified AI Based Video Platform - The existing/newly replaced unified AI-based video analytics platform shall be seamless integrated with any OnVIF compliant IP Camera (existing/new both) and additional VA licenses in existing Video Analytics Platform.	Accepted.	
20	31	1E. Functional Requirement Specifications for Artificial	Alert Monitoring Attribute-based search: Advanced search options will be available to filter results based on object attributes like colour, clothing, gender, and object classification.			
21	33	Intelligence Based Video Analytics Platform	Rule Management The system shall allow users creation and save a set of filters called rule by combining conditions, for example, Object type (Person, Animal), Gender (Male, Female), Clothing (Upper body, Lower body, Colour), and/or Accessories (Handbag, Backpack, Baggage). This ensure a for quick and easy filtering instead of setting individual values each time.	Kindly please confirm the number of Attribute Search license required for Video Analytics OEM	Adhere to specification	
23	34		VehicleDetection The Central VA platform shall be capable to detect and capture the images of vehicle entering at the PSS premise in the selected camera filed of view(FoV)	Kindly please confirm the number of Vehicle Detection license required for Video Analytics OEM	Adhere to specification	
1	1G. 16 Channel Network Video Recorder (NVR)P	16. Technical Specification 16 Channel Network Video Recorder (NVR) -Point No - 21	Hard Disk 2 SATA ports, Each disk can contain up to 20 TB.	As Per RFP 180 days storage is not enough in 2 SATA" Port So kinldy amened 8 SATA port of each NVR.	The requirement is for 180 days of backup storage. Bidders must calculate the necessary storage capacity and submit their proposals accordingly.	

S.No	Page No. in the Tender	Clause No:	Particulars of the query / clarification	Remarks		
		TP SOUTHER!	N ODISHA DISTRIBUITION LIMITED, BERHAMPUR , Doc. No SC-SS	5-1	Agree	
	ANPR Camera, Point no -6	ANPR Camera, Point no -6	CS mountable, fixed iris, 6mm prime lens	maximum Oem for Bid.	Agree	
10	2D. Technical Specification of	2D. Technical Specification of		so kinldy amened this cluase with motorized lense. For Allow the		
				Requesting to modify this cluase as 10 to 50 mm for accuracy & result	Ingree	
9	ANPR Camera, Point no -2	ANPR Camera, Point no -2		complinace and need manufacturing in india , So chip set is many more out of china , so please remove the cluase .	Agree	
	2D. Technical Specification of	2D. Technical Specification of		Currently As per Govt normes all product should be requierd MII		
8	Camera- point No -46	Camera- point No -46	ONVIF profile S , G and Q	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	Without BNC is acceptable	
	Technical Specification of PTZ	Technical Specification of PTZ	(PID/LCD/SOD/PD&VD/FD/CC/SOD) Compatibility	Software.	monitoring, ensuring no extra bandwidth is required.	
			Detection, SOD-Stationaary Object Detection, Vehicle Detection, face Detection	OEM Suggestion : Please remove this Clause or IVS Through the VMS	processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote	
7	Technical Specification of PTZ Camera- point No -07	Technical Specification of PTZ Camera- point No -07	Edge Video Content Analytics Camera should have in-built Edge Based Analytics, Pedestrian	aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.	Edge Video Content Analytics is mandatory. If it is performed through VMS or VA, the	
	Camera- point No -07	Camera- point No -07		OEM's. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security	Agree	
6	Technical Specification of PTZ	Technical Specification of PTZ	Electronic Shutter	1/1 s-1/30,000 s is standard Electronic Shutter Speed followed by all		
5	Network Bullet Camera, point No	Network Bullet Camera, point No. 19,	car, motorcycle, truck, color); Re-Search Extraction; Path Extraction, Smart Motion Detection, Smart VCA (Intrusion detection,	aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.	
				STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security		
4	Network Bullet Camera, point No- 17,	Network Bullet Camera, point No 17,	Smart Object Detection Smart abandoned object; smart missing object	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.	
3	Network Bullet Camera, point No 05,	Network Bullet Camera, point No 05,	IVS Intrusion, tripwire, toitering detection, people gathering	As per Govt cerculiars now to on wards Guidlines of DPIIT through of meity. STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important is surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards.Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.	
2	Network Bullet Camera, point No- 02,	Network Bullet Camera, point No 02,	Max. Resolution 2560x1920 (5MP)	in sharper, clearer images compared to lower resolutions like 4MP or 5MP. This is particularly important for identifying faces, license plates, and other crucial details, especially in situations where identifying individuals is critical. When zooming in on specific areas, higher resolution cameras maintain image clarity, preventing pixelation and blurriness that can occur with lower resolution cameras. This allows for a more focused and detailed examination of captured footage. Please amend 4MP or Better Camera.	Adhere to specification	
				Higher resolution cameras (like 2K or 4K) capture more pixels, resulting		

				Treat tree are are are are a	
				Higher resolution cameras (like 2K or 4K) capture more pixels, resulting in sharper, clearer images compared to lower resolutions like 4MP or	
				5MP. This is particularly important for identifying faces, license plates,	
				and other crucial details, especially in situations where identifying	
	B . N		Max. Resolution	individuals is critical.	
1	Page No.22, Point No -2	1A. Network Dome Camera	2560[H] X 1920[V]	When zooming in on specific areas, higher resolution cameras maintain	
				image clarity, preventing pixelation and blurriness that can occur with	
				lower resolution cameras. This allows for a more focused and detailed examination of captured footage.	
				examination of captured lootage.	
				Please amend 4MP or Better Camera.	Adhere to specification
				As per Govt cerculiars now to on wards Guidlines of DPIIT through of	
				meity. STQC (Standardization Testing and Quality Certification)	
			IVS (Perimeter Protection)	certification for CCTV cameras primarily focuses on cybersecurity and	
2	Page No.22, Point No -18	1A. Network Dome Camera	Intrusion detection, Loitering detection, Line crossing detection	physical security aspects, not necessarily Al capabilities. While Al is	Analytics is mandatory. If it is performed through VMS or VA, the
			initiasion detection, Loitening detection, Line crossing detection	becoming increasingly important in surveillance, STQC's current	processing must occur locally and only the pictures and videos of the
				emphasis is on ensuring cameras are secure, reliable, and compliant	events and alarts should be transmitted to the central VA for remote
				with Indian standards.Please remove this Clause or IVS by VMS Software.	
				Higher resolution cameras (like 2K or 4K) capture more pixels, resulting	<u> </u>
				in sharper, clearer images compared to lower resolutions like 4MP or	
				5MP. This is particularly important for identifying faces, license plates,	
				and other crucial details, especially in situations where identifying	
			Recolution	individuals is critical.	
3	Page No.22, Point No -24	1A. Network Dome Camera	Resolution 30 fps @ 2880x1616 or better	When zooming in on specific areas, higher resolution cameras maintain	
			20 the @ 5000x1010 of perfet	image clarity, preventing pixelation and blurriness that can occur with	
				lower resolution cameras. This allows for a more focused and detailed	
				examination of captured footage.	
				Please amend 4MP or Better Camera.	Adhere to specification
				Higher resolution cameras (like 2K or 4K) capture more pixels, resulting	Autiere to specification
				in sharper, clearer images compared to lower resolutions like 4MP or	
				5MP. This is particularly important for identifying faces, license plates,	
			Video Frame Rate	and other crucial details, especially in situations where identifying	
			Main Stream: 30fps @2880x1616, 2688x1512, 2560x1440,	individuals is critical.	
			1920x1080,		
4	Page No.22, Point No -22	1A. Network Dome Camera	1600x904, 1360x768, 1280x720, 640x360(16:9) 2nd Stream:	When zooming in on specific areas, higher resolution cameras maintain	
	, , ,		30fps	image clarity, preventing pixelation and blurriness that can occur with	
			@1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9)	lower resolution cameras. This allows for a more focused and detailed	
			Stream: 30 fps @ 1280x720, 640x360, 480x272 (16:9)	examination of captured footage.	
			Stream. 30 lps @ 1280x720, 640x360, 460x272 (16.9)	Please amend Main stream: Main stream: 4MP (2688 × 1520)@1–20 fps/	
				(2560×1440)1-25/30fps Sub stream 1: D1@1–25/30 fps; Sub stream 2:	
				D1@1-25/30 fps; Sub stream 3: D1@1fps	Accepted.
5	B . N . OO B N . OO	AA Network Demo Common	Video Bit Rate	H.265: 3 kbps-6144 kbps, H.264: 8 kbps-6144 kbps is Standard Bit rate	
5	Page No.22, Point No -26	1A. Network Dome Camera	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps	Follow by all OEM's.	Accepted
				Higher resolution cameras (like 2K or 4K) capture more pixels, resulting	
				in sharper, clearer images compared to lower resolutions like 4MP or	
				5MP. This is particularly important for identifying faces, license plates,	
				and other crucial details, especially in situations where identifying individuals is critical.	
6	Page No.24, Point No -2	1B. Network Bullet Camera	Max. Resolution	When zooming in on specific areas, higher resolution cameras maintain	
0	rage No.24, Politi NO -2	TO. MERMOIK DURIER CAINERS	2560x1920 (5MP)	image clarity, preventing pixelation and blurriness that can occur with	
				lower resolution cameras. This allows for a more focused and detailed	
				examination of captured footage.	
				Please amend 4MP or Better Camera.	Accepted
	B . N	48.44 . 4.8 % . 5	ROM	It's single OEM Specific specification basically thus requesting you	
7	Page No.24, Point No -3	1B. Network Bullet Camera	4 GB	remove this clause . 128MB is ROM followed by all OEM's.	Adhere to specification
				It's single OEM Specific specification basically thus requesting you	namoro de aposinadadri
8	Page No.24, Point No -4	1B. Network Bullet Camera	RAM 1 GB	remove this clause .	
			1.00	512MB is standard RAM followed by all OEM's.	Adhere to specification
				STOC (Standardization Tacting and Quality Cortification) sortification	
				STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security	
9	Page No.24, Point No -16	1B. Network Bullet Camera	IVS	aspects, not necessarily Al capabilities. While Al is becoming	Analytics is mandatory. If it is performed through VMS or VA, the
	1 45C NO.24, FUIII NO -10	25c.work butter ourifeld	Intrusion, tripwire, loitering detection, people gathering	increasingly important in surveillance, STQC's current emphasis is on	processing must occur locally and only the pictures and videos of the
				ensuring cameras are secure, reliable, and compliant with Indian	events and alarts should be transmitted to the central VA for remote
				standards.Please remove this Clause or IVS by VMS Software.	monitoring, ensuring no extra bandwidth is required.

			T		
10	Page No.24, Point No -17	1B. Network Bullet Camera	Smart Object Detection Abandoned object; Missing object	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
11	Page No.24, Point No -41	1B. Network Bullet Camera	Interoperability ONVIF G,S,T & M	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	Accepted
12	Page No.36, Point No -14	1H. 32 Channel Network Video Recorder (NVR)	Record Interval 1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec	Record Interval 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec is standard Record Interval followed by all OEM's.	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec and 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec, Both are acceptable
13	Page No.37, Point No - 21	1H. 32 Channel Network Video Recorder (NVR)	Interface 4 RJ-45 Ports (10/100/1000Mbps)	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	Agree
14	Page No.37, Point No - 22	1H. 32 Channel Network Video Recorder (NVR)	Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports Po	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	2 port ascceptable but the ports must work Joint or independent
15	Page No.37, Point No - 14	11. 64 Channel Network Video Recorder (NVR)	Record Interval 1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec	Record Interval 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec is standard Record Interval followed by all OEM's.	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec and 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec, Both are acceptable
16	Page No.37, Point No - 21	11. 64 Channel Network Video Recorder (NVR)	Interface 4 RJ-45 Ports (10/100/1000Mbps)	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	Agree
17	Page No.37 , Point No-22	1I. 64 Channel Network Video Recorder (NVR)	Ethernet Port 4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports	2 Ethernet Port in NVR is standard Ethernet Port followed by all OEM's.	2 port ascceptable but the ports must work Joint or independent
18	Page No.48 , Point No-6	2D. Technical Specification of ANPR Camera	Lens CS mountable, fixed iris, 6mm prime lens	Requesting to modify this cluase as 10 to 50 mm for accuracy & result so kinldy amened this cluase with motorized lense . For Allow the maximum Oem for Bid.	Agree
19	Page No.50 , Point No-7	2E. Technical Specification of PTZ Camera	Electronic Shutter 1/5s~1/100,000 s	1/1 s-1/30,000 s is standard Electronic Shutter Speed followed by all OEM's.	Both are acceptable
20	Page No.50 , Point No-29	2E. Technical Specification of PTZ Camera	Edge Video Content Analytics Intrusion detection, Loitering detection, Line crossing detection, Face detection, Unattended object detection, Missing object detection, SoC with built-in hardware deep learning accelerator, Object Detection [People, Vehicle (4-wheeled, 2-wheeled)], Attribute Extraction [People (gender, clothing colour, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, colour), Re-Search Extraction, Path Extraction	STQC (Standardization Testing and Quality Certification) certification for CCTV cameras primarily focuses on cybersecurity and physical security aspects, not necessarily Al capabilities. While Al is becoming increasingly important in surveillance, STQC's current emphasis is on ensuring cameras are secure, reliable, and compliant with Indian standards. Please remove this Clause or IVS by VMS Software.	Edge Video Content Analytics is mandatory. If it is performed through VMS or VA, the processing must occur locally and only the pictures and videos of the events and alarts should be transmitted to the central VA for remote monitoring, ensuring no extra bandwidth is required.
21	Page No.50 , Point No-44	2E. Technical Specification of PTZ	Compatibility	Onvif Profile S,G& T is standard Onvif Profile followed by all OEM's.	
22	Page No.49 , Point No-6	ZE. Technical Specification of PTZ		Opetical Zoom 45X and 16X Digital Zoom is standard Opetical and Digital Zoom followed by all OEM's.	Without BNC is acceptable
23	Additional Point	Camera Critiarea	40 X optical Zoom, 32 X Digital Zoom, Auto Pan mode Additional Point	Digital Zoom followed by all OEM's. CCTV Camera OEM should be fulltime member of ONVIF and quoted Camera models should be listed on ONVIF official website (All the certifications & Credentials should be valid on the date of technical evaluation).	Adhere to specification
24	Additional Point	Critiarea	Additional Point	The Camera OEM should comply to General Data Protection Regulation (GDPR) & Waste Electrical and Electronic Equipment (WEEE). OEM should have valid EPR (Extended Producer Responsibility License/ Authorization No. from Central Pollution Control Board for Electrical & Electronic Equipment E-Waste. OEM need to submit its certificate with technical bid.	Adhere to specification
25	Additional Point	Critiarea	Additional Point	CCTV OEM should have manufacturing in India since last Five years and Foreign CCTV OEM should have manufacturing unit globally from last 10 Years. (Documentary evidence should be submitted).	Adhere to specification

2	1	4	Earnest Money Deposit (EMD) Exemption	As per tender conditions, EMD exemption is allowed only for MSME registered in the State of Odisha. We request clarification/consideration to extend this exemption to valid MSME certificates issued in other States as well, and not restrict it only to Odisha.	Tender Clause remains same.	
3	1	4	Reservation for MSME	As per tender conditions, 20% procurement is reserved for MSMEs registered in the State of Odisha. We request clarification/consideration that such reservation should not be restricted only to Odisha MSMEs, but extended to MSMEs registered across all States, subject to meeting technical and quality requirements.	Tender Clause remains same.	
4	1	4	Performance Bank Guarantee (PBG) Relaxation	As per tender conditions, the Performance Bank Guarantee (PBG) for MSMEs registered in Odisha is prescribed at 25% of the normal value. We request clarification/consideration to extend this benefit to all MSMEs registered across India, and not restrict it only to Odisha MSMEs.	Tender Clause remains same.	
5		9	registered with DISCOM	Bidder Have to registered with DISCOM .Please confirm	Tender Clause remains same.	
6		9	Factory Inspection	Please Clarrify the process.	Shall intimate during TER - if required.	
7		6 Specification of Security Surveillance	Existing VMS	We understand that the existing VMS deployed is from Vehant. Kindly clarify whether integration with the existing Vehant VMS is required under the present scope of work, or if a new integration is to be carried out separately.	Go through the tender	
4	12		and alert generation for	Referring to Clause 15.1 Bill of Material (BOM) for Part-A: Surveillance System for Additional 40 PSS, it is mentioned under item 6. that a License for Video Analytics Software for Face Recognition for 50 people is required for 40 cameras. However, on page 12, it appears that a Server- based Face Recognition Software License for a minimum of 100 people per camera is specified. Kindly confirm the exact license requirement.	The current requirement is for a license covering 50 people. However, the software must have the technical capability to support a minimum of 100 people per camera to allow for future scalability.	
5	12	Design requirements of Video Management System (VMS) & Video Analytics Platform	12. NVR/LPU at each PSS shall store the video feed recording data for 30 days and the VA system at Security Control Room/PSS LPU shall store the data and alerts for 30 days.			
	4	1.2.2 Part-B: Surveillance for CRC Locations	A minimum of 90 days local storage (with appropriate memory backup/NVR solution) for video recording must be ensured.	Kindly confirm the exact number of days of recording		
6	13	Part-B: Surveillance for CRC Locations	5. The system shall support 24x7 recording with a minimum of 30 days storage capacity.	required, so that the appropriate storage capacity can be proposed.		
7	14	Part-C: Surveillance for Open- Space Stores	The video feed from all cameras shall be recorded continuously on an NVR with minimum 180 days of storage capacity.			
	25	1C. Functional Requirement Specification for Video Management Software (VMS) License	4. Should record H.264 / H.265, MPEG4 or MJPEG in at minimum 25 fps at minimum Full HD (1080p) resolution for 30 days		The scope of work and detailed design are clearly defined in the tender specification document.	
8	25		The VMS license shall be able to get integrated with existing VMS central Software platform and shall be Scalable, Client Server based, Enterprise level capable to integrate new as well as exiting IP camera of any make model in the VMS system. It shall be capable to expand by adding additional camera license and server in the same VMS platform.	Kindly please read as: The VMS license shall be able to get integrated with existing/ newly replaced VMS central Software platform and shall be Scalable, Client Server based, Enterprise level capable to integrate new as well as exiting IP camera of any make model in the VMS system. It shall be capable to expand by adding additional camera license and server in the same/newly replaced VMS platform.	Agree	
9	25		3. The OEM shall have existing ONVIF membership for open integration with 3rd party system / devises integration to meet project objective and functionality.	Kindly please read as: 3. The OEM shall have existing ONVIF full membership for open integration with 3rd party system / devises integration to meet project objective and functionality.	Adhere to specification	

			Kindly please read as:	
25	1C. Functional Requirement Specification	25 Live View possible for upto 144 live videos and upto 64 playback videos simultaneously on 1 screen	25 Live View possible for upto 110 live videos and upto 64 playback videos simultaneously on 1 screen or multiple	
	Software (VMS) License	or multiple monitors using software video wall.	Imonitors using software video wall.	Agree
27	, , , , , , , , , , , , , , , , , , , ,	22 VMS software should have the Encryption algorithm of 1024 / 096-bit RSA and hashing of SHA -512 for tamper proof data. VMS OEM must be CMMi Level-3 certified and listed on www.cmmiinstitute.com	Request you kindly remove this clause as this CMMi Level-3 certificate will restrict many OEMs/Bidder to participate.	Adhere to specification
28		55 Should support multiple brand IP camera, encoders and DVRs. No restriction on camera hardware. VMS OEM must have presence in India for last 5 years.	Kindly please read as: 55 Should support multiple brand IP camera, encoders and DVRs. No restriction on camera hardware. VMS OEM must have presence in India and should be VMS business for last 5 years.	Adhere to specification
28		56 Should support ONVIF protocol including Profile-S, G & T.	Kindly please read as: 56 Should support ONVIF protocol including Profile-S, G, M & T.	Adhere to specification
29		Single Unified System Unified AI Based Video Platform - The existing unified AI-based video analytics platform shall be seamless integrated with any OnVIF compliant IP Camera (existing/new both) and additional VA licenses in existing Video Analytics Platform.	Kindly please read as: Single Unified System Unified Al Based Video Platform - The existing/newly replaced unified Al-based video analytics platform shall be seamless integrated with any OnVIF compliant IP Camera (existing/new both) and additional VA licenses in existing Video Analytics Platform.	Accepted.
30				riccipied.
31	·	like colour, clothing, gender, and object		Adhere to specification
33	Analytics Platform	Rule Management The system shall allow users creation and save a set of filters called rule by combining conditions, for	Kindly please confirm the number of Attribute Search license required for Video Analytics OEM	Adhere to specification
34		VehicleDetection The Central VA platform shall be capable to detect and capture the images of vehicle entering at the PSS premise in the selected camera filed of view(FoV)	Kindly please confirm the number of Vehicle Detection license required for Video Analytics OEM	Adhere to specification
Fender Documents_CCTV	Page No. 7 of 41	2.0 Pre- Qualification Criteria	Request to add VMS & VA platform OEM pre-qualification criteria for quality participation.	
			"The quoted VA & VMS platform OEM must have an annual turnover of at least ₹30 Crore"	Adhere to specification
Surveillance System Phase-	Page No. 4 of 56	Adherence to Technical Specifications of one of the Following Options:	To Utilise Existing infra whether Switch, Camera, VMS & Video Analytics platform in best possible way	
·· -		B. Option 2:	Hence we request to remove Option 2 Point from the specification	Adhere to specification
ŠĮ.	28 28 29 30 31 33 34 sender Documents_CCTV	25 Requirement Specification for Video Management Software (VMS) License 27 28 29 30 31 1E. Functional Requirement Specifications for Artificial Intelligence Based Video Analytics Platform 33 34 ender Documents_CCTV Page No. 7 of 41 pecifications of Security urveillance System Phase-	Requirement Specification for Video Management Software (VMS) License 27 27 28 28 28 28 29 30 31 1E. Functional Requirement Specifications for Artificial Intelligence Based Video Analytics Platform Analytics Platform Analytics Platform 33 31 32 33 34 44 46 46 41 41 41 42 42 42 43 43 43 43 44 44 45 46 46 47 48 48 48 48 49 49 49 40 40 40 40 40 40 40	10. Functional Requirement Specification for Wideo Management 127 28 28 Very New possible for upon 110 live videos and upon the form of the video in the properties of the p

3	Tondor Dogues t- CCT /	Dago No. 10 of 44	12 O Bost Award Contrast Administration	Degreet to extend the delivery and a bank of		
3	Tender Documents_CCTV	rage NO. 19 01 41	13.0 Post Award Contract Administration 5. Delivery Period:	Request to extend the delivery period, as hardware such as LPU/Workstations have a minimum delivery timeline of		
			5. Delivery Period:			
				4-6 weeks.		
				Therefore we request you to amend the clause of Delivery		
				period as mention below-		
				For TPCODL, TPSODL & TPNODL - The devices should be		
				delivered within Six (6) weeks from order		
				issuance date and installation of the same should be done		
				in Four (04) weeks from the date of intimation.		
				(Client will intimate date to bidder for installation of		
				equipment's).	Td Ol	
	T. I. B	D N 7 . C 44	200 - 0 - 150 - 15 - 0 15 - 15	5	Tender Clause remains same.	
4	Tender Documents_CCTV	Page No. / of 41	2.0 Pre- Qualification Criteria	For quality OEM participation request to add below Pre-		
				qualification-		
				"VMS & VA OEM must have R&D facility in India with		
				minimum 50 technical resources on direct payroll .		
				Evidence of EPF to be submitted"	Adhere to specification	
5	General Query	•	•	We request to include :		
	'			·		
				Bidder must supply Integrated Master Platform for VA &		
				VMS application at corporate Office for all discom for		
				VMS & VA central Platform free of cost. Network		
		T .		Bandwidth(MPLS) shall be provided by purchaser.	Adhere to specification	
6	TPWODL- Bill of Quantity	Request to amend		We request to include a common BOQ & common		
				specification of components for all Discom including		
				TPWODL Discom as well. Component not needed at any		
				Discom may be referred as 0 or 1 quantity for price		
				discovery and binding on bidder to supply on same price if		
				needed in two years.		
				This will help TPWODL in future requirements to have		
				better price and immediate implementation of associated		
				components.		
				•	Adhere to specification	
7	TPNODL,TPCODL,TPSODL	General Query		To utilize the existing infrastructure, including switches,		
				cameras, and video analytics in the best possible way, we		
				request to add a clause in the RFP for integration with the		
				existing solutions of cameras, VMS, and VA	Adhere to specification	
8	TPNODL,TPCODL,TPSODL	General Query		API and SDK of the Camera & NVR shall be provided by the		
				camera OEM to ensure openness and flexibility for		
				integration with existing VMS/VA platform	Adhere to specification	
9	TPNODL,TPCODL,TPSODL	S.NO. 14 TECHNICAL	Request to amend	In the tender, licenses for Server based Video Analytics are	·	
_	,	PARTICULARS	-4	specified in the BOQ; therefore, edge analytics on cameras		
				will not be utilized.		
				Will flot be dellized.		
				Hones, we request the removal of the analytics		
				Hence, we request the removal of the analytics use cases		
				from the camera specifications	Adhere to specification	
10	TPNODL,TPCODL,TPSODL	S.NO. 14 TECHNICAL	Request to amend	In the tender, licenses for Server based Video Analytics are		
		PARTICULARS		specified in the BOQ; therefore, edge analytics on		
				NVRs/cameras will not be utilized.		
					Analytics is mandatory. If it is performed through VMS or VA, the	
				Accordingly, we request the removal of the 'AI by NVR'		
				and 'Al by Camera' requirements from the NVR	processing must occur locally and only the pictures and videos of the	
				specifications	events and alarts should be transmitted to the central VA for remote	
			-	specifications	monitoring, ensuring no extra bandwidth is required.	
1	1	I				1

1	7	2.0 Pre- Qualification Criteria A 1.c	The Bidder shall be either manufacturer of critical components or shall be a manufacturer's authorised system integrator of the Security surveillance system specified in this document. In latter case, the bidder shall give backup guarantee from the OEM for support and satisfactory performance as specified in this document. Cameras and NVR should be Make in India compliant with STQC and BIS certifiedKindly confirm if OEM & System Integrator both are al	lowed to bid in the tender	Yes	
2	7	2.0 Pre- Qualification Criteria A 1.d	The bidder / OEM should have implemented Security surveillance system of similar type and complexity at 5 nos. industrial, commercial (at least one power utility) sites at least in the last 7 years including integration with third party systems such as video management system, command & control, various field devices, etc. and shall be in continuous trouble-free operation for at least last 1 year.		No	
3	7	2.0 Pre- Qualification Criteria A 1.e	Bidder /OEM must have experience to deploy IP based CCTV Surveillance System with minimum 250 nos. IP cameras in a Server/VMS based system in a single order in last seven years. Copy of Work Order and Copy of Completion Certificate / submitted Request to make the camera nos. to 200 IP cameras		Agree	
4	8	2.0 Pre- Qualification Criteria A 1.f	For future expansion, the surveillance system should be independent of camera make and shall support at least 10 different makes of camera. (List of Supported Camera Makes to be submitted by the bidder) and OEM declaration is required for the same. g) Bidders /OEM must have - For this we would suggest to take C	Open Platform VMS	Adhere to specification	
5	8	2.0 Pre- Qualification Criteria A 1.f	Bidders /OEM must have manufacturing facilities Manufacturing capacity, details of works executed. Details of plant and machinery, manufacturing and testing facilities - Thi			
6	8	2.0 Pre- Qualification Criteria A 1.h	CCTV OEM should have direct presence in India since last 5 Years. Documentary evidence to be submitted. Bidder shall have the capability to integrate the new Security Surveillance system being offered. He must have Service centre in Bhubaneswar. The manufacturing facility must be in India since last 5 years Request to give relaxation on no. of years for manufacturing facility in India	Years. Documentary evidence to be submitted. Bidder shall have the capability to integrate the new Security Surveillance ystem being offered. He must have Service centre in Shubaneswar. The manufacturing facility must be in India ince last 5 years Request to give relaxation on no. of years for facility in India as post STQC regulation all OEM's are setting up the		
	1	Page 9(Document name-	2.0 Pre- Qualification Criteria, B-Financial Pre-Qualification Requirements , 2 (Experience)	6 Cr. for similar types of CCTV and surveillance system works	Requesting main clause to be amended as "a) The bidder should have completion of cumulative orders of Rs. 6 Cr. for similar types of CCTV and surveillance system works or any IT/ITES Works during the last 5 years. Copy of work order to be submitted in this regard."	The bidder should have completion of cumulative orders of Rs. 6 Cr. for similar types of CCTV or surveillance system works including LAN/WAN Networking during the last 5 years. Copy of work order to be submitted in this regard.

2	Page-1(Document name spec)	1. IP BULLET CAMERA IR 60 MTRS	4MP(1/3"" 4 MP PS CMOS Image Sensor, Max. 4MP (2560 x 1440) @25/30 fps, and 4MP (2688 X 1520) @ 20 fpps, H.265 +/H.264+dual stream encoding, WDR(120 dB), Day / Night (ICR), 3D - DNR, ROI, AWB,AGC, BLC,HLC, 3.6mm fixed lens (2.8 mm optional) IR Range of 60 Mtrs, IP67, Poe, Mobile Software : Android and I phone supported. The device should be supported CMS software and must have STQC certification	Request: Requesting your kind attention to amend the CCTV specifications as outlined below. Kindly remove the following points, as they pertain to NVR parameters and are not relevant to the CCTV hardware specifications: - Mobile Software: Android and I phone supported. - The device should be supported CMS software and must have STQC certification Justification: The proposed changes are intended to ensure the specifications are more appropriate and justified, aiming to deliver better performance and operational efficiency. CCTV SPECIFICATION: IP BULLET CAMERA IR 60 MTRS 1. 5MP (2560 X 1920), Motorized V/F IR Bullet Camera. 2. Image Sensor: 1/2.8" Progressive Scan CMOS Sensor. 3. Focal Length: 2.7mm to 13.5mm, P-Iris 4. Triple streams (H.265 / H.265 / MJPEG) 5. Up to 60m IR or better 6. True Day Night (TDN) with automatic removable cut filter 7. True WDR, 120dB 8. Audio Communication: Bi-directional audio (2-way), 1IN/10UT 9. ONVIF Profile S, G, T & M 10. Alarm IN x 1, Alarm OUT x 1 11. PoE & 12VDC support power supply failover 12. Built-in micro SD card slot, up to 1TB (Encrypted Storage)	STQC is mandatory however rest of the suggested specification is acceptable
3	Page-1(Document name spec)	2. IP DOME CAMERA IR 30 MTRS	(1/3"" 4MP PS CMOS Image Sensor, Max 4 MP (2560 X 1440)@25/30fps and 4MP (2688 X 1520) @20 fps,H.265+and H.264+ dual stream encoding, WDR(120dB), Day/Night (ICR), 3D-DNR, ROI, AWB, AGC, BLC, HLC,3.6mm fixed lens (2.8mm optional), IR Range of 30 Mtrs, IP67, POE, Mobile Software : Android and I phone supported. The device should be supported CMS software and must have STQC certification	14. CE, FCC, UL & BIS Request: Requesting your kind attention to amend the CCTV specifications as outlined below. Kindly remove the following points, as they pertain to NVR parameters and are not relevant to the CCTV hardware specifications: - Mobile Software: Android and I phone supported. - The device should be supported CMS software and must have STQC certification Justification: The proposed changes are intended to ensure the specifications are more appropriate and justified, aiming to deliver better performance and operational efficiency. CCTV SPECIFICATION: IP DOME CAMERAI R3 OMTRS 1. 5MP (2560 X 1920), Motorized V/F IR Dome Camera. 2. Image Sensor: 1/2.8" Progressive Scan CMOS Sensor. 3. Focal Length: 2.7mm to 13.5mm, P-Iris 4. Triple streams (H.265 / H.265 / MJPEG) 5. Up to 30m IR or better 6. True Day Night (TDN) with automatic removable cut filter 7. True WDR, 120dB 8. Audio Communication: Bi-directional audio (2-way), 1IN/10UT 9. ONVIF Profile S, G, T & M 10. Alarm IN x 1, Alarm OUT x 1 11. PoE & 12VDC support power supply failover 12. Built-in micro SD card slot, up to 1TB (Encrypted Storage) 13. IP67, IK10 & NEMA 4X 14. CE, FCC, UL & BIS	STQC is mandatory however rest of the suggested specification is acceptable

4	Page-1(Document name spec)	3. 8 CHANNEL NVR	Support 8 Channel IP camera input, Max 80Mbps Network Bandwidth, Smart H.265 +/H.265/Smart H.264+/ H.264 codec decoding, Up to 8MP resolution preview and playback, support 1 SATA HDDs up to 8TB, 2 USB Ports, (USB 2.0), VGA / HDMI simulations video output, maximum resolution of HDMI simultaneous video output, maximum resolution of HDMI is 1080P, support multi-brand network cameras, ONVIF version conformance, Mobile Software: CMS software should be available,	Request: Requesting your kind attention to amend the specifications as outlined below. Justification: The proposed changes are intended to ensure the specifications are more appropriate and justified, aiming to deliver better performance and operational efficiency. NVR SPECIFICATION: 12- CHANNEL NVR 1. Channels Supported: 12 channels IP input 2. Embedded OS: Linux-based 3. Storage Capacity Upto 144TB; HDD Interface 8 X SATA @ 18TB each Hard Disk 4. RAID 0 / 1 / 5 / 10 supported 5. Network Bandwidth: 512Mbps / 512Mbps (Incoming / Outgoing) 6. Monitor Output: HDMI 2.0 X 1 (Main) 7. LAN: 2 X RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface 8. USB: 2 X USB 2.0, 1 X USB 3.0 9. Alarm IN x 2, Alarm OUT x 1 10. Factory Reset Button: Yes 11. ONVIFS 12. Certification: BIS, CE & FCC 13.CMS software should be available 14.Mobile Connection: iOS / Android 15.Supports upto 12MP Resolution 16. H.265 / H.264 / MJPEG Compression Technique 17. NVR Native Client and Local Client for connecting multiple NVRs	Refer to the original NVR requirement, suggested configuraiton is not acceptable
5	Page-50(Document name- SLA, SOW, TS & BOM) Or Page-48(Document name- Specifications of Security Surveillance System Phase- 2_R0)	2C. Outdoor Junction Box	2C. Outdoor Junction Box	Please clarify the Mounting Rait with mounting Channels and how many U required for this JB. (If applicable)	Specification of outdoor junction box is mentioned in the RFP , However the dimension of the junction box should be 600H x 400W x 300D, 12 U rack space required.
6	Page-22(Document name- SLA, SOW, TS & BOM)	ANNEXURE I Price Schedule for Rate contract for CCTV Installation Work at Stores and PSS	Laying of OFC, Power cable& Cat-6 Cable through the Pipe with installation attributes	Laying standard is not mentioned for Quantity for PSS is 15000 Mtr, Quantity for Store and Office location is 7760 Mtr. Please Clarify any standard procedure follow by Tata power. Is there any specific standard for OFC	The required cable should be supplied and laid as per the attached specification with RFP.
7	Page-22(Document name- SLA, SOW, TS & BOM)	as well as at Data Centre	Installation, testing and commissioning of Control center as well as at Data Centre	If there are any active and passive layout architectures, pls share	All the architecture required document can be shared with the successful bidder after successful POC of the solution.
1	TPWODL CCTV PSS location excel file: OEM Qualification criteria	BA should have executed any project of minimum 100 cameras along with 30 switches either in single order or multiple different orders	please change clase as BA/OEM should have executed any project of minimum 100 cameras along with 30 switches either in single order or multiple different orders	This is the minimum qualification cretiria to execute the project.Thus it can not be changed.	
2	TPWODL CCTV PSS location Technical specification IP BULLET CAMERA IR 60 MTRS	IR Range of 60 Mtrs	Reuest to change the clause as IR Range 50 mtrs	Based on the geographical layout of different PSS, a bullet camera with at least 60-meter IR range is necessary. Hence, the specification is fixed and cannot be modified	
3	TPWODL CCTV PSS location Technical specification 8 Channel NVR	The device must be have STQC Certification	STQC certification for NVRs is not feasible, as currently no OEM offers NVRs with STQC certification. We therefore request you to kindly remove or revise this clause to enable fair participation and realistic compliance by all bidders.	As per MeitY regulations, the OEM must have STQC certification for surveillance systems due to security concerns. TPWODL operates under OERC guidelines ,thus this requirement is mandatory and cannot be omitted	

	Page no: 7 of :B Financial Pre-Qualification Requirements point 02:	Experience: a) The bidder should have completion of cumulative orders of Rs. 6 Cr. for similar types of CCTV and surveillance system works during the last 5 years. Copy of work order to be submitted in this regard.	Requesting to change the clause as: a) The bidder should have completion of cumulative orders of Rs. 6 Cr. for similar types of works during the last 5 years. Copy of work order to be submitted in this regard. Definition of Similar Work shall be as follows: Successful supply, installation, commissioning and maintenance of CCTV Surveillance System or LAN/WAN Networking / any IT Infrastructure involving CCTV Surveillance System or Smart City Projects, or a combination of any of these. Justification: Since approximately 10% of the total project cost pertains to CCTV components and the majority scope relates to Networking, expanding the definition of "similar work" to include networking, IT infrastructure, and smart city projects will ensure wider participation of relevant and experienced bidders. This will not only attract more competitive bids but also enhance the overall quality of project implementation.	The bidder should have completion of cumulative orders of Rs. 6 Cr. for similar types of CCTV or surveillance system works including LAN/WAN Networking during the last 5 years. Copy of work order to be submitted in this regard.	
	TPWODL CCTV PSS location excel file: OEM Qualification criteria		please change the clause as BA/OEM should have executed any project of minimum 100 cameras along with 30 switches either in single order or multiple different orders	Accepted but for the bidder should have completion of cumulative orders of Rs. 6 Cr. for similar types of CCTV or surveillance system works including LAN/WAN Networking during the last 5 years. Copy of work order to be submitted in this regard.	
	Page No: 37 of Technical specification of 1.Z: 8 port Switch: point 06	Power Suply: AC 120V- 260V, DC 12V-72V	Kindly make it as power supply Support Dual DC	Tender Clause Stands	
	Page No: 38 of Technical specification of LJ: 12 port POE Gigabit Switch: point 06	PoE Standard: IEEE802.3af, IEEE802.3at, Hi-PoE, IEEE802.3bt	kindly remove the clause	Tender Clause Stands	
	Page No: 38 of Technical sp	PoE Pin Assignment: PoE/Hi-PoE: 1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-)	kindly make it as Pin Suuport only POE and POE+ standard	Accepted	
	Page No: 38 of Technical specification of LJ: 12 port POE Gigabit Switch: point 17	Certificate: FCC, DOT approved & TTP Listed	kindly Remove the certification & make it as TEC certified.	Tender Clause Stands	
	Page:22 of Technical specification Annexure-1 price schedue for rate contract: sl 03- wall mount Rack		kindly add wall mount rack make should be Netrack/legrand/Valrack/Tata Trinox/Schneider	The clause can be read as " wall mount Rack-make: Netrack/legrand/Valrack/Tata Trinox/Schneider "	
	Page no:46 of Technical Specification for 3 kva online UPS System with 60 mint battary backup, point:01	Input / 1-Phase Output with IGBT Rectifier with	Request to Kindly accept the capacity as 3kVA/2.4kW	The clause can be read as "Capacity (in kVA /kW): 3kVA/2.2kW or higher 1-Phase Input / 1-Phase Output with IGBT Rectifier with Inbuilt Battery"	
	Page no:46 of Technical Specification for 3 kva online UPS System with 60 mint battary backup point:02		Request to change the clause as 160 / 140 / 120 / 110 VAC \pm 5% (based on load percentage 100% - 80% / 80% - 70% / 70% - 60% / 60% - 0) 280 VAC \pm 5%	Tender Clause Stands	

o:46 of Technical cation for 3 kva UPS System with 60 ttary backup 3	Efficiency(Min): 88%	consider it as 90%	Any additional feature which is higher side is welcomed however the tender clause remain unchanged
nal clause for 3 kva	Battery AH: 6x9AH	kindly add the clause additinally	Tender Clause Stands. If you want some additional feature may do the same.
o:46 of Technical cation for 3 kva UPS System with 60 ttary backup	RS485 Port & SNMP enabled	Kindly change to RS232/USB & SNMP	Tender Clause Stands. If you want some additional feature may do the same.
o:46 of Technical cation for 3 kva UPS System with 60 ttary backup			The clause can be read as "Protocol:Modbus/SNMP "
o:46 of Technical cation for 3 kva UPS System with 60 ttary backup	Backup Required: 60 min	30 mins for 600W load	Tender Clause Stands
	ISO 45001: 2018 Factory calibration lab of manufacturer shall be NABL accredited in India	NABL part should be removed	Tender Clause Stands, Any additional Certification is accepted
cation for 3 kya		Kindly consider it as UPS - Floor Mount Dimension 419 x 190 x 318 DxWxH mm	Tender Clause Stands
o:50 of Technical cation of functinal ement specification S License point no:1	ONVIF (S,G,T and M) Compliant. The Declaration of ONVIF shall be available on ONVIF Official Website www.onvif.org in the Conformant Devices. VMS OEM to Submit a Valid	1. The VMS should be ONVIF compliant with support for profiles S, G, T and M to ensure interoperability with any camera brand. Proposed software OEM should have full membership of ONVIF to ensure prompt upgradation and developments of ONVIF parameters. The information should be available on the ONVIF website for verification	Any additional feature which is higher side is welcomed however the tender clause remain unchanged
cation of functinal ement specification	membership for open integration with 3rd party system / devises integration to meet project objective	2.The VMS shall be operating system-agnostic and compatible with Microsoft Windows, Unix, and Linux Operating Systems. It shall also support virtualization on all the leading virtualization platforms. Furthermore, the VMS shall be able to work with multiple Database Servers, including Microsoft SQL, MySQL, PostgreSQL, and Oracle.	Any additional feature which is higher side is welcomed however the tender clause remain unchanged
o:50 of Technical Spo	ISO 9001:2015, ISO- 27001, ISO 14001:2015, ISO/IEC 20000-1:2018, ISO/IEC 27001:2013, ISO	4.The VMS OEM should be in existence in India since last 15 years. The OEM should have at least the following certificates: ISO 9001, 27001, ISO 27017, 14001 and CMMI Level 3.Also add 5.The offered VMS must be cyber security certified with FIPS-140-2 encryption from Indian body for mitigating cyber security risk. The FIPS 140-2 Certification should be done on or before the Bid Publishing Date. A Valid Certificate for FIPS 140-2 for the VMS Application to be Submitted as Proof. "Applied for" Certification is not acceptable.	Any additional feature which is higher side is welcomed however the tender clause remain unchanged
	ation for 3 kva JPS System with 60 tary backup al clause for 3 kva 246 of Technical ation for 3 kva JPS System with 60 tary backup 246 of Technical ation for 3 kva JPS System with 60 tary backup 246 of Technical ation for 3 kva JPS System with 60 tary backup 246 of Technical ation for 3 kva JPS System with 60 tary backup 246 of Technical ation for 3 kva JPS System with 60 tary backup 246 of Technical ation for 3 kva JPS System with 60 tary backup 250 of Technical ation of functinal ment specification License point no:1 250 of Technical ation of functinal ment specification License point no:2	ation for 3 kva IPS System with 60 tary backup RS485 Port & SNMP enabled Forther & SNMP enabled RS485 Port & SNMP enabled Forther & SNMP enabled RS485 Port & SNMP enabled Forther & SNMP enabled RS485 Port & SNMP enabled Forther & SNMP enable	ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation for 3 kva PS System with 60 tary backup A6 of Technical ation of functinal ment specification ONVIP Official Website www.onvid.org in the Centificate to Substantiate the Proof. A7 The VMS should be ONVIP compliant with support for profiles S, G, T and M to ensure interoperability with any camera brand. Proposed software OEM should have full membership of ONVIP formentees. The information should be available on the ONVIP website for verification A7 The VMS shall be operating system-agnostic and compatible with Microsoft Windows, Unix, and Linux VMS OEM should have ISO latest certificates: A7 The VMS OEM should be in existence in India since at 15 years. The OEM should have a least the following certificaties: ISO 9001; 27001; ISO 27017; 14001 and CMMI Level 3.Also add 5. The officred VMS must be obeyenessed soft and the control of the Should be in existence in India since at 15 years. The OEM should have a least the following certificaties: ISO 9001; 27

Page no:50 of Tec Specification of fi requirement spec of VMS License p	unctinal 7.The VMS Softwa	re must be STQC certified.	Kindly make the clause as OEM "Applied for STQC Certifi	Tender Clause Stands	
	General Points			1.There are 5 years of comprehensive onsite warranty of all the product & equipment which also include spare parts. 2.BA should maintain minimum of 1% of spare of the equipment to maintain the agreed SLA.	