

Response to Pre-Bid Quarries for design, supply, installation and commissioning of IP based CC TV Servilience system with centralized Monitoring Capacity for OMC

NIT No. PMC/E-PROC/CP/041/2025-26, dtd. 20.02.2026

E-Tender ID: 2026_OMC_126400_1

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
1	42	4. Scope of Work	4. Scope of Work	The RFP Scope of Work and the provided BOQ do not provide sufficient clarity regarding the overall system architecture. We request you to kindly provide the detailed system architecture diagram to ensure accurate understanding, system design, and appropriate hardware sizing.	Kindly refer to the revised Tender Document. Number of Servers across location has been added
2	106	31. AI Analytics Software	31. AI Analytics Software 41. The system shall allow classification of different objects like Vehicles and people/Person.	Kindly specify the number of cameras on which Object Classification (Person / Vehicle) analytics is required.	Kindly refer to revised Tender Document Approximately 20% of the total quantity of cameras; however, this may vary by location.
3	110	Annexure 17	Document Submitted as a part of Bid Declaration by OEM as per Annexure 18	The OEM declaration is requested as per Annexure 18; however, Annexure 18 is not available in the RFP document. We request you to kindly share Annexure 18 for reference.	Kindly refer to revised Tender Document Annexure 18 removed and Annexure 17-revised
4	44	4.2. Supply of Equipment	Tentative Supply Items (Part of Price Bid) 6. Supply, installation testing & Commissioning of 32 TB HDD as per the specifications provided in Annexure 16 Qty 5nos	In industry 32TB HDD is not available as survailance HDD. So request you to change it to 16TB HDD Qty 10 Nos	Kindly refer to revised Tender Document Subject to feasibility, 5 units of 32 TB or 10 units of 16 TB.
5	47	4.4. Operation and Comprehensive Maintenance Support	Agency should maintain minimum 10% inventory of critical equipment (Cameras, NVR and PoE Switch) for any replacement requirements at different locations at its own cost	We request that maintaining an inventory equivalent to 5% of the critical equipment may be considered sufficient to meet replacement requirements under the contract.	Kindly refer to revised Tender Document The minimum inventory requirement shall be 5% of each item's quantity, or at least 2 units per item—whichever is higher.
6			General	Request to Add- CCTV OEM should have direct Presence & Manufacturing in India from last 15 years. (not as joint venture, partnership firms or through any association) and R&D unit registered with Department of Scientific and Industrial Research (DSIR) in India. OEM should submit Manufacturing and DSIR certificates.	The tender conditions shall prevail.
7	88	Annexure 16: Specifications, 3.	PTZ Camera (4 MP, IP)	Request to Add-2TB Storage will store more data in Off line condition so we request you please kindly accept our suggestion and ammend it.	The tender conditions shall prevail.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
8	12	6. Scope of Services	6. Scope of Services 6.1. Odisha Mining Corporation Ltd. (OMC) intends to deploy a robust, scalable, and secure IP-based CCTV surveillance ecosystem across its mining sites, Regional Offices (ROs), and Head Office (HO, Bhubaneswar). The program strengthens site security, improves operational monitoring, and drives safety compliance through real-time, centralized video oversight and AI-enabled analytics. The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.	From the Scope of Services and detailed technical specifications of the VMS, we understand the system architecture as follows: - The bidder shall provide NVRs at each mine location for local monitoring and recording of video feeds. - The bidder shall provide Video Analytics Servers and Applications at each mine location for local processing of video analytics. - The Head Office (Bhubaneswar) shall be equipped with servers for hosting the Central Video Management Software. No video recording shall be done at the Head Office (Bhubaneswar) - At the Head Office (Bhubaneswar), the Central VMS shall facilitate on-demand central monitoring, on-demand playback viewing, and centralized monitoring of all video analytics alerts. - Recording of camera feeds shall be carried out only in the local 128-channel / 32-channel NVRs installed at respective mine locations. Kindly confirm if our understanding is correct.	No equipment is to be supplied at the Head Office. However, all camera feeds should be viewable at the Head Office through the existing VMS.
9	108	32. VMS Application	32. VMS Application Central Video Management Software Technical & Functional Specifications		yes
10	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid) 30. Supply, installation testing & Commissioning of AI Analytics Server as per the specifications provided in Annexure 16 - 15 Nos	As per the tentative supply item list, the quantity of Video Analytics Servers is indicated as 15 Nos.; however, the location-wise bifurcation of these servers has not been specified in the BOQ. We therefore request you to kindly provide the location-wise distribution of the Video Analytics Servers to facilitate accurate system design and appropriate hardware sizing.	Kindly refer to the revised Tender Document. Number of Servers across location has been added
11	108	32. VMS Application	Additional Clause Request Central Video Management Software Technical & Functional Specifications	We request you to kindly add the following clause for the Central Video Management Software for better cyber secure product: "The Proposed Central Video Management Software (VMS) and Video Analytics Application should have undergone Audit as per OWASP Top 10 Security Risks from STQC. A Security Test Report/Certificate from STQC to be Submitted as a Documentary Evidence/Proof."	The tender conditions shall prevail.
12	108	32. VMS Application	Additional Clause Request Central Video Management Software Technical & Functional Specifications	Kindly add the following clause for the Central Video Management Software for better cyber secure product: "The proposed Central Video Management Software and Video Analytics Software shall be FIPS 140-2 and FIPS 140-3 compliant. The bidder shall submit a valid FIPS compliance test certificate issued by a CERT-In empanelled auditor as proof of compliance."	The tender conditions shall prevail.
13	46	4.3. Installation & Configuration	4.3. Installation & Configuration Implement AI-based software with integration for: o PPE Kit Violation Detection o Unauthorized Access Detection to restricted areas o Smoke & Fire Detection	From this clause we understand that the "Unauthorized Access Detection to restricted areas " is refer to the intrusion detection functionality of the Video Analytics application. Kindly confirm if our understanding is correct.	Kindly refer to the revised Tender Document. Few areas shall be restricted for two-wheelers, or heavy vehicles etc. as required inside the mines. The AI enabled VMS should be capable to raise alarms in case any deviation.
14	46	4.2. Supply of Equipment	Tentative Supply Items (Part of Price Bid) 32 Supply, installation testing & Commissioning of VMS Application for all locations as per the specifications provided in Annexure 16 - 1 Lumpsum	From the BOQ, we understand that the VMS application is to be supplied separately for each location, and the recording of camera feeds shall be carried out locally at the respective location's NVR. Kindly confirm if our understanding is correct.	Kindly refer to the revised Tender Document. Number of Servers across location has been added

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15	103	30. AI Analytics Server	30. AI Analytics Server Specification 32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443	We request you to kindly clarify whether the processor to be supplied by the bidder should have a total of 32 cores (2 Nos x 16 Core processor) or 2 Nos. x 32-core processors (total 64 cores).	Kindly refer to the revised Tender Document Specifications modified
16	103	31. AI Analytics Software	31. AI Analytics Software 19 The System should be able the Following Personal Protective Equipment's: a. Safety Helmet/Hard Hats b. Safety Jacket/High Visibility Reflective Jacket. c. other work related PPEs (Gloves, eye protected glass, etc) in the defined area(s)/camera(s).	As glove detection and eye protection glass detection require a highly precise field of view, which is generally not achievable through standard surveillance cameras. Therefore, we request you to kindly amend the clause as follows: "19. The System should be able the Following Personal Protective Equipment's: a. Safety Helmet/Hard Hats b. Safety Jacket/High Visibility Reflective Jacket. in the defined area(s)/camera(s)."	Kindly refer to the revised Tender Document Specifications Modified
17	103	31. AI Analytics Software	31. AI Analytics Software AI Based Crowd detection AI based Intrusion Detection AI Based Fire & Smoke Detection AI Based Personal Protective Equipment's Detection	We request you to kindly provide the location wise use case quantities for each use case. For Example: *Daitari Mine Location: Crowd Detcetion- 5 Nos., PPE Detection – 20 Nos., Fire & Smoke Detection – 5 Nos. *Khandadhar Mine Location: Crowd Detcetion- 5 Nos., PPE Detection – 10 Nos., Fire & Smoke Detection – 8 Nos.	All the use cases are required at each mines.however we will decide the camera points later.
18	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	The Server quantities for the Video Management Software is missing in the BOQ. Therefore we request you to kindly add the VMS Server quantities in the BOQ.	AI Analytics Server at Sl. 30.
19	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	As we reviewed the BOQ and found that the Monitoring Workstation quantities are missing in the BOQ. Therefore we request you to kindly amend the BOQ and add the workstation quantities for each location.	It shall be monitored from existing CCC Monitors.
20	45	4.1.2. Site Survey & Design Plan	4.1.2. Site Survey & Design Plan The Selected Vendor Shall Design integration plans with existing Command & Control Centers at Mines, ROs, and HO.	From the referred clause, we understand that the term 'existing Command and Control Center' pertains to the physical command and control room infrastructure, and not to any existing Command and Control application software. Kindly confirm if our understanding is correct.	'existing Command and Control Center' pertains to the physical command and control room infrastructure.
21	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to the revised Tender Document modified
22	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Support Jumbo Frame up to 10K Bytes or higher.	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard anad available with all the leading OEM's.	Kindly refer to the revised Tender Document "Support Jumbo Frame up to 9K Bytes or higher".
23	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Require prevention of DoS attacks, which include Land, Blat, TCP Null Scan, TCP Xmas Scan & TCP SYNFIN.	Please change this as "Require prevention of DoS attacks".	Kindly refer to the revised Tender Document modified
24	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Able to manage trough Web-GUI, Compact CLI and Telnet.	Please change this as "Able to manage trough Web-GUI, Compact CLI and Telnet/ssh". Ssh is more secure than telnet.	Kindly refer to the revised DTCN.
25	92	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
26	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; 16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x Combo (SFP/RJ-45) 1G Ports	Request to please change as '16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x1G SFP ports(populated with RJ45 modules as per needs).	16 x RJ-45 PoE Gigabit Ethernet Ports and minimum 4 x 1G uplink ports supporting SFP / RJ-45 connectivity (combo or equivalent).

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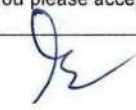

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27	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Support Jumbo Frame up to 10K Bytes or higher; Support Jumbo Frame up to 10K Bytes or higher.	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Support Jumbo Frame 9K Bytes or higher;	
28	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN	
29	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Able to manage through Web-GUI, Compact CLI and Telnet.	Please change this as "Able to manage through Web-GUI, Compact CLI and Telnet/ssh". SSH is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh.	
30	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch -16 Port; Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN	
31	93	Annexure 16: Specifications, 10.	Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection; MAC Address Table: 16K and 1.5 Mbits Packet Buffer.	Please change this as "MAC Address Table: 8K and 4MB Packet Buffer".	"MAC Address Table: 8K or higher and 1.5MB Packet Buffer or higher".	
32	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 4 x 1GE Uplink port.	Please change this as "Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 2 x 1GE Uplink port" for wider OEM participations.	"Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and minimum 2 x 1GE Uplink port".	
33	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock	Please change this as "Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP".	Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP.	
34	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Switch should have Dual redundant DC power	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN	
35	103	30	32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card- 2, Linux UBUNTU 20 or better with 3 years warranty	Kindly revise as: Total 32 Core in Single or Dual CPU configuration, Intel Xeon Or AMD EPYC, minimum 5th Gen CPU, 2.3GHz or better, 128 GB RAM, 1 TB SAS HDD & 480 GB SSD - both in RAID1 or higher, 2 x NVIDIA L4 GPU cards, EAL2 or higher cyber security certification, Security bezel with lock, perpetual system management licenses, 2 x 10G BaseT, Linux UBUNTU 20 or better with 3 years warranty	Server spec is non-configurable 'though very short as published here and missing key parameters", Kindly revise in complete for configurable options such as: Minimum 5th Gen CPU from Intel or AMD, minimum RAM to support asked GPU cards, HDD/SSD capacity as per industry availability, cyber-security compliances, minimum network ports etc.	This is the Minimum Specification given, Higher specification is accepted.

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36	103	30	33 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "RAID controller, Minimum 4GB or higher non-volatile cache supporting RAID 1, 5, 6, 10"	RAID controller specification missing.	Kindly refer to the revised DTCN.
37	103	30	34 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "1 x 1Gbps system management port (RJ-45), 1 x video port, 4 x USB 3.0 ports"	important ports and interfaces specification are missing.	Kindly refer to the revised DTCN.
38	103	30	35 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "Memory RAS features such as Fast fault tolerance or equivalent"	Memory RAS specification missing.	The tender conditions shall prevail.
39	50	8.2. Supply and Installation	Milestone 1 Supply of the equipment Payment 50% of the total basic price with GST in full Payment terms Payment for supply of equipment shall be released on the receipt and acceptance of the material from the concerned authority at respective site. Milestone 2 Successful Installation and commission of the equipment Payment 40% of the total basic price Payment terms Payment shall be released after completion of installation and commissioning as well as issue of performance certificate from the concerned authority at respective site Milestone 3 Completion of Warranty period Payment 10% of the basic price Payment Terms Payment shall be released after completion of warranty period or against submission of equivalent amount of PBG. BG to be valid till the completion of warranty period		Milestone 1 Supply of the equipment Payment 80% of the total basic price with GST in full Payment terms Payment for supply of equipment shall be released on the receipt and acceptance of the material from the concerned authority at respective site. Milestone 2 Successful Installation and commission of the equipment Payment 10% of the total basic price on Pro rata basis as per completions of each mines Payment terms Payment shall be released after completion of installation and commissioning as well as issue of performance certificate from the concerned authority at respective site Milestone 3 Completion of Warranty period Payment 10% of the basic price Payment Terms Payment shall be released after completion of warranty period or against submission of equivalent amount of PBG. BG to be valid till the completion of warranty period	Tender conditions shall prevail.
40	51	10. Price Revision	For supply of materials for the change request or implementation of Surveillance System at new mines during the period of contract, the price quoted shall be firm for 2 years from the date of agreement and the Service provider shall provide materials at this rate. However, for the period beyond 2 years, the price shall be mutually finalized.		We request you to kindly remove this clause. Due to the current market situation, including significant fluctuations in the dollar exchange rate and copper prices, OEMs are not providing price validity beyond 30 days. Therefore, bidders will not be in a position to maintain firm pricing for a period of two years.	Tender conditions shall prevail.
41	88	PTZ Camera (4 MP, IP)	Access protocol: ONVIF Profile S, G, T (OEM Should be member)		request you to add M profile. in all Camera remaining Cameras you have already asked M profile so we request you please accept our suggestion and ammend it.	Tender coditions shall prevail.

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42	13	Clause 7 Sl. No. 7.1 in the table	The Bidder must have successfully executed similar work during the last 05 (five) years, which shall be either of the following: i) Three similar completed Services of value not less than INR 1.3 Crore each (Excluding GST) OR ii) Two similar completed Services of value not less than INR 1.6 Crore each (Excluding GST) OR iii) Single similar completed Service of value not less than INR 2.6 Crore (Excluding GST) Note: "Similar completed Services" shall mean Supply, installation of CCTV Surveillance System with/without AMC. Applicable 5 (five) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e. FY 2020-21, FY 2021-22, FY 2022-23, FY 2023-24 and FY 2024-25)	We are executing a project that has multiple components, including CCTV surveillance. The BOQ as part of the agreement has detailed breakup of value of each of the line item. Kindly let us know if OMC will consider/accept the value of CCTV components (Including camera, switches, CCTV software, junction boxes, poles, rack, etc.) to meet the project value that is required as part of the evaluation criteria.	Tender conditions shall prevail.
43	50	Clause 8.2	Payment terms: Supply and Installation Supply of the equipment - 50% of the total basic price with GST in full. Successful Installation and commission of the equipment - 40% of the total basic price Completion of Warranty period - 10% of the basic price	Request you to kindly modify the payment terms as follows: Supply of the equipment - 75% of the total basic price with GST in full. Successful Installation and commission of the equipment - 25% of the total basic price with GST in full.	Tender conditions shall prevail.
44	95	Annexure 16 Sl. No. 13 - CAT 6 Cable	OEM should have Indian based operation at least for a period of 10+ years	Request to kindly remove this clause. Removing this clause will allow more OEMs to be eligible to participate in the tender and competitive bidding process.	Tender conditions shall prevail.
45	98	Annexure 16 Sl. No. 17 - 43 Inch display monitor	Certification - For product - FCC Class " A " / CE / KC / Energy Star / BIS / ROHS	Request to kindly change it to FCC Class " A " / CE / Energy Star / BIS / ROHS. This change will allow more OEMs to be eligible to participate in the tender and competitive bidding process.	Tender conditions shall prevail.
46	104	Annexure 16 Sl. No. 31 - AI Based Video Analytics Software	AI Based Crowd detection and AI based Intrusion Detection	Request to kindly share more clarity on "Crowd detection and intrusion detection"	Few areas shall be restricted for two-wheelers, or heavy vehicles etc. as required inside the mines. The AI enabled VMS should be capable to raise alarms in case any deviation. People gathering in a location more than usual numbers should be intimated via alarms.
47	106	Annexure 16 Sl. No. 32 - VMS Application	The Offered Central VMS Software should be ONVIF S, G, T & M Profile Compliant & should be a Full ONVIF Member. Central VMS OEM to Submit a Valid Certificate to Substantiate the Proof.	Request to kindly remove the requirement of "Full ONVIF Member." Many startup companies will not have the Full ONVIF membership, whereas they may be compliant to the ONVIF parameters.	Kindly refer to the revised DTCN.
48	110	Annexure 17	Declaration by OEM as per Annexure 18	As part of the Annexure, it is mentioned that the "Declaration by OEM as per Annexure 18" is to be submitted. However, Annexure 18 is not included in the tender document. Request you to kindly share the format, along with the MAF or any other OEM-specific format, if applicable.	Kindly refer to the revised DTCN.
49				Request you to kindly add the below qualification criteria for the OEM	The tender conditions shall prevail.
50				OEM company for Camera & NVR should have its own company registered in India (under Incorporation of Companies Act, 1956/ 2013) since last 10 year. This has to be supported by necessary statutory documents. CCTV OEM should have manufacturing in India since last Seven years and Foreign CCTV OEM should have manufacturing unit globally from last 10 Years. (Documentary evidence should be submitted).	The tender conditions shall prevail.

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51				The OEM of the IP Camera, Storage, NVR/ VMS Software and Network Switches should not be blacklisted or banned by any country or government department in any country. The OEM Should not have any cheating or fraud case filed against their company for their respective product line.	The tender conditions shall prevail.
52				The CCTV OEM should have below ISO Certifications for Quality, Environment, Security management and Health & Safty Management system for manufacturing of all types of Cameras & NVR/ DVR. All the CCTV Components (Camera, VMS, NVR, DVR, etc) should be from same OEM for seamless integration and ease of operation. The Bidder/s shall attach the copy of the OEM's ISO Certificate along with the bid. ISO9001:2015, ISO 14001:2015, ISO 27001:2013, ISO 45001:2018, IEC 27032:2012, ISO 20000-1:2018, CMMI Level 5 or above certification	The tender conditions shall prevail.
53				The Camera OEM should comply to General Data Protection Regulation (GDPR). 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.	The tender conditions shall prevail.
54				The CCTV OEM should have its office and service/ support center in Madhya Pradesh from last 3 years. The required sales, service tax number/ certificate to be provided along with the bid.	The tender conditions shall prevail.
55				The CCTV OEM and product should not be from a country which shares a land border with India in compliance of the General Financial Rule 144 (GFR Rule No. 144).No Chinese OEM/origin products are allowed to participate.	The tender conditions shall prevail.
56				To establish the reliability and credibility of the CCTV OEM, they must have supplied at least 200,000 IP CCTV cameras to any State Government, Central Government, or Public Sector Undertaking in last seven years. Additionally, they must have fulfilled a single purchase order of at least 10,000 IP CCTV Outdoor cameras to any State Government, Central Government, or Public Sector Undertaking within last seven years, as of the bid submission date. Copies of purchase orders and corresponding supply evidence must be submitted as proof.	The tender conditions shall prevail.
57	42	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	Clause 4 Supply, installation testing & Commissioning of 128 Channel NVR with as per the specifications provided in Annexure 16: 4 Nos Clause 5 Supply, installation testing & Commissioning of 32	Recommending using VMS Servers instead of NVR	NVR Or Equivalent VMS Server.
58	46	4.3. Installation & Configuration	PPE Kit Violation Detection	Request to define colours of PPE Kits like Safety Jacket/High Visibility Reflective Jacket and Helmets for optimum performance and differentiation.	Multi-colour.
59	46	4.3. Installation & Configuration	Implement centralized monitoring through NVR-based VMS and AI software supporting: o Real-time monitoring o Remote playback o AI event detection and alerts	Recommending using VMS Servers instead of NVR	NVR Or Equivalent VMS Server.
60	87	Annexure 16: Specifications	1. Bullet Camera (5 MP)	Kindly Include Certification CE,FCC,BIS, RoHS, STQC ER.	Tender coditions shall prevail.

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61	104	31. AI Analytics Software AI Based Video Analytics Software	Clause 18 The system should Classify a Person/Human in real time Live Video Stream & detect if the Person is wearing the Appropriate & Configured Personal Protective Equipment's.	Request to define colours of PPE Kits like Safety Jacket/High Visibility Reflective Jacket. and Helmets for optimum performance and differentiation.	Multi-colour.
62	104	31. AI Analytics Software AI Based Video Analytics Software	Clause 20 The System should detect the respective Configured PPE on the Configured Live Stream and Send Alerts if a Person is found to be Violating the PPE Safety measures. To be escalated as per	Need Escalation Matrix Data	2-Layer Escalation, shall be finalized during implementation.
63	104 & 106	31. AI Analytics Software AI Based Video Analytics Software 32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause	The VMS & VA should be STQC Certified. The VMS should be STQC Certified for thick client, mobile client(both android and IOS) & web client . Required certification has to be shared	Tender coditions shall prevail.
64	104 & 106	31. AI Analytics Software AI Based Video Analytics Software 32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause	The offered VMS must be cyber security certified with FIPS-140-2 & FIPS 140-3 encryption from Indian body for mitigating cyber security risk. The FIPS-140-2 & FIPS 140-3 Certification should be done on or before the Bid Publishing Date. A Valid Certificate for FIPS-140-2 & FIPS 140-3 for the VMS Application to be Submitted as Proof.	Tender coditions shall prevail.
65	106 & 107	32. VMS Application Central Video Management Software Technical & Functional Specifications Mobile Surveillance & Remote Viewing Parameters	Clause 6 The Central VMS shall support iPad, Android and iPhone devices & shall also support web clients. Clause 21 Ability to view live video on iOS and Android phones or devices with or without installing proprietary Apps.	The VMS should be STQC Certified for thick client, mobile client(both android and IOS) & web client . Required certification has to be shared	Tender coditions shall prevail.
66	106	32. VMS Application Central Video Management Software Technical & Functional Specifications	Clause 3 The Central Video Management Software shall be Client-Server based IP Video security solution that shall provide seamless management of Digital Video, Audio and data across an IP network. Video from sites shall be possible to view from single or numerous workstations simultaneously at any time. Cameras and viewing stations may be placed across the terminal in the IP network.	Requesting Additional Clause The VMS should provide the collaborative vigilance function among the mobile operators. It should be possible for the operators to view the fellow mobile operators in the vicinity and connect with them to share information, chat, video calls, etc through appropriate solution. The functionality should have been deployed in at least one project. The OEM should give details of the installation and the project as a part of the declaration.	Tender coditions shall prevail.
67	107	32. VMS Application Central Video Management Software Technical & Functional Specifications	Streaming Parameters 27 Authentication parameters (username, password) for streaming to remote clients. The Offered Central VMS must support the Following features when Connected with Third Party DVR's & NVR's i. Fetching & Displaying Live Streams from all Channels of NVR, ii. Fetching Recorded Playback Video Streams	Recommending using VMS Servers instead of NVR	NVR Or Equivalent VMS Server.
68	106	32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause	OEM supplying the Video Management System should have supplied / operated the VMS for at least 50 projects as on last date of submission of bid. OEM shall submit documental evidence of work order / agreement to the System Integrator mentioning the relevant scope of Work along with invoice/s raised to the System Integration for the same project by OEM.	Tender coditions shall prevail.
69	106	32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause	The Video surveillance OEM must be listed in the IHS/Informa, OMDIA ranking of the top 3 VMS providers in Asia.	Tender coditions shall prevail.

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70	106	32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause	The average annual turnover of the VMS/VA/TMS OEM should be minimum Rs.60 Crores during last 3 financial years i.e 2021 2022, 2022-2023, 2023-2024. CA certificate for turnover as mentioned in the criteria. Audited Balance sheets from company Statutory Auditor/ CA from OEM & financial data of the last three years.	Tender conditions shall prevail.
71	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch -16 Port; Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch	Request to please remove RPS. 16 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
72	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Able to manage through Web-GUI, Compact CLI and Telnet.	Please change this as "Able to manage through Web-GUI, Compact CLI and Telnet/ssh". Ssh is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh
73	93	Annexure 16: Specifications, 10.	Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection; MAC Address Table: 16K and 1.5 Mbits Packet Buffer.	Please change this as "MAC Address Table: 8K and 4MB Packet Buffer".	"MAC Address Table: 8K or higher and 1.5MB Packet Buffer or higher".
74	92	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
75	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; 16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x Combo (SFP/RJ-45) 1G Ports	Request to please change as '16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x1G SFP ports(populated with RJ45 modules as per needs).	16 x RJ-45 PoE Gigabit Ethernet Ports and minimum 4 x 1G uplink ports supporting SFP / RJ-45 connectivity (combo or equivalent).
76	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Support Jumbo Frame up to 10K Bytes or higher.	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".
77	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN
78	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
79	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Support Jumbo Frame up to 10K Bytes or higher.	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".
80	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Require prevention of DoS attacks, which include Land, Blat,	Please change this as "Require prevention of DoS attacks".	Require prevention of DoS attacks.
81	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Able to manage through Web-GUI, Compact CLI and Telnet.	Please change this as "Able to manage through Web-GUI, Compact CLI and Telnet/ssh". Ssh is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
82	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 4 x 1GE Uplink port.	Please change this as "Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 2x 1GE Uplink port"for wider OEM participations.	Tender conditions shall prevail.
83	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Switch should have Dual redundant DC power	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN
84	103	30	32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card- 2, Linux UBUNTU 20 or better with 3 years warranty	Server spec is non-configurable 'though very short as published here and missing key parameters", Kindly revise in complete for configurable options such as: Minimum 5th Gen CPU from Intel or AMD, minimum RAM to support asked GPU cards, HDD/SSD capacity as per industry availability, cyber-security compliances, minimum network ports etc.	Kindly refer to the revised DTCN.
85	103	30	33 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU	RAID controller specification missing.	Kindly refer to the revised DTCN.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
86	103	30	34 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU	important ports and interfaces specification are missing.	Kindly refer to the revised DTCN.
87	103	30	35 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU	Memory RAS specification missing.	Kindly refer to the revised DTCN.
88	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	It is observed that the BOQ does not include the quantities for VMS Servers. We kindly request you to amend the BOQ and incorporate the required VMS server quantities.	AI Analytics Server at Sl. 30.
89	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	During our review of the BOQ, we noted that the quantities for Monitoring Workstations have not been indicated. We kindly request you to revise the BOQ accordingly and specify the required workstation quantities for each location.	Existing systems shall be used for monitoring.
90	45	4.1.2. Site Survey & Design Plan	4.1.2. Site Survey & Design Plan The Selected Vendor Shall Design integration plans with existing Command & Control Centers at Mines, ROs, and HO.	As per the referred clause, we understand that "existing Command and Control Center" means only the physical command and control room infrastructure and not any existing application software. Please Confirm	There are cameras already installed and those are being monitored from existing CCC. The cameras as part of this project are additional cameras.
91	42	4. Scope of Work	4. Scope of Work	It is observed that the Scope of Work outlined in the RFP along with the provided BOQ does not clearly define the overall system architecture. In order to ensure accurate understanding of the project requirements, appropriate system design, and correct hardware sizing, we kindly request you to provide the detailed system architecture diagram for reference.	There are cameras already installed and those are being monitored from existing CCC. The cameras as part of this project are additional cameras. Details already mentioned in DTCN.
92	50	8.2. Supply and Installation	Milestone 1 Supply of the equipment Payment 50% of the total basic price with GST in full Payment terms Payment for supply of equipment shall be released on the receipt and acceptance of the material from the concerned authority at respective site. Milestone 2 Successful Installation and commission of the equipment Payment 40% of the total basic price Payment terms Payment shall be released after completion of installation and commissioning as well as issue of performance certificate from the concerned authority at respective site Milestone 3 Completion of Warranty period Payment 10% of the basic price Payment Terms Payment shall be released after completion of warranty period or against submission of equivalent amount of PBG. BG to be valid till the completion of warranty period	We respectfully request that the payment terms be revised to allow stage-wise release of payment linked to defined project milestones. It is requested that the first stage payment, equivalent to 80% of the total basic contract price along with applicable GST, be released against supply of equipment, upon receipt, inspection, and acceptance of materials by the concerned authority at the respective site. Further, it is requested that the second stage payment, equivalent to 15% of the total basic contract price, be released on a pro-rata basis upon successful installation and commissioning at each individual mine, subject to issuance of Performance Certificate by the concerned authority at the respective site. Lastly, it is requested that the balance payment, equivalent to 5% of the total basic contract price, be released upon completion of the warranty period or against submission of a Performance Bank Guarantee (PBG) of equivalent amount, valid till completion of the warranty period.	Tender conditions shall prevail.
93	44	4.2. Supply of Equipment	Tentative Supply Items (Part of Price Bid) 6. Supply, installation testing & Commissioning of 32 TB HDD as per the specifications provided in Annexure 16 Qty 5nos	It is submitted that 32TB HDD is not available in the market under the surveillance HDD category. Accordingly, we request you to kindly revise the specification to 16TB surveillance HDD with quantity of 10 Nos.	Bidder shall propose storage architecture based on NVR capacity. However, minimum HDD size shall not be less than 10TB and shall be compatible with the offered NVR. Total storage shall meet required retention period.
94	47	4.4. Operation and Comprehensive Maintenance Support	Agency should maintain minimum 10% inventory of critical equipment (Cameras, NVR and PoE Switch) for any replacement requirements at different locations at its own cost	We request that maintaining 5% inventory of critical equipment may be considered sufficient for replacement purposes.	The minimum inventory requirement shall be 5% of each item's quantity, or at least 2 units per item—whichever is higher.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
95	51	10. Price Revision	For supply of materials for the change request or implementation of Surveillance System at new mines during the period of contract, the price quoted shall be firm for 2 years from the date of agreement and the Service provider shall provide materials at this rate. However, for the period beyond 2 years, the price shall be mutually finalized.	We request you to kindly remove this clause. Due to significant fluctuations in the dollar exchange rate and copper prices, OEMs are not providing price validity beyond 30 days. Therefore, it will not be feasible for bidders to maintain firm pricing for a period of two years.	The tender conditions shall prevail.
96	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
97	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Support Jumbo Frame up to 10K Bytes or higher.	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".
98	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Require prevention of DoS attacks, which include Land, Blat, TCP Null Scan, TCP Xmas Scan & TCP SYNFIN.	Please change this as "Require prevention of DoS attacks".	Require prevention of DoS attacks.
99	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Able to manage through Web-GUI, Compact CLI and Telnet.	Please change this as "Able to manage through Web-GUI, Compact CLI and Telnet/ssh". SSH is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
100	92	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
101	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; 16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x Combo (SFP/RJ-45) 1G Ports	Request to please change as '16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x 1G SFP ports(populated with RJ45 modules as per needs).	16 x RJ-45 PoE Gigabit Ethernet Ports and minimum 4 x 1G uplink ports supporting SFP / RJ-45 connectivity (combo or equivalent).
102	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Support Jumbo Frame up to 10K Bytes or higher.	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".
103	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN
104	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Able to manage through Web-GUI, Compact CLI and Telnet.	Please change this as "Able to manage through Web-GUI, Compact CLI and Telnet/ssh". SSH is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
105	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch -16 Port; Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for	Request to please remove RPS. 16 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
106	93	Annexure 16: Specifications, 10.	Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection; MAC Address Table: 16K and 1.5 Mbits Packet Buffer.	Please change this as "MAC Address Table: 8K and 4MB Packet Buffer".	"MAC Address Table: 8K or higher and 1.5MB Packet Buffer or higher".
107	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 4 x 1GE Uplink port.	Please change this as "Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 2 x 1GE Uplink port" for wider OEM participations.	The tender conditions shall prevail.
108	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock	Please change this as "Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP".	Or NTP/SNTP".
109	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Switch should have Dual redundant DC power supply inputs 12 to 55 VDC with reverse polarity protection. Dual redundant power supply from Day 1	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN

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Sl. No.	Page No.	Clause No.	Clause Description		Clarification Sought	Reply
110	103	30	32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly revise as: Total 32 Core in Single or Dual CPU configuration, Intel Xeon Or AMD EPYC, minimum 5th Gen CPU, 2.3GHz or better, 128 GB RAM, 1 TB SAS HDD & 480 GB SSD - both in RAID1 or higher, 2 x NVIDIA L4 GPU cards, EAL2 or higher cyber security certification, Security bezel with lock, perpetual system management licenses, 2 x 10G BaseT, Linux UBUNTU 20 or better with 3 years warranty	Server spec is non-configurable 'though very short as published here and missing key parameters", Kindly revise in complete for configurable options such as: Minimum 5th Gen CPU from Intel or AMD, minimum RAM to support asked GPU cards, HDD/SSD capacity as per industry availability, cyber-security compliances, minimum network ports etc.	Kindly refer to the revised DTCN.
111	103	30	33 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "RAID controller, Minimum 4GB or higher non-volatile cache supporting RAID 1, 5, 6, 10"	RAID controller specification missing.	Kindly refer to the revised DTCN.
112	103	30	34 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "1 x 1Gbps system management port (RJ-45), 1 x video port, 4 x USB 3.0 ports"	important ports and interfaces specification are missing.	Kindly refer to the revised DTCN.
113	103	30	35 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "Memory RAS features such as Fast fault tolerance or equivalent"	Memory RAS specification missing.	Kindly refer to the revised DTCN.
114	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid) [image]		It is observed that the BOQ does not include the quantities for VMS Servers. We kindly request you to amend the BOQ and incorporate the required VMS server quantities.	AI Analytics Server at Sl. 30.

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115	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	During our review of the BOQ, we noted that the quantities for Monitoring Workstations have not been indicated. We kindly request you to revise the BOQ accordingly and specify the required workstation quantities for each location.	Existing systems shall be used for monitoring.
116	45	4.1.2. Site Survey & Design Plan	4.1.2. Site Survey & Design Plan The Selected Vendor Shall Design integration plans with existing Command & Control Centers at Mines, ROs, and HO.	As per the referred clause, we understand that "existing Command and Control Center" means only the physical command and control room infrastructure and not any existing application software. Please Confirm	There are cameras already installed and those are being monitored from existing CCC. The cameras as part of this project are additional cameras.
117	42	4. Scope of Work	4. Scope of Work	It is observed that the Scope of Work outlined in the RFP along with the provided BOQ does not clearly define the overall system architecture. In order to ensure accurate understanding of the project requirements, appropriate system design, and correct hardware sizing, we kindly request you to provide the detailed system architecture diagram for reference.	There are cameras already installed and those are being monitored from existing CCC. The cameras as part of this project are additional cameras. Details already mentioned in DTCN.
118	50	8.2. Supply and Installation	Milestone 1 Supply of the equipment Payment 50% of the total basic price with GST in full Payment terms Payment for supply of equipment shall be released on the receipt and acceptance of the material from the concerned authority at respective site. Milestone 2 Successful Installation and commission of the equipment Payment 40% of the total basic price Payment terms Payment shall be released of installation as well as issue certificate from site Milestone 3 of Warranty period Payment 10% of the basic price Payment Terms Payment shall be released of warranty period or against submission of equivalent amount of PBG. BG to be valid till the completion of warranty period the concerned authority at respective [image] after completion after completion of performance Completion and commissioning	We respectfully request that the payment terms be revised to allow stage-wise release of payment linked to defined project milestones. It is requested that the first stage payment, equivalent to 80% of the total basic contract price along with applicable GST, be released against supply of equipment, upon receipt, inspection, and acceptance of materials by the concerned authority at the respective site. Further, it is requested that the second stage payment, equivalent to 15% of the total basic contract price, be released on a pro-rata basis upon successful installation and commissioning at each individual mine, subject to issuance of Performance Certificate by the concerned authority at the respective site. Lastly, it is requested that the balance payment, equivalent to 5% of the total basic contract price, be released upon completion of the warranty period or against submission of a Performance Bank Guarantee (PBG) of equivalent amount, valid till completion of the warranty period.	Tender conditions shall prevail.
119	12	6. Scope of Services	The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.	We understand that the Command and Control Center will be separate for each Mine, ROS, and Head Office (HO). Kindly confirm if our understanding is correct. If a centralized Command and Control Center is required, we request you to please share the details of the existing network connectivity between each Mine, ROS, and the Head Office.	All CCC are already in place at respective locations.
120	44	4.2. Supply of Equipment	Tentative Supply Items (Part of Price Bid) 6. Supply, installation testing & Commissioning of 32 TB HDD as per the specifications provided in Annexure 16 Qty 5nos	It is submitted that 32TB HDD is not available in the market under the surveillance HDD category. Accordingly, we request you to kindly revise the specification to 16TB surveillance HDD with quantity of 10 Nos.	Bidder shall propose storage architecture based on NVR capacity. However, minimum HDD size shall not be less than 10TB and shall be compatible with the offered NVR. Total storage shall meet required retention period.
121	47	4.4. Operation and Comprehensive Maintenance Support	Agency should maintain minimum 10% inventory of critical equipment (Cameras, NVR and PoE Switch) for any replacement cost requirements at different locations at its own [image]	We request that maintaining 5% inventory of critical equipment may be considered sufficient for replacement purposes.	Kindly refer to the revised DTCN.
122	51	10. Price Revision	For supply of materials for the change request or implementation of Surveillance System at new mines during the period of contract, the price quoted shall be firm for 2 years from the date of agreement and the Service provider shall provide materials at this rate. However, for the period beyond 2 years, the price shall be mutually finalized.	We request you to kindly remove this clause. Due to significant fluctuations in the dollar exchange rate and copper prices, OEMs are not providing price validity beyond 30 days. Therefore, it will not be feasible for bidders to maintain firm pricing for a period of two years.	Tender conditions shall prevail.

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123	12	6. Scope of Services	The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.	The RFP clause states that separate Command Control Centers will be implemented for each Mine, ROS, and the Head Office. Please confirm if this is aligned with your requirement. If a centralized setup is preferred instead, kindly provide details of the current network connectivity between the Mines, ROS, and the Head Office.	All CCC are already in place at respective locations.
124	44	4.2. Supply of Equipment	Tentative Supply Items (Part of Price Bid) 6. Supply, installation testing & Commissioning of 32 TB HDD as per the specifications provided in Annexure 16 Qty 5nos	32TB HDDs are currently not available in the surveillance-grade segment. Hence, we request to change the configuration.	Bidder shall propose storage architecture based on NVR capacity. However, minimum HDD size shall not be less than 10TB and shall be compatible with the offered NVR. Total storage shall meet required retention period.
125	47	4.4. Operation and Comprehensive Maintenance Support	Agency should maintain minimum 10% inventory of critical equipment (Cameras, NVR and PoE Switch) for any replacement requirements at different locations at its own cost	Kindly change the min. percentages to 5%	Kindly refer to the revised DTCN.
126	50	8.2. Supply and Installation	Milestone 1 Supply of the equipment Payment 50% of the total basic price with GST in full Payment terms Payment for supply of equipment shall be released on the receipt and acceptance of the material from the concerned authority at respective site. Milestone 2 Successful Installation and commission of the equipment Payment 40% of the total basic price Payment terms Payment shall be released after completion of installation and commissioning as well as issue of performance certificate from the concerned authority at respective site Milestone 3 Completion of Warranty period Payment 10% of the basic price Payment Terms Payment shall be released after completion of warranty period or against submission of equivalent amount of PBG. BG to be valid till the completion of warranty period	In view of the project scale and staged implementation, we request reconsideration of the present payment milestones. It would be commercially more viable to allow billing on a pro rata basis corresponding to actual supply and completion status.	Tender conditions shall prevail.
127	51	10. Price Revision	For supply of materials for the change request or implementation of Surveillance System at new mines during the period of contract, the price quoted shall be firm for 2 years from the date of agreement and the Service provider shall provide materials at this rate. However, for the period beyond 2 years, the price shall be mutually finalized.	Request the remove this clause	Tender conditions shall prevail.
128	88	Annexure 16: Specifications, 3.	PTZ Camera (4 MP, IP)	2TB Storage will store more data in Off line condition so we request you please kindly accept our suggestion and ammend it.	No Change
129	12	6. Scope of Services	6. Scope of Services 6.1. Odisha Mining Corporation Ltd. (OMC) intends to deploy a robust, scalable, and secure IP-based CCTV surveillance ecosystem across its mining sites, Regional Offices (ROs), and Head Office (HO, Bhubaneswar). The program strengthens site security, improves operational monitoring, and drives safety compliance through real-time, centralized video oversight and AI-enabled analytics. The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.	From the Scope of Services, we understand that the bidder is required to provide NVRs at each Mine, Regional Office (RO), and Head Office (HO, Bhubaneswar), with independent Video Management Software at each respective location. No centralized monitoring of all locations cameras is required under the current scope. Kindly confirm if our understanding is correct.	There are cameras already installed and those are being monitored from existing CCC as well as from HO CCC. The proposed cameras as part of this project are additional cameras. All the cameras (existing & New) are to be monitored from HO.

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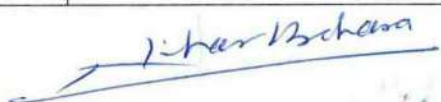




SI. No.	Page No.	Clause No.	Clause Description		Clarification Sought	Reply
130	42	4. Scope of Work	4. Scope of Work		The RFP Scope of Work and the provided BOQ do not provide sufficient clarity regarding the overall system architecture. We request you to kindly provide the detailed system architecture diagram to ensure accurate understanding, system design, and appropriate hardware sizing.	There are cameras already installed and those are being monitored from existing CCC as well as from HO CCC. The proposed cameras as part of this project are additional cameras. All the cameras (existing & New) are to be monitored from HO. Please go through the DTCN.
131	46	4.2. Supply of Equipment	Tentative Supply Items (Part of Price Bid) 32 Supply, installation testing & Commissioning of VMS Application for all locations as per the specifications provided in Annexure 16 - 1 Lumpsum		From the BOQ, we understand that the VMS application is to be supplied separately for each location, and the recording of camera feeds shall be carried out locally at the respective location's NVR. Kindly confirm the same.	The VMS application is to be supplied separately at 15 locations, and the recording of camera feeds shall be carried out locally at the respective location's NVR.
132	103	30. AI Analytics Server	30. AI Analytics Server Specification 32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443		Clarification whether the processor to be supplied by the bidder should have a total of 32 cores (2 Nos x 16 Core processor) or 2 Nos. x 32-core processors (total 64 cores).	Enterprise Rack Server (1U/2U) with minimum 32 cores CPU in single or dual CPU configuration using latest Intel Xeon 5th Gen or AMD EPYC processors, base frequency 2.3 GHz or higher, 128 GB DDR5 RAM, 1 TB SAS HDD and 480 GB Enterprise SSD both configured in RAID-1 or higher through hardware RAID controller, minimum 2 x NVIDIA L4 GPU cards, minimum 2 x 10GbE BaseT network ports, support for PCIe Gen4/Gen5 GPU expansion, minimum 8 SFF drive bays, redundant hot-plug power supplies, enterprise remote management with perpetual license, TPM 2.0 security module, EAL2 or higher cybersecurity certification, security bezel with lock, high-performance cooling fans, Linux Ubuntu 22.0 LTS or higher, and its should also include Enterprise Hardware RAID controller with minimum 2GB cache with cache protection (battery/flash backup) supporting RAID 0,1,5,6,10. Server shall provide minimum 1 x dedicated 1Gbps out-of-band system management port, 1 x video port (VGA/Display), and minimum 4 x USB ports. The server should have 3 years OEM onsite warranty.
133	103	31. AI Analytics Software	31. AI Analytics Software 19 The System should be able the Following Personal Protective Equipment's: a. Safety Helmet/Hard Hats b. Safety Jacket/High Visibility Reflective Jacket. c. other work related PPEs (Gloves, eye protected glass, etc) in the defined area(s)/camera(s).		As glove detection and eye protection glass detection require a highly precise field of view, which is generally not achievable through standard surveillance cameras. Therefore, we request you to kindly amend the clause as follows: "19. The System should be able the Following Personal Protective Equipment's: a. Safety Helmet/Hard Hats b. Safety Jacket/High Visibility Reflective Jacket. in the defined area(s)/camera(s)."	Glove & eye protection to be removed.
134	106	31. AI Analytics Software	31. AI Analytics Software 41. The system shall allow classification of different objects like Vehicles and people/Person.		Kindly specify the number of cameras on which Object Classification (Person / Vehicle) analytics is required.	Approximately 20% of Cameras.
135	110	Annexure 17	Document Submitted as a part of Bid Declaration by OEM as per Annexure 18		The OEM declaration is requested as per Annexure 18; however, Annexure 18 is not available in the RFP document. We request you to kindly share Annexure 18 for reference.	Kindly refer to the revised DTCN.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
136	108	32. VMS Application	Additional Clause Request Central Video Management Software Technical & Functional Specifications	We request you to kindly add the following clause for the Central Video Management Software for better cyber secure product: "The Proposed Central Video Management Software (VMS) and Video Analytics Application should have undergone Audit as per OWASP Top 10 Security Risks from STQC. A Security Test Report/Certificate from STQC to be Submitted as a Documentary Evidence/Proof."	The tender conditions shall prevail.
137	108	32. VMS Application	Additional Clause Request Central Video Management Software Technical & Functional Specifications	We request you to kindly add the following clause for the Central Video Management Software for quality OEM Participation: "The Central VMS and Video Analytics OEM should have Performed Benchmark Appraisal & Achieved CMMI V2.0 Maturity Level - 3. Appraisal Certificate of CMMI V2.0 Level - 3 to be Submitted as a Proof. The OEM should be in the Possession of the Appraisal Certificate on or before the Bid Publishing Date. The Appraisal shall be Validated Online & should be Available on Public Portal on CMMI Institutes Website in the Published Appraisal Results (https://cmmiinstitute.com/learning/appraisals/results). Any False Declarations shall lead to Bid Rejection & Blacklisting. "	The tender conditions shall prevail.
138	108	32. VMS Application	Additional Clause Request Central Video Management Software Technical & Functional Specifications	We request you to kindly add the following clause for the Central Video Management Software for better cyber secure product: "The proposed Central Video Management Software and Video Analytics Software shall be FIPS 140-2 and FIPS 140-3 compliant. The bidder shall submit a valid FIPS compliance test certificate issued by a CERT-In empanelled auditor as proof of compliance."	The tender conditions shall prevail.
139	46	4.3. Installation & Configuration	4.3. Installation & Configuration Implement AI-based software with integration for: <ul style="list-style-type: none"> o PPE Kit Violation Detection o Unauthorized Access Detection to restricted areas o Smoke & Fire Detection 	From this clause we understand that the "Unauthorized Access Detection to restricted areas " is refer to the intrusion detection functionality of the Video Analytics application. Kindly confirm if our understanding is correct.	Few areas shall be restricted for two-wheelers, or heavy vehicles etc. as required inside the mines. The AI enabled VMS should be capable to raise alarms in case any deviation.
140	91	8	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
141	91	8	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".
142	91	8	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Please change this as "Require prevention of DoS attacks".	Require prevention of DoS attacks.
143	91	8	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Please change this as "Able to manage through Web-GUI, Compact CLI and Telnet/ssh". SSh is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
144	92	8	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
145	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; 16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x Combo (SFP/RJ-45) 1G Ports	Request to please change as '16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x1G SFP ports(populated with RJ45 modules as per needs).	16 x RJ-45 PoE Gigabit Ethernet Ports and minimum 4 x 1G uplink ports supporting SFP / RJ-45 connectivity (combo or equivalent).
146	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Support Jumbo Frame up to 10K Bytes or higher.	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply	
147	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN	
148	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Able to manage through Web-GUI, Compact CLI and Telnet.	Please change this as "Able to manage through Web-GUI, Compact CLI and Telnet/ssh". SSH is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".	
149	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch -16 Port; Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN	
150	93	Annexure 16: Specifications, 10.	Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection; MAC Address Table: 16K and 1.5 Mbits Packet Buffer.	Please change this as "MAC Address Table: 8K and 4MB Packet Buffer".	"MAC Address Table: 8K or higher and 1.5MB Packet Buffer or higher".	
151	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 4 x 1GE Uplink port.	Please change this as "Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 2 x 1GE Uplink port" for wider OEM participations.	"Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and minimum 2 x 1GE Uplink port".	
152	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock	Please change this as "Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP".	Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP.	
153	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Switch should have Dual redundant DC power	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN	
154	103	30	32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly revise as: Total 32 Core in Single or Dual CPU configuration, Intel Xeon Or AMD EPYC, minimum 5th Gen CPU, 2.3GHz or better, 128 GB RAM, 1 TB SAS HDD & 480 GB SSD -both in RAID1 or higher, 2 x NVIDIA L4 GPU cards, EAL2 or higher cyber security certification, Security bezel with lock, perpetual system management licenses, 2 x 10G BaseT, Linux UBUNTU 20 or better with 3 years warranty	Server spec is non-configurable 'though very short as published here and missing key parameters", Kindly revise in complete for configurable options such as: Minimum 5th Gen CPU from Intel or AMD, minimum RAM to support asked GPU cards, HDD/SSD capacity as per industry availability, cyber-security compliances, minimum network ports etc.	Kindly refer to the revised DTCN.





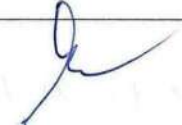

Sl. No.	Page No.	Clause No.	Clause Description		Clarification Sought	Reply
155	103	30	Request for addition	Kindly append the following to the AI server spec: "RAID controller, Minimum 4GB or higher non-volatile cache supporting RAID 1, 5, 6, 10"	RAID controller specification missing.	Kindly refer to the revised DTCN.
156	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch		Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
157	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Support Jumbo Frame up to 10K Bytes or higher.		Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".
158	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Require prevention of DoS attacks, which include Land, Blat,		Please change this as "Require prevention of DoS attacks".	Require prevention of DoS attacks.
159	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Able to manage through Web-GUI, Compact CLI and Telnet.		Please change this as "Able to manage through Web-GUI, Compact CLI and Telnet/ssh". SSH is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
160	92	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch		Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
161	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; 16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x Combo (SFP/RJ-45) 1G Ports		Request to please change as '16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x 1G SFP ports(populated with RJ45 modules as per needs).	16 x RJ-45 PoE Gigabit Ethernet Ports and minimum 4 x 1G uplink ports supporting SFP / RJ-45 connectivity (combo or equivalent).
162	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Support Jumbo Frame up to 10K Bytes or higher.		Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".
163	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch		Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN
164	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Able to manage through Web-GUI, Compact CLI and Telnet.		Please change this as "Able to manage through Web-GUI, Compact CLI and Telnet/ssh". SSH is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
165	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch -16 Port; Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch		Request to please remove RPS. 16 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
166	93	Annexure 16: Specifications, 10.	Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection; Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 4 x 1GE Uplink port; MAC Address Table: 16K and 1.5 Mbits Packet Buffer.		Please change this as "MAC Address Table: 8K and 4MB Packet Buffer".	"MAC Address Table: 8K or higher and 1.5MB Packet Buffer or higher".
167	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 4 x 1GE Uplink port.		Please change this as "Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 2 x 1GE Uplink port" for wider OEM participations.	The tender conditions shall prevail.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply	
168	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock	Please change this as "Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP".	Or NTP/SNTP".	
169	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Switch should have Dual redundant DC power supply inputs 12 to 55 VDC with reverse polarity protection. Dual redundant power supply from Day 1	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN	
170	103	30	32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly revise as: Total 32 Core in Single or Dual CPU configuration, Intel Xeon Or AMD EPYC, minimum 5th Gen CPU, 2.3GHz or better, 128 GB RAM, 1 TB SAS HDD & 480 GB SSD -both in RAID1 or higher, 2 x NVIDIA L4 GPU cards, EAL2 or higher cyber security certification, Security bezel with lock, perpetual system management licenses, 2 x 10G BaseT, Linux UBUNTU 20 or better with 3 years warranty	Server spec is non-configurable 'though very short as published here and missing key parameters", Kindly revise in complete for configurable options such as: Minimum 5th Gen CPU from Intel or AMD, minimum RAM to support asked GPU cards, HDD/SSD capacity as per industry availability, cyber-security compliances, minimum network ports etc.	Kindly refer to the revised DTCN.
171	103	30	33 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "RAID controller, Minimum 4GB or higher non-volatile cache supporting RAID 1, 5, 6, 10"	RAID controller specification missing.	Kindly refer to the revised DTCN.
172	103	30	34 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "1 x 1Gbps system management port (RJ-45), 1 x video port, 4 x USB 3.0 ports"	important ports and interfaces specification are missing.	Kindly refer to the revised DTCN.

Sl. No.	Page No.	Clause No.	Clause Description		Clarification Sought	Reply
173	103	30	35 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card- 2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "Memory RAS features such as Fast fault tolerance or equivalent"	Memory RAS specification missing.	Kindly refer to the revised DTCN.
174	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)		It is observed that the BOQ does not include the quantities for VMS Servers. We kindly request you to amend the BOQ and incorporate the required VMS server quantities.	AI Analytics Server at Sl. 30.
175	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)		During our review of the BOQ, we noted that the quantities for Monitoring Workstations have not been indicated. We kindly request you to revise the BOQ accordingly and specify the required workstation quantities for each location.	Existing systems shall be used for monitoring.
176	45	4.1.2. Site Survey & Design Plan	4.1.2. Site Survey & Design Plan The Selected Vendor Shall Design integration plans with existing Command & Control Centers at Mines, ROs, and HO.		As per the referred clause, we understand that "existing Command and Control Center" means only the physical command and control room infrastructure and not any existing application software. Please Confirm	There are cameras already installed and those are being monitored from existing CCC. The cameras as part of this project are additional cameras.
177	42	4. Scope of Work	4. Scope of Work		It is observed that the Scope of Work outlined in the RFP along with the provided BOQ does not clearly define the overall system architecture. In order to ensure accurate understanding of the project requirements, appropriate system design, and correct hardware sizing, we kindly request you to provide the detailed system architecture diagram for reference.	There are cameras already installed and those are being monitored from existing CCC. The cameras as part of this project are additional cameras. Details already mentioned in DTCN.
178	50	8.2. Supply and Installation	Milestone 1 Supply of the equipment Payment 50% of the total basic price with GST in full Payment terms Payment for supply of equipment shall be released on the receipt and acceptance of the material from the concerned authority at respective site. Milestone 2 Successful Installation and commissioning of the equipment Payment 40% of the total basic price Payment terms Payment shall be released after completion of installation and commissioning as well as issue of performance certificate from the concerned authority at respective site Milestone 3 Completion of Warranty period Payment 10% of the basic price Payment Terms Payment shall be released after completion of warranty period or against submission of equivalent amount of PBG. BG to be valid till the completion of warranty period		We respectfully request that the payment terms be revised to allow stage-wise release of payment linked to defined project milestones. It is requested that the first stage payment, equivalent to 80% of the total basic contract price along with applicable GST, be released against supply of equipment, upon receipt, inspection, and acceptance of materials by the concerned authority at the respective site. Further, it is requested that the second stage payment, equivalent to 15% of the total basic contract price, be released on a pro-rata basis upon successful installation and commissioning at each individual mine, subject to issuance of Performance Certificate by the concerned authority at the respective site. Lastly, it is requested that the balance payment, equivalent to 5% of the total basic contract price, be released upon completion of the warranty period or against submission of a Performance Bank Guarantee (PBG) of equivalent amount, valid till completion of the warranty period.	Tender conditions shall prevail.
179	12	6. Scope of Services	The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.		We understand that the Command and Control Center will be separate for each Mine, ROS, and Head Office (HO). Kindly confirm if our understanding is correct. If a centralized Command and Control Center is required, we request you to please share the details of the existing network connectivity between each Mine, ROS, and the Head Office.	CCC are already in place for respective locations including HO.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
180	44	4.2. Supply of Equipment	Tentative Supply Items (Part of Price Bid) 6. Supply, installation testing & Commissioning of 32 TB HDD as per the specifications provided in Annexure 16 Qty 5nos	It is submitted that 32TB HDD is not available in the market under the surveillance HDD category. Accordingly, we request you to kindly revise the specification to 16TB surveillance HDD with quantity of 10 Nos.	Bidder shall propose storage architecture based on NVR capacity. However, minimum HDD size shall not be less than 10TB and shall be compatible with the offered NVR. Total storage shall meet required retention period.
181	47	4.4. Operation and Comprehensive Maintenance Support	Agency should maintain minimum 10% inventory of critical equipment (Cameras, NVR and PoE Switch) for any replacement requirements at different locations at its own cost	We request that maintaining 5% inventory of critical equipment may be considered sufficient for replacement purposes.	Kindly refer to the revised DTCN.
182	51	10. Price Revision	For supply of materials for the change request or implementation of Surveillance System at new mines during the period of contract, the price quoted shall be firm for 2 years from the date of agreement and the Service provider shall provide materials at this rate. However, for the period beyond 2 years, the price shall be mutually finalized.	We request you to kindly remove this clause. Due to significant fluctuations in the dollar exchange rate and copper prices, OEMs are not providing price validity beyond 30 days. Therefore, it will not be feasible for bidders to maintain firm pricing for a period of two years.	Tender conditions shall prevail.
183	12	6. Scope of Services	The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.	Our understanding is that the Command control center will be separate for each mine, Ros and the HO. Please confirm. If it require centralized then request you to share us existing network connectivity between each mine to Ros and the HO.	CCC are already in place for respective locations including HO.
184	44	4.2. Supply of Equipment	Tentative Supply Items (Part of Price Bid) 6. Supply, installation testing & Commissioning of 32 TB HDD as per the specifications provided in Annexure 16 Qty 5nos	In industry 32TB HDD is not available as surveillance HDD. So request you to change it to 16TB HDD Qty 10nos.	Kindly refer to the revised DTCN.
185	47	4.4. Operation and Comprehensive Maintenance Support	Agency should maintain minimum 10% inventory of critical equipment (Cameras, NVR and PoE Switch) for any replacement requirements at different locations at its own cost	Request you to change the inventory of critical equipment to 2%. For camera, NVR & POE Switch.	Kindly refer to the revised DTCN.
186	50	8.2. Supply and Installation	Milestone 1 Supply of the equipment Payment 50% of the total basic price with GST in full Payment terms Payment for supply of equipment shall be released on the receipt and acceptance of the material from the concerned authority at respective site. Milestone 2 Successful Installation and commission of the equipment Payment 40% of the total basic price Payment terms Payment shall be released after completion of installation and commissioning as well as issue of performance certificate from the concerned authority at respective site Milestone 3 Completion of Warranty period Payment 10% of the basic price Payment Terms Payment shall be released after completion of warranty period or against submission of equivalent amount of PBG. BG to be valid till the completion of warranty period	Milestone 1 Supply of the equipment Payment 70% of the total basic price with GST in full Payment terms Payment for supply of equipment shall be released on the receipt and acceptance of the material from the concerned authority at respective site. Milestone 2 Successful Installation and commission of the equipment Payment 25% of the total basic price on Pro rata basis as per completions of each mines Payment terms Payment shall be released after completion of installation and commissioning as well as issue of performance certificate from the concerned authority at respective site Milestone 3 Completion of Warranty period Payment 5% of the basic price Payment Terms Payment shall be released after completion of warranty period or against submission of equivalent amount of PBG. BG to be valid till the completion of warranty period	Tender conditions shall prevail.
187	51	10. Price Revision	For supply of materials for the change request or implementation of Surveillance System at new mines during the period of contract, the price quoted shall be firm for 2 years from the date of agreement and the Service provider shall provide materials at this rate. However, for the period beyond 2 years, the price shall be mutually finalized.	Request you to removed this clause.No OEM will give the price validity beyond 60 days for their products. So bidder will not able to firm the price for 2 years.	The tender conditions shall prevail.
188	87	Bullet Camera (5 MP)	SD Card Supported: Up to 512GB	SD Card Supported: 2TB or Better 2TB Storage will store more data in Off line condition so we request you please kindly accept our suggestion and ammend it.	The tender conditions shall prevail.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
189	88	Dome Camera (5 MP)	SD Card Supported: Up to 512GB	SD Card Supported: 2TB or Better 2TB Storage will store more data in Off line condition so we request you please kindly accept our suggestion and ammend it.	SD Card Supported: Up to 512GB or better.
190	88	PTZ Camera (4 MP, IP)	Access protocol: ONVIF Profile S, G, T (OEM Should be member)	request you to add M profile. in all Camera remaining Cameras you have already asked M profile so we request you please accept our suggestion and ammend it.	The tender conditions shall prevail.
191			General	CCTV OEM should have direct Presence & Manufacturing in India from last 15 years. (not as joint venture, partnership firms or through any association) and R&D unit registered with Department of Scientific and Industrial Research (DSIR) in India. OEM should submit Manufacturing and DSIR certificates.	The tender conditions shall prevail.
192	88	Annexure 16: Specifications, 3.	PTZ Camera (4 MP, IP)	Request to Add- 2TB Storage will store more data in Off line condition so we request you please kindly accept our suggestion and ammend it.	SD Card Supported: Up to 512GB or better. To be changed in Dome/Bullet
193	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid) 30. Supply, installation testing & Commissioning of AI Analytics Server as per the specifications provided in Annexure 16 - 15 Nos	As per the tentative supply item list, the quantity of Video Analytics servers is specified as 15 Nos. However, the location-wise bifurcation of these servers is not provided in the BOQ. We request you to kindly provide the location-wise distribution of the Video Analytics servers for accurate system design and sizing.	Kindly refer to the revised DTCN.
194	46	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid) 31 Supply, installation testing & Commissioning of AI Analytics Software as per the specifications provided in Annexure 16 - 1 Nos.	As per the tentative supply item list, the quantity of Video Analytics Software is specified as 1 No. However, use case-wise quantities for the Video Analytics application are not specified in the BoQ. We request you to kindly provide the location-wise / site-wise requirement for each Video Analytics use case. For example: *Daitari Mine Location: PPE Detection – 20 Nos., Fire & Smoke Detection – 5 Nos. *Khandadhar Mine Location: PPE Detection – 10 Nos., Fire & Smoke Detection – 8 Nos. Your clarification on this point will help all bidders to design the system accurately and align the hardware requirements as per the actual project needs.	Kindly refer to the revised DTCN.
195	46	4.2. Supply of Equipment	Tentative Supply Items (Part of Price Bid) 32 Supply, installation testing & Commissioning of VMS Application for all locations as per the specifications provided in Annexure 16 - 1 Lumpsum	From the BOQ, we understand that the VMS application is to be supplied separately for each location, and the recording of camera feeds shall be carried out locally at the respective location's NVR. Kindly confirm if our understanding is correct.	Kindly refer to the revised DTCN.
196	103	30. AI Analytics Server	30. AI Analytics Server Specification 32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443	We request you to kindly clarify whether the processor to be supplied by the bidder should have a total of 32 cores (2 Nos x 16 Core processor) or 2 Nos. x 32-core processors (total 64 cores).	Kindly refer to the revised DTCN.
197	103	31. AI Analytics Software	31. AI Analytics Software 19 The System should be able the Following Personal Protective Equipment's: a. Safety Helmet/Hard Hats b. Safety Jacket/High Visibility Reflective Jacket. c. other work related PPEs (Gloves, eye protected glass, etc) in the defined area(s)/camera(s).	As glove detection and eye protection glass detection require a highly precise field of view, which is generally not achievable through standard surveillance cameras. Therefore, we request you to kindly amend the clause as follows: "19. The System should be able the Following Personal Protective Equipment's: a. Safety Helmet/Hard Hats b. Safety Jacket/High Visibility Reflective Jacket. in the defined area(s)/camera(s)."	Kindly refer to the revised DTCN.
198	106	31. AI Analytics Software	31. AI Analytics Software 41. The system shall allow classification of different objects like Vehicles and people/Person.	Kindly specify the number of cameras on which Object Classification (Person / Vehicle) analytics is required.	Approximately 20% of cameras.
199	110	Annexure 17	Document Submitted as a part of Bid Declaration by OEM as per Annexure 18	The OEM declaration is requested as per Annexure 18; however, Annexure 18 is not available in the RFP document. We request you to kindly share Annexure 18 for reference.	Kindly refer to the revised DTCN.

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200	46	4.3. Installation & Configuration	4.3. Installation & Configuration Implement AI-based software with integration for: o PPE Kit Violation Detection o Unauthorized Access Detection to restricted areas o Smoke & Fire Detection	From this clause we understand that the "Unauthorized Access Detection to restricted areas " is refer to the intrusion detection functionality of the Video Analytics application. Kindly confirm if our understanding is correct.	Kindly refer to the revised DTCN.
201	103	31. AI Analytics Software	31. AI Analytics Software AI Based Crowd detection AI based Intrusion Detection AI Based Fire & Smoke Detection AI Based Personal Protective Equipment's Detection	We request you to kindly provide the location wise use case quantities for each use case. For Example: *Daitari Mine Location: Crowd Detcetion- 5 Nos., PPE Detection – 20 Nos., Fire & Smoke Detection – 5 Nos. *Khandadhar Mine Location: Crowd Detcetion- 5 Nos., PPE Detection – 10 Nos., Fire & Smoke Detection – 8 Nos.	All use cases are applicable for each mines however camera points shall be decided later.
202	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	The Server quantities for the Video Management Software is missing in the BOQ. Therefore we request you to kindly add the VMS Server quantities in the BOQ.	Kindly refer to the revised DTCN.
203	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	As we reviewed the BOQ and found that the Monitoring Workstation quantities are missing in the BOQ. Therefore we request you to kindly amend the BOQ and add the workstation quantities for each location.	Existing systems shall be used for monitoring.
204	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
205	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Support Jumbo Frame up to 10K Bytes or higher.	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".
206	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Require prevention of DoS attacks, which include Land, Blat,	Please change this as "Require prevention of DoS attacks".	Require prevention of DoS attacks.
207	91	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Able to manage trough Web-GUI, Compact CLI and Telnet.	Please change this as "Able to manage trough Web-GUI, Compact CLI and Telnet/ssh". SSH is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
208	92	Annexure 16: Specifications, 8.	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports; Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
209	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; 16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x Combo (SFP/RJ-45) 1G Ports	Request to please change as '16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x1G SFP ports(populated with RJ45 modules as per needs).	16 x RJ-45 PoE Gigabit Ethernet Ports and minimum 4 x 1G uplink ports supporting SFP / RJ-45 connectivity (combo or equivalent).
210	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Support Jumbo Frame up to 10K Bytes or higher.	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard anad available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".
211	92	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN
212	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch - 16 Port; Able to manage trough Web-GUI, Compact CLI and Telnet.	Please change this as "Able to manage trough Web-GUI, Compact CLI and Telnet/ssh". SSH is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
213	93	Annexure 16: Specifications, 9.	Layer 2 PoE Manageable Gigabit Switch -16 Port; Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
214	93	Annexure 16: Specifications, 10.	Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection; MAC Address Table: 16K and 1.5 Mbits Packet Buffer.	Please change this as "MAC Address Table: 8K and 4MB Packet Buffer".	"MAC Address Table: 8K or higher and 1.5MB Packet Buffer or higher".

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215	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 4 x 1GE Uplink port.		Please change this as "Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 2 x 1GE Uplink port" for wider OEM participations.	"Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and minimum 2 x 1GE Uplink port".
216	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock		Please change this as "Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP".	Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP.
217	94	Annexure 16: Specifications, 11.	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port; Switch should have Dual redundant DC power supply inputs 12 to 55 VDC with reverse polarity protection. Dual redundant power supply from Day 1		Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN
218	103	Annexure 16: Specifications, 30.	32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly revise as: Total 32 Core in Single or Dual CPU configuration, Intel Xeon Or AMD EPYC, minimum 5th Gen CPU, 2.3GHz or better, 128 GB RAM, 1 TB SAS HDD & 480 GB SSD - both in RAID1 or higher, 2 x NVIDIA L4 GPU cards, EAL2 or higher cyber security certification, Security bezel with lock, perpetual system management licenses, 2 x 10G BaseT, Linux UBUNTU 20 or better with 3 years warranty	Server spec is non-configurable 'though very short as published here and missing key parameters", Kindly revise in complete for configurable options such as: Minimum 5th Gen CPU from Intel or AMD, minimum RAM to support asked GPU cards, HDD/SSD capacity as per industry availability, cyber-security compliances, minimum network ports etc.	Enterprise Rack Server (1U/2U) with minimum 32 cores CPU in single or dual CPU configuration using latest Intel Xeon 5th Gen or AMD EPYC processors, base frequency 2.3 GHz or higher, 128 GB DDR5 RAM, 1 TB SAS HDD and 480 GB Enterprise SSD both configured in RAID-1 or higher through hardware RAID controller, minimum 2 x NVIDIA L4 GPU cards, minimum 2 x 10GbE BaseT network ports, support for PCIe Gen4/Gen5 GPU expansion, minimum 8 SFF drive bays, redundant hot-plug power supplies, enterprise remote management with perpetual license, TPM 2.0 security module, EAL2 or higher cybersecurity certification, security bezel with lock, high-performance cooling fans, Linux Ubuntu 22.0 LTS or higher, and its should also include Enterprise Hardware RAID controller with minimum 2GB cache with cache protection (battery/flash backup) supporting RAID 0,1,5,6,10. Server shall provide minimum 1 x dedicated 1Gbps out-of-band system management port, 1 x video port (VGA/Display), and minimum 4 x USB ports. The server should have 3 years OEM onsite warranty.
219	103	Annexure 16: Specifications, 30.	33 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "RAID controller, Minimum 4GB or higher non-volatile cache supporting RAID 1, 5, 6, 10"	RAID controller specification missing.	Kindly refer to the revised DTCN.

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220	103	Annexure 16: Specifications, 30.	34 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "1 x 1Gbps system management port (RJ-45), 1 x video port, 4 x USB 3.0 ports"	important ports and interfaces specification are missing.	Kindly refer to the revised DTCN.
221	103	Annexure 16: Specifications, 30.	35 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly append the following to the AI server spec: "Memory RAS features such as Fast fault tolerance or equivalent"	Memory RAS specification missing.	Kindly refer to the revised DTCN.
222	87	Annexure 16: Specifications	Bullet Camera (5 MP) SD Card Supported: Up to 512GB	SD Card Supported: 2TB or Better	Upto 512 GB or better.	
223	87	Annexure 16: Specifications	Dome Camera (5 MP) SD Card Supported: Up to 512GB	SD Card Supported: 2TB or Better	Upto 512 GB or better.	
224	87	Annexure 16: Specifications	PTZ Camera (4 MP, IP) SD Card Supported: Up to 512GB	SD Card Supported: 2TB or Better	Upto 512 GB or better.	
225	87	Annexure 16: Specifications	PTZ Camera (4 MP, IP) Access protocol: ONVIF Profile S, G, T (OEM Should be member)	request you to add M profile also.	The tender conditions shall prevail.	
226			General	CCTV OEM should have direct Presence & Manufacturing in India from last 15 years. (not as joint venture, partnership firms or through any association) and R&D unit registered with Department of Scientific and Industrial Research (DSIR) in India. OEM should submit Manufacturing and DSIR certificates.	The tender conditions shall prevail.	
227	106	4	The Offered Central VMS Software should be ONVIF S, G, T & M Profile Compliant & should be a Full ONVIF Member. Central VMS OEM to Submit a Valid Certificate to Substantiate the Proof.	There are five types of memberships packages are available with ONVIF. membership status has no impact on the functional performance or interoperability of the VMS solution. Complying with ONVIF S, G, T & M profiles and verification on ONVIF Official Website www.onvif.org in the Conformant Devices along with any Membership certificate can be suffice the purpose. Further, ONVIF has also confirmed that the level of membership does not affect the functionality or technical capabilities of a VMS solution (ONVIF email confirmation attached for reference). Kindly amend the clause to ensure maximum OEMs participation complying with ONVIF S, G, T & M Profile Compliant and available on ONVIF Official Website www.onvif.org . The Offered Central VMS Software should be ONVIF S, G, T & M Profile Compliant. Central VMS OEM to Submit a Valid Certificate to Substantiate the Proof.	ONVIF Member.	
228	46	31	Supply, installation testing & Commissioning of AI Analytics Software as per the specifications provided in Annexure 16	Please share the number of cameras and respective Video Analytics use cases site-wise so that we can calculate the server sizing accordingly.	Kindly refer to the revised DTCN.	
229			General	Request to Incorporate- Video Analytics OEM must have supplied the AI Application in at least three(3) mining projects in Odisha during the last five years. Documentary proof must be submitted.	The tender conditions shall prevail.	

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230			General	Request to Incorporate- Video Management Software (VMS) OEM must have supplied VMS licenses in Power or Mining projects in Odisha during the last two years.	The tender conditions shall prevail.
231			General	Request to Incorporate- VMS & Video Analytics OEM must possess CMMI Level 3 certification valid within the last two years from the date of bid submission	The tender conditions shall prevail.
232			General	Request to Incorporate- The OEM for Video Management Software and Video Analytics shall have a minimum of eight(8) academic collaborations as evidence of continuous innovation and excellence	The tender conditions shall prevail.
233			General	Request to Incorporate- The OEM for Video Management Software and Video Analytics shall have minimum of minimum (5) Patents in imaging AI technologies publically available	The tender conditions shall prevail.
234			General	Request to Incorporate-The Video Management Software & Video Analytics OEM must have R&D facility in India with minimum 200 Technical Experts (Excluding Admin,HR, Sales & Accounts) on direct payroll . Evidence of EPF to be submitted.	The tender conditions shall prevail.
235			General	Request to Incorporate- Multi-level maps: The system should support multi-level maps with hyperlinks for quick navigation between levels.	The tender conditions shall prevail.
236			General	Request to Incorporate- VMS should Support following languages: English, Hindi and Odia	The tender conditions shall prevail.
237			General	Request to Incorporate- The system should allow for multiple video view screens, up to 14, with independent control of video screen size and position on the monitors.	The tender conditions shall prevail.
238			General	Request to Incorporate- The system should be able to view up to 144 live videos and up to 64 playback videos in a single video screen.	The tender conditions shall prevail.
239	24	9.2	Pre-bid meeting	Kindly arrange to conduct the pre-bid meeting through Video Conference (VC) for wider participation and convenience.	Done.
240	87	Annexure 16: Specifications	Min. Illumination Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	We request you to kindly change the same to "Color - 0.01 Lux for wider participation. Different OEM manufacture cameras with different lens and sensor and therefore every model has different F value. We therefore request you to remove the F value.	Kindly refer to the revised DTCN.
		Bullet Camera (5 MP)			Tender conditions shall prevail.
241	87	Annexure 16: Specifications	Shutter Speed (1/5 sec ~ 1/100,000 sec Adjustable) or better	We request you to kindly change the same to "1/15s -1/100000s" for wider OEM participation.	Kindly refer to the revised DTCN.
		Bullet Camera (5 MP)			Tender conditions shall prevail.
242	87	Annexure 16: Specifications Bullet Camera (5 MP)	System Compatibility: ONVIF Profile S, G, M & T (OEM Should be member)	ONVIF Profile M is required for sending metadaat and event related data to VMS where edge based analytics is implemeted. As the requirement of video analytics in this project is server based only not within the camera therefore, we kindly request you to remove the ONVIF Profile M clause from the technical specifications. This will allow for wider OEM participation.	Kindly refer to the revised DTCN.
243	87	Annexure 16: Specifications Dome Camera (5 MP)	Min. Illumination Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	We request you to kindly change the same to "Color - 0.01 Lux for wider participation. Different OEM manufacture cameras with different lens and sensor and therefore every model has different F value. We therefore request you to remove the F value.	Kindly refer to the revised DTCN.

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244	87	Annexure 16: Specifications Dome Camera (5 MP)	Shutter Speed (1/5 sec ~ 1/100,000 sec Adjustable) or better	We request you to kindly change the same to "1/15s -1/100000s" for wider OEM participation.	Kindly refer to the revised DTCN.
245	87	Annexure 16: Specifications Dome Camera (5 MP)	System Compatibility: ONVIF Profile S, G, M & T (OEM Should be member)	ONVIF Profile M is required for sending metadaat and event related data to VMS where edge based analytics is implemeted. As the requirement of video analytics in this project is server based only not within the camera therefore, we kindly request you to remove the ONVIF Profile M clause from the technical specifications. This will allow for wider OEM participation.	The tender conditions shall prevail.
246	87	Annexure 16: Specifications Dome Camera (5 MP)	Max. User Access 20 Users	Different product has different specification. To make it generic we request you to kindly accept user access upto 10 only.	To be considered.
247	88	Annexure 16: Specifications PTZ Camera (4 MP IP)	Min. illumination Colour: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6, 0 Lux at IR ON or better	We request you to kindly change the same to "Color: 0.03 lux for wider OEM participation. Different OEM manufacture cameras with different lens and sensor and therefore every model has different F value. We therefore request you to remove the F value.	Kindly refer to the revised DTCN.
248	88	Annexure 16: Specifications PTZ Camera (4 MP IP)	Electronic Shutter 1/5 ~ 1/30,000s	We request you to kindly change the same to "1/15s -1/100000s" for wider OEM participation.	Kindly refer to the revised DTCN.
249	88	Annexure 16: Specifications PTZ Camera (4 MP IP)	Manual Control Speed Pan: 0.1° ~ 350°/s; Tilt: 0.1° ~ 350°/s	We request you to kindly accept Pan manual speed: 0.1° to 240°/s, pan preset speed: 240°/s for wider OEM participation. This speed ensures smooth camera movement and effective monitoring. The slightly lower maximum speed does not affect operational performance in practical deployment scenarios.	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.
250	90	Annexure 16: Specifications 32 TB HDD	Standard CCTV storage grade HDD/SSD	As per industry practice, most NVRs do not support such high-capacity storage due to firmware, controller, and file system limitations. Generally, NVRs support up to a maximum of 18TB. Therefore, instead of specifying individual HDD sizes, we request that the required storage capacity be defined NVR-wise, so that bidders can select the appropriate HDD size for each NVR accordingly.	Bidder shall propose storage architecture based on NVR capacity. However, minimum HDD size shall not be less than 10TB and shall be compatible with the offered NVR. Total storage shall meet required retention period.
251	90	Annexure 16: Specifications 8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port	Operating Temperature: -0° to 50° C	As per industry standards, commercial-grade network switches typically support a maximum operating temperature of around 50°C. However, in the industrial category, network switches are designed for harsher environments and generally support 65°C or higher operating temperatures. In view of this, we kindly request you to amend the operating temperature requirement in the specifications to reflect the industrial standard (≥65°C). This will ensure that the equipment selected is suitable for rugged site conditions and will also allow for wider OEM participation without compromising reliability.	The tender conditions shall prevail.
252	103	Annexure 16: Specifications Media Converter	Operating Temperature 0° C to 50° C	We understand the Media Converters to be also Industrial Grade having operating temp supports upto 65° C or higher.	The tender conditions shall prevail.

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253	46	Tentative Supply Items (Part of Price Bid)	Supply, installation testing & Commissioning of AI Analytics Software as per the specifications provided in Annexure 16	As per the technical specification, different types of video analytics are mentioned, such as AI-based Crowd Detection, AI-based Intrusion Detection, AI-based Fire & Smoke Detection, AI-based PPE Detection, and Object Classification (Vehicles, People/Person), etc. However, as per the BOQ, only 1 No. is mentioned against Video Analytics Software. Please note that OEMs provide separate licenses for each analytics feature, each with a different cost. Therefore, to avoid ambiguities, we kindly request the authority to specify the required type of analytics along with the quantity for better understanding.	AI based analytics solution is required for all use cases.
254	45	Tentative Supply Items (Part of Price Bid)	Supply, installation testing & Commissioning of AI Analytics Server as per the specifications provided in Annexure 16	As per the BOQ, 15nos AI Analytics Servers have been specified. As there are total 21 sites, so we kindly request you to share the server quantity location-wise and the required number of AI-Analytics licenses for better understanding by the bidder. Also confirm where these server to be mounted as no server Rack have been asked in BOQ. Only 4U and 6U Rack have been asked for where server cannot be placed.	Tentative Location-wise server Details shared.
255	90	Annexure 16: Specifications: 128 Channel NVR	IP Camera Input 128 Channel	Different manufacturers design NVRs with varying IP camera input capacities. Please confirm whether, to meet the 128-channel requirement, an OEM may propose a combination such as 64Ch + 64Ch or 96Ch + 32Ch NVR.	NVR shall support minimum 128 IP camera inputs. Bidder may propose multiple NVRs to meet the requirement, provided that the system is centrally integrated and appears as a single logical system.
256	45	Tentative Supply Items (Part of Price Bid)	Supply, installation testing & Commissioning of I/O Box as per the specifications provided in Annexure 16	No detailed specification has been provided for this requirement. We kindly request you to share the intended use of the box along with its detailed specifications.	The tender conditions shall prevail.
257	13	7. Eligibility Criteria	Applicable 5 (five) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e. FY 2020-21, FY 2021-22, FY 2022-23, FY 2023-24 and FY 2024-25)	Kindly include FY 2025-26, as the financial year is nearing completion. We have executed similar projects during this period that should also be taken into consideration.	Kindly refer revised tender document
258	110	Annexure 17: Declaration by Agency for Fulfillment of Functional and Technical Specification	Declaration by OEM as per	Annexure 18 is not provided.	Kindly refer to the revised DTCN.
259	5	Datasheet - Tender Paper Fee (non-refundable) including GST	Rs. 11,800/- (Rupees Eleven Thousand Eight Hundred only) including GST@18% Payable online on the e-tender portal of Government of Odisha (www.tendersodisha.gov.in) N.B - Local Micro & Small Enterprises registered in Odisha for similar category of services, shall be exempted from payment of Tender Paper Fee. Bidders other than above category shall be required to submit Tender Paper Fee.	Request to consider MSME registered across the nation . This will encourage National level players to bid	Tender conditions shall prevail.
260	5	Datasheet - Earnest Money Deposit (EMD)	INR 6,50,000/- (Rupees Six Lakh fifty thousand only) Payable online on the e-tender portal of Government of Odisha (www.tendersodisha.gov.in) N.B -1 Local Micro & Small Enterprises registered in Odisha for similar category of services, shall be exempted from payment of EMD. Bidders other than above category shall be required to submit EMD. N.B.-2 The Bidder(s) who avail EMD exemption shall submit Annexure-14 duly sealed & signed.	Request to consider MSME registered across the nation . This will encourage National level players to bid	Tender conditions shall prevail.

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261	5	Datasheet - Amount of Performance Security	0% (Ten) of the Annual Contract value (excluding taxes) Amount shall be submitted in the shape of DD or Electronic Bank Guarantee in the format provided in Annexure 8 Note: Local Micro & Small Enterprises registered in Odisha for similar category of services shall pay 25% of the applicable Performance Security as per data sheet	Request to consider MSME registered across the nation . This will encourage National level players to bid	Tender conditions shall prevail.
262	13	Clause 7.1 - Eligibility Criteria > Technical Criteria	a. The Bidder must have successfully executed similar work during the last 05 (five) years, which shall be either of the following: i) Three similar completed Services of value not less than INR 1.3 Crore each (Excluding GST) OR ii) Two similar completed Services of value not less than INR 1.6 Crore each (Excluding GST) OR iii) Single similar completed Service of value not less than INR 2.6 Crore (Excluding GST)	Request to consider : i) Three similar completed Services of value not less than INR 1.0 Crore each (Excluding GST) OR ii) Two similar completed Services of value not less than INR 1.3 Crore each (Excluding GST) OR iii) Single similar completed Service of value not less than INR 2.6 Crore (Excluding GST)	Tender conditions shall prevail.
263	13	Eligibility Criteria > Technical Criteria	"Similar completed Services" shall mean Supply, installation of CCTV Surveillance System with/without AMC	Request to consider CCTV / Establishing Command and control centre/ELV Works and other allied works as experience	The tender conditions shall prevail.
264	15	8.6. Tender Paper Fee	The Bidders, who are exempted to deposit Tender Paper Fee due to any exemption granted by the Government of Odisha (registered in Odisha State only), are required to attach scanned copy of relevant documents duly self-attested evidencing such exemption granted, along with the Techno-Commercial Bid document while submitting online. For clarity, it is being clarified that the Bidders registered in Micro & Small Enterprises (MSE) in similar category of services in the State of Odisha are exempted from payment of Tender Fee. Bidders other than above category shall be required to Page 16 of 112submit Tender Paper Fee. The Bidder, who does not submit Tender Paper Fee claiming exemption and does not submit relevant document in support of exemption, are ineligible for bidding and such bids shall be summarily rejected.	Request to accept Nationwide MSME Registration	Tender conditions shall prevail.
265	40	Annexure-2 - Clause- 3 - Project Objective	To enhance operational security, safety compliance, and monitoring efficiency by deploying a robust, scalable CCTV infrastructure integrated with OMC's existing fiber-optic network. Key objectives are: To establish a centralized decision-making capability that strengthens coordination and response during incidents/emergencies at respective mines. □ To serve as a central information and communication hub, thereby improving safety. □ To provide a centralized monitoring and decision-support platform for the effective management of equipment, devices, resources, and assets.	It is presumed that OMC has an established Central Command and control with all required infrastructure. Like server , Video Wall & Other IT infra. Since BOQ does not reflect any of these.	Yes, OMC is already having CCC at respective locations.
266	87	Annexure-16 : 1. Bullet Camera (5 MP) / Min. Illumination	Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as " Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better ", To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.

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267	87	1. Bullet Camera (5 MP) / Streams	Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.
268	87	1. Bullet Camera (5 MP) / Compression	G.711U/A or better	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to amend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
269	87	1. Bullet Camera (5 MP) / Security Features	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	The tender conditions shall prevail.
270	87	2. Dome Camera (5 MP) / Min. Illumination	Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly amend this clause as " Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better ", To make it generic & allow max OEMS to participate here	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better.
271	87	2. Dome Camera (5 MP) / Streams	Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.
272	88	2. Dome Camera (5 MP) / Compression	G.711U/A	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to amend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.

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273	88	2. Dome Camera (5 MP) / System Compatibility	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSP, AES 256 encryption, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	The tender conditions shall prevail.
274	88	3. PTZ Camera (4 MP, IP) / Audio compression	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to amend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
275	88	3. PTZ Camera (4 MP, IP) / Manual Control Speed	Pan: 0.1° ~350° /s; Tilt: 0.1° ~350° /s	Too Much High speed of PAN & Tilt speed will increase the chance of motor's wear and tear, which means that the product is prone to breakage, Hence requesting you to amend this clause as "Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better" to make it more generic & allow maximum OEM to participate in this BID	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.
276	88	3. PTZ Camera (4 MP, IP) / IR distance	250M or better	As per asked optical zoom i.e. 30x, 150m IR range is enough cover at night so you are requested to revise this clause as " Min 150m IR Range or better " to make it more generic & allow maximum OEM to participate in this BID	Min 150m IR Range or better".
277	88	3. PTZ Camera (4 MP, IP) / Network protocol	IPv4/IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, ICMP, IGMP, SSL/TSL, IEEE802.1x, PPPoE, ICMP, SNMP, Unicast/ Multicast	UPnP is a networking protocol that automatically connects devices on the same network, but it also poses security risks , Hence request you to kindly remove clause to make it more generic & allow maximum OEM to participate in this BID	Kindly refer to the revised DTCN.
278	89	3. PTZ Camera (4 MP, IP) / Access protocol	ONVIF Profile S, G, T (OEM Should be member)	Different OEM's support different Onvif Profiles to meet requirements, Hence it is requested to amend this clause as " ONVIF Profile S/G/T " to make it more generic & allow maximum OEM to participate in this BID	ONVIF Profile S/G/T (OEM Should be member).
279	89	3. PTZ Camera (4 MP, IP) / Security Mode	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSPS, AES 256 encryption, Signed Firmware, Firmware encryption, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot, security logs; IP filtering	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	The tender conditions shall prevail.
280	89	3. PTZ Camera (4 MP, IP) / Protection Level	IP67 & IK10 Compliant, TVS 6,000V Lightning Protection, Surge Protection and Voltage Transient Protection	It's single OEM Specific specification, generally PTZ Cameras are connected to PoE switches or PoE Adapter, which should support surge protection, So kindly remove this clause or amend it as :- camera should support IP67 & IK10 protection. To make it generic & allow max OEMS to participate here Can include external protection devices under different BOQ line item	Camera should support IP67 & IK10.

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281	89	3. PTZ Camera (4 MP, IP) / Power supply	DC24V/1.5A (±10%), PoE+ (802.3at)	The power supply of PTZ varies depending upon the power source selection by OEM, hence request to revise it to " Power Supply - 12VDC/24VDC/24VAC/36VDC/48VDC/PoE/802.3 bt/802.3 at "To make it generic & allow max OEMS to participate here	Power Supply - 12-24VDC/PoE/802.3 bt/802.3 at.
282	89	4. 128 Channel NVR / Processor	Quad-core Embedded processor	By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Quad-core Embedded processor/industrial-grade embedded processor capable of handling the specified function without latency or frame loss.
283	89	4. 128 Channel NVR / Audio Format	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AA C/MP2L2/PCM.
284	89	4. 128 Channel NVR / Protocols	IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in propossed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard.Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	"IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P,".
285	90	5. 32 channel NVR / Processor	Quad-core Embedded processor or better	By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Kindly refer to the revised DTCN.
286	90	5. 32 channel NVR / Audio Format	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC" To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
287	90	5. 32 channel NVR / Protocols	IPv4,IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in propossed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard.Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P,.,
288	89	128 Channel NVR	Min. Capacity 10TB (Each HDD)	In BOQ we see 32TB HDD requiremnt is mentioned . Please clarify on the point	Kindly refer to the revised DTCN.
289	89	128 Channel NVR		Clarity on No of days recording is missing	As per maximum possible within the given specification HDD.
290	90	5. 32 channel NVR	Min. Capacity Minimum 10TB (Each HDD)	Clarity on No of days recording is missing	Maximum possible as per availability of disk space.
291	91	Annexure-16 - 8 8 Port Indoor PoE Switch	DDR3 128MB, Flash 32MB, Packet Buffer 4Mbits or better 100-240 V AC 50/60 Hz with Inbuilt RPS	Request to consider Falsh 16 MB Request to consider inbuilt AC Power Supply	Falsh 16 MB. Tender conditions shall prevail.

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		Indoor POE Switch	IEEE 802.1Q VLAN tagging; Port based, Auto Voice VLAN	Request to consider non automatic Voice Vlan	Tender conditions shall prevail.
292	92	Annexure-16 - 9 16 Port Indoor POE Switch	16 x RJ-45 PoE Gigabit Ethernet Ports + 4 x Combo (SFP/RJ-45) 1G Ports	Request to consider 2 x 10/100/1000Mbps Combo ports and 2 x 1000Mbps SFP uplink port available	Kindly refer to the revised DTCN.
			DDR3 128MB, Flash 32MB, Packet Buffer 4.1Mbits or better	Request to consider Falsh 16 MB	modified
			IEEE 802.1Q VLAN tagging; Port based, Auto Voice VLAN	Request to consider non automatic Voice Vlan	Kindly refer to the revised DTCN.
293	92	Annexure-16 - 10 24 Port Indoor POE Switch	1 x RS-232 Console Port (RJ-45); 2 relay outputs 1A @ 24VDC	Request not to consider relay output	Tender conditions shall prevail.
294	93	Annexure-16 - 11 8 Port Industrial POE Switch Layer 2	L2/L3 ACL; IEEE 1588v2 PTP HW-Based E2E Transparent clock	Reqeust to consider with out transperent lock	L2/L3 ACL and IEEE 1588v2 PTP (hardware-based, end-to-end).
295	93	Annexure-16 - 12 8 Port Industrial POE Switch Layer 2	06 ADSS OFC Cable/6C SM Fibre Cable	Request to consider 2200 N	The tender conditions shall prevail.
296	91	Annexure 16: Specifications Point 8. 8 Port Indoor POE Switch with Patch Panel Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	(iii) Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch Sr V Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch	We request consideration for single internal universal power supply configuration, as the proposed switch is designed for enterprise-grade access deployment	Refer revised DTCN.
297	92	Annexure 16: Specifications 9. 16 Port Indoor POE Switch with patch panel Layer 2 PoE Manageable Gigabit Switch - 16 Port	16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x Combo (SFP/RJ-45) 1G Ports.	We request consideration for 24-port PoE+ switch with 4 dedicated 1G SFP uplinks in place of 16 PoE + 4 combo ports, as the offered configuration provides additionally 8 port in model can fulfill the required	Higher specificaiton is auto accepted.
298	92	Annexure 16: Specifications 9. 16 Port Indoor POE Switch with patch panel Layer 2 PoE Manageable Gigabit Switch - 16 Port	Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch	We request consideration for the offered model with inbuilt universal power supply, as it meets the primary power requirement.	Kindly refer to Revised DTCN
299	92	Annexure 16: Specifications 9. 16 Port Indoor POE Switch with patch panel Layer 2 PoE Manageable Gigabit Switch - 16 Port	IPv4 / IPv6 IP Interfaces, default routing, static routing with Min. 100 IPv4 static route entries & Min. 50 IPv6 static route entries.	We request consideration to revise the static routing requirement to minimum 30 IPv4 static routes, as this is aligned with generic access-layer L3 switch capabilities and industry practice.	Minimum 64 IPv4 static routes and 32 IPv6 routes.
300	93	Annexure 16: Specifications 10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	Power Supply: 110~220 VAC Redundant or Single PSU	We request consideration for the offered model with single inbuilt PSU, as the specification allows "Redundant or Single PSU	The tender conditions shall prevail.

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301	94	Annexure 16: Specifications 10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 4 x 1GE Uplink port.		We request consideration for 2 x 1G SFP uplink ports, as this aligns with standard 8-port PoE access switch architecture and practical deployment requirements.	Kindly refer to the revised DTCN.
302	94	Annexure 16: Specifications 10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	Minimum Switching capacity of 24 Gbps or more.		We request consideration for 20 Gbps switching capacity, as it fully supports wire-speed forwarding for the available port configuration and aligns with standard industry design for 8-port Gigabit access switches.	Minimum 20Gbps or higher.
303	94	Annexure 16: Specifications 10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	Features of DHCP, DHCP Relay, NTP/SNTP, SNMPv1, v2 & v3, TELNET/ SSH.		We request consideration to accept the offered model for simple access-layer connectivity where advanced management and L3 features are not required.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
304	94	Annexure 16: Specifications 10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	Should have console port and web-based GUI for easy management.		We request consideration for web-based GUI management via access port, as it provides easy and user-friendly configuration without requiring a dedicated console interface.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
305	94	Annexure 16: Specifications 10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	Port-based and 802.1Q tag-based VLANs, MAC-based VLANs, IP subnet-based VLANs, Protocol-based VLANs, also known as protected ports, with multiple uplinks, Q in Q		We request consideration for standard Port-based and 802.1Q VLAN functionality, as the proposed switch is intended for access-layer deployment where advanced VLAN classification (MAC/IP/Protocol-based) and Q-in-Q tunneling are not required.	Port-based and 802.1Q tag-based VLANs, MAC-based VLANs, IP subnet-based VLANs, Protocol-based VLANs, also known as protected ports with multiple uplinks.
306	93	Annexure 16: Specifications 10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock		We request consideration for the offered model, as the project appears to require access-layer functionality.	L2/L3 ACL and IEEE 1588v2 PTP (hardware-based, end-to-end).

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307	93	Annexure 16: Specifications 10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	Web/SSL, Telnet server/SSH, ping, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), SNMP, RADIUS, syslog.	We request consideration for the offered model if the deployment is limited to basic access-layer connectivity without centralized management requirements.	Tender conditions shall prevail.
308	100	23. 1 KVA UPS (inbuilt battery) UPS -1 KVA Online UPS System	-	Backup Time required is missing in the section	Minimum 30 mins backup.
309	100	24. 2 KVA UPS (inbuilt battery) UPS -2 KVA Online UPS System	-	Backup Time required is missing in the section	Minimum 30 mins backup.
310	110	Annexure-17 - Declaration of Agency	Make and Model Declaration	Annexure 18 has not been provided in the document	Kindly refer to the revised DTCN.
311	103	Annexure 16: 28. Media Converter 10 km single-mode Media Converter	-	As 1G SFP switches have been provisioned, it is essential to assess the feasibility of deploying media converters within the proposed network infrastructure	The tender conditions shall prevail.
312	106	16.32.4 VMS Application	The Offered Central VMS Software should be ONVIF S, G, T & M Profile Compliant & should be a Full ONVIF Member. Central VMS OEM to Submit a Valid Certificate to Substantiate the Proof.	1. This clause restricts participation only to OEMs who are Full Members of ONVIF, which is a private industry association. 2. ONVIF is a private industry consortium. Membership category does not determine product quality, interoperability, or statutory compliance. DPIIT Public Procurement guidelines discourage restrictive and proprietary qualification criteria. 3. Replace "OEM must be ONVIF Full Member" with: "Offered products shall be ONVIF Compliant and OEM must be listed on ONVIF website".	ONVIF Member.
313	60	Annexure 4: Format for Price Bid	Supply, installation testing & Commissioning of AI Analytics Software as per the specifications provided in Annexure 16	1. Please specify exact quantities of licenses for Video Analytics	20% of total Camera Quantity.
314	60	Annexure 4: Format for Price Bid	Supply, installation testing & Commissioning of VMS Application for all locations as per the specifications provided in Annexure 16	1. Please specify exact quantities of licenses for Video Management Software Licenses	As per Scope of work in DTCN.
315	NA	General	Mandatory Requirement of STQC OWASP 10 Safe to Host Compliance of VMS & CA Software Platform	1. Please include Government of India Ministry of Home Affairs mandatory STQC OWASP 10 Safe to Host certification of offered VMS & VA software platform. 2. Excerpts from the Gazette Notification is "As per the Public Procurement Order (PPO) for CCTV / Video Surveillance Systems published in the *Gazette of India (EXTRAORDINARY, PART II – Section 3 – Sub-section (ii), Sr. No. 1062) dated 7th March 2024 by the Ministry of Electronics and Information Technology (MeitY), the Essential Requirements (ERs) for CCTV and related devices are mandated for Government procurement and form the legal basis for STQC certification under the IoT System Certification Scheme (IoTSCS). STQC's rules and procedures integrate ERs from this Gazette notification for product evaluation and security testing"	The tender conditions shall prevail.

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316	12	6. Scope of Services	6. Scope of Services 6.1. Odisha Mining Corporation Ltd. (OMC) intends to deploy a robust, scalable, and secure IP-based CCTV surveillance ecosystem across its mining sites, Regional Offices (ROs), and Head Office (HO, Bhubaneswar). The program strengthens site security, improves operational monitoring, and drives safety compliance through real-time, centralized video oversight and AI-enabled analytics. The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.	From the Scope of Services and detailed technical specifications of the VMS, we understand the system architecture as follows: - The bidder shall provide NVRs at each mine location for local monitoring and recording of video feeds. - The bidder shall provide Video Analytics Servers and Applications at each mine location for local processing of video analytics. - The Head Office (Bhubaneswar) shall be equipped with servers for hosting the Central Video Management Software. No video recording shall be done at the Head Office (Bhubaneswar) - At the Head Office (Bhubaneswar), the Central VMS shall facilitate on-demand central monitoring, on-demand playback viewing, and centralized monitoring of all video analytics alerts. - Recording of camera feeds shall be carried out only in the local 128-channel / 32-channel NVRs installed at respective mine locations. Kindly confirm if our understanding is correct.	No equipment is to be supplied at the Head Office. However, all camera feeds should be viewable at the Head Office through the existing VMS.
317	108	32. VMS Application	32. VMS Application Central Video Management Software Technical & Functional Specifications		Confirmed, however, if required, recording shall also be held at HO.
318	12	6. Scope of Services	6. Scope of Services 6.1. Odisha Mining Corporation Ltd. (OMC) intends to deploy a robust, scalable, and secure IP-based CCTV surveillance ecosystem across its mining sites, Regional Offices (ROs), and Head Office (HO, Bhubaneswar). The program strengthens site security, improves operational monitoring, and drives safety compliance through real-time, centralized video oversight and AI-enabled analytics. The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.	From the Scope of Services, we understand that the bidder is required to provide NVRs at each Mine, Regional Office (RO), and Head Office (HO, Bhubaneswar), with independent Video Management Software at each respective location. No centralized monitoring of all locations cameras is required under the current scope. Kindly confirm if our understanding is correct.	There are cameras already installed and those are being monitored from existing CCC as well as from HO CCC. The proposed cameras as part of this project are additional cameras. All the cameras (existing & New) are to be monitored from HO.
319	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid) 30. Supply, installation testing & Commissioning of AI Analytics Server as per the specifications provided in Annexure 16 - 15 Nos	As per the tentative supply item list, the quantity of Video Analytics servers is specified as 15 Nos. However, the location-wise bifurcation of these servers is not provided in the BOQ. We request you to kindly provide the location-wise distribution of the Video Analytics servers for accurate system design and sizing.	Kindly refer to the revised DTCN.
320	46	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid) 31 Supply, installation testing & Commissioning of AI Analytics Software as per the specifications provided in Annexure 16 - 1 Nos.	As per the tentative supply item list, the quantity of Video Analytics Software is specified as 1 No. However, use case-wise quantities for the Video Analytics application are not specified in the BOQ. We request you to kindly provide the location-wise / site-wise requirement for each Video Analytics use case. For example: *Daitari Mine Location: PPE Detection – 20 Nos., Fire & Smoke Detection – 5 Nos. *Khandadhar Mine Location: PPE Detection – 10 Nos., Fire & Smoke Detection – 8 Nos. Your clarification on this point will help all bidders to design the system accurately and align the hardware requirements as per the actual project needs.	Kindly refer to the revised DTCN.
321	42	4. Scope of Work	4. Scope of Work	The RFP Scope of Work and the provided BOQ do not provide sufficient clarity regarding the overall system architecture. We request you to kindly provide the detailed system architecture diagram to ensure accurate understanding, system design, and appropriate hardware sizing.	Kindly refer to the revised DTCN.
322	46	4.2. Supply of Equipment	Tentative Supply Items (Part of Price Bid) 32 Supply, installation testing & Commissioning of VMS Application for all locations as per the specifications provided in Annexure 16 - 1 Lumpsum	From the BOQ, we understand that the VMS application is to be supplied separately for each location, and the recording of camera feeds shall be carried out locally at the respective location's NVR. Kindly confirm if our understanding is correct.	Kindly refer to the revised DTCN.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
323	103	30. AI Analytics Server	30. AI Analytics Server Specification 32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443	We request you to kindly clarify whether the processor to be supplied by the bidder should have a total of 32 cores (2 Nos x 16 Core processor) or 2 Nos. x 32-core processors (total 64 cores).	Total 32 Cores.
324	106	31. AI Analytics Software	31. AI Analytics Software 41. The system shall allow classification of different objects like Vehicles and people/Person.	Kindly specify the number of cameras on which Object Classification (Person / Vehicle) analytics is required.	Approximately 20% of cameras.
325	110	Annexure 17	Document Submitted as a part of Bid Declaration by OEM as per Annexure 18	The OEM declaration is requested as per Annexure 18; however, Annexure 18 is not available in the RFP document. We request you to kindly share Annexure 18 for reference.	Kindly refer to the revised DTCN.
326	108	32. VMS Application	Additional Clause Request Central Video Management Software Technical & Functional Specifications	We request you to kindly add the following clause for the Central Video Management Software for better cyber secure product: "The Proposed Central Video Management Software (VMS) and Video Analytics Application should have undergone Audit as per OWASP Top 10 Security Risks from STQC. A Security Test Report/Certificate from STQC to be Submitted as a Documentary Evidence/Proof."	The tender conditions shall prevail.
327	108	32. VMS Application	Additional Clause Request Central Video Management Software Technical & Functional Specifications	We request you to kindly add the following clause for the Central Video Management Software for quality OEM Participation: "The Central VMS and Video Analytics OEM should have Performed Benchmark Appraisal & Achieved CMMI V2.0 Maturity Level - 3. Appraisal Certificate of CMMI V2.0 Level - 3 to be Submitted as a Proof. The OEM should be in the Possession of the Appraisal Certificate on or before the Bid Publishing Date. The Appraisal shall be Validated Online & should be Available on Public Portal on CMMI Institutes Website in the Published Appraisal Results (https://cmminstitute.com/learning/appraisals/results). Any False Declarations shall lead to Bid Rejection & Blacklisting. "	The tender conditions shall prevail.
328	108	32. VMS Application	Additional Clause Request Central Video Management Software Technical & Functional Specifications	We request you to kindly add the following clause for the Central Video Management Software for better cyber secure product: "The proposed Central Video Management Software and Video Analytics Software shall be FIPS 140-2 and FIPS 140-3 compliant. The bidder shall submit a valid FIPS compliance test certificate issued by a CERT-In empanelled auditor as proof of compliance."	The tender conditions shall prevail.
329	46	4.3. Installation & Configuration	4.3. Installation & Configuration Implement AI-based software with integration for: o PPE Kit Violation Detection o Unauthorized Access Detection to restricted areas o Smoke & Fire Detection	From this clause we understand that the "Unauthorized Access Detection to restricted areas " is refer to the intrusion detection functionality of the Video Analytics application. Kindly confirm if our understanding is correct.	Kindly refer to the revised DTCN.
330	103	31. AI Analytics Software	31. AI Analytics Software AI Based Crowd detection AI based Intrusion Detection AI Based Fire & Smoke Detection AI Based Personal Protective Equipment's Detection	We request you to kindly provide the location wise use case quantities for each use case. For Example: *Daitari Mine Location: Crowd Detction- 5 Nos., PPE Detection – 20 Nos., Fire & Smoke Detection – 5 Nos. *Khandadhar Mine Location: Crowd Detction- 5 Nos., PPE Detection – 10 Nos., Fire & Smoke Detection – 8 Nos.	Kindly refer to the revised DTCN.
331	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	The Server quantities for the Video Management Software is missing in the BOQ. Therefore we request you to kindly add the VMS Server quantities in the BOQ.	Kindly refer to the revised DTCN.
332	45	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	As we reviewed the BOQ and found that the Monitoring Workstation quantities are missing in the BOQ. Therefore we request you to kindly amend the BOQ and add the workstation quantities for each location.	Monitoring shall be done from existing CCC workstations.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
333	42	4.1.2. Site Survey & Design Plan	4.1.2. Site Survey & Design Plan The Selected Vendor Shall Design integration plans with existing Command & Control Centers at Mines, ROs, and HO.	From the referred clause, we understand that the term 'existing Command and Control Center' pertains to the physical command and control room infrastructure, and not to any existing Command and Control application software. Kindly confirm if our understanding is correct.	CCC present at all respective locations including HO.
334	87	Annexure -16 1. Bullet Camera (5 MP) Min. Illumination	Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as "Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better", To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN. Kindly refer to the revised DTCN.
335	87	1. Bullet Camera (5 MP)	Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs.	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.
		Streams		Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing.	Kindly refer to the revised DTCN.
				Hence, We request you to ammend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions". To make it generic & allow max OEM'S to participate here	Kindly refer to the revised DTCN.
336	87	1. Bullet Camera (5 MP)	G.711U/A or better	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G. 722. 1/G. 726/ MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
		Compression			G.711U/A or better.
337	87	1. Bullet Camera (5 MP)	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), TRNG, User Authentication,	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines.	The tender conditions shall prevail.
		Security Features	and encrypted firmware, Hardware Secure Boot	Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	The tender conditions shall prevail.
338	87	2. Dome Camera (5 MP) Min. Illumination	Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as "Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better", To make it generic & allow max OEMS to participate here	"Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better". Kindly refer to the revised DTCN.
339	87	2. Dome Camera (5 MP)	Quad Individual configurable Stream and all streams should work at	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs.	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.
		Streams	H.265 Compression. Two stream should work 1080@25FPS.	Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing.	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.

Sl. No.	Page No.	Clause No.	Clause Description		Clarification Sought	Reply
					Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions. "To make it generic & allow max OEM'S to participate here	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.
340	88	2. Dome Camera (5 MP)	G.711U/A		Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
		Compression				G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
341	88	2. Dome Camera (5 MP)	Authorized username and password, HTTPS with password, HTTPS digest authentication, watermark/ OSD, RTSP, AES 256 encryption, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution		The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines.	Tenders conditions shall prevail.
		System Compatibility	Environment), User Authentication, and encrypted firmware, Hardware Secure Boot		Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	Tenders conditions shall prevail.
342	88	3. PTZ Camera (4 MP, IP)	G.711u		Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722 .1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
		Audio compression				G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
343	88	3. PTZ Camera (4 MP, IP)	Pan: 0.1° ~350° /s; Tilt: 0.1° ~350° /s		Too Much High speed of PAN & Tilt speed will increase the chance of motor's wear and tear, which means that the product is prone to breakage, Hence requesting you to ammend this clause as " Pan speed: configurable from 0.1° to 160°/s or better;	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.
		Manual Control Speed			Tilt speed: configurable from 0.1° to 120°/s or better" to make it more generic & allow maximum OEM to participate in this BID	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.
344	88	3. PTZ Camera (4 MP, IP)	250M or better		As per asked optical zoom i.e. 30x, 150m IR range is enough cover at night so you are requested to revise this clause as " Min 150m IR Range or better " to make it more generic & allow maximum OEM to participate in this BID	Min 150m IR Range or better.
		IR distance				Min 150m IR Range or better.
345	88	3. PTZ Camera (4 MP, IP)	IPv4/IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, ICMP, IGMP, SSL/TSL,		UPnP is a networking protocol that automatically connects devices on the same network, but it also poses security risks , Hence request you to kindly remove clause to make it more generic & allow maximum OEM to participate in this BID	Removed UPnP
		Network protocol	PPPoE, ICMP, SNMP, Unicast/ Multicast			Removed UPnP
346	89	3. PTZ Camera (4 MP, IP)	ONVIF Profile S, G, T (OEM Should be member)		Different OEM's support different Onvif Profiles to meet requiriements, Hence it is requested to ammend this clause as " ONVIF Profile S/G/T " to make it more generic & allow maximum OEM to participate in this BID	ONVIF Profile S/G/T.
		Access protocol				ONVIF Profile S/G/T.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
347	89	3. PTZ Camera (4 MP, IP)	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSPS, AES 256 encryption, Signed Firmware, Firmware encryption, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware.	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines.	Tenders conditions shall prevail.
		Security Mode	Hardware Secure Boot, security logs; IP filtering	Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	Tenders conditions shall prevail.
348	89	3. PTZ Camera (4 MP, IP)	IP67 & IK10 Compliant, TVS 6,000V Lightning Protection, Surge	It's single OEM Specific specification, generally PTZ Cameras are connected to PoE switches or PoE Adapter, which should support surge protection, So kindly remove this clause or amend it as :- camera should support IP67 & IK10 protection, To make it generic & allow max OEMS to participate here	Camera should support IP67 & IK10 protection.
		Protection Level	Protection and Voltage Transient Protection	Can include external protection devices under different BOQ line item	Kindly refer to the revised DTCN.
349	89	3. PTZ Camera (4 MP, IP)	DC24V/1.5A (±10%), PoE+ (802.3at)	The power supply of PTZ varies depending upon the power source selection by OEM, hence request to revise it to " Power Supply - 12VDC/24VDC/24VAC/36VDC/48VDC/PoE/802.3 at "To make it generic & allow max OEMS to participate here	Power Supply - 12-24VDC/PoE/802.3 bt/802.3 at.
		Power supply			Power Supply - 12-24VDC/PoE/802.3 bt/802.3 at.
350	89	4. 128 Channel NVR	Quad-core Embedded processor	By Specifying this clause "Quad Core processor" currently limits healthy competition.	Quad-core Embedded processor/industrial-grade embedded processor capable of handling the specified function without latency or frame loss.
		Processor		Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics.	Kindly refer to the revised DTCN.
				We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: " The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss "	Kindly refer to the revised DTCN.
351	89	4. 128 Channel NVR	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to amend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM.
		Audio Format			Kindly refer to the revised DTCN.
352	89	4. 128 Channel NVR	IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP,	FTP is camera feature should support in proposed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard,Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
		Protocols	PPPoE, UPnP, NTP, P2P, FTP		Kindly refer to the revised DTCN.
					IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P..
		5. 32 channel NVR		By Specifying this clause "Quad Core processor" currently limits healthy competition.	Kindly refer to the revised DTCN.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
353	90	Processor	Quad-core Embedded processor or better	Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics.	Kindly refer to the revised DTCN.
				We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Kindly refer to the revised DTCN.
354	90	5. 32 channel NVR	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC" To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
		Audio Format			Kindly refer to the revised DTCN.
355	90	5. 32 channel NVR	IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP,	FTP is camera feature should support in proposed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard, Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
			PPPoE, UPnP, NTP, P2P, FTP		Kindly refer to the revised DTCN.
356	89	5.PTZ Camera (4 MP, IP)	CE, FCC, BIS, RoHS, STQCs ER	We request clarification regarding the requirement mentioned on Page No. 89 for the 4 MP PTZ Camera certifications, specifically the STQC ER certificate. STQC ER testing for PTZ models is currently under process at STQC labs, and the issuance timelines depend on the testing cycle and lab workload. Therefore, we kindly request the department to allow us to submit the STQC ER Certificate at the time of delivery instead of at the time of bid submission. All other required certifications such as CE, FCC, BIS, and RoHS will be submitted along with the bid. This relaxation will ensure wider participation without compromising compliance, as the STQC ER certificate will be mandatorily provided before supply and installation.	Kindly refer to the revised DTCN.
		Certification			Kindly refer to the revised DTCN.
357	87	Annexure: 16 Bullet Camera (5 MP)	CE, FCC, BIS, RoHS, STQCs ER	In Annexure 16, Page 87, the technical specifications of the 5 MP Bullet Camera do not mention any requirement for STQC certification or any other specific mandatory certification apart from the general parameters provided. Since the specification sheet does not indicate STQC/ER certification or any additional compliance criteria, we request OMC to kindly clarify whether any such certification is required for the 5 MP Bullet Camera. We further request confirmation that only the listed technical specifications will be considered for evaluation and that no additional certifications—such as STQC/ER—will be treated as mandatory unless explicitly stated in the tender document.	Kindly refer to the revised DTCN.
		Certification			Kindly refer to the revised DTCN.
358	43	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	Clause 4 Supply, installation testing & Commissioning of 128 Channel NVR with as per the specifications provided in Annexure 16: 4 Nos Clause 5 Supply, installation testing & Commissioning of 32 channel NVR with License as per the specifications provided in Annexure 16: 19 Nos	Recommending using VMS Servers instead of NVR VMS Servers will allow for scalability and will not limit the usage. It will also be non-proprietary hardware hence brand-agnostic for furture proofing of project.	NVR or equivalent VMS Server.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
359	46	4.3. Installation & Configuration	4.3. Installation & Configuration PPE Kit Violation Detection Request to define colours of PPE Kits like Safety Jacket/High Visibility Reflective Jacket and Helmets for optimum performance and differentiation.	In Oil & Gas sector Multiple coloured Safety Jacket/High Visibility Reflective Jacket and Helmets are in use. Need clarification if only PPE Kit detection is required or Vest & Helmet Colour detection is also required.	Kindly refer to the revised DTCN.
360	46	4.3. Installation & Configuration	4.3. Installation & Configuration Implement centralized monitoring through NVR-based VMS and AI software supporting: o Real-time monitoring o Remote playback o AI event detection and alerts	Recommending using VMS Servers instead of NVR VMS Servers will allow for scalability and will not limit the usage. It will also be non-proprietary hardware hence brand-agnostic for future proofing of project.	Kindly refer to the revised DTCN.
361	87	Annexure 16: Specifications	1. Bullet Camera (5MP) Kindly Include Certification CE, FCC, BIS,RoHS, STQC ER.	Certification for Bullet Camera is missing.	Kindly refer to the revised DTCN.
362	104	31. AI Analytics Software AI Based Video Analytics Software	31. AI Analytics Software AI Based Video Analytics Software Clause 18 The system should Classify a Person/Human in real time Live Video Stream & detect if the Person is wearing the Appropriate & Configured Personal Protective Equipment's.	Request to define colours of PPE Kits like Safety Jacket/High Visibility Reflective Jacket. and Helmets for optimum performance and differentiation. Since Appropriate & Configured PPE Kit Classification is mentioned, would it be correct to assume that Colour variation of PPE classification is required as per different coloured Safety Jacket/High Visibility Reflective Jacket and Helmets are in use?	Kindly refer to the revised DTCN.
363	104	31. AI Analytics Software AI Based Video Analytics Software	31. AI Analytics Software AI Based Video Analytics Software Clause 20 The System should detect the respective Configured PPE on the Configured Live Stream and Send Alerts if a Person is found to be Violating the PPE Safety measures. To be escalated as per desired level.	Need Escalation Matrix Data Providing Escalation Matrix Data will help to configure software as per desired levels	Kindly refer to the revised DTCN.
364	104 & 106	31. AI Analytics Software AI Based Video Analytics Software 32. VMS Application Central Video Management Software Technical & Functional Specifications	31. AI Analytics Software AI Based Video Analytics Software 32. VMS Application Central Video Management Software Technical & Functional Specifications Additional Clause	The VMS & VA should be STQC Certified. The VMS should be STQC Certified for thick client, mobile client(both android and IOS) & web client . Required certification has to be shared To Ensure highest Cyber Security standards through MEITY approval, requesting EU to demand The Proposed Video Management Software (VMS) Application should have undergone Audit as per OWASP Top 10 Security Risks from STQC. A Security Test Report/Certificate from STQC to be Submitted as a Documentary Evidence/Proof.	Tenders conditions shall prevail.
365	104 & 106	31. AI Analytics Software AI Based Video Analytics Software 32. VMS Application Central Video Management Software Technical & Functional Specifications	31. AI Analytics Software AI Based Video Analytics Software 32. VMS Application Central Video Management Software Technical & Functional Specifications Additional Clause	The offered VMS must be cyber security certified with FIPS-140-2 & FIPS 140-3 encryption from Indian body for mitigating cyber security risk. The FIPS-140-2 & FIPS 140-3 Certification should be done on or before the Bid Publishing Date. A Valid Certificate for FIPS-140-2 & FIPS 140-3 for the VMS Application to be Submitted as Proof. To Ensure DATA Security to the global level, requesting EU to demand The offered VMS must be cyber security certified with FIPS-140-2 & FIPS 140-3 encryption from Cert-IN Empanelled Auditor for mitigating cyber security risk.	Tenders conditions shall prevail.
366	106 & 107	32. VMS Application Central Video Management Software Technical & Functional Specifications Mobile Surveillance & Remote Viewing Parameters	Clause 6 The Central VMS shall support iPad, Android and iPhone devices & shall also support web clients. Clause 21 Ability to view live video on iOS and Android phones or devices with or without installing proprietary Apps.	The VMS should be STQC Certified for thick client, mobile client(both android and IOS) & web client . Required certification has to be shared To ensure highest Cyber Security standards through MEITY approval, requesting EU to demand STQC from Mobile Client and Web Client	Tenders conditions shall prevail.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
367	106	32. VMS Application Central Video Management Software Technical & Functional Specifications	32. VMS Application Central Video Management Software Technical & Functional Specifications Clause 3 The Central Video Management Software shall be Client-Server based IP Video security solution that shall provide seamless management of Digital Video, Audio and data across an IP network. Video from sites shall be possible to view from single or numerous workstations simultaneously at any time. Cameras and viewing stations may be placed across the terminal in the IP network.	Requesting Additional Clause The VMS should provide the collaborative vigilance function among the mobile operators. It should be possible for the operators to view the fellow mobile operators in the vicinity and connect with them to share information, chat, video calls, etc through appropriate solution. The functionality should have been deployed in at least one project. The OEM should give details of the installation and the project as a part of the declaration. To ensure a seamless data exchange and communication between Operators this clause, requesting EU to demand this proven functionality.	Tenders conditions shall prevail.
368	107	32. VMS Application Central Video Management Software Technical & Functional Specifications	32. VMS Application Central Video Management Software Technical & Functional Specifications Streaming Parameters 27 Authentication parameters (username, password) for streaming to remote clients. The Offered Central VMS must support the Following features when Connected with Third Party DVR's & NVR's i. Fetching & Displaying Live Streams from all Channels of NVR, ii. Fetching Recorded Playback Video Streams from all Channels of NVR, iii. Alarm Events iv. Hard Disk Health Status of DVR's & NVR's v. PTZ Controls of PTZ Cameras via the NVR. Administration & Failover Parameters	Recommending using VMS Servers instead of NVR VMS Servers will allow for scalability and will not limit the usage. It will also be non-proprietary hardware hence brand-agnostic for future proofing of project.	Kindly refer to the revised DTCN.
369	106	32. VMS Application Central Video Management Software Technical & Functional Specifications	32. VMS Application Central Video Management Software Technical & Functional Specifications Additional Clause	OEM supplying the Video Management System should have supplied / operated the VMS for at least 50 projects as on last date of submission of bid. OEM shall submit documental evidence of work order / agreement to the System Integrator mentioning the relevant scope of Work along with invoice/s raised to the System Integration for the same project by OEM. Requesting EU to demand OEM's to prove their consistent track record in execution of critical projects	Tenders conditions shall prevail.
370	106	32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause	The Video surveillance OEM must be listed in the IHS/Informa, OMDIA ranking of the top 3 VMS providers in Asia. TO ENSURE BEST OF CLASS SOLUTION	Tenders conditions shall prevail.
371	14	7. Eligibility Criteria/ Poni no. b	b. Bidding in the form of a Consortium and Joint Venture are NOT allowed.	We note the restriction on consortium/JV participation. Consortium arrangements typically combine complementary expertise and resources, strengthening project design, execution, and risk management. We kindly request that consortium/JV participation be allowed in this tender or considered for future projects. Request to amend clause as: b. Bidding in the form of a Consortium and Joint Venture are NOT allowed is allowed with a maximum of two members only.	Tender conditions shall prevail.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
372	13	7. Eligibility Criteria/ 7.1 Technical Criteria	Technical Criteria a. The Bidder must have successfully executed similar work during the last 05 (five) years, which shall be either of the following: i) Three similar completed Services of value not less than INR 1.3 Crore each (Excluding GST) OR ii) Two similar completed Services of value not less than INR 1.6 Crore each (Excluding GST) OR iii) Single similar completed Service of value not less than INR 2.6 Crore (Excluding GST) Note: □ "Similar completed Services" shall mean Supply, installation of CCTV Surveillance System with/without AMC. a. Applicable 5 (five) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e. FY 2020-21, FY 2021-22, FY 2022-23, FY 2023-24 and FY 2024-25)	We request that the clause be amended to permit consideration of the relevant experience of the Lead Member and/or Consortium Member(s), either collectively or individually, for the purpose of meeting the technical eligibility criteria. This will facilitate wider participation of technically qualified bidders and strengthen overall project implementation capability. Request to amend clause as: Technical Criteria a. The Bidder, whether bidding as a single entity or as a consortium, must have successfully executed similar works during the last five (05) years. In case of a consortium, the eligibility criteria may be satisfied either individually by any Consortium Member or jointly by the Consortium Members. i) Three similar completed Services of value not less than INR 1.3 Crore each (Excluding GST) OR ii) Two similar completed Services of value not less than INR 1.6 Crore each (Excluding GST) OR iii) Single similar completed Service of value not less than INR 2.6 Crore (Excluding GST) Note: □ "Similar completed Services" shall mean Supply, installation of CCTV Surveillance System with/without AMC. a. Applicable 5 (five) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e. FY 2020-21, FY 2021-22, FY 2022-23, FY 2023-24 and FY 2024-25)	Tender conditions shall prevail.
373	13	7. Eligibility Criteria/ 7.2 Financial Criteria	7.2 Financial Criteria i) Average annual financial turnover of the Bidder for last 03 (three) financial years should be INR 10 (Ten) Crore Note: Applicable 3 (three) years – FY 2022-23, FY 2023-24 and FY 2024-25	We request that the clause be amended to permit consideration of the relevant experience of the Lead Member and/or Consortium Member(s), either collectively or individually, for the purpose of meeting the technical eligibility criteria. This will facilitate wider participation of technically qualified bidders and strengthen overall project implementation capability. Request to amend clause as: 7.2 Financial Criteria i) The Bidder, whether bidding as a single entity or as a consortium average annual financial turnover of the Bidder for last 03 (three) financial years should be INR 10 (Ten) Crore. In case of a consortium, the eligibility criteria may be satisfied either individually by any Consortium Member or jointly by the Consortium Members. Note: Applicable 3 (three) years – FY 2022-23, FY 2023-24 and FY 2024-25	Tender conditions shall prevail.
374	50	8. Payment terms/ 8.2. Supply and Installation		We respectfully request provision of an advance payment of 10% of the Contract Value to support mobilization and initial resource deployment. System integration and installation projects involve substantial upfront expenditure towards procurement, logistics, and site mobilization. An advance payment would facilitate timely project initiation and ensure smooth execution. We propose that the advance be recovered from subsequent milestone payments and secured through submission of an Advance Bank Guarantee. We kindly request that the payment terms be amended accordingly to incorporate this provision. Request to amend clause as:	Tender conditions shall prevail.

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375	50	8. Payment terms/ 8.2. Supply and Installation		We note that the RFP specifies that 10% of the basic price is payable after completion of the warranty period or upon submission of a Performance Bank Guarantee. While certain devices indicate a 3-year warranty, others do not specify any warranty period. Kindly clarify whether the 10% payment condition is linked specifically to the 3-year warranty period mentioned for certain devices, and how it applies to items where the warranty period is not defined. This clarification will help us align our proposal accordingly.	Tender conditions shall prevail.
376	42	4. Scope of Work/ 4.4. Operation and Comprehensive Maintenance Support	4.4. Operation and Comprehensive Maintenance Support	We note that the RFP specifies deployment of only three personnel across three regions, covering 21 geographically dispersed mines. In view of the extensive spread, we request clarification on whether transportation for manpower movement within and between mine locations will be provided by the Client or arranged by the Service Provider. This clarification will enable us to appropriately plan deployment logistics and prepare accurate cost estimates.	Tenders conditions shall prevail.
377	42	4. Scope of Work/ 4.4. Operation and Comprehensive Maintenance Support		We note that the RFP stipulates deployment of three personnel across three regions covering 21 geographically dispersed mines. Given the significant distances between certain locations (for example, approximately two hours of road travel between Daitari and Gandhamardan), adherence to the prescribed SLA timelines may be operationally challenging under the current manpower structure. Similar geographical constraints exist for the mines under Koira & Barbil RO and those under HO, JK Road, and Rayagada RO. Considering the stringent SLA requirements of 98% uptime for cameras and 99% availability for the communication network, maintaining these service levels with deployment of only three personnel across widely dispersed mine locations may present significant operational challenges. We therefore request clarification on the proposed mechanism for ensuring SLA compliance under the current manpower structure. This clarification is critical for realistic resource planning, accurate risk assessment, and ensuring sustained service performance in line with contractual expectations.	Kindly refer to the revised DTCN.
378	100	Annexure 16: Specifications /Point no. 23	23. 1 KVA UPS (inbuilt battery) UPS -1 KVA Online UPS System	We request clarification on the minimum backup duration required for the "UPS – 1 KVA Online UPS System" and "UPS – 2 KVA Online UPS System," as this information is essential for preparing an accurate and compliant proposal. Kindly confirm the expected backup hours for each system.	Kindly refer to the revised DTCN.
379	100	Annexure 16: Specifications /Point no. 24	24. 2 KVA UPS (inbuilt battery) UPS -2 KVA Online UPS System		Kindly refer to the revised DTCN.
380	103	Annexure 16: Specifications /Point no. 30	30. AI Analytics Server- AI Based Video Analytics Server	We request clarification on the minimum retention period (in days) for incident data and video footage, or alternatively, the minimum storage capacity to be provisioned. This information is essential for appropriately designing the storage solution and preparing an accurate cost estimate in line with project requirements.	Kindly refer to the revised DTCN.

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381	-	Additional	-	We request clarification on whether the Client will provide a secure storage facility during the implementation period for storing materials such as electronic equipment, poles, OFC, and other hardware. This confirmation will enable us to appropriately plan logistics and structure our proposal and cost estimates.	OMC shall facilitate for secure storage facility
382	47	5. Delivery period	The supply, installation and commissioning shall be completed within 180 days from the date of issuance of PO.	Considering multi-location mining terrain and dependency on civil/OFC readiness, request site-wise 180 days from site handover with written readiness certificate.	Tender conditions shall prevail
383	46	4.3. Installation & Configuration	The Vendor Shall lay fiber cables, install poles, and perform associated civil works.	1. Kindly confirm that land access, RoW permissions, statutory approvals and utility shifting shall be facilitated by the OMC. 2. Kindly confirm that Delays due to external permissions should be excluded from LD.	OMC shall facilitate
384	47	4.4 – Replacement at Own Cost	Replacement if required at SI cost	Kindly clarify that replacement obligation applies only for warranty defects and not for damage due to vandalism, lightning, third-party fiber cuts, power fluctuation beyond UPS rating, or force majeure.	Kindly refer to the revised DTCN.
385	49	7.2. Service Level and Penalty	SLA- CCTV 98% Penalty ₹500 per 0.5% per device per quarter	1. Request SLA to be measured at aggregate location level, not device-wise. 2. Request exclusion of downtime due to OMC network, power, fiber cut, or third-party interference.	Kindly refer to the revised DTCN.
386	49	7.2. Service Level and Penalty	SLA- Network 99% Penalty ₹1000 per 0.5% fall	Kindly clarify that backbone fiber provided/approved by OMC shall be excluded from SI SLA liability where third-party damage occurs.	Kindly refer to the revised DTCN.
387	50	7.2. Service Level and Penalty	Escalating slabs + GST on penalty	Request overall annual penalty cap limited to 10% of Annual O&M value to avoid disproportionate financial exposure.	Kindly refer to the revised DTCN.
388	51	8. Payment terms	50% supply, 40% installation, 10% post warranty	Considering high CAPEX, we request the authority to release of 10% retention against submission of equivalent Bank Guarantee at Go-Live stage.	Provision is specified in the tender document
389	51	8.3. Operation and Comprehensive Maintenance Support (Excluding Manpower)	Payment based on working CCTV count	Request clarification that cameras under approved preventive maintenance or spare replacement cycle shall be treated as available for payment purposes.	Kindly refer to the revised DTCN
390	37	23. Insurance	23.1 The Agency will obtain an insurance policy covering all risks, damages, loss etc. The insurance cover in favour of employer shall be from the start date to the end of Defect Liability Period. Insurance shall cover the following. I. loss of or damage to the works, plant and materials II. loss of or damage to Equipment III. loss of or damage of property (except the Works, Plant, Materials and Equipment) in connection with the Contract and IV. personal injury or death	Kindly clarify insurance scope (Transit + Storage + Erection All Risk). Request that site security responsibility remains with OMC post material delivery.	Site security post installation and commissioning shall be with OMC
391	48	6. Contract period	6.4. The contract may be extended further for 5 years for Operation & Maintenance (O&M) based on satisfactory performance of the SI on same price and terms & conditions as valid for 5th year of O&M.	Request price escalation clause linked to CPI/WPI or minimum 5% YoY escalation for extended O&M period beyond initial 5 years.	Tender conditions shall prevail.
392	50	7.3. Waiver of Penalty	7.4. OMC shall have full liberty to realize the LD / Penalty through the following ways: A) Appropriation of the Performance Security; OR B) Appropriation the of EMD (in case provision of Performance Security does not exist); OR C) Reduction of the invoice/document value and release of the payment accordingly	Request that penalty recovery through invoice deduction be first mode; invocation of PBG only in case of material breach.	Tender conditions shall prevail.

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393	47	4.3. Installation & Configuration	Implement AI-based software with integration for: o PPE Kit Violation Detection o Unauthorized Access Detection to restricted areas o Smoke & Fire Detection	Kindly clarify expected detection accuracy benchmark (%) and whether analytics performance will be validated in controlled conditions or live mining environment.	90% accuracy
394	47	4.4. Operation and Comprehensive Maintenance Support	Total 3 nos. manpower for all regions Dairty & Gandhamardan= 1 no. Koira & Barbill= 1 no. HO, JKRD, Rayagada (Manager)= 1 no.	Kindly confirm that 3 nos. manpower to be considered for per shift or overall 3 nos. manpower would be required. Further, as the mentioned locations are geographically distinct, please confirm whether one dedicated resource per site is to be deployed on full-time basis per shift at each respective location.	Location-wise deployment of manpower
395	87	Annexure 16: Specifications	Technical specifications of IP Cameras provided; no explicit mention of STQC certification	Kindly clarify whether STQC certification for CCTV cameras is mandatory. If required, confirm whether valid STQC certification in bidder/OEM name shall be acceptable and whether specific STQC scheme category applies (ER/Video Surveillance).	Kindly refer Revised DTCN
396	NA	Annexure 16: Specifications	Storage & Retention Requirement: NVR/Server storage mentioned; retention duration not clearly specified	1. Kindly confirm required CCTV footage retention period (e.g., 30/60/90 days) at full resolution and FPS. 2. Kindly clarify whether retention applies uniformly across all camera types.	Kindly refer Revised DTCN
397	NA	Annexure 16: Specifications	Central Monitoring Connectivity: Centralized monitoring capacity mentioned	Kindly clarify whether connectivity between mine sites and Head Office is to be provided by OMC or System Integrator. If by SI, please confirm bandwidth requirement per site and minimum uptime expectation.	Connectivity already in place
398	NA	4.3. Installation & Configuration	WAN Architecture	Kindly confirm whether architecture is: (a) MPLS, (b) Internet VPN, (c) Dedicated OFC backbone, or (d) Hybrid model. Also clarify whether dual-link redundancy is mandatory.	Kindly refer Revised DTCN
399	NA	4.3. Installation & Configuration	Bandwidth Requirement: Remote live streaming implied	Kindly specify minimum bandwidth requirement per camera for centralized viewing and whether simultaneous multi-site streaming is expected at HO.	This is part of OMC's Scope
400	NA	4.3. Installation & Configuration	Edge vs Central Recording	Kindly clarify whether recording is to be retained locally at mine sites with centralized viewing, or whether centralized storage at HO/DC is mandatory.	Recording of the feed shall be done both locally. Provision should be there for recording at HO on need basis
401	NA	4.3. Installation & Configuration	Disaster Recovery (DR)	Kindly confirm whether Disaster Recovery (DR) infrastructure is required. If yes, clarify location, RPO/RTO expectations, and whether storage replication is in scope.	DR infra is not required.
402	NA	4.3. Installation & Configuration	Power Availability at Sites	Kindly confirm availability of stable power supply at camera pole locations. If solar-based or hybrid power is required, request specification clarity.	Power shall be available at site.
403	44	4.2. Supply of Equipment	Tentative Supply Items	RFP specifies Access Layer PoE switches, Media Converters, NVR, AI Servers and integration with existing LAN/WAN/OFC network. However, no Distribution/Core switch architecture is defined for aggregation of multiple field switches and centralized monitoring across mines. Considering multi-site scalable architecture, high bandwidth (32-channel NVR with 384 Mbps), and long fiber backhaul, inclusion of aggregation/core layer is technically essential for scalability, traffic segmentation, redundancy, and secure routing. We request authority to provide clarity on the above point and give the required input i.e. Minimum required specification & Qty for consideration.	Tender condition shall prevail

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404	90	Annexure 16: Specifications	7. 10 TB HDD/SSD	Kindly clarify minimum technical specifications for storage (RPM, workload rating, MTBF, interface type, OEM warranty period, and required video retention days). Absence of defined parameters may lead to significant price variation among bidders and long-term O&M risk (5-year support obligation), affecting fair commercial comparison and lifecycle cost estimation.	Tender condition shall prevail
405	12	Clause 6.1 – Scope of Services	NA	Kindly clarify whether firewall and related network security equipment are in the scope of OMC or to be provisioned by the bidder. In case the same is under bidder's scope, request OMC to provide minimum technical specifications and indicative quantity required. This clarification will ensure uniform understanding among bidders and avoid commercial variability arising from consideration or non-consideration of such critical infrastructure.	These are within the scope of OMC.
406	13	7. Eligibility Criteria	7.1 Technical Criteria	In the technical criteria, whether ongoing projects supported by a valid part completion certificate are acceptable for meeting the eligibility requirements	Tender conditions shall prevail.
407	13	7. Eligibility Criteria	7.1 Technical Criteria	1. Whether CCTV surveillance projects executed in the private sector are acceptable for fulfilling the "similar completed services" criteria?	Acceptable
408	21	8.23 Performance Security:	Performance Security shall be in the form of eBG or Bank Guarantee (BG) from any Nationalized/ Scheduled Bank invocable at their branch in Bhubaneswar as per the format given in Annexure 8 or in the form of demand draft from a scheduled commercial bank and payable in favour of OMC LIMITED, Bhubaneswar, Odisha.	Kindly accept the Performance Security in the form of an Insurance Surety Bond, as many government departments like NHM, NHA I permit and accept the same.	Tender conditions shall prevail.
409	46	5.4 (b) Hours and Limitation of Engagement of Drivers	No driver shall be required or allowed to work for more than 48 hours in any week or for more than 9 hours in a day.	However, in the RFP the driver shift is mentioned as 12 hours. Kindly clarify this and amend the clause.	Tender conditions shall prevail.
410	44	5.1 (b) Manpower deployment	The Service Provider is required to obtain a Labor License from the appropriate authority for the persons to be deployed by the bidder as provided under the prevailing contract labour(R&A) Act & submit the copy of labour license certificate and should possess the same from the date of commencement of work, failing which the contract is liable to be cancelled.	As per new labour law provisions, a Labour License is not required for up to 50 workers. Therefore, we request you to kindly amend the clause so that a Labour License is required only when the manpower exceeds the statutory limit	As per prevailing extant Rule.
411	42	4 (b) Hiring Basis, Working hours and Price	Fuel shall be provided by OMC from the respective locations. The fuel consumption shall be reconciled at the end of each month based on the mileage as provided in tender and running Km. i.e. Mileage 11 km/litre	Fuel is supplied by the Authority, but actual mileage may vary due to road and site conditions. Hence, we request to review the fixed mileage after 2-3 months of operation and revise it based on actual performance.	Tender conditions shall prevail.
412	105	Annexure 16, Item 27	"The Central VMS & Video Analytics Platform should be from same OEM."	This clause restricts pure-play AI software developers and specialized VMS providers from participating. We request you to modify this to: "The Central VMS and Video Analytics Platform may be from different OEMs provided they are seamlessly integrated via API/ONVIF."	"The Central VMS and Video Analytics Platform may be from different OEMs provided they are seamlessly integrated via API/ONVIF."

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413	103	Annexure 16, Item 30	"32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM... NVIDIA L4 GPU Card- 2"	The specified NVIDIA L4 is a very specific GPU model. Given the rapid advancement and availability cycles of GPUs, we request you to allow equivalent or better GPUs (e.g., NVIDIA A30, A40, or equivalent) to ensure broader participation and hardware availability.	Anything better than given specification is accepted.
414	49	Clause 7.2	"Quarterly Base Penalty Rate (INR): For every decrease of 0.50% in availability... a penalty of Rs 500 / Rs 1000 shall be imposed."	Uncapped penalties pose a significant risk. We request OMC to kindly cap the maximum SLA penalty per quarter to 10% of the quarterly O&M invoice value for the respective mine/location.	Tender conditions shall prevail.
415	110	Annexure 17	"Declaration by OEM as per Annexure 18" is required for almost all BOQ items.	The tender document ends at Annexure 17. There is no Annexure 18 provided in the RFP. Please issue a corrigendum providing the format for Annexure 18 (OEM Declaration/MAF).	Kindly refer to the revised DTCN.
416	47	SCC Clause 4.4 (Manpower details)	"Deployment of 3 manpower... 1 for HO, JKRD, Rayagada (Manager)".	The RFP mandates 1 resource to cover the Head Office (Bhubaneswar), JK Road, and Rayagada. Rayagada is geographically hundreds of kilometers away from the other two locations. It is physically impossible for a single resource to travel between these sites and maintain the strict 98% uptime SLA. We request OMC to either increase the manpower count for these dispersed regions or relax the SLA penalty for travel-related downtime.	SLA Relaxed.
417	89,90	Annexure 16, Item 4 & 5 (NVRs)	"128 Channel NVR... Qty: 4" and "32 channel NVR... Qty: 19". Min Capacity: 10TB (Each HDD)	The specifications outline the NVR hardware, but there is no specific mention of the required Video Retention Period (e.g., 30 days, 60 days, 90 days) at specific resolutions and frame rates (e.g., 5MP @ 25 FPS). Please define the required storage retention period so all bidders size the HDD storage capacity (Items 6 & 7) on a level playing field.	The Retention period will be as per NVR capacity
418	42,45	Clause 4.1.1 & Annexure 16, Item 30	The RFP lists 21 distinct Mines/Camps. The BOQ requests "15 Nos" of AI Analytics Servers.	There is a mismatch between the 21 deployment locations and the 15 AI Servers requested. Please clarify the distribution architecture. Are some remote camps expected to stream video over the WAN to a centralized AI server?	All the locations shall be integrated to 15 CCC already available.
419	45,100	Annexure 16, Items 23 & 24	"1 KVA UPS (inbuilt battery)" and "2 KVA UPS" specifications.	The specifications outline the electrical parameters for the UPS units but do not state the required Battery Backup Duration (e.g., 30 minutes, 2 hours, 4 hours). Please define the required backup time at full load	Minimum 30 Minutes backup.
420	12,49	Clause 6.1 & Clause 7.3	The solution will leverage OMC's existing fiber-optic (OFC) backbone..." and "Communications Network- Availability... SLA Requirement 99%".	Since the new CCTV system will ride on OMC's existing OFC backbone, the vendor has no control over its uptime. Please explicitly confirm that any downtime or SLA breach caused by the failure of OMC's existing OFC backbone, existing network switches, or grid power outages will be completely excluded from the SLA penalty calculations.	Already there is the DTCN.
421	42	Clause 4.1.2	"Design integration plans with existing Command & Control Centers at Mines, ROs, and HO."	Please provide details of the hardware and software currently running at the existing Command & Control Centers. Will the successful bidder be provided with the necessary APIs/SDKs free of cost to integrate the new VMS with the existing systems, or is the new VMS expected to run as a parallel, standalone system on new displays?	Existing display shall be utilized for camera feed viewing.

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422	51	Clause 8.3	"Operation and Comprehensive maintenance support payment will be based on number of CCTV cameras working as per SLA clause."		A camera might be non-operational due to factors beyond the vendor's control (e.g., pole damaged by a mining dumper, OMC power failure, or OMC fiber cut). We request you to modify this to: "...based on the number of CCTV cameras working, excluding downtime caused by third-party damage, force majeure, or lack of site power/network provided by OMC."	"...based on the number of CCTV cameras working, excluding downtime caused by third-party damage, force majeure, or lack of site power/network provided by OMC."
423	12	Clause 7.1 (Technical Criteria)	"Similar completed Services" shall mean Supply, installation of CCTV Surveillance System with/without AMC		Bidders often execute large-scale composite/turnkey IT infrastructure projects (e.g., Smart City, Campus Networking) where IP-based CCTV surveillance is a major component. We request OMC to amend this clause to accept composite project experience, provided the bidder submits a certificate from the client or statutory auditor explicitly isolating and certifying that the value of the CCTV component within the composite project meets the financial thresholds	Tender conditions shall prevail.
424		Amount of Performance Security, 7. Eligibility Criteria	10% (Ten) of the Annual Contract value (excluding taxes) Amount shall be submitted in the shape of DD or Electronic Bank Guarantee in the format provided in Annexure 8		As per Rule No. 171 of GFR 2017, the Performance Security is required to vary between 3% to 5% of the total contract value. We therefore request that the Security Deposit provision be aligned with GFR guidelines and limited to the permissible performance security of 3%–5% of the contract value.	Tender conditions shall prevail.
425	14	7. Eligibility Criteria	Bidding in the form of a Consortium and Joint Venture are NOT allowed		With reference to the RFP, we note that prior experience in CCTV surveillance projects is a mandatory eligibility criterion and consortium participation is currently not permitted. While our organization has strong expertise in system integration and large-scale technology implementation, we do not have direct prior experience specifically in CCTV supply projects; however, we have strategic partnerships with experienced OEMs and agencies who have successfully executed similar CCTV surveillance assignments. In view of this, we kindly request the authority to consider allowing consortium or joint venture participation, wherein the consortium partner may fulfill the specific CCTV surveillance experience criteria, ensuring wider competition, specialized expertise, and successful project execution. We request your kind consideration for suitable amendment of the RFP clause	Tender conditions shall prevail.
426	16	8.7.2. Mode of Payment:	The EMD shall be payable online on the e-tender portal of Government of Odisha		Request for Bank guarantee for EMD	Tender conditions shall prevail.
427		4.4. Operation and Comprehensive Maintenance Support	Manpower details		The Manpower will work for general shift only or bidder to consider the same quantity in each shift incase round the clock operation needed. Please clarify.	Location wise in general shift
428	47	5. Delivery period	The supply, installation and commissioning shall be completed within 180 days from the date of issuance of PO.		The Contract period seems to be complex. request to kindly confirm the total contract period.	Contract period is divided into two parts for each mines. Implementation Period which is the period starting from signing of agreement to 2 months from post go live and O&M period of 5 years post implementation period

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429	47	5. Delivery period	The supply, installation and commissioning shall be completed within 180 days from the date of issuance of PO.	Considering the deployment across multiple mining locations, the stipulated completion timeline of 180 days may pose challenges due to logistics constraints, site readiness dependencies, and large-scale installation activities. We request the authority to kindly review and consider extending the project completion timeline to 240 days.	Tender conditions shall prevail.
430	16	8.7.2. Mode of Payment:	The EMD shall be payable online on the e-tender portal of Government of Odisha (www.tendersodisha.gov.in). For the avoidance of doubt, it is clarified that OMC shall not be liable to pay any interest on the EMD deposit so made and the same shall be interest free.	We request to kindly consider permitting submission of the Bid Security / Earnest Money Deposit (EMD) in the form of an Insurance Surety Bond, in accordance with Rule 212(v) of the Odisha General Financial Rules (OGFR)	Tender conditions shall prevail.
431	87	1. Bullet Camera (5 MP)	Min. Illumination Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as " Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better ", To make it generic & allow max OEMS toparticipate here	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better.
432	87	1. Bullet Camera (5 MP)	Streams Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.
433	87	1. Bullet Camera (5 MP)	Compression G.711U/A or better	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
434	87	1. Bullet Camera (5 MP)	Security Features Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	No Change.
435	87	2. Dome Camera (5 MP)	Min. Illumination Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as " Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better ", To make it generic & allow max OEMS toparticipate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
436	87	2. Dome Camera (5 MP)	Streams Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.
437	88	2. Dome Camera (5 MP)	Compression G.711U/A	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
438	88	2. Dome Camera (5 MP)	System Compatibility Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSP, AES 256 encryption, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	No Change.
439	88	3. PTZ Camera (4 MP, IP)	Audio compression G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
440	88	3. PTZ Camera (4 MP, IP)	Manual Control Speed Pan: 0.1° ~350° /s; Tilt: 0.1° ~350° /s	Too Much High speed of PAN & Tilt speed will increase the chance of motor's wear and tear, which means that the product is prone to breakage, Hence requesting you to ammend this clause as "Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better" to make it more generic & allow maximum OEM to participate in this BID	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.
441	88	3. PTZ Camera (4 MP, IP)	IR distance 250M or better	As per asked optical zoom i.e. 30x, 150m IR range is enough cover at night so you are requested to revise this clause as " Min 150m IR Range or better " to make it more generic & allow maximum OEM to participate in this BID	Min 150m IR Range or better.
442	88	3. PTZ Camera (4 MP, IP)	Network protocol IPv4/IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, ICMP, IGMP, SSL/TSL, IEEE802.1x, PPPoE, ICMP, SNMP, Unicast/ Multicast	UPnP is a networking protocol that automatically connects devices on the same network, but it also poses security risks , Hence request you to kindly remove clause to make it more generic & allow maximum OEM to participate in this BID	UPnP removed.
443	89	3. PTZ Camera (4 MP, IP)	Access protocol: ONVIF Profile S, G, T (OEM Should be member)	Different OEM's support different Onvif Profiles to meet requiriements, Hence it is requested to ammend this clause as " ONVIF Profile S/G/T " to make it more generic & allow maximum OEM to participate in this BID	Kindly refer to the revised DTCN.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
444	89	3. PTZ Camera (4 MP, IP)	Security Mode Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSPS, AES 256 encryption, Signed Firmware, Firmware encryption, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot, security logs; IP filtering	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	No Change.
445	89	3. PTZ Camera (4 MP, IP)	Protection Level IP67 & IK10 Compliant, TVS 6,000V Lightning Protection, Surge Protection and Voltage Transient Protection	It's single OEM Specific specification, generally PTZ Cameras are connected to PoE switches or PoE Adapter, which should support surge protection, So kindly remove this clause or ammend it as :- camera should support IP67 & IK10 protection, To make it generic & allow max OEMS to participate here Can include external protection devices under different BOQ line item	Camera should support IP67 & IK10 protection.
446	89	3. PTZ Camera (4 MP, IP)	Power supply DC24V/1.5A (±10%), PoE+ (802.3at)	The power supply of PTZ varies depending upon the power source selection by OEM, hence request to revise it to " Power Supply - 12VDC/24VDC/24VAC/36VDC/48VDC/PoE/802.3 bt/802.3 at "To make it generic & allow max OEMS to participate here	12-24 VDC/PoE/802.3 bt/802.3 at.
447	89	4. 128 Channel NVR	Processor: Quad-core Embedded processor	By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Quad-core Embedded processor or equivalent industrial grade processor capable of handling the specified function without latency or frame loss.
448	89	4. 128 Channel NVR	Audio Format G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AA C/MP2L2/PCM.
449	89	4. 128 Channel NVR	Protocols IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in proposed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard,Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	"IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P,".

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
450	90	5. 32 channel NVR	Processor Quad-core Embedded processor or better	By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Quad-core Embedded processor or equivalent industrial grade processor capable of handling the specified function without latency or frame loss.
451	90	5. 32 channel NVR	Audio Format G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AA C.
452	90	5. 32 channel NVR	Protocols IPv4,IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in propossed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard,Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	"IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P,".
453		Features (Sl. No. i)	16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x Combo (SFP/RJ-45) 1G Ports.	We request to amend the specification to: "Support 24-Port L2 Managed PoE+ Switch with 4 x 1G Slots for Combo port additional base T SFP proposed."	Kindly refer to the revised DTCN.
454		Performance & Management (Sl. No. ii & v for 16-Port)	Performance: Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch.	We request to omit the requirement for an "Inbuilt RPS for secondary power" for the 16-port switch.	Kindly refer to the revised DTCN.
455		Performance & Management (Sl. No. ii & v for 16-Port)	IPv4 / IPv6 IP Interfaces, default routing, static routing with Min. 100 IPv4 static route entries & Min. 50 IPv6 static route entries.	We request to reduce the static route requirement to: "support 32 (IPv4, IPv6) static routes" .	Kindly refer to the revised DTCN.
456		Features (Sl. No. i for 8-Port)	8 x 1G RJ-45 PoE Gigabit Ethernet Ports & additional 2 x 1G SFP Uplink Ports. Associated Spec: Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch.	We request to omit the requirement for an "Inbuilt RPS for secondary power" for the 8-port switch.	Kindly refer to the revised DTCN.
457		Layer 2 features (Sl. No. iii)	IPv4 / IPv6 IP Interfaces, default routing, static routing with Min. 100 IPv4 static route entries & Min. 50 IPv6 static route entries.	We request to reduce the static route requirement to: "support 32 (IPv4, IPv6) static routes" .	Kindly refer to the revised DTCN.
458	89	Annexure 16: Specifications 4. 128 Channel NVR	Alarm Input 16 CH Alarm Output 4 CH	The current specification of Alarm Input: 16 Channels and Alarm Output: 4 Channels for the 128-Channel NVR exceeds the actual project requirements. Based on system design and site needs, only 8 Alarm Inputs and 2 Alarm Outputs are required for integration with existing alarm devices and control triggers. Reducing the alarm I/O capacity to 8 In / 2 Out is sufficient to support all planned alarm points while optimizing cost, avoiding unused ports, and maintaining system efficiency. The 128-channel recording capacity remains unaffected, as the alarm I/O count is independent of camera channel capacity.	Tender conditions shall prevail.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
459	90	Annexure 16: Specifications 5. 32 channel NVR	2 X RJ45 10M/100M/1000M adaptive Ethernet port	The current specification of 2 × RJ45 10M/100M/1000M adaptive Ethernet ports for the 32-channel NVR exceeds the actual network design requirements. Based on the system architecture, a single network connection is sufficient to handle camera bandwidth, remote access, and integration with the existing LAN infrastructure. Considering the expected traffic load and deployment environment, 1 × RJ45 10M/100M/1000M adaptive Ethernet port is adequate for stable and efficient operation. Reducing to one port optimizes cost and avoids unused network interfaces without affecting system performance or functionality.	No change.
460	13	7	The Bidder should have valid PAN and GSTIN registration on the date of submission of the Bid.	The Bidder should have - 1) Valid PAN and GSTIN registration 2) Min. CMMi Level 3 (verifiable on the CMMi website: https://cmminstitute.com/pars), certified company at least for one year. as on date of bidding. All connectivity solutions and related equipment must comply with applicable global standards and certifications including CE, UKCA, RCM, MTC, CB, and GCF to ensure safety, interoperability, and regulatory compliance. Supporting documents shall be submitted as proof of compliance.	Tender conditions shall prevail.
461	87	Annexure 16: Specifications	Point to be Added	The bidder shall establish a dedicated Help Desk at its own premises to receive, log, monitor, and resolve all complaints and service requests raised by the Purchaser and shall provide a secure VPN device/solution to ensure protected communication between the Purchaser and the Help Desk, complying with industry-standard encryption and data protection mechanisms. The bidder shall ensure that no confidential, sensitive, or operational data of the Purchaser is accessed, stored, shared, or leaked in any manner, shall be fully responsible for maintaining confidentiality, and shall execute a Non-Disclosure Agreement (NDA).	No Change.
462	5	Earnest Money Deposit (EMD)	INR 6,50,000/- (Rupees Six Lakh fifty thousand only) Payable online on the e-tender portal of Government of Odisha (www.tendersodisha.gov.in)	The tender document mentions that the Earnest Money Deposit (EMD) amount of INR 6,50,000/- is payable online on the e-tender portal of Government of Odisha (www.tendersodisha.gov.in). As per the Government e-Procurement guidelines, bidders may upload a Bank Guarantee also submit the physical EMD document for verification. Additionally, Bank Guarantees are recognized as valid financial security instruments widely used in tenders so requesting you to please allow the Bank Guarantee.	Tender conditions shall prevail.
463	5	EMD Clause	EMD only online; BG allowed not mentioned.	Request acceptance of Bank Guarantee to reduce financial burden and ease cashflow.	Tender conditions shall prevail.
464	50	Payment Terms	Payment heavily backloaded; high working capital impact.	Request 70% payment on supply delivery, 20% on installation, 10% on Go-Live.	Tender conditions shall prevail.
465	48	LD	2% per month up to 10% very harsh.	Request LD cap at 5% and apply only on delayed portion, not entire contract.	Tender conditions shall prevail.
466	49	SLA Penalty	Penalties cumulative and unlimited.	Request monthly penalty cap = max 5% of monthly O&M invoice.	Tender conditions shall prevail.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
467	-	Limitation of Liability	No LoL clause; unlimited liability risk.	Limit liability to total contract value; exclude indirect losses.	Tender conditions shall prevail.
468	74	Indemnity	Indemnity unlimited and covers all losses.	Cap indemnity to contract value and exclude consequential damages.	Tender conditions shall prevail.
469	50	Warranty	Warranty start date unclear.	Warranty should start from site Go-Live, not supply date.	Warranty shall be from site Go-Live
470	47	Manpower	3 manpower for large geography impractical.	Allow bidder to propose optimized manpower model based on real need.	Tender conditions shall prevail.
471	49	SLA Device Uptime	98%-99% uptime unrealistic for mining sites.	Relax uptime requirement to 95% considering field conditions.	Tender conditions shall prevail.
472	22	Performance Security	10% PS heavy burden.	Reduce PS to 3% or allow BG submitted yearly based on annual O&M value.	Tender conditions shall prevail.
473	31-32	Subcontracting / Outsourcing – Clause 11	RFP prohibits subcontracting; project requires wide-area execution.	Request permission to engage authorized service partners for installation, civil works, OFC laying & O&M, with bidder retaining full responsibility.	Shall be permitted after placement of order.
474	13	7.1 Technical Eligibility Criteria	Applicable 5 (five) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e. FY 2020-21, FY 2021-22, FY 2022-23, FY 2023-24 and FY 2024-25)	Request you to kindly provide the bidder's PO for similar work experience up to April 2025.	Kindly refer revised Tender
475	87	Annexure 16: Specifications 1. Bullet Camera (5 MP)	Min. Illumination Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly amend this clause as "Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better", To make it generic & allow max OEMS to participate here	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better.
476	87	Annexure 16: Specifications 1. Bullet Camera (5 MP)	Streams: Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions." To make it generic & allow max OEM'S to participate here	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.
477	87	Annexure 16: Specifications 1. Bullet Camera (5 MP)	Compression: G.711U/A or better	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to amend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
478	87	Annexure 16: Specifications 1. Bullet Camera (5 MP)	Security Features: Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	No Change.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
479	87	Annexure 16: Specifications 2. Dome Camera (5 MP)	Min. Illumination Colour: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR	Request you to kindly ammend this clause as " Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better ", To make it generic & allow max OEMS to participate here	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better.
480	87	Annexure 16: Specifications 2. Dome Camera (5 MP)	Streams: Quad Individual configurable Stream and all stream should work at H.265 Compression. Two stream should work 1080@25 FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.
481	88	Annexure 16: Specifications 2. Dome Camera (5 MP)	Compression G.711U/A	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
482	88	Annexure 16: Specifications 2. Dome Camera (5 MP)	System Compatibility: ONVIF Profile S, G, M & T (OEM Should be member)	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	No Change.
483	88	Annexure 16: Specifications 2. Dome Camera (5 MP)	Certification CE,FCC,BIS, RoHS, STQC ER.	In Annexure 16, Page 88, the technical specifications of the 5 MP Dome Camera do not mention any requirement for STQC certification or any other specific mandatory certification apart from the general parameters provided. Since the specification sheet does not indicate STQC/ER certification or any additional compliance criteria, we request OMC to kindly clarify whether any such certification is required for the 5 MP Dome Camera. We further request confirmation that only the listed technical specifications will be considered for evaluation and that no additional certifications—such as STQC/ER—will be treated as mandatory unless explicitly stated in the tender document.	STQC/ER.
484	88	Annexure 16: Specifications 3. PTZ Camera (4 MP, IP)	Audio compression G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
485	88	Annexure 16: Specifications 3. PTZ Camera (4 MP, IP)	Manual Control Speed: Pan: 0.1° ~350° /s; Tilt: 0.1° ~350° /s	Too Much High speed of PAN & Tilt speed will increase the chance of motor's wear and tear, which means that the product is prone to breakage, Hence requesting you to ammend this clause aar	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
486	88	Annexure 16: Specifications 3. PTZ Camera (4 MP, IP)	IR distance 250M or better	As per asked optical zoom i.e. 30x, 150m IR range is enough cover at night so you are requested to revise this clause as " Min 150m IR Range or better " to make it more generic & allow maximum OEM to participate in this BID	Min 150m IR Range or better.
487	88	Annexure 16: Specifications 3. PTZ Camera (4 MP, IP)	Network protocol: IPv4/IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, ICMP, IGMP, SSL/TSL, IEEE802.1x, PPPoE, ICMP, SNMP, Unicast/ Multicast	UPnP is a networking protocol that automatically connects devices on the same network, but it also poses security risks , Hence request you to kindly remove clause to make it more generic & allow maximum OEM to participate in this BID	Removed UPnP
488	88	Annexure 16: Specifications 3. PTZ Camera (4 MP, IP)	Access protocol: ONVIF Profile S, G, T (OEM Should be member)	Different OEM's support different Onvif Profiles to meet requirements, Hence it is requested to ammend this clause as " ONVIF Profile S/G/T " to make it more generic & allow maximum OEM to participate in this BID	Kindly refer to the revised DTCN.
489	89	Annexure 16: Specifications 3. PTZ Camera (4 MP, IP)	Security Mode: Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSPS, AES 256 encryption, Signed Firmware, Firmware encryption, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot, security logs; IP filtering	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	No Change.
490	89	Annexure 16: Specifications 3. PTZ Camera (4 MP, IP)	Protection Level: IP67 & IK10 Compliant, TVS 6,000V Lightning Protection, Surge Protection and Voltage Transient Protection	It's single OEM Specific specification, generally PTZ Cameras are connected to PoE switches or PoE Adapter, which should support surge protection, So kindly remove this clause or ammend it as :- camera should support IP67 & IK10 protection, To make it generic & allow max OEMS to participate here Can include external protection devices under different BOQ line item	Camera should support IP67 & IK10 protection.
491	89	Annexure 16: Specifications 3. PTZ Camera (4 MP, IP)	Power supply: DC24V/1.5A (±10%), PoE+ (802.3at)	The power supply of PTZ varies depending upon the power source selection by OEM, hence request to revise it to " Power Supply - 12VDC/24VDC/24VAC/36VDC/48VDC/PoE/802.3 bt/802.3 at " To make it generic & allow max OEMS to participate here	12-24 VDC/PoE/802.3 bt/802.3 at.
492	89	Annexure 16: Specifications 3. PTZ Camera (4 MP, IP)	Certification CE, FCC, BIS, RoHS, STQCs ER.	We request clarification regarding the requirement mentioned on Page No. 89 for the 4 MP PTZ Camera certifications, specifically the STQC ER certificate. STQC ER testing for PTZ models is currently under process at STQC labs, and the issuance timelines depend on the testing cycle and lab workload. Therefore, we kindly request the department to allow us to submit the STQC ER Certificate at the time of delivery instead of at the time of bid submission. All other required certifications such as CE, FCC, BIS, and RoHS will be submitted along with the bid. This relaxation will ensure wider participation without compromising compliance, as the STQC ER certificate will be mandatorily provided before supply and installation.	STQC ER shall be considered.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
493	89	Annexure 16: Specifications 4. 128 Channel NVR	Processor: Quad-core Embedded processor	By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Quad-core Embedded processor or equivalent industrial grade processor capable of handling the specified function without latency or frame loss.
494	89	Annexure 16: Specifications 4. 128 Channel NVR	Audio Format G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM.
495	89	Annexure 16: Specifications 4. 128 Channel NVR	Protocols IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in propossed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard,Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
496	90	Annexure 16: Specifications 5. 32 channel NVR	Processor Quad-core Embedded processor or better	By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Quad-core Embedded processor or equivalent industrial grade processor capable of handling the specified function without latency or frame loss.
497	90	Annexure 16: Specifications 5. 32 channel NVR	Audio Format G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AAC.
498	90	Annexure 16: Specifications 5. 32 channel NVR	Protocols: IPv4,IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in propossed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard,Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	"IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P,".
499	46	Tentative Supply Items (Part of Price Bid) Pt No: 31	Supply, installation testing & Commissioning of AI Analytics Software as per the specifications provided in Annexure 16	Please share the number of cameras and respective Video Analytics use cases site-wise so that we can calculate the server sizing accordingly.	Kindly refer to the revised DTCN.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
500	106	2. VMS Application Central Video Management Software Technical & Functional Specifications Pt No: 4	The Offered Central VMS Software should be ONVIF S, G, T & M Profile Compliant & should be a Full ONVIF Member. Central VMS OEM to Submit a Valid Certificate to Substantiate the Proof.	There are five types of memberships packages are available with ONVIF. membership status has no impact on the functional performance or interoperability of the VMS solution. Complying with ONVIF S, G, T & M profiles and verification on ONVIF Official Website www.onvif.org in the Conformant Devices along with any Membership certificate can suffice the purpose. Further, ONVIF has also confirmed that the level of membership does not affect the functionality or technical capabilities of a VMS solution. Kindly amend the clause to ensure maximum OEMs participation complying with ONVIF S, G, T & M Profile Compliant and available on ONVIF Official Website www.onvif.org . The Offered Central VMS Software should be ONVIF S, G, T & M Profile Compliant. Central VMS OEM to Submit a Valid Certificate to Substantiate the Proof.	Kindly refer to the revised DTCN.
501	87	1. Bullet Camera (5 MP)	Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly amend this clause as " Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better ", To make it generic & allow max OEMs to participate here	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better.
502	87	1. Bullet Camera (5 MP)	Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions." To make it generic & allow max OEM'S to participate here	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.
503	87	1. Bullet Camera (5 MP)	G.711U/A or better	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to amend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMs to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
504	87	1. Bullet Camera (5 MP)	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	No Change.
505	87	2. Dome Camera (5 MP)	Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly amend this clause as " Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better ", To make it generic & allow max OEMs to participate here	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
506	87	2. Dome Camera (5 MP)	Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here	"The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."
507	88	2. Dome Camera (5 MP)	G.711U/A	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
508	88	2. Dome Camera (5 MP)	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSP, AES 256 encryption, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	No Change.
509	88	3. PTZ Camera (4 MP, IP)	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
510	88	3. PTZ Camera (4 MP, IP)	Pan: 0.1° ~350° /s; Tilt: 0.1° ~350° /s	Too Much High speed of PAN & Tilt speed will increase the chance of motor's wear and tear, which means that the product is prone to breakage, Hence requesting you to ammend this clause as "Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better" to make it more generic & allow maximum OEM to participate in this BID	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.
511	88	3. PTZ Camera (4 MP, IP)	250M or better	As per asked optical zoom i.e. 30x, 150m IR range is enough cover at night so you are requested to revise this clause as " Min 150m IR Range or better " to make it more generic & allow maximum OEM to participate in this BID	"Min 150m IR Range or better".
512	88	3. PTZ Camera (4 MP, IP)	IPv4/IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, ICMP, IGMP, SSL/TSL, IEEE802.1x, PPPoE, ICMP, SNMP, Unicast/ Multicast	UPnP is a networking protocol that automatically connects devices on the same network, but it also poses security risks . Hence request you to kindly remove clause to make it more generic & allow maximum OEM to participate in this BID	Removed UPnP
513	89	3. PTZ Camera (4 MP, IP)	ONVIF Profile S, G, T (OEM Should be member)	Different OEM's support different Onvif Profiles to meet requirements, Hence it is requested to ammend this clause as " ONVIF Profile S/G/T " to make it more generic & allow maximum OEM to participate in this BID	Kindly refer to the revised DTCN.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
514	89	3. PTZ Camera (4 MP, IP)	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSPS, AES 256 encryption, Signed Firmware, Firmware encryption, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot, security logs; IP filtering	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	No Change.
515	89	3. PTZ Camera (4 MP, IP)	IP67 & IK10 Compliant, TVS 6,000V Lightning Protection, Surge Protection and Voltage Transient Protection	It's single OEM Specific specification, generally PTZ Cameras are connected to PoE switches or PoE Adapter, which should support surge protection, So kindly remove this clause or amend it as :- camera should support IP67 & IK10 protection, To make it generic & allow max OEMS to participate here Can include external protection devices under different BOQ line item	Camera should support IP67 & IK10 protection.
516	89	3. PTZ Camera (4 MP, IP)	DC24V/1.5A (±10%), PoE+ (802.3at)	The power supply of PTZ varies depending upon the power source selection by OEM, hence request to revise it to " Power Supply - 12VDC/24VDC/24VAC/36VDC/48VDC/PoE/802.3 bt/802.3 at " To make it generic & allow max OEMS to participate here	12-24 VDC/PoE/802.3 bt/802.3 at.
517	89	4. 128 Channel NVR	Quad-core Embedded processor	By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Quad-core Embedded processor or equivalent industrial grade processor capable of handling the specified function without latency or frame loss.
518	89	4. 128 Channel NVR	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to amend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM.
519	89	4. 128 Channel NVR	IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in proposed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard, Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.

Sl. No.	Page No.	Clause No.	Clause Description		Clarification Sought	Reply
520	90	5. 32 channel NVR	Quad-core Embedded processor or better		By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Quad-core Embedded processor or equivalent industrial grade processor capable of handling the specified function without latency or frame loss.
521	90	5. 32 channel NVR	G.711u		Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AA C.
522	90	5. 32 channel NVR	IPv4,IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP		FTP is camera feature should support in proposed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard.Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	"IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P,".
523	91	Clause No. (ii) Features : Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch		We request to please remove RPS. 8 Port is small form-factor and not available with RPS . Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
524	91	Clause No. (iii) Layer 2 Features : Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Support Jumbo Frame up to 10K Bytes or higher.		We request you to kindly amend this as " Support Jumbo Frame up to 9K Bytes or higher ". 9K Bytes is standard and available with all the leading OEM's .	"Support Jumbo Frame up to 9K Bytes or higher".
525	91	Clause No. (v) Security Features : Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Require prevention of DoS attacks, which include Land, Blat, TCP Null Scan, TCP Xmas Scan & TCP SYNFIN.		We request you to kindly amend this as " Require prevention of DoS attacks ".	Require prevention of DoS attacks.
526	91	Clause No. (iv) Management : Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Able to manage trough Web-GUI, Compact CLI and Telnet.		We request you to kindly amend this as" Able to manage trough Web-GUI, Compact CLI and Telnet/ssh ". SSh is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
527	92	Clause No. (iv) Management : Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch		We request you to kindly remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
528	92	Clause No. (i) Features : Layer 2 PoE Manageable Gigabit Switch - 16 Port	16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x Combo (SFP/RJ-45) 1G Ports.		We request you to kindly amend this as " 16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x1G SFP ports(populated with RJ45 modules as per needs) ".	16 x RJ-45 PoE Gigabit Ethernet Ports and minimum 4 x 1G uplink ports supporting SFP / RJ-45 connectivity (combo or equivalent).
529	92	Clause No. (iii) Layer 2 Features : Layer 2 PoE Manageable Gigabit Switch - 16 Port	Support Jumbo Frame up to 10K Bytes or higher.		We request you to kindly amend this as " Support Jumbo Frame up to 9K Bytes or higher ". 9K Bytes is standard anad available with all the leading OEM's .	"Support Jumbo Frame up to 9K Bytes or higher".

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530	92	Clause No. (ii) Performance : Layer 2 PoE Manageable Gigabit Switch - 16 Port	Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN
531	93	Clause No. (v) Management : Layer 2 PoE Manageable Gigabit Switch - 16 Port	Able to manage trough Web-GUI, Compact CLI and Telnet.	We request you to kindly amend this as " Able to manage trough Web-GUI, Compact CLI and Telnet/ssh ". SSh is more secure than telnet.	Able to manage trough Web-GUI, Compact CLI and Telnet/ssh.
532	93	Clause No. (v) Management : Layer 2 PoE Manageable Gigabit Switch - 16 Port	Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch	We request you to kindly remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations . Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
533	93	Clause No. (iv) Features : Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection	MAC Address Table: 16K and 1.5 Mbits Packet Buffer.	We request you to kindly amend this as " MAC Address Table: 8K and 4MB Packet Buffer ".	MAC Address Table: 8K and 1.5 Mbits Packet Buffer or better.
534	94	Point no. 1 Minimum Specification : 8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port	Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 4 x 1GE Uplink port.	We request you to kindly amend this as " Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 2 x 1GE Uplink port " for wider OEM participations.	"Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and minimum 2 x 1GE Uplink port".
535	94	Point no. 16 Minimum Specification : 8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port	Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock	We request you to kindly amend this as " Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP ".	Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP.
536	94	Point no. 18 Minimum Specification : 8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port	Switch should have Dual redundant DC power supply inputs 12 to 55 VDC with reverse polarity protection. Dual redundant power supply from Day 1	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to the revised DTCN.
537	103	Point no. 1 30. AI Analytics Server : 32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card-2, Linux UBUNTU 20 or better with 3 years warranty	Kindly revise as: Total 32 Core in Single or Dual CPU configuration, Intel Xeon Or AMD EPYC, minimum 5th Gen CPU, 2.3GHz or better, 128 GB RAM, 1 TB SAS HDD & 480 GB SSD - both in RAID1 or higher, 2 x NVIDIA L4 GPU cards, EAL2 or higher cyber security certification, Security bezel with lock, perpetual system management licenses, 2 x 10G BaseT, Linux UBUNTU 20 or better with 3 years warranty	Server spec is non-configurable 'though very short as published here and missing key parameters", We request you to kindly revise in complete for configurable options such as: Minimum 5th Gen CPU from Intel or AMD, minimum RAM to support asked GPU cards, HDD/SSD capacity as per industry availability, cyber-security compliances, minimum network ports etc.	Kindly refer to the revised DTCN.
538	103	Point no. 1 30. AI Analytics Server : Request for addition	Kindly append the following to the AI server spec: "RAID controller, Minimum 4GB or higher non-volatile cache supporting RAID 1, 5, 6, 10"	Please provide the RAID controller specification , it's missing in the RFP	Kindly refer to the revised DTCN.
539	103	Point no. 1 30. AI Analytics Server : Request for addition	Kindly append the following to the AI server spec: "1 x 1Gbps system management port (RJ-45), 1 x video port, 4 x USB 3.0 ports"	Please provide the important ports and interfaces specification , are missing.	Kindly refer to the revised DTCN.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
540	103	Point no. 1 30. AI Analytics Server : Request for addition	Kindly append the following to the AI server spec: "Memory RAS features such as Fast fault tolerance or equivalent" "1 x 1Gbps system management port (RJ-45), 1 x video port, 4 x USB 3.0 ports"	Please provide the Memory RAS specification missing.	Kindly refer to the revised DTCN.
541	87	Annexure: 16 Bullet Camera (5 MP) : Bullet Camera (5 MP) Min. Illumination	Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as " Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better ", To make it generic & allow max OEMS toparticipate here	"Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better".
542	87	Annexure: 16 Bullet Camera (5 MP) : Bullet Camera (5 MP) Streams	Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here	The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.
543	87	Annexure: 16 Bullet Camera (5 MP) : Bullet Camera (5 MP) Compression	G.711U/A or better	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
544	87	Annexure: 16 Bullet Camera (5 MP) : Bullet Camera (5 MP) Security Features	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines.	No Change.
				Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	Kindly refer to the revised DTCN.
545	87	Annexure: 16 Dome Camera (5 MP) : Dome Camera (5 MP) Min. Illumination	Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as " Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better ", To make it generic & allow max OEMS toparticipate here	Kindly refer to the revised DTCN.
546	87	Annexure: 16 Dome Camera (5 MP) : Dome Camera (5 MP) Streams	Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs.	"The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."
				Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing.	Kindly refer to the revised DTCN.
				Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here	Kindly refer to the revised DTCN.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
547	88	Annexure: 16 Dome Camera (5 MP) : Dome Camera (5 MP) Compression	G.711U/A	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
548	88	Annexure: 16 Dome Camera (5 MP) : Dome Camera (5 MP) System Compatibility	Authorized username and password, HTTPS with password, HTTPS	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines.	No Change.
			digest authentication, Watermark/OSD, RTSP, AES 256 encryption, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot	Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	Kindly refer to the revised DTCN.
549	88	Annexure: 16 PTZ Camera (4 MP, IP) : PTZ Camera (4 MP, IP) Audio compression	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
550	88	Annexure: 16 PTZ Camera (4 MP, IP) : PTZ Camera (4 MP, IP) Manual Control	Pan: 0.1° ~350° /s; Tilt: 0.1° ~350° /s	Too Much High speed of PAN & Tilt speed will increase the chance of motor's wear and tear, which means that the product is prone to breakage, Hence requesting you to ammend this clause as " Pan speed: configurable from 0.1° to 160°/s or better;	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.
		Annexure: 16 PTZ Camera (4 MP, IP) : Speed		Tilt speed: configurable from 0.1° to 120°/s or better" to make it more generic & allow maximum OEM to participate in this BID	Kindly refer to the revised DTCN.
551	88	Annexure: 16 PTZ Camera (4 MP, IP) : PTZ Camera (4 MP, IP) IR distance	250M or better	As per asked optical zoom i.e. 30x, 150m IR range is enough cover at night so you are requested to revise this clause as " Min 150m IR Range or better " to make it more generic & allow maximum OEM to participate in this BID	"Min 150m IR Range or better".
552	88	Annexure: 16 PTZ Camera (4 MP, IP) : PTZ Camera (4 MP, IP) Network protocol	IPv4/IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, ICMP, IGMP, SSL/TSL, IEEE802.1x, PPPoE, ICMP, SNMP, Unicast/ Multicast	UPnP is a networking protocol that automatically connects devices on the same network, but it also poses security risks , Hence request you to kindly remove clause to make it more generic & allow maximum OEM to participate in this BID	UPnP removed.
553	89	Annexure: 16 PTZ Camera (4 MP, IP) : PTZ Camera (4 MP, IP) Access protocol	ONVIF Profile S, G, T (OEM Should be member)	Different OEM's support different Onvif Profiles to meet requiriements, Hence it is requested to ammend this clause as " ONVIF Profile S/G/T " to make it more generic & allow maximum OEM to participate in this BID	ONVIF Profile S/G/T.
554	89	Annexure: 16 PTZ Camera (4 MP, IP) : PTZ Camera (4 MP, IP) Security Mode	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSPS, AES 256 encryption, Signed Firmware, Firmware encryption, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware,	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines.	Kindly refer to the revised DTCN.
			Hardware Secure Boot, security logs; IP filtering	Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	Kindly refer to the revised DTCN.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
555	89	Annexure: 16 PTZ Camera (4 MP, IP) : PTZ Camera (4 MP, IP) Protection Level	IP67 & IK10 Compliant, TVS 6,000V Lightning Protection, Surge Protection and Voltage Transient Protection	It's single OEM Specific specification, generally PTZ Cameras are connected to PoE switches or PoE Adapter, which should support surge protection, So kindly remove this clause or ammend it as :- camera should support IP67 & IK10 protection, To make it generic & allow max OEMS to participate here Can include external protection devices under different BOQ line item	Camera should support IP67 & IK10 protection.
556	89	Annexure: 16 PTZ Camera (4 MP, IP) : PTZ Camera (4 MP, IP) Power supply	DC24V/1.5A (±10%), PoE+ (802.3at)	The power supply of PTZ varies depending upon the power source selection by OEM, hence request to revise it to " Power Supply - 12VDC/24VDC/24VAC/36VDC/48VDC/PoE/802.3 bt/802.3 at "To make it generic & allow max OEMS to participate here	12-24 VDC/PoE/802.3 bt/802.3 at.
557	89	Annexure: 16 128 Channel NVR Processor : 128 Channel NVR Processor	Quad-core Embedded processor	By Specifying this clause "Quad Core processor" currently limits healthy competition.	Quad-core Embedded processor or equivalent industrial grade processor capable of handling the specified function without latency or frame loss.
				Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics.	Kindly refer to the revised DTCN.
				We request to ammend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: " The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss "	Kindly refer to the revised DTCN.
558	89	Annexure: 16 128 Channel NVR Processor : 128 Channel NVR Audio Format	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AA C/MP2L2/PCM.
559	89	Annexure: 16 128 Channel NVR Processor : 128 Channel NVR Protocols	IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in proposed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard, Hence request to ammend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
560	90	Annexure: 16 128 Channel NVR Processor : 128 Channel NVR Processor	Quad-core Embedded processor or better	By Specifying this clause "Quad Core processor" currently limits healthy competition.	Quad-core Embedded processor or equivalent industrial grade processor capable of handling the specified function without latency or frame loss.
				Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics.	G.711ulaw/G.711alaw/G.722/G.726/AA C.
				We request to ammend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: " The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss "	"IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P,".

Sl. No.	Page No.	Clause No.	Clause Description		Clarification Sought	Reply
561	90	Annexure: 16 128 Channel NVR Processor : 128 Channel NVR Audio Format	G.711u		Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to amend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AA C.
562	90	Annexure: 16 128 Channel NVR Processor : 128 Channel NVR Protocols	IPv4,IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP		FTP is camera feature should support in proposed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard,Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	"IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P,".
563	89	Annexure: 16 128 Channel NVR Processor : 128 Channel NVR Certification	CE, FCC, BIS, RoHS, STQCs ER		We request clarification regarding the requirement for the 4 MP PTZ Camera certifications, specifically the STQC ER certificate. STQC ER testing for PTZ models is currently under process at STQC labs, and the issuance timelines depend on the testing cycle and lab workload. Therefore, we kindly request the department to allow us to submit the STQC ER Certificate at the time of delivery instead of at the time of bid submission. This relaxation will ensure wider participation without compromising compliance, as the STQC ER certificate will be mandatorily provided before supply and installation.	Kindly refer to the revised DTCN.
564	42	4.2. Supply of Equipment	Clause 4 Supply, installation testing & Commissioning of 128 Channel NVR with as per the specifications provided in Annexure 16: 4 Nos		Recommending using VMS Servers instead of NVR	Kindly refer to the revised DTCN.
565	46	4.3. Installation & Configuration : PPE Kit Violation Detection	PPE Kit Violation Detection		Request to define colours of PPE Kits like Safety Jacket/High Visibility Reflective Jacket and Helmets for optimum performance and differentiation.	Multiple colours.
566	46	4.3. Installation & Configuration	Implement centralized monitoring through NVR-based VMS and AI software supporting:		Recommending using VMS Servers instead of NVR	NVR or VMS Servers.
567	87	Annexure 16: Specifications 1. Bullet Camera (5 MP)	1. Bullet Camera (5 MP)		Kindly Include Certification CE,FCC,BIS, RoHS, STQC ER.	Certification CE,FCC,BIS, RoHS, STQC ER.
568	104	31. AI Analytics Software AI Based Video Analytics Software	Clause 18 The system should Classify a Person/Human in real time Live Video Stream & detect if		Request to define colours of PPE Kits like Safety Jacket/High Visibility Reflective Jacket. and Helmets for optimum performance and differentiation.	Multiple colours.
569	104	31. AI Analytics Software AI Based Video Analytics Software escalated as per desired level.	Clause 20 The System should detect the respective Configured PPE on the Configured Live Stream and Send Alerts if a Person is found to be Violating the PPE Safety measures. To be escalated as per desired level.		Need Escalation Matrix Data	2 Stage escalation, shall be finalized during SRS.
570	104 & 106	31. AI Analytics Software AI Based Video Analytics Software 32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause		The VMS & VA should be STQC Certified. The VMS should be STQC Certified for thick client, mobile client(both android and IOS) & web client . Required certification has to be shared	Tender conditions shall prevail.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
571	104 & 106	31. AI Analytics Software AI Based Video Analytics Software 32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause	The offered VMS must be cyber security certified with FIPS-140-2 & FIPS 140-3 encryption from Indian body for mitigating cyber security risk. The FIPS-140-2 & FIPS 140-3 Certification should be done on or before the Bid Publishing Date. A Valid Certificate for FIPS-140-2 & FIPS 140-3 for the VMS Application to be Submitted as Proof.	Tender conditions shall prevail.
572	106 & 107	32. VMS Application Central Video Management Software Technical & Functional Specifications Mobile Surveillance & Remote Viewing Parameters	Clause 6 The Central VMS shall support iPad, Android and iPhone devices & shall also support web clients. Clause 21 Ability to view live video on iOS and Android phones or devices with or without installing proprietary Apps.	The VMS should be STQC Certified for thick client, mobile client(both android and IOS) & web client . Required certification has to be shared	Tender conditions shall prevail.
573	106	32. VMS Application Central Video Management Software Technical & Functional Specifications	Clause 3 The Central Video Management Software shall be Client-Server based IP Video security solution that shall provide seamless management of Digital Video, Audio and data across an IP network. Video from sites shall be possible to view from single or numerous workstations simultaneously at any time. Cameras and viewing stations may be placed across the terminal in the IP network.	Requesting Additional Clause The VMS should provide the collaborative vigilance function among the mobile operators. It should be possible for the operators to view the fellow mobile operators in the vicinity and connect with them to share information, chat, video calls, etc through appropriate solution. The functionality should have been deployed in at least one project. The OEM should give details of the installation and the project as a part of the declaration.	Tender conditions shall prevail.
574	107	32. VMS Application Central Video Management Software Technical & Functional Specifications	Streaming Parameters 27 Authentication parameters (username, password) for streaming to remote clients. The Offered Central VMS must support the Following features when Connected with Third Party DVR's & NVR's	Recommending using VMS Servers instead of NVR	NVR/VMS Server.
575	106	32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause	OEM supplying the Video Management System should have supplied / operated the VMS for at least 50 projects as on last date of submission of bid. OEM shall submit documental evidence of work order / agreement to the System Integrator mentioning the relevant scope of Work along with invoice/s raised to the System Integration for the same project by OEM.	Tender conditions shall prevail.
576	106	32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause	The Video surveillance OEM must be listed in the IHS/Informa, OMDIA ranking of the top 3 VMS providers in Asia.	Tender conditions shall prevail.
577	106	32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause	The average annual turnover of the VMS/VA/TMS OEM should be minimum Rs.60 Crores during last 3 financial years i.e 2021 2022, 2022-2023, 2023-2024. CA certificate for turnover as mentioned in the criteria. Audited Balance sheets from company Statutory Auditor/ CA from OEM & financial data of the last three years.	Tender conditions shall prevail.
578	98	Annexure: 16 43 inch display monitor : 43 inch display monitor Key Features	Internal Memory 16 GB or higher, 2 GB RAM with Built in Quad Core Processor or better.	Kindly change the clause as "Internal Memory 16 GB or higher,"	Removed 2GB RAM

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
579	98	Annexure: 16 43 inch display monitor : 43 inch display monitor operating systems	Built in Android 11 or latest version	Kindly change the clause as "Built in Android 11 or web OS"	Tender conditions shall prevail.
580	99	Annexure: 16 85-86 inch display monitor : 85-86 inch display monitor Brightness	500 NITS	Kindly change the clause as "400 NITS or higher"	400 NITs or better.
581	99	Annexure: 16 85-86 inch display monitor : 85-86 inch display monitor Contrast Ration	1300:1 Static or better	Kindly change the clause as "1200:1 or higher"	'1200:1 or higher'.
582	99	Annexure: 16 85-86 inch display monitor : 85-86 inch display monitor Sinage feature	Built in Solo Sign Edge Software	Kindly change the clause as "Built in Solo Sign Edge Software / Content Management Software"	'Built in Solo Sign Edge Software / Content Management Software'.
583	47, 98, 99, 103	4.4 of Scope ofwork	Operation and Comprehensive Maintenance Support The Agency carry out all support related services for a period of 5 (five) years ("Contract Period") starting from 2 (two) months beyond	Kindly clarify whether you want 03 year warranty or 05 year warranty.	AMC shall be 5 Years.
584	12 of 112	6. Scope of Services	6. Scope of Services 6.1. Odisha Mining Corporation Ltd. (OMC) intends to deploy a robust, scalable, and secure IP-based CCTV surveillance ecosystem across its mining sites, Regional Offices (ROs), and Head Office (HO, Bhubaneswar). The program strengthens site security, improves operational monitoring, and drives safety compliance through real-time, centralized video oversight and AI-enabled analytics. The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.	From the Scope of Services and detailed technical specifications of the VMS, we understand the system architecture as follows: - The bidder shall provide NVRs at each mine location for local monitoring and recording of video feeds. - The bidder shall provide Video Analytics Servers and Applications at each mine location for local processing of video analytics. - The Head Office (Bhubaneswar) shall be equipped with servers for hosting the Central Video Management Software. No video recording shall be done at the Head Office (Bhubaneswar) - At the Head Office (Bhubaneswar), the Central VMS shall facilitate on-demand central monitoring, on-demand playback viewing, and centralized monitoring of all video analytics alerts. - Recording of camera feeds shall be carried out only in the local 128-channel / 32-channel NVRs installed at respective mine locations. Kindly confirm if our understanding is correct.	Kindly refer to the revised DTCN.
585	108 of 112	32. VMS Application : 32. VMS Application Central Video Management Software Technical & Functional Specifications	32. VMS Application Central Video Management Software Technical & Functional Specifications	Kindly confirm if our understanding is correct.	NVR/VMS Server shall be required at 15 Locations as per Scope of work.
586	12 of 112	6. Scope of Services	6. Scope of Services 6.1. Odisha Mining Corporation Ltd. (OMC) intends to deploy a robust, scalable, and secure IP-based CCTV surveillance ecosystem across its mining sites, Regional Offices (ROs), and Head Office (HO, Bhubaneswar). The program strengthens site security, improves operational monitoring, and drives safety compliance through real-time, centralized video oversight and AI-enabled analytics. The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.	From the Scope of Services, we understand that the bidder is required to provide NVRs at each Mine, Regional Office (RO), and Head Office (HO, Bhubaneswar), with independent Video Management Software at each respective location. No centralized monitoring of all locations cameras is required under the current scope. Kindly confirm if our understanding is correct.	NVR/VMS Server shall be required at 15 Locations as per Scope of work.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
587	45 of 112	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid) 30. Supply, installation testing & Commissioning of AI Analytics Server as per the specifications provided in Annexure 16 - 15 Nos	As per the tentative supply item list, the quantity of Video Analytics servers is specified as 15 Nos. However, the location-wise bifurcation of these servers is not provided in the BOQ. We request you to kindly provide the location-wise distribution of the Video Analytics servers for accurate system design and sizing.	Kindly refer to the revised DTCN.
588	46 of 112	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid) 31 Supply, installation testing & Commissioning of AI Analytics Software as per the specifications provided in Annexure 16 - 1 Nos.	As per the tentative supply item list, the quantity of Video Analytics Software is specified as 1 No. However, use case-wise quantities for the Video Analytics application are not specified in the BOQ. We request you to kindly provide the location-wise / site-wise requirement for each Video Analytics use case. For example: *Daitari Mine Location: PPE Detection – 20 Nos., Fire & Smoke Detection – 5 Nos. *Khandadhar Mine Location: PPE Detection – 10 Nos., Fire & Smoke Detection – 8 Nos. Your clarification on this point will help all bidders to design the system accurately and align the hardware requirements as per the actual project needs.	Kindly refer to the revised DTCN.
589	42 of 112	4	4. Scope of Work	The RFP Scope of Work and the provided BOQ do not provide sufficient clarity regarding the overall system architecture. We request you to kindly provide the detailed system architecture diagram to ensure accurate understanding, system design, and appropriate hardware sizing.	Kindly refer to the revised DTCN.
590	46 of 112	4.2. Supply of Equipment	Tentative Supply Items (Part of Price Bid) 32 Supply, installation testing & Commissioning of VMS Application for all locations as per the specifications provided in Annexure 16 - 1 Lumpsum	From the BOQ, we understand that the VMS application is to be supplied separately for each location, and the recording of camera feeds shall be carried out locally at the respective location's NVR. Kindly confirm if our understanding is correct.	NVR/VMS Server shall be required at 15 Locations as per Scope of work.
591	103 of 112	30. AI Analytics Server	30. AI Analytics Server Specification 32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443	We request you to kindly clarify whether the processor to be supplied by the bidder should have a total of 32 cores (2 Nos x 16 Core processor) or 2 Nos. x 32-core processors (total 64 cores).	Kindly refer to the revised DTCN.
592	103 of 112	31. AI Analytics Software	31. AI Analytics Software 19 The System should be able the Following Personal Protective Equipment's: a. Safety Helmet/Hard Hats b. Safety Jacket/High Visibility Reflective Jacket. c. other work related PPEs (Gloves, eye protected glass, etc) in the defined area(s)/camera(s).	As glove detection and eye protection glass detection require a highly precise field of view, which is generally not achievable through standard surveillance cameras. Therefore, we request you to kindly amend the clause as follows: "19. The System should be able the Following Personal Protective Equipment's: a. Safety Helmet/Hard Hats b. Safety Jacket/High Visibility Reflective Jacket. in the defined area(s)/camera(s)."	Kindly refer to the revised DTCN.
593	106 of 112	31. AI Analytics Software	31. AI Analytics Software 41. The system shall allow classification of different objects like Vehicles and people/Person.	Kindly specify the number of cameras on which Object Classification (Person / Vehicle) analytics is required.	Approximately 20% of total cameras.
594	110 of 112	Annexure 17 :	Document Submitted as a part of Bid Declaration by OEM as per Annexure 18	The OEM declaration is requested as per Annexure 18; however, Annexure 18 is not available in the RFP document. We request you to kindly share Annexure 18 for reference.	Kindly refer to the revised DTCN.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
595	46 of 112	4.3. Installation & Configuration	4.3. Installation & Configuration Implement AI-based software with integration for: o PPE Kit Violation Detection o Unauthorized Access Detection to restricted areas o Smoke & Fire Detection	From this clause we understand that the "Unauthorized Access Detection to restricted areas" is refer to the intrusion detection functionality of the Video Analytics application. Kindly confirm if our understanding is correct.	Kindly refer to the revised DTCN.
596	103 of 112	31. AI Analytics Software	31. AI Analytics Software AI Based Crowd detection AI based Intrusion Detection AI Based Fire & Smoke Detection AI Based Personal Protective Equipment's Detection	We request you to kindly provide the location wise use case quantities for each use case. For Example: *Daitari Mine Location: Crowd Detctetion- 5 Nos., PPE Detection – 20 Nos., Fire & Smoke Detection – 5 Nos. *Khandadhar Mine Location: Crowd Detctetion- 5 Nos., PPE Detection – 10 Nos., Fire & Smoke Detection – 8 Nos.	All use cases shall be applicable for all locations, however shall be implemented only in 20% of CAMERSS.
597	45 of 112	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	The Server quantities for the Video Management Software is missing in the BOQ. Therefore we request you to kindly add the VMS Server quantities in the BOQ.	NVR/VMS Servers.
598	45 of 112	4.2. Supply of Equipment	4.2. Supply of Equipment Tentative Supply Items (Part of Price Bid)	As we reviewed the BOQ and found that the Monitoring Workstation quantities are missing in the BOQ. Therefore we request you to kindly amend the BOQ and add the workstation quantities for each location.	Monitoring shall be done from existing systems in CCC.
599	42 of 112	4.1.2. Site Survey & Design Plan	4.1.2. Site Survey & Design Plan The Selected Vendor Shall Design integration plans with existing Command & Control Centers at Mines, ROs, and HO.	From the referred clause, we understand that the term 'existing Command and Control Center' pertains to the physical command and control room infrastructure, and not to any existing Command and Control application software. Kindly confirm if our understanding is correct.	CCC with applications are already in place at respective locations.
600	89	5.PTZ Camera (4 MP, IP) , Certification	CE, FCC, BIS, RoHS, STQCs ER	We request clarification regarding the requirement mentioned on Page No. 89 for the 4 MP PTZ Camera certifications, specifically the STQC ER certificate. STQC ER testing for PTZ models is currently under process at STQC labs, and the issuance timelines depend on the testing cycle and lab workload. Therefore, we kindly request the department to allow us to submit the STQC ER Certificate at the time of delivery instead of at the time of bid submission. All other required certifications such as CE, FCC, BIS, and RoHS will be submitted along with the bid. This relaxation will ensure wider participation without compromising compliance, as the STQC ER certificate will be mandatorily provided before supply and installation.	Kindly refer to the revised DTCN.
601	87	Annexure 16 Bullet Camera (5 MP), Certification	CE, FCC, BIS, RoHS, STQCs ER	In Annexure 16, Page 87, the technical specifications of the 5 MP Bullet Camera do not mention any requirement for STQC certification or any other specific mandatory certification apart from the general parameters provided. Since the specification sheet does not indicate STQC/ER certification or any additional compliance criteria, we request OMC to kindly clarify whether any such certification is required for the 5 MP Bullet Camera. We further request confirmation that only the listed technical specifications will be considered for evaluation and that no additional certifications—such as STQC/ER—will be treated as mandatory unless explicitly stated in the tender document.	Certification CE,FCC,BIS, RoHS, STQC ER.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
602	13	Clause No. 7 , Serial no. 7.1	Technical Criteria a. The Bidder must have successfully executed similar work during the last 05 (five) years, which shall be either of the following: i) Three similar completed Services of value not less than INR 1.3 Crore each (Excluding GST) OR ii) Two similar completed Services of value not less than INR 1.6 Crore each (Excluding GST) OR iii) Single similar completed Service of value not less than INR 2.6 Crore (Excluding GST) Note: "Similar completed Services" shall mean Supply, installation of CCTV Surveillance System with/without AMC. a. Applicable 5 (five) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e. FY 2020-21, FY 2021-22, FY 2022-23, FY 2023-24 and FY 2024-25)	Kindly Change the clause to : Technical Criteria a. The Bidder must have successfully executed similar work during the last 05 (five) years, which shall be either of the following: i) Three similar completed Services of value not less than INR 1.3 Crore each (Excluding GST) OR ii) Two similar completed Services of value not less than INR 1.6 Crore each (Excluding GST) OR iii) Single similar completed Service of value not less than INR 2.6 Crore (Excluding GST) Note: "Similar completed Services" shall mean Supply, installation of CCTV Surveillance System with/without AMC. a. Applicable 5 (five) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e. FY 2020-21, FY 2021-22, FY 2022-23, FY 2023-24, FY 2024-25 and upto December, 2025)	Kindly refer revised Tender
603	110	Clause no. Declaration	Annexure 17: Declaration by Agency for Fulfillment of Functional and Technical Specification along with declaration of Make & Model	you have asked to submit the Annexure 18 with Datasheet by OEM but Annexure-18 is missing so please give the format	Kindly refer to the revised DTCN.
604	110	Declaration	Annexure 17: Declaration by Agency for Fulfillment of Functional and Technical Specification along with declaration of Make & Model	you have asked to submit the Annexure 18 with Datasheet by OEM but Annexure-18 is missing so please give the format	Kindly refer to the revised DTCN.
605	106&107	32. VMS Application Central Video Management Software Technical & Functional Specifications	Additional Clause	Specification VMS shall be approved by US Department of Homeland Security with Designation status in SAFETY Act program VMS shall implement vulnerability management scans in SSDLC using leading vulnerability management solutions VMS shall allow organizations to configure IT Group Policy (GPO) to enforce FIPS 140-2 on all VMS servers	Tender conditions shall prevail.
606	106&107	32. VMS Application Central Video Management Software Technical & Functional Specifications	VMS ARCHITECTURE	VMS Ability to migrate from single recorder or enterprise site into multisite system at any time Flexible, open architecture supporting Workgroup Microsoft Windows Environment Flexible, open architecture supporting Active Directory Domain Environment Support Secured LDAP (LDAPS) to strengthen Windows authentication security Store user passwords using strong hashing algorithm like PBKDF2/SHA512	Tender conditions shall prevail.
607	106&107	32. VMS Application Central Video Management Software Technical & Functional Specifications	Multicast & Streaming	VMS should Support multicast capability for router-based live stream distribution Multicast offloads cameras and recorders from direct streaming	Tender conditions shall prevail.
608	106&107	32. VMS Application Central Video Management Software Technical & Functional Specifications	Dual Recording	VMS Allow independent Recording of streams directly from camera Primary and secondary sites can have different retention times	Tender conditions shall prevail.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
609	106&107	32. VMS Application Central Video Management Software Technical & Functional Specifications	Camera Tampering Detection	VMS Should Support Camera Tampering Detection resident on edge devices	Tender conditions shall prevail.
610	106&107	32. VMS Application Central Video Management Software Technical & Functional Specifications	Multisite Deployment	VMS should Support both single and multi-site deployments such that Multisite directory stores information for all sites with local copy on each site Multisite directory disconnection does not prevent site functionality Ability to simultaneously view cameras, alarms, bookmarks, investigations from any site Single sign-on for authorized users in multisite configuration Sites can cross connect at any time by simple configuration with passkey Flexible, open architecture supporting alarm/event/response creation for single or multisite	Tender conditions shall prevail.
611	91	8	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to the revised DTCN.
612	91	8	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".
613	91	8	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink	Please change this as "Require prevention of DoS attacks".	Require prevention of DoS attacks.
614	91	8	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Please change this as "Able to manage through Web-GUI, Compact CLI and Telnet/ssh". SSH is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
615	92	8	Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to the revised DTCN.
616	92	9	Layer 2 PoE Manageable Gigabit Switch - 16 Port	Request to please change as '16 x RJ-45 PoE Gigabit Ethernet Ports and additional 4 x1G SFP ports(populated with RJ45 modules as per needs).	16 x RJ-45 PoE Gigabit Ethernet Ports and minimum 4 x 1G uplink ports supporting SFP / RJ-45 connectivity (combo or equivalent).
617	92	9	Layer 2 PoE Manageable Gigabit Switch - 16 Port	Please change this as "Support Jumbo Frame up to 9K Bytes or higher". 9K Bytes is standard and available with all the leading OEM's.	"Support Jumbo Frame up to 9K Bytes or higher".
618	92	9	Layer 2 PoE Manageable Gigabit Switch - 16 Port	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN
619	93	9	Layer 2 PoE Manageable Gigabit Switch - 16 Port	Please change this as "Able to manage through Web-GUI, Compact CLI and Telnet/ssh". SSH is more secure than telnet.	Able to manage through Web-GUI, Compact CLI and Telnet/ssh".
620	93	9	Layer 2 PoE Manageable Gigabit Switch - 16 Port	Request to please remove RPS. 8 Port is small form-factor and not available with RPS .Please remove for wider OEM participations. Also in Layer 2 RPS is not relevant.	Kindly refer to Revised DTCN
621	93	10	Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection	Please change this as "MAC Address Table: 8K and 4MB Packet Buffer".	MAC Address Table: 8K and 1.5 Mbits Packet Buffer or better.
622	94	11	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port	Please change this as "Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and 2 x 1GE Uplink port" for wider OEM participations.	"Minimum 8 No's of 10/100/1000 Base-Tx PoE / PoE+ ports (Duplex, Full, Half) and minimum 2 x 1GE Uplink port".

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
623	94	11	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port	Please change this as "Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP".	Switch should support L2/L3 ACL for added security and IEEE 1588v2 Precision Time Protocol HW-Based E2E Transparent clock or NTP/SNTP.
624	94	11	8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable	Please remove RPS. RPS is not relevant in Layer 2 Switch.	Kindly refer to Revised DTCN
625	103	30	32 Core Dual CPU Intel Xeon Or AMD EPYC 7313 / 7443, 64 GB RAM, 2.9 GHz or better, 1 TB HDD & 512 GB SSD, NVIDIA L4 GPU Card- 2, Linux UBUNTU 20 or better with 3 years warranty	Server spec is non-configurable 'though very short as published here and missing key parameters", Kindly revise in complete for configurable options such as: Minimum 5th Gen CPU from Intel or AMD, minimum RAM to support asked GPU cards, HDD/SSD capacity as per industry availability, cyber-security compliances, minimum network ports etc.	Kindly refer to the revised DTCN.
626	103	30	Request for addition : Kindly append the following to the AI server	RAID controller specification missing.	Kindly refer to the revised DTCN.
627	103	30	Request for addition: Kindly append the following to the AI server	important ports and interfaces specification are missing.	Kindly refer to the revised DTCN.
628	103	30	Request for addition: Kindly append the following to the AI server	Memory RAS specification missing.	Kindly refer to the revised DTCN.
629	87	Annexure 16: Specifications 1. Bullet Camera (5 MP)	Bullet Camera (5 MP)	Currently, STQC full-phase certification is not operational. Therefore, multiple OEMs are offering 4MP STQC-certified cameras. To ensure wider participation and healthy competition, it is proposed to amend the specification to "4MP or higher" so that multiple OEMs can participate in the bidding process.	No Change.
630	87	Annexure 16: Specifications 1. Dome Camera (5 MP)	Dome Camera (5 MP)	Currently, STQC full-phase certification is not operational. Therefore, multiple OEMs are offering 4MP STQC-certified cameras. To ensure wider participation and healthy competition, it is proposed to amend the specification to "4MP or higher" so that multiple OEMs can participate in the bidding process.	4MP or higher.
631	87	No.16 of Technical Specification of Bullet Camera	System Compatibility:- ONVIF Profile S, G, M & T (OEM Should be member)	As per the tender specification having not mention any type of AI analytics features. ONVIF Profile M is primarily focused on metadata and analytics capabilities, which are not part of the current project scope. Therefore, this requirement is not applicable and may unnecessarily restrict broader OEM participation. We kindly request that the clause specifying ONVIF Profile M be removed from the tender specification. with better understanding (CCTV Camera OEM should be Fulltime member of ONVIF and quoted models should be listed on ONVIF official website)	ONVIF Profile S, G & T (OEM Should be member).
632	87	No.18 of Technical Specification of Bullet Camera	Security Features:- Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and encrypted firmware, Hardware Secure Boot	Firmware anti-rollback, designed to prevent downgrading to vulnerable, older versions, presents significant disadvantages, primarily the risk of permanently bricking a device if a new update is buggy. Please remove this clause Firmware Anti-rollback , TRNG,OTP,RSA2048 ,Signed Firmware, it's restrict a single OEM , please allow so that multiple oem can participated.	Kindly refer to the revised DTCN.

SI. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
633	88	No.16 of Technical Specification of Dome Camera	Security Features:- TCP/IP, IPv4, IPv6, SSL, TLS, UDP, HTTP/HTTPS, DHCP, DNS, RTP, RTSPS, RTCP, ICMP, NTP, SMTP, IGMP, Multicast, SNMP	Most surveillance systems use unicast (one-to-one) streaming, which does not require IGMP, as opposed to multicast (one-to-many). While the camera might not have an IGMP configuration page, multicast-capable cameras automatically handle IGMP join/leave messaging with network switches to manage bandwidth efficiently. If you want broader OEM participation, you can remove IGMP as a mandatory security or networking requirement and instead rely on standard unicast streaming, which is universally supported and does not depend on IGMP configuration.	Remove IGMP
634	88	No.17 of Technical Specification of Dome Camera	System Compatibility:- ONVIF Profile S, G, M & T (OEM Should be member)	As per the tender specification having not mention any type of AI analytics features. ONVIF Profile M is primarily focused on metadata and analytics capabilities, which are not part of the current project scope. Therefore, this requirement is not applicable and may unnecessarily restrict broader OEM participation. We kindly request that the clause specifying ONVIF Profile M be removed from the tender specification.with better understanding (CCTV Camera OEM should be fulltime member of ONVIF and quoted models should be listed on ONVIF official website)	ONVIF Profile S, G & T (OEM Should be member).
635	88	No.18 of Technical Specification of Dome Camera	Max. User Access:- 20 Users	Streaming 20 feeds simultaneously requires high bandwidth, often resulting in slow load times and lagging, choppy video. High numbers of simultaneous viewers overload the camera's internal processor, causing video delays, connection failures, or rendering the feed unviewable.please amend Max. User Access 6 user or better .	User Access 6 user or better .
636	88	No.20 of Technical Specification of Dome Camera	Security Features:- Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSP, AES 256 encryption, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), User Authentication, and encrypted	Firmware anti-rollback, designed to prevent downgrading to vulnerable, older versions, presents significant disadvantages, primarily the risk of permanently bricking a device if a new update is buggy. Please remove this clause Firmware Anti-rollback.	Removed Firmware Anti-rollback.
637	88	No.9 of Technical Specification of PTZ Camera	Manual Control Speed:- Pan: 0.1° ~350° /s; Tilt: 0.1° ~350° /s	The manual control speed range (Pan: 0.1°/s~260°/s; Tilt: 0.1°/s~120°/s) represents an industry-standard specification and is supported by multiple OEM manufacturers. Please amend this clause.	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.
638	88	No.12 of Technical Specification of PTZ Camera	Network protocol:- IPv4/IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, ICMP, IGMP, SSL/TSL.	We kindly request you to relax the mandatory requirement of FTP, ARP, and IGMP protocols in the specifications so that multiple OEMs can participate in the tender .	Removed FTP, ARP, and IGMP
639	89	No.12 of Technical Specification of 128CH NVR	SATA:- 16 SATA Ports	As per the RFP, the number of recording days required has not been specified. Kindly clarify the required recording duration (number of days). 128Ch NVR specification mentions 16 SATA port configuration. Since 16 SATA ports significantly increase the cost, we request you to kindly amend the requirement to 8 SATA ports .	8 SATA ports.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
640	14	7. Eligibility Criteria/ Poni no. b	b. Bidding in the form of a Consortium and Joint Venture are NOT allowed.	We note the restriction on consortium/JV participation. Consortium arrangements typically combine complementary expertise and resources, strengthening project design, execution, and risk management. We kindly request that consortium/JV participation be allowed in this tender or considered for future projects. Request to amend clause as: b. Bidding in the form of a Consortium and Joint Venture is allowed with a maximum of two members only.	Tender conditions shall prevail.
641	13	7. Eligibility Criteria/ 7.1 Technical Criteria	Technical Criteria a. The Bidder must have successfully executed similar work during the last 05 (five) years, which shall be either of the following: i) Three similar completed Services of value not less than INR 1.3 Crore each (Excluding GST) OR ii) Two similar completed Services of value not less than INR 1.6 Crore each (Excluding GST) OR iii) Single similar completed Service of value not less than INR 2.6 Crore (Excluding GST) Note: <input type="checkbox"/> "Similar completed Services" shall mean Supply, installation of CCTV Surveillance System with/without AMC. a. Applicable 5 (five) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e. FY 2020-21, FY 2021-22, FY 2022-23, FY 2023-24 and FY 2024-25)	We request that the clause be amended to permit consideration of the relevant experience of the Lead Member and/or Consortium Member(s), either collectively or individually, for the purpose of meeting the technical eligibility criteria. This will facilitate wider participation of technically qualified bidders and strengthen overall project implementation capability. Request to amend clause as: Technical Criteria a. The Bidder, whether bidding as a single entity or as a consortium, must have successfully executed similar works during the last five (05) years. In case of a consortium, the eligibility criteria may be satisfied either individually by any Consortium Member or jointly by the Consortium Members. i) Three similar completed Services of value not less than INR 1.3 Crore each (Excluding GST) OR ii) Two similar completed Services of value not less than INR 1.6 Crore each (Excluding GST) OR iii) Single similar completed Service of value not less than INR 2.6 Crore (Excluding GST) Note: <input type="checkbox"/> "Similar completed Services" shall mean Supply, installation of CCTV Surveillance System with/without AMC. a. Applicable 5 (five) years shall be preceding five financial years excluding the financial year of floating of the Tender (i.e. FY 2020-21, FY 2021-22, FY 2022-23, FY 2023-24 and FY 2024-25)	Please refer revised DTCN
642	13	7. Eligibility Criteria/ 7.2 Financial Criteria	7.2 Financial Criteria i) Average annual financial turnover of the Bidder for last 03 (three) financial years should be INR 10 (Ten) Crore Note: Applicable 3 (three) years – FY 2022-23, FY 2023-24 and FY 2024-25	We request that the clause be amended to permit consideration of the relevant experience of the Lead Member and/or Consortium Member(s), either collectively or individually, for the purpose of meeting the technical eligibility criteria. This will facilitate wider participation of technically qualified bidders and strengthen overall project implementation capability. Request to amend clause as: 7.2 Financial Criteria i) The Bidder, whether bidding as a single entity or as a consortium average annual financial turnover for last 03 (three) financial years should be INR 10 (Ten) Crore. In case of a consortium, the eligibility criteria may be satisfied either individually by any Consortium Member or jointly by the Consortium Members. Note: Applicable 3 (three) years – FY 2022-23, FY 2023-24 and FY 2024-25	Tender conditions shall prevail.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
643	50	8. Payment terms/ 8.2. Supply and Installation		<p>We respectfully request provision of an advance payment of 10% of the Contract Value to support mobilization and initial resource deployment. System integration and installation projects involve substantial upfront expenditure towards procurement, logistics, and site mobilization. An advance payment would facilitate timely project initiation and ensure smooth execution.</p> <p>We propose that the advance be recovered from subsequent milestone payments and secured through submission of an Advance Bank Guarantee. We kindly request that the payment terms be amended accordingly to incorporate this provision.</p> <p>Request to amend clause as:</p>	Tender conditions shall prevail.
644	50	8. Payment terms/ 8.2. Supply and Installation		<p>We note that the RFP specifies that 10% of the basic price is payable after completion of the warranty period or upon submission of a Performance Bank Guarantee.</p> <p>While certain devices indicate a 3-year warranty, others do not specify any warranty period.</p> <p>Kindly clarify whether the 10% payment condition is linked specifically to the 3-year warranty period mentioned for certain devices, and how it applies to items where the warranty period is not defined. This clarification will help us align our proposal accordingly.</p>	For the item where the warranty is not mentioned the warranty shall be 3 years
645	42	4. Scope of Work/ 4.4. Operation and Comprehensive Maintenance Support	4.4. Operation and Comprehensive Maintenance Support	<p>We note that the RFP specifies deployment of only three personnel across three regions, covering 21 geographically dispersed mines. In view of the extensive spread, we request clarification on whether transportation for manpower movement within and between mine locations will be provided by the Client or arranged by the Service Provider.</p> <p>This clarification will enable us to appropriately plan deployment logistics and prepare accurate cost estimates.</p>	Tender conditions shall prevail.
646	42	4. Scope of Work/ 4.4. Operation and Comprehensive Maintenance Support		<p>We note that the RFP stipulates deployment of three personnel across three regions covering 21 geographically dispersed mines. Given the significant distances between certain locations (for example, approximately two hours of road travel between Daitari and Gandhamardan), adherence to the prescribed SLA timelines may be operationally challenging under the current manpower structure. Similar geographical constraints exist for the mines under Koira & Barbil RO and those under HO, JK Road, and Rayagada RO.</p> <p>Considering the stringent SLA requirements of 98% uptime for cameras and 99% availability for the communication network, maintaining these service levels with deployment of only three personnel across widely dispersed mine locations may present significant operational challenges.</p> <p>We therefore request clarification on the proposed mechanism for ensuring SLA compliance under the current manpower structure. This clarification is critical for realistic resource planning, accurate risk assessment, and ensuring sustained service performance in line with contractual expectations.</p>	Tender conditions shall prevail.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
647	100	Annexure 16: Specifications /Point no. 23	23. 1 KVA UPS (inbuilt battery) UPS -1 KVA Online UPS System	We request clarification on the minimum backup duration required for the "UPS – 1 KVA Online UPS System" and "UPS – 2 KVA Online UPS System," as this information is essential for preparing an accurate and compliant proposal. Kindly confirm the expected backup hours for each system.	30 Minutes backup.
648	100	Annexure 16: Specifications /Point no. 24	24. 2 KVA UPS (inbuilt battery) UPS -2 KVA Online UPS System		30 Minutes backup.
649	103	Annexure 16: Specifications /Point no. 30	30. AI Analytics Server- AI Based Video Analytics Server	We request clarification on the minimum retention period (in days) for incident data and video footage, or alternatively, the minimum storage capacity to be provisioned. This information is essential for appropriately designing the storage solution and preparing an accurate cost estimate in line with project requirements.	As per disk availability.
650	-	-	Additional	We request clarification on whether the Client will provide a secure storage facility during the implementation period for storing materials such as electronic equipment, poles, OFC, and other hardware. This confirmation will enable us to appropriately plan logistics and structure our proposal and cost estimates.	Tender conditions shall prevail.
651	106	4	The Offered Central VMS Software should be ONVIF S, G, T & M Profile Compliant & should be a Full ONVIF Member. Central VMS OEM to Submit a Valid Certificate to Substantiate the Proof.	There are five types of memberships packages are available with ONVIF. membership status has no impact on the functional performance or interoperability of the VMS solution. Complying with ONVIF S, G, T & M profiles and verification on ONVIF Official Website www.onvif.org in the Conformant Devices along with any Membership certificate can suffice the purpose. Further, ONVIF has also confirmed that the level of membership does not affect the functionality or technical capabilities of a VMS solution. Kindly amend the clause to ensure maximum OEMs participation complying with ONVIF S, G, T & M Profile Compliant and available on ONVIF Official Website www.onvif.org . The Offered Central VMS Software should be ONVIF S, G, T & M Profile Compliant. Central VMS OEM to Submit a Valid Certificate to Substantiate the Proof.	Tender conditions shall prevail.
652	46	31	Supply, installation testing & Commissioning of AI Analytics Software as per the specifications provided in Annexure 16	Please share the number of cameras and respective Video Analytics use cases site-wise so that we can calculate the server sizing accordingly.	Approx. 20% of total quantity of cameras.
653	90	8	Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch	Inbuilt RPS for secondary power is not typically required for a standard switch and may be considered optional.	Kindly refer to Revised DTCN
654	92	9	Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch	Inbuilt RPS for secondary power is not typically required for a standard switch and may be considered optional.	Kindly refer to Revised DTCN
655	87	1	Bullet Camera (5 MP)	Currently, STQC full-phase certification is not operational. Therefore, multiple OEMs are offering 4MP STQC-certified cameras. To ensure wider participation and healthy competition, it is proposed to amend the specification to "4MP or higher" so that multiple OEMs can participate in the bidding process.	4MP or higher.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
656	87	01:16	System Compatibility:- ONVIF Profile S, G, M & T (OEM Should be member)	As per the tender specification having not mention any type of AI analytics features. ONVIF Profile M is primarily focused on metadata and analytics capabilities, which are not part of the current project scope. Therefore, this requirement is not applicable and may restrict broader OEM participation. We kindly request that the clause specifying ONVIF Profile M be removed from the tender specification. with better understanding (CCTV Camera OEM should be Fulltime member of ONVIF and quoted models should be listed on ONVIF official website	ONVIF Profile S, G & T (OEM Should be member).
657	87	01:18	Security Features:- Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Antirollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and enc ted firmware,	Firmware anti-rollback, designed to prevent downgrading to vulnerable, older versions, presents significant disadvantages, primarily the risk of permanently bricking a device if a new update is buggy. Please remove this clause Firmware Anti-rollback , TRNG, OTP, RSA 2048, Signed Firmware, it's restrict a single OEM , please allow so that multiple OEM can participated.	Kindly refer to the revised DTCN.
658	87	2	Dome Camera (5 MP)	Currently, STQC full-phase certification is not operational. Therefore, multiple OEMs are offering 4MP STQC-certified cameras. To ensure wider participation and healthy competition, it is proposed to amend the specification to "4MP or higher" so that multiple OEMs can partici ate in the bidding process.	4MP or higher.
659	88	02:16	Security Features:- TCP/IP, IPv4, IPv6, SSL, TLS, UDP, HTTP/HTTPS, DHCP, DNS, RTP, RTSPS, RTCP, ICMP, NTP, SMTP, IGMP, Multicast, SNMP	Most surveillance systems use unicast (one-to-one) streaming, which does not require IGMP, as opposed to multicast (one-to-many). While the camera might not have an IGMP configuration page, multicastcapable cameras automatically handle IGMP join/leave messaging with network switches to manage bandwidth efficiently. Request you to kindly remove IGMP as a mandatory security or networking requirement and instead rely on standard unicast streaming, which is universally supported and does not depend on IGMP confi uration.	Removed IGMP
660	88	02:17	System Compatibility:- ONVIF Profile S, G, M & T (OEM Should be member)	Most surveillance systems use unicast (one-to-one) streaming, which does not require IGMP, as opposed to multicast (one-to-many). While the camera might not have an IGMP configuration page, multicastcapable cameras automatically handle IGMP join/leave messaging with network switches to manage bandwidth efficiently. Request you to kindly remove IGMP as a mandatory security or networking requirement and instead rely on standard unicast streaming, which is universally supported and does not depend on IGMP confi uration. As per the tender specification having not mention any type of AI analytics features. ONVIF Profile M is primarily focused on metadata and analytics capabilities, which are not part of the current project scope. Therefore, this requirement is not applicable and may unnecessarily restrict broader OEM participation. We kindly request that the clause specifying ONVIF Profile M be removed from the tender specification. with better understanding (CCTV Camera OEM should be fulltime member of ONVIF and quoted models should be listed on ONVIF official website)	Removed IGMP

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
661	88	02:18	Max. User Access:- 20 Users	Streaming 20 feeds simultaneously requires high bandwidth, often resulting in slow load times and lagging, choppy video. High numbers of simultaneous viewers overload the camera's internal processor, causing video delays, connection failures, or renderin the feed unviewable. please amend Max. User Access 6 user or better .	Max. User Access 6 user or better .
662	88	02:20	Security Features:Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSP, AES 256 encryption, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot	Firmware anti-rollback, designed to prevent downgrading to vulnerable, older versions, presents significant disadvantages, primarily the risk of permanently bricking a device if a new update is buggy. Request you to please remove this clause Firmware Anti-rollback.	Removed Firmware Anti-rollback.
663	88		Manual Control Speed:- Pan: 0.1 0 -3500 Is; Tilt: 0.1 0 -3500 Is	Request you to please amend the point as , The manual control speed range (Pan: 0.1 0/s—2600/s; Tilt: 0.1 0/s—12001s) represents an industrystandard specification and is supported by multiple OEM manufacturers. Please amend this clause.	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.
664	88	03:12	Network protocol:- IPv4/IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, upnP, RTSP, RTP, RTCP, ICMP, IGMP, SSUTSL, IEEEE802.1x,PPP0E, ICMP, SNMP, Unicast/Multicast	We kindly request you to relax the mandatory requirement of FTP, ARP, and IGMP protocols in the specifications so that multiple OEMs can participate in the tender	Removed FTP, ARP, and IGMP
665	89	04:12	SATA:- 16 SATA Ports	As per the RFP, the number of recording days required has not been specified. Kindly clarify the required recording duration (number of days). 128Ch NVR specification mentions 16 SATA port configuration. Since 16 SATA ports significantly increase the cost, we request you to kindly amend the requirement to 8 SATA orts .	Minimum 8 SATA ports .
666	96	14:4 A	Conical/round pole shaft - HT Steel Conforming to grade S355 with minimum 2.5 MM thick sheet.	Please make it Round pole shaft -HT steel with minimum 2.5 MM thick sheet	Removed grade S355
667	96	14.7	4 nos. Anchor bolt of size M20 X 600 MM to be provided with each pole basis the soil bearing test re ort of the actual site.	Please delete - basis the soil bearing test report of the actual site.	Kindly refer to the revised DTCN.
668	96	19:12	SI can use direct burial type poles too for this purpose subject to meeting all the structural and environmental conditions of the location.	Please delete	Tender conditions shall prevail.
669	96	15.10	The Conical/Polygonal pole should be designed to with stand maximum wind speed as per IS- 857 (Minimum 50 m/Sec). Certificate for the structural integrity of the pole shall be submitted to justify the pole dimensions.	Please make it conical and delete Polygonal and the IS standard 857	Tender conditions shall prevail.
670	97	15:5A	Conical/Polygonal pole shaft HT Steel Conforming to grade S355 with minimum plate thickness of 4 MM	Please remove grade \$355	Remove grade S355.
671	97	15:5B	Pole base plate - Fe 410 Conforming to IS 226/IS 2062 with minimum thickness of 16 MM	Please remove Fe 410 Conforming to IS 226/IS 2062	Kindly refer to the revised DTCN.
672	97	15:5C	Pole foundation Bolt- EN 8 rade, GI	Please remove EN 8 grade,	Kindly refer to the revised DTCN.
673	97	15.6	Pole shall be hot dip galvanized as per IS 2629/1S2633/IS 4759 slandered with average coating thickness of 86 Micron or more. The galvanizing shall be done in sin le di in	Please remove IS 2629/1s2633/ls 4759 slandered	Tender conditions shall prevail.
674	98	17:18	Key Feature:- Internal Memory 16 GB or higher, 2 GB RAM with Built in Quad Core Processor or better.	Please remove 2 GB RAM with built in quad core processor	Remove 2GB RAM

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
675	98	17:20	Operating System:- Built in Android 11 or latest version	Please amend to Android I webOS	Tender condition shall prevail
676	99	18.40	Brightness:- 500 NITS	Please amend to 400 NITS or more	400 NITS or better.
677	99	16.50	Contrast Ratio:- 1300:1 Static or better	Please amend to 1200*010r better	1200:1 or better.
678	99	18:16	Signage features:- Built in Solo Sign e Software	Content Management Software	Kindly refer to the revised DTCN.
679	100	23:01	Capacity:- '1KVA, 900 watt 1Øin ut/ 1Ø out ut	Please amend 1KVA,800Watt	Tender conditions shall prevail.
680	100	23:10	Power Factor:-0.9	Please amend ower factor 0.8	Tender conditions shall prevail.
681	600	24.01	Capacity:- '1KVA, 1800 Watt 1Øin ut/ 1Ø out ut	Please amend 2KVA, 1600Watt	Tender conditions shall prevail.
682	101	24.9	Power Factor:-0.9	Please amend ower factor 0.8	Tender conditions shall prevail.
683	101	24.15	Maintenance Bypass:- Automatic & Manual	Automatic By Pass only as it is Industry Standard	Tender conditions shall prevail.
684	101	24.21	DC BUS voltage:- 72VDC	Please amend DC BUS Voltage 48VDC	Tender conditions shall prevail.
685	101	24.22	Battery Configuration:- 'Minimum 504 VAH	Please amend Battery Configuration:'Minimum 336VAH	Tender conditions shall prevail.
686	105	31.27	The Video Analytics Application must have the Capability to View snapshots of each event and click on event to play recording of that time period on theCentral VMS Client Interface/GUI. The Central VMS & Video Analytics Platform should be from same OEM.	Request you please remove the point	Tender conditions shall prevail.
687	108	32.38	Automatic or manual reset & close o tion of video anel	OEM specific - needs to be deleted (Video anel is not eneric feature	Tender conditions shall prevail.
688	108	32.39	The VMS licensing shall require MAC Id of Server only, not of camera devices.	OEM Specific:- Not standard VMS criteria	Tender conditions shall prevail.
689	108	32.41	The Central VMS web Client shall have Dashboardin Capabilities, such that the Dashboard should Support for Drawings/Maps GIS Layer, OSM Layer, Autocad .dwg File, .JPEG file format, .PDF file format, Customized Video Grid for Live & Playback of Video & Events Table	Partial Compliance:- these features are available on Smart client	Tender conditions shall prevail.
690	108	32.42	The Central VMS Web Client shall show the Camera details with Key Performance Indicators like, Total Cameras connected, Total Cameras Disconnected, Status Visualization in the form of Pie Chart	Partial Compliance:- these features are available on Smart client	Tender conditions shall prevail.
691	108	32.44	The VMS Web Client must support for H.265 & H.265+ Codec Live & Playback Streaming	H.265 + is not standard needs to be deleted	The VMS web client must support H.265/H.265+ codec for live viewing and playback streaming.
692	108	32.45	The Central VMS Web Client shall support the following actions on a report: print report, export report to a PDF/Microsoft Excel/CSV file, and automatically email a report based on a schedule and a list of one or more	Partial Compliance:- these features are available on Smart client	Tender conditions shall prevail.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
693	94	12. (ii)	Mechanical Characteristics Should have 3000N/10 cm Crush Load (IEC 60794-1-2E3). Or better	Please amend the point as 4000N 1 10 cm	Tender conditions shall prevail.
694	95	12. (V)	ADSS Characteristics: Span Length Up to 100 meters or more, Installation Sag 1% of span length Installation Tension 725 N, Wind speed 100 km per hour, Extra Load 0. 255 Kgslm	Please amend the point as Span Length Up to 150 meters or better	Tender conditions shall prevail.
695	95	12. (VI)	Environmental Characteristics The Fiber Operating Temperature 0 deg C to 60 deg C	Please amend the point as The Fiber Operating Temperature -20 deg to 70 deg C or better	Tender conditions shall prevail.
696	95	12 (i)	Category 6 should operate on bandwidth up to 250MHz as per standard & tested up to 500MHz.	Please amend the point as standard & tested up to 600MHz.	Tender conditions shall prevail.
697	87	Annexure: 16 Bullet Camera (5 MP)	Bullet Camera (5 MP) Min. Illumination : Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as "Color - 0.01 Lux @F1.2 (AGC ON) Monochrome - 0 Lux",	Kindly refer to the revised DTCN.
698	87	Annexure: 16 Bullet Camera (5 MP)	Bullet Camera (5 MP) Shutter Speed: (1/5 sec ~ 1/100,000 sec Adjustable) or better	Request you kindly ammend the clause as '1/15s -1/100000s'	1/15s -1/100000s'.
699	87	Annexure: 16 Bullet Camera (5 MP)	System compatibility: ONVIF Profile S, G, M & T (OEM Should be member)	Request you kindly ammend the clause as 'ONVIF S,G and T'	ONVIF Profile S, G & T (OEM Should be member).
700	87	Annexure: 16 Bullet Camera (5 MP)	Bullet Camera (5 MP) General Function: User Authentication, Watermark, IP address filtering	Request you kindly ammend the clause as 'User Authentication and IP address filtering'	General Function: User Authentication, IP address filtering.
701	87	Annexure: 16 Bullet Camera (5 MP)	Bullet Camera (5 MP) Security Features: Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and encrypted firmware, Hardware Secure Boot	Request you kindly ammend the clause as "All data, including sensitive data, is encrypted with AES 256 and RSA 2048 , HTTPS supported, Signed Firmware, Firmware Anti-rollback, User Authentication, and encrypted firmware, Hardware Secure Boot, Authorized username and password"	Kindly refer to the revised DTCN.
702	87	Annexure: 16 Dome Camera (5 MP)	Dome Camera (5 MP) Min. Illumination : Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as "Color - 0.01 Lux @F1.2 (AGC ON)",	Kindly refer to the revised DTCN.
703	87	Annexure: 16 Dome Camera (5 MP)	Dome Camera (5 MP) Shutter speed: (1/5 sec ~ 1/100,000 sec Adjustable) or better	Request you kindly ammend the clause as '1/15s -1/100000s'	Kindly refer to the revised DTCN.
704	88	Annexure: 16 Dome Camera (5 MP)	Dome Camera (5 MP) System Compatibility: ONVIF Profile S, G, M & T (OEM Should be member)	Request you kindly ammend the clause as 'ONVIF S,G and T'	ONVIF Profile S, G & T (OEM Should be member).
705	88	Annexure: 16 Dome Camera (5 MP)	Dome Camera (5 MP) Max. user Access: 20 users	Request you kindly ammend the clause as '10 users'	Max. User Access 6 user or better .
706	88	Annexure: 16 Dome Camera (5 MP)	Dome Camera (5 MP) General Function: User Authentication, Watermark, IP address filtering	Request you kindly ammend the clause as 'User Authentication and IP address filtering'	Kindly refer to the revised DTCN.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
707	88	Annexure: 16 Dome Camera (5 MP)	Dome Camera (5 MP) Security Feature: Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and encrypted firmware, Hardware Secure Boot	Request you kindly ammend the clause as "All data, including sensitive data, is encrypted with AES 256 and RSA 2048 , HTTPS supported, Signed Firmware, Firmware Anti-rollback,User Authentication, and encrypted firmware, Hardware Secure Boot, Authorized username and password"	Kindly refer to the revised DTCN.
708	88	Annexure: 16 PTZ Camera (4 MP, IP)	PTZ Camera (4 MP, IP) Min. Illumination: Colour: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6, 0 Lux at IR ON or better	Request you kindly ammend the clause as "Color: 0.03lux@F1.69, 0Lux with IR"	Kindly refer to the revised DTCN.
709	88	Annexure: 16 PTZ Camera (4 MP, IP)	PTZ Camera (4 MP, IP) Electronic Shutter: 1/5 ~ 1/30,000s	Request you kindly ammend the clause as "1/15s -1/100000s"	Kindly refer to the revised DTCN.
710	88	Annexure: 16 PTZ Camera (4 MP, IP)	PTZ Camera (4 MP, IP) Manual Control Speed: Pan: 0.1° ~ 350°/s; Tilt: 0.1° ~ 350°/s	Request you kindly ammend the clause as "Pan Speed Pan manual speed: 0.1° to 240°/s, pan preset speed: 240°/s Tilt manual speed: 0.1° to 200°/s tilt preset speed: 200°/s"	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.
711	89	Annexure: 16 PTZ Camera (4 MP, IP)	PTZ Camera (4 MP, IP) Security Mode: Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSPS, AES 256 encryption, Signed Firmware, Firmware encryption, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot, security logs; IP filtering	Request you kindly ammend the clause as "All data, including sensitive data, is encrypted with AES 256 and RSA 2048 , HTTPS supported, Signed Firmware, Firmware Anti-rollback,User Authentication, and encrypted firmware, Hardware Secure Boot, Authorized username and password are available"	Kindly refer to the revised DTCN.
712	89	Annexure: 16 128 Channel NVR	128 Channel NVR IP Camera Input: 128 Channel	Request you kindly ammend the clause as "96 channel"	Kindly refer to the revised DTCN.
713	89	Annexure: 16 128 Channel NVR	128 Channel NVR HDMI Out put: 2 CH HDMI output	Request you kindly ammend the clause as "HDMI (2.0) – 1 Port (Main)"	Kindly refer to the revised DTCN.
714	89	Annexure: 16 128 Channel NVR	128 Channel NVR SATA Ports: 16 SATA Ports	Request you kindly ammend the clause as "Up to 8 SATA available and each SATA supported up to 18TB"	Kindly refer to the revised DTCN.
715	89	Annexure: 16 128 channel NVR	128 Channel NVR Alaram input: 16CH	Request you kindly ammend the clause as "2CH"	Kindly refer to the revised DTCN.
716	89	Annexure: 16 128 channel NVR	128 Channel NVR Alaram output: 4CH	Request you kindly ammend the clause as "1CH"	Kindly refer to the revised DTCN.
717	90	Annexure: 16 128 channel NVR	128 Channel NVR Operating Conditions: -10°C ~ 55°C / 10% – 90%	Request you kindly ammend the clause as "0°C to +50°C (32°F to 122°F)"	No change.
718	90	Annexure: 16 32 channel NVR	32 Channel NVR VGA Output: 1 CH VGA output (1920×1080@60Hz, 1280×720@60Hz)	it is old technology so kindly remove the clausue	32 Channel NVR VGA Output: 1 CH VGA/HDMI output.
719	90	Annexure: 16 32 channel NVR	32 Channel NVR Operating Conditions: -10°C ~ 55°C / 10% – 90%	Request you kindly ammend the clause as "0°C to +50°C (32°F to 122°F)"	'0°C to +50°C or better.
720	46	Tentative Supply Item	Tentative Supply Item S.No. 30, AI Analytics Server & S.No. 31, AI Analytics Software Quantity mentioned are 15 Nos for Server & 1 Nos for Software	There is quantity mismatch in Hardware & Software, Please amend software quantity from 1 no to 15 Nos. Also confirm which site 15 out of 21 mine/camp to be considred as Use Case licensing provision to be considered and Server sizing to be calculated accordngy to meet requirement as quantity of cameras are different at each site	It is to be provided in all 15 locations, 1 quantity in total Lumpsum.
721	105	Annexure: 16 AI Analytics Software	35. Video Analytics Functional Requirements: 36. Proposed intelligent AI Based Video Analytics Software (VAS) shall have the capability to provide various alarms & triggers and should notify the Authorities	For various Alarms & Triggers to notify the Authorities if any incidence/ violation happens, Video Analytics Client Application to be installed in Authority Hardware. Please confirm Hardware will be provided by OMC. If Not, Hardware to be added to the Tentative Supply Item Bill of Quantity.	Tender conditions shall prevail.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
722	46	Tentative Supply Item	32. VMS Application for all locations and Quantity is 1 Lumpsum	As Indicative Cameras to be Supply at 6 RO & 21 Mine/ Camp and VMS Application for all location required. Quantity to be amend from 1 to 27.	Licenses towards VMS to be considered and included in this Lumpsum field.
723	106	Annexure: 16 VMS Application	5. The IP Central Video Management Software shall be Licensed & Perpetual Licenses to be Provided, such that they are Valid for Lifetime.	As fully distributed solution required, Please confirm below: Quantity of Base License & Quantity of Cameras Channel License to be considered for Software as required servers, Client Workstaion sizing to be done accordingly or Shall we considered 6 Nos RO Base License, 21 Mine/ Camp Base License and 308 Camera Channel license as per Indicative Camera Quantity on Page No. 43 & 44.	You may consider 15 units. RO/Mines Base License and 308 Camera Channel license as per Indicative Camera Quantity.
724	106	Annexure: 16 VMS Application	7. The Central Video Management System shall be a fully distributed solution, designed for limitless multi-site and multiple server installations requiring 24/7 surveillance with support for devices from different vendors. The Video Management System shall offer centralized management of all devices, servers and users and must empower a flexible rule-based system driven by schedules and events.		Its not limitless however to serve required Cameras as per scope.
725	110-112	Make & Model Declaration	S.No 1 to 19: Declaration by OEM as per Annexure 18	Annexure 18 Not found in Tender Document. Please clarify.	Kindly refer to the revised DTCN.
726	29	3.2	All the work shall be carried out under the direction of and to the satisfaction of OMC	All the work shall be carried out under the direction of and as agreed under scope of work	All the work shall be carried out under the direction of and as agreed under scope of work.
727	30	7.1	Service Provider hereby warrants that the use of the services delivered hereunder will not infringe claims of any patent covering such service and Service Provider agrees to be responsible for and to defend at his sole expense all suits and proceedings against OMC based on any such alleged patent infringement and to pay all costs, expenses and damages which OMC may have to pay or incur by reason of any such suit or proceedings.	Service Provider hereby warrants that the use of the services delivered hereunder will not infringe claims of any patent covering such service and Service Provider agrees to be responsible for and to defend at his sole expense all suits and proceedings against OMC based on any such patent infringement and to pay any judicially determined costs, expenses and damages which OMC may have to pay or incur by reason of any such suit or proceedings.	Tender conditions shall prevail.
728	31	7.2	The Service Provider shall indemnify OMC against all third-party claims of infringement of patent, trade mark or industrial design rights arising from the services delivered by the Service Provider	The Service Provider shall indemnify OMC against all third-party claims of infringement of patent, trade mark or arising from the services delivered by the Service Provider	Tender conditions shall prevail.
729	31	7.3	Service Provider shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely the OMC from any claims/penalties arising out of any infringements.	Service Provider shall be responsible for compliance with all requirements under the laws and shall protect and indemnify the OMC from any claims/penalties arising out of any infringements.	Tender conditions shall prevail.
730	31	8.4	Performance Security shall be extended by the Service Provider in the event of delay in completion of work, as defined in the Service Order / Agreement for any reason whatsoever. OMC's claim period shall remain valid for twelve months after the expiry of the guarantee/warrantee/Defect Liability Period or till the satisfactory performance of the objectives of the Service Order / Agreement, whichever is later	Performance Security shall be extended by the Service Provider in the event of delay in completion of work, as defined in the Service Order / Agreement for any reason whatsoever. OMC's claim period shall remain valid for twelve months after the expiry of the guarantee/warrantee/Defect Liability Period	Tender conditions shall prevail.
731	32	10.5	No interest charges for delay in payments, if any, shall be payable by OMC. The Service Provider shall not claim any interest for delay in		Tender conditions shall prevail.
732	32	10.6	Defective bills shall be returned to the Service Provider within 7 (seven) working days. No payment shall be made on defective/incomplete bills. It is the obligation of the Service Provider to submit the Bill complete in all respect, so as to enable the OMC to release the payments within the stipulated period, provided there is no other impediment	Defective bills shall be returned to the Service Provider within 7 (seven) working days. No payment shall be made on defective/incomplete bills. It is the obligation of the Service Provider to submit the Bill complete in all respect, so as to enable the OMC to release the payments within the stipulated period	Tender conditions shall prevail.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
733	32	12.1.i)	There is a force-majeure situation	There is a force-majeure situation last beyond a period of 6 months.	Tender conditions shall prevail.
734	36	20.2	OMC remains indemnified (even if the Service Order / Agreement ends pre-maturely) towards all or any obligations due to OMC by the Service Provider and shall continue to remain in force till such time all or any such claims are suitably addressed	OMC remains indemnified (even if the Service Order / Agreement ends pre-maturely) towards all or any obligations due to OMC by the Service Provider and shall continue to remain in force for 1 year from the termination of the Service Order/ Agreement.	Tender conditions shall prevail.
735	39	26.4	The Service Provider shall indemnify OMC from any liability falling on OMC due to any accident, whether minor or major, or by any act of commission/omission by the Service Provider or by its representatives or by its employees. If OMC is made liable for any such claim by the court of law or any other authority, the same shall be reimbursed to OMC by the Service Provider as if OMC has paid on their behalf. The same shall be adjusted from the invoices payable by OMC to the Service Provider, if not paid within a period of 30 (thirty) days of such payment being made by OMC. The amount so paid by OMC on behalf of the Service Provider can also be recovered from the other Contracts of the Service Provider with OMC. If the amount so paid by OMC cannot be recovered in either of the two modes, in that event, the amount so paid by OMC on behalf of the Service Provider shall be treated as a Public Demand and recovered as per the provisions of O.P.D.R. Act, 1962 & Rules framed thereunder/ Civil suit may be instituted against the Service Provider for the purpose.	The Service Provider shall indemnify OMC from any liability falling on OMC due to any accident, whether minor or major, or by any act of commission/omission by the Service Provider or by its representatives or by its employees. If OMC is made liable for any such claim by the court of law or any other authority, the same shall be reimbursed to OMC by the Service Provider as if OMC has paid on their behalf. The same shall be adjusted from the invoices payable by OMC to the Service Provider, if not paid within a period of 30 (thirty) days of such payment being made by OMC. If the amount so paid by OMC cannot be recovered in either of the two modes, in that event, the amount so paid by OMC on behalf of the Service Provider shall be treated as a Public Demand and recovered as per the provisions of O.P.D.R. Act, 1962 & Rules framed thereunder/ Civil suit may be instituted against the Service Provider for the purpose.	Tender conditions shall prevail.
736	87	Min. Illumination	Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as "Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better", To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
737	87	Streams	Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/ mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here	"The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions.".
738	87	Compression	G.711U/A or better	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
739	87	Security Features	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	Kindly refer to the revised DTCN.
740	87	Min. Illumination	Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as "Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better", To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
741	87	Streams	Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/ mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here	"The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."
742	88	Compression	G.711U/A	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
743	88	System Compatibility	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSP, AES 256 encryption, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	Kindly refer to the revised DTCN.
744	88	Audio compression	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
745	88	Manual Control Speed	Pan: 0.1° ~350° /s; Tilt: 0.1° ~350° /s	Too Much High speed of PAN & Tilt speed will increase the chance of motor's wear and tear, which means that the product is prone to breakage, Hence requesting you to amend this clause as "Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better" to make it more generic & allow maximum OEM to participate in this BID	Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better.
746	88	IR distance	250M or better	As per asked optical zoom i.e. 30x, 150m IR range is enough cover at night so you are requested to revise this clause as "Min 150m IR Range or better" to make it more generic & allow maximum OEM to participate in this BID	Kindly refer to the revised DTCN.
747	88	Network protocol	IPv4/IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, ICMP, IGMP, SSL/TSL, IEEE802.1 x, PPPoE, ICMP, SNMP, Unicast/ Multicast	UPnP is a networking protocol that automatically connects devices on the same network, but it also poses security risks, Hence request you to kindly remove clause to make it more generic & allow maximum OEM to participate in this BID	Kindly refer to the revised DTCN.
748	89	Access protocol	ONVIF Profile S, G, T (OEM Should be member)	Different OEM's support different Onvif Profiles to meet requirements, Hence it is requested to amend this clause as "ONVIF Profile S/G/T" to make it more generic & allow maximum OEM to participate in this BID	Kindly refer to the revised DTCN.
749	89	Security Mode	Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSPS, AES 256 encryption, Signed Firmware, Firmware encryption, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot, security logs; IP filtering	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	Kindly refer to the revised DTCN.
750	89	Protection Level	IP67 & IK10 Compliant, TVS 6,000V Lightning Protection, Surge Protection and Voltage Transient Protection	It's single OEM Specific specification, generally PTZ Cameras are connected to PoE switches or PoE Adapter, which should support surge protection, So kindly remove this clause or amend it as :- camera should support IP67 & IK10 protection, To make it generic & allow max OEMS to participate here Can include external protection devices under different BOQ line item	Kindly refer to the revised DTCN.
751	89	Power supply	DC24V/1.5A (±10%), PoE+ (802.3at)	The power supply of PTZ varies depending upon the power source selection by OEM, hence request to revise it to " Power Supply - 12VDC/24VDC/24VAC/36VDC/48VDC/PoE/802.3 bt/802.3 at" To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
752	89	Processor	Quad-core Embedded processor	By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Kindly refer to the revised DTCN.
753	89	Audio Format	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM" To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
754	89	Protocols	IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in propposed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard,Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2 P," To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
755	90	Processor	Quad-core Embedded processor or better	By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Quad-core Embedded processor or equivalent industrial grade processor capable of handling the specified function without latency or frame loss.
756	90	Audio Format	G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AAC.
757	90	Protocols	IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in propposed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard,Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2 P," To make it generic & allow max OEMS to participate here	"IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P,,"

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
758	89	Certification	CE, FCC, BIS, RoHS, STQCs ER	We request clarification regarding the requirement mentioned on Page No. 89 for the 4 MP PTZ Camera certifications, specifically the STQC ER certificate. STQC ER testing for PTZ models is currently under process at STQC labs, and the issuance timelines depend on the testing cycle and lab workload. Therefore, we kindly request the department to allow us to submit the STQC ER Certificate at the time of delivery instead of at the time of bid submission. All other required certifications such as CE, FCC, BIS, and RoHS will be submitted along with the bid. This relaxation will ensure wider participation without compromising compliance, as the STQC ER certificate will be mandatorily provided before supply and installation.	Kindly refer to the revised DTCN.
759	87	Certification	CE, FCC, BIS, RoHS, STQCs ER	In Annexure 16, Page 87, the technical specifications of the 5 MP Bullet Camera do not mention any requirement for STQC certification or any other specific mandatory certification apart from the general parameters provided. Since the specification sheet does not indicate STQC/ER certification or any additional compliance criteria, we request OMC to kindly clarify whether any such certification is required for the 5 MP Bullet Camera. We further request confirmation that only the listed technical specifications will be considered for evaluation and that no additional certifications—such as STQC/ER—will be treated as mandatory unless explicitly stated in the tender document.	Kindly refer to the revised DTCN.
760			Suggestions :	1. Since the Project is for streaming and recording from remote locations to Bhubaneswar. We recommend the capability to include Dual recording capability on demand basis in the tender. This will enable option of central recording on demand basis of all/selected cameras from the remote site.- VMS Compliance S.No.-1	Tender conditions shall prevail.
761			Suggestions :	1. Apart from ONVIF Member profile, we recommend to insist on the dedicated adaptor based integration in order to make the integration more solid and future proof. ONVIF based integrations are easy to connect but may not offer camera features which are not released by manufacturer under ONVIF.	Tender conditions shall prevail.
762			Suggestions :	1. OEM criteria and local presence is missing.	Tender conditions shall prevail.
763			Suggestions :	OEM Criteria: We request you to kindly ensure that the software OEM should have a deployment across multiple datacenters for single Project. A list of such installations should be made mandatory.	Tender conditions shall prevail.
764			Suggestions :	CMMI Level3: Since cyber security is the main stay of this Project hence we request you to incorporate atleast CMMi Level-3 as well as security certification from a reputed International Security certification and Testing company for security and vulnerabilities.	Tender conditions shall prevail.
765			Suggestions :	NVR technology has one major drawback which is its capability to integrate with any 3rd. party system. Hence request you to stick with standard servers as well as Video Management Softwares only. NVR system cannot be scaled in case of any site has increase in the number of cameras.	Tender conditions shall prevail.

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766			Suggestions :	STQC for Video Management Software: VMS and any standard software supplied to Central as well as State Government as well as Public Sector Undertaking for the purpose of Video surveillance is not mandatory or covered under any STQC or Govt. of India guidelines. In fact the website for STQC has not listed Video Management Software in any of its category for any approval or mandatory testing. Please see the link attached from STQC website Software Product Certification STQC Standardisation Testing and Quality Certification Directorate	Tender conditions shall prevail.
767		VMS Technical Specifications	1. General Requirements	Specification VMS shall be approved by US Department of Homeland Security with Designation status in SAFETY Act program VMS shall implement vulnerability management scans in SSDLC using leading vulnerability management solutions VMS shall allow organizations to configure IT Group Policy (GPO) to enforce FIPS 140-2 on all VMS servers	Tender conditions shall prevail.
768		VMS Technical Specifications	2. VMS ARCHITECTURE 2.1 Core Architecture & Infrastructure	Specification Ability to migrate from single recorder or enterprise site into multisite system at any time Flexible, open architecture supporting Workgroup Microsoft Windows Environment Flexible, open architecture supporting Active Directory Domain Environment Support Secured LDAP (LDAPS) to strengthen Windows authentication security Store user passwords using strong hashing algorithm like PBKDF2/SHA512	Tender conditions shall prevail.
769		VMS Technical Specifications	2.3 Redundancy & Availability	Specification Redundancy, Fault tolerant, High Availability, Disaster Recovery, Recorder failover and Dual recording inbuilt in the application. Internal watchdog to detect and recover from system lockup	Tender conditions shall prevail.
770		VMS Technical Specifications	2.4 Multicast & Streaming	Specification Support multicast capability for router-based live stream distribution Multicast offloads cameras and recorders from direct streaming	Tender conditions shall prevail.
771		VMS Technical Specifications	2.5 Operating Systems & Standards	Specification VMS Server component support Microsoft Windows 2022 and Windows 2019 server platforms	Tender condition shall prevail
772		VMS Technical Specifications	2.6 Multisite Deployment	Specification Support both single and multi-site deployments such that Multisite directory stores information for all sites with local copy on each site Multisite directory disconnection does not prevent site functionality Ability to simultaneously view cameras, alarms, bookmarks, investigations from any site Single sign-on for authorized users in multisite configuration Sites can cross connect at any time by simple configuration with passkey Flexible, open architecture supporting alarm/event/response creation for single or multisite	Tender condition shall prevail

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
773		VMS Technical Specifications	3.1 Video Standards & IP Cameras	Specification Support third-party IP cameras using auto-discovery functionality Conformant to ONVIF Profile S,G,T and M standard for Network Video Client (NVC)	Tender condition shall prevail
774		VMS Technical Specifications	3.3 Network & Streaming	Specification Support large organizations with systems at hundreds of site locations via LAN/WAN Support Unicast mode - network configured to stream unicast through Recorder servers Support Multicast/IGMP mode - clients receive streams from multicast groups through router Compatible with IGMPv2 and IGMPv3 Multicast communication protocols Support Unicast to Multicast mode - secure unicast to recorder, multicast to clients	Tender condition shall prevail
775		VMS Technical Specifications	4. VMS EDGE DEVICE & IP CAMERA SUPPORT	Specification Implement IP camera adaptor solution with adaptive integration for new camera models Plugins automatically distributed to all Recorders without server restart Plugins backward compatible and do not require full VMS update Support third-party IP cameras from at least 20 different manufacturers	Tender condition shall prevail
776		VMS Technical Specifications	7. VMS FUNCTIONS 7.2 Video Monitoring Client - Core Features	Functionality View live video, retrieve recorded video, export video from workstation PC Manage multiple windows and perform multiple tasks simultaneously Select time preference format (AM/PM or 24H) Quick video query button and hot function keys Configurable playback speed in multiple increments up to 100x Retain time between queries View live or recorded video on multiple windows (from multiple DVRs/sites) Variable speed PTZ camera control Lock PTZ control for a camera based on user rights and priority levels Take-over PTZ function based on user rights and priority levels Submit and manage multiple video requests Time synchronized video playback on up to 16 video tiles simultaneously	Tender condition shall prevail
777		VMS Technical Specifications	7.3 Camera Organization & Viewing	Specification User-defined, multi-level tree structure for camera presets Each group has user-defined name and contents Cross-site monitor trees supported for multisite environments Group can contain cameras and/or other groups Multiple levels of groups and maps definable Camera can be included in more than one group Drag-and-drop cameras for video playback or live video windows Guard Tours display sequential views with specified periods	Tender condition shall prevail

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
778		VMS Technical Specifications	7.4 Video Playback & Control	Specification Synchronize playback of video Store recent played video for quick playing Mouse-wheel controlled playback (speed/direction determines seek and direction) De-warping functionality on 360-degree, panoramic, and Immersion lens cameras Universal dewarping solution (overview image, rectangle dewarp, continuous 360 view) De-warping of previously exported/saved video using original manufacturer software Digital presets of panoramic/360-degree cameras (live and recorded) Select playback from recent playbacks list	Tender condition shall prevail
779		VMS Technical Specifications	7.5 Bandwidth & Quality Management	Specification Adaptive Remote Viewing at optimum bandwidth/resolution settings On-the-fly multiple levels of viewing quality selection Economical bandwidth usage with resolution on demand Low resolution instantly available for events; high resolution for forensics Adaptive Video Streaming with 2 different profiles (resolution/frame rate) Automatic client selection of best fit resolution based on screen/tile size Bandwidth and decoding resource savings	Tender condition shall prevail
780		VMS Technical Specifications	7.6 Video Export & Encryption	Specification Encrypt exported video and investigations using password protection Encryption using AES256 Multiple independent video windows (singles, 2x2, 5x1, 3x3, 4x4, 8x8) Dynamic, flexible, customizable layouts with color skinning Up to 4 screens per workstation HD 16:9 support Accelerated decoding using GPU/Video Cards Smart decoding algorithm leveraging GPU/Video cards and CPU simultaneously Core i7 + 2x NVIDIA P620/T400 = up to 40 full HD tiles (5Mbps each) Preserve aspect ratio Digital zoom on live/recorded video without pause Enable/disable video de-interlacing Distribution across LANs/WANs to multiple monitors	Tender condition shall prevail

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
781		VMS Technical Specifications	7.9 Investigation Management	Investigation Creation: Create from any multiple remote and local sites (based on access rights) Attachments: Live/recorded video, alarm video, external files, still images, current playback, existing investigations Documentation: Include explanatory notes in investigation binder Access & Edit: Access/edit investigations based on permissions Search: Perform Investigation Management searches Export: Export Investigations and attachments	Tender condition shall prevail
782		VMS Technical Specifications	7.16 Activity Scanning & Authentication	Specification Scan recorded video for activity using energy graph (activity level indication) Scan recorded video for motion in all or specific Areas of Interest Configurable motion sensitivity and sampling time Authenticate video to verify no modification since recording	Tender condition shall prevail
783		VMS Technical Specifications	7.19 User Access Rights & Privileges	Configuration: Administrators configure access rights/privileges for every user Applicability: Configured rights apply when user logs into any workstation Restrictable Functions: Live video, PTZ control, PTZ take-over, digital zoom, camera menu, recorded video, export video, investigation management, alarm notification/viewing/history, cameras, tours, salvos, maps, sites, remote viewing access/bandwidth/priority	Tender condition shall prevail
784		VMS Technical Specifications	7.36 Video Recording - Dual Streaming	Specification Capability: Specification Streaming Mode: Dual streaming of live or recorded video Variations: Different resolutions or frame rates Image Analysis: Activity detection and video loss detection algorithms Alarm Inputs: Receive signals and generate alarm messages Alarm Response: Execute instructions including calling, recording, relay control Alarm Distribution: Forward to monitoring application, analog monitor, video wall	Tender condition shall prevail
785		VMS Technical Specifications	7.40 Failover Recording	Specification Failover recorder acts as hot standby for primary Recorder No user action required for takeover When original Recorder comes back online, cameras fail-back No video copy needed between failover and original recorder	Tender condition shall prevail
786		VMS Technical Specifications	7.41 Dual Recording	Specification Allow independent Recording of streams directly from camera Primary and secondary sites can have different retention times	Tender condition shall prevail

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
787		VMS Technical Specifications	7.47 System Health Check	<p>Live Monitoring: Real-time system health monitoring</p> <p>Performance Metrics: Detailed metrics on system components, server-side applications, video recorder software</p> <p>Edge Devices: System performance metrics on edge devices and IP cameras</p> <p>Data Export: Performance analysis results export capability</p> <p>Management Interface: System logs, alerts, audit trails, performance, recorder sanity</p> <p>Recorder Sanity: Dashboard with outputs to Windows event logs and e-mail</p> <p>Real-time Analysis: Capture real-time performance analysis</p>	Tender condition shall prevail
788		VMS Technical Specifications	7.51 Camera Tampering Detection	<p>Specification</p> <p>Support Camera Tampering Detection resident on edge devices</p>	Tender condition shall prevail
789		VMS Technical Specifications	7.52 Edge Storage - Gap Management	<p>Specification</p> <p>Gap Detection: Automatic detection of missing video</p> <p>Video Retrieval: Automatic retrieval from camera edge storage (SD card) upon reconnection</p> <p>Format Preservation: Retrieved video saved in recorder original file format</p> <p>Seamless Playback: Seamless playback without extra retrieval time</p> <p>Network Management: Avoid congestion or video overflow into recorder</p>	Tender condition shall prevail
790		VMS Technical Specifications	7.53 Edge Storage - Quality Enhancement	<p>Specification</p> <p>Retrieve higher quality video from edge storage post-event</p> <p>Automatic quality retrieval from edge storage upon event</p> <p>Retrieved video saved in recorder original file format</p> <p>Seamless high quality playback without extra retrieval time</p> <p>Automatic quality selection for playback (original or retrieved)</p> <p>Network/Recorder management to avoid overflow</p>	Tender condition shall prevail
791	87	1. Bullet Camera (5 MP)	Min. Illumination Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly amend this clause as " Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better ", To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
792	87	1. Bullet Camera (5 MP)	Streams Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	<p>Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs.</p> <p>Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing.</p> <p>Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here</p>	"The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."
793	87	1. Bullet Camera (5 MP)	Compression G.711U/A or better	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to amend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.

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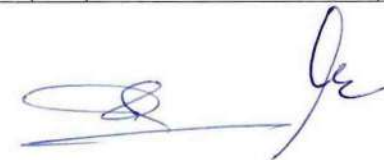
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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
794	87	1. Bullet Camera (5 MP)	Security features Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	No Change.
795	87	2. Dome Camera (5 MP)	Min. Illumination Color: 0.001Lux @ (F1.6, AGC ON), 0 Lux with IR or better	Request you to kindly ammend this clause as " Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR or better ", To make it generic & allow max OEMS to participate here	Kindly refer to the revised DTCN.
796	87	2. Dome Camera (5 MP)	Streams Quad Individual configurable Stream and all streams should work at H.265 Compression. Two stream should work 1080@25FPS.	Asking for two simultaneous streams at 1080p is highly restrictive and may limit the participation of leading OEMs. Standard surveillance architecture typically utilizes a High-Resolution Main Stream for recording and lower resolution Sub-Streams/other streams for bandwidth-efficient remote monitoring/multi-viewing/mobile viewing. Hence, We request you to amend the clause to: "The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."To make it generic & allow max OEM'S to participate here	"The camera shall support at least four independent streams, with at least one stream supporting 1080p @ 25fps and subsequent streams supporting flexible resolutions."
797	87	2. Dome Camera (5 MP)	Compression G.711U/A	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.
798	87	2. Dome Camera (5 MP)	System Compatibility Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSP, AES 256 encryption, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	Kindly refer to the revised DTCN.
799	87	3. PTZ Camera (4 MP, IP)	Audio compression G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC" To make it generic & allow max OEMS to participate here	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC.

Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
800	87	3. PTZ Camera (4 MP, IP)	Manual Control Speed Pan: 0.1° ~350° /s; Tilt: 0.1° ~350° /s	Too Much High speed of PAN & Tilt speed will increase the chance of motor's wear and tear, which means that the product is prone to breakage, Hence requesting you to ammend this clause as "Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better" to make it more generic & allow maximum OEM to participate in this BID	"Pan speed: configurable from 0.1° to 160°/s or better; Tilt speed: configurable from 0.1° to 120°/s or better".
801	87	3. PTZ Camera (4 MP, IP)	IR distance 250M or better	As per asked optical zoom i.e. 30x, 150m IR range is enough cover at night so you are requested to revise this clause as " Min 150m IR Range or better " to make it more generic & allow maximum OEM to participate in this BID	Min 150m IR Range or better.
802	87	3. PTZ Camera (4 MP, IP)	Network protocol IPv4/IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, ICMP, IGMP, SSL/TSL, IEEE802.1x, PPPoE, ICMP, SNMP, Unicast/ Multicast	UPnP is a networking protocol that automatically connects devices on the same network, but it also poses security risks , Hence request you to kindly remove clause to make it more generic & allow maximum OEM to participate in this BID	Refer revised DTCN.
803	87	3. PTZ Camera (4 MP, IP)	Access protocol: ONVIF Profile S, G, T (OEM Should be member)	Different OEM's support different Onvif Profiles to meet requiements, Hence it is requested to ammend this clause as " ONVIF Profile S/G/T " to make it more generic & allow maximum OEM to participate in this BID	ONVIF Profile S, G & T (OEM Should be member).
804	87	3. PTZ Camera (4 MP, IP)	Security Mode Authorized username and password, HTTPS with password, HTTPS digest authentication, Watermark/OSD, RTSPS, AES 256 encryption, Signed Firmware, Firmware encryption, TEE (Trusted Execution Environment), User Authentication, and encrypted firmware, Hardware Secure Boot, security logs; IP filtering	The current specifications list individual security features that are often self-certified by OEMs. To ensure high-level cybersecurity and data integrity, it is essential to have independent third-party validation. STQC (ER) certification ensures that the Essential Requirements (ER) for security are met as per Government of India guidelines. Hence, we are requesting you to include STQC Certification or a Test Report from an STQC/MeitY-authorized lab as a mandatory requirement. This ensures compliance with Hardware Secure Boot, Firmware Encryption, and TEE through a trusted national body.	No Change.
805	87	3. PTZ Camera (4 MP, IP)	Protection Level IP67 & IK10 Compliant, TVS 6,000V Lightning Protection, Surge Protection and Voltage Transient Protection	It's single OEM Specific specification, generally PTZ Cameras are connected to PoE switches or PoE Adapter, which should support surge protection, So kindly remove this clause or ammend it as :- camera should support IP67 & IK10 protection, To make it generic & allow max OEMS to participate here Can include external protection devices under different BOQ line item	Camera should support IP67 & IK10 protection.
806	87	3. PTZ Camera (4 MP, IP)	Power supply DC24V/1.5A (±10%), PoE+ (802.3at)	The power supply of PTZ varies depending upon the power source selection by OEM, hence request to revise it to " Power Supply - 12VDC/24VDC/24VAC/36VDC/48VDC/PoE/802.3 bt/802.3 at "To make it generic & allow max OEMS to participate here	12-24VDC/PoE/802.3 bt/802.3 at.

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Sl. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
807	87	4. 128 Channel NVR	Processor: Quad-core Embedded processor	By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Processor: Quad-core Embedded processor/ industrial-grade embedded processor capable of handling the specified function without latency or frame loss.
808	87	4. 128 Channel NVR	Audio Format G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM.
809	87	4. 128 Channel NVR	Protocols IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in propposed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard,Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	"IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P,".
810	87	5. 32 channel NVR	Processor: Quad-core Embedded processor	By Specifying this clause "Quad Core processor" currently limits healthy competition. Most leading CCTV OEMs utilize specialized, high-performance System-on-Chip architectures designed specifically for image processing and edge analytics. We request to amend this clause to a generic/functional requirement. Instead of specifying the number of cores, the requirement should be: "The NVR shall utilize an industrial-grade embedded processor capable of handling the specified function without latency or frame loss"	Processor: Quad-core Embedded processor/ Industrial-grade embedded processor capable of handling the specified function without latency or frame loss.
811	87	5. 32 channel NVR	Audio Format G.711u	Different OEM's used different Audio Standards to meet quality requirement, Hence Requesting you to ammend this clause as "G.711ulaw/G.711alaw/G.722/G.726/AAC" To make it generic & allow max OEMS to participate here	G.711ulaw/G.711alaw/G.722/G.726/AAC.
812	87	5. 32 channel NVR	Protocols IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, PPPoE, UPnP, NTP, P2P, FTP	FTP is camera feature should support in propposed camera, PPPoE is used for DSL connections, which is outdated as per current industry standard,Hence request to amend the clause as - "IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, UPnP, NTP, P2P," To make it generic & allow max OEMS to participate here	"IPv4, IPv6, IP filter, TCP/IP, HTTP, HTTPS, DDNS, SMTP(SSL), DHCP, NTP, P2P,".

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813	87	5.PTZ Camera (4 MP, IP)	Certification CE, FCC, BIS, RoHS, STQCs ER		We request clarification regarding the requirement mentioned on Page No. 89 for the 4 MP PTZ Camera certifications, specifically the STQC ER certificate. STQC ER testing for PTZ models is currently under process at STQC labs, and the issuance timelines depend on the testing cycle and lab workload. Therefore, we kindly request the department to allow us to submit the STQC ER Certificate at the time of delivery instead of at the time of bid submission. All other required certifications such as CE, FCC, BIS, and RoHS will be submitted along with the bid. This relaxation will ensure wider participation without compromising compliance, as the STQC ER certificate will be mandatorily provided before supply and installation.	No Change.
814	87	Annexure: 16 Bullet Camera (5 MP)	Certification CE, FCC, BIS, RoHS, STQCs ER		In Annexure 16, Page 87, the technical specifications of the 5 MP Bullet Camera do not mention any requirement for STQC certification or any other specific mandatory certification apart from the general parameters provided. Since the specification sheet does not indicate STQC/ER certification or any additional compliance criteria, we request OMC to kindly clarify whether any such certification is required for the 5 MP Bullet Camera. We further request confirmation that only the listed technical specifications will be considered for evaluation and that no additional certifications—such as STQC/ER—will be treated as mandatory unless explicitly stated in the tender document.	Kindly refer to the revised DTCN.
815	92	Annexure 16: Specifications 8. 8 Port Indoor POE Switch with Patch Panel Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch		Request you to remove points "Must have Inbuilt RPS for secondary power for switch "All major OEM do may have Inbuilt RPS for secondary power for 8 Port /16 Port L2 indoor switches .	Kindly refer to the revised DTCN.
816	90	Annexure 16: Specifications 8. 8 Port Indoor POE Switch with Patch Panel Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports	802.3at PoE+ & 802.3af PoE power to any of the PoE RJ-45 ports. 130W or better		For greater participation in the tender, please consider specifying PoE power of 120W or higher.120W power will also allow for a combination of 802.3at PoE+ and 802.3af PoE.	120W or better.
817	92	Annexure 16: Specifications 9. 16Port Indoor POE Switch with Patch Panel Layer 2, PoE Manageable Gigabit Switch – 16 Port with 1G Uplink Ports	The total power available for PoE switch should be 250W or higher		For greater participation in the tender, please consider specifying PoE power of 240W or higher.240W power will also allow for a combination of 802.3at PoE+ and 802.3af PoE.	The total power available for PoE switch should be 240W or higher.
818	93	Annexure 16: Specifications 9. 16Port Indoor POE Switch with Patch Panel Layer 2, PoE Manageable Gigabit Switch – 16 Port with 1G Uplink Ports	Primary PoE AC power with 100 to 240 VAC, 50/60 Hz, power supply supplied with switch from day 1. Must have Inbuilt RPS for secondary power for switch		Request you to remove points "Must have Inbuilt RPS for secondary power for switch " All major OEM do may have Inbuilt RPS for secondary power for 8 Port /16 Port L2 indoor switches.	Kindly refer to the revised DTCN.

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SI. No.	Page No.	Clause No.	Clause Description		Clarification Sought	Reply
819	93	Annexure 16: Specifications 10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)		Please clarify 24 port Industrial grade or Non Industrial grade	Refer DTCN.
820	93	Annexure 16: Specifications 10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	Switching Capacity 56Gbps, Min. Packet Forwarding Rate 40 Mbps or better		Request you to consider Switching Capacity 128Gbps, Min. Packet Forwarding Rate 95 Mbps or better. For non-blocking 24 port switching architecture if should be the minimum requirement	This is minimum specification. Higher specification is accepted.
821	94	Annexure 16: Specifications 11. 8 Port Industrial POE Switch Layer 2 Industrial Grade Manageable Gigabit Switch-8Port	Operating Temperature: -0° to 50° C		For standard industrial grade switch Operating Temperature should be -(-)35° to 75° C. 0° to 50° C is the indoor Commercial Switch Operating Temperature.	Kindly refer to the revised DTCN.
822	94	Annexure 16: Specifications			Also request you to mentioned Surge protection value for industrial grade switch for better safety and long life of the switch .	Tender condition shall prevail
823	89	Annexure 16: Specifications 4. 128 Channel NVR	ONVIF Profile G, S & T Support		Request you to consider S profile only . G,T are not relevant for NVR . G Profile used for edge recording and T profile Advanced streaming & analytics .	Kindly refer to the revised DTCN.
824	90	Annexure 16: Specifications 4.32 Channel NVR	ONVIF Profile G, S & T Support		Request you to consider S profile only . G,T are not relevant for NVR . G Profile used for edge recording and T profile Advanced streaming & analytics .	No change.
825	89	Annexure 16: Specifications 4. 128 Channel NVR	128 Channel NVR		Kindly allow the substitution of one 128-channel NVR with two 64-channel NVRs. This is requested because the 128-channel NVR is currently pending BIS approval for some OEMs .	Kindly refer to the revised DTCN.
826	91 & 92	"8. 8 Port Indoor POE Switch with Patch Panel Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports"	Asked for Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch & in last point also asked for Must have Inbuilt RPS for secondary power for switch		Asked for Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch & in last point also asked for Must have Inbuilt RPS for secondary power for switch	Kindly refer to the revised DTCN.
827	92 & 93	9. 16 Port Indoor POE Switch with patch panel Layer 2 PoE Manageable Gigabit Switch - 16 Port	Asked for Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch & in last point also asked for Must have Inbuilt RPS for secondary power for switch		Asked for Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch & in last point also asked for Must have Inbuilt RPS for secondary power for switch	Kindly refer to the revised DTCN.

SI. No.	Page No.	Clause No.	Clause Description	Clarification Sought	Reply
828	93	10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	Kindly refer to the revised DTCN.
829	93	10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	2 relay outputs with current carrying capacity of 1A @ 24 VDC	2 relay outputs with current carrying capacity of 1A @ 24 VDC	Kindly refer to the revised DTCN.
830	95	13. CAT 6 Cable (Unshielded Twisted Pair Category 6 LSZH Cable)	Category 6 should operate on bandwidth up to 250MHz as per standard & tested up to 500MHz.	Category 6 should operate on bandwidth up to 250MHz as per standard & tested up to 500MHz.	Kindly refer to the revised DTCN.
831	95	13. CAT 6 Cable (Unshielded Twisted Pair Category 6 LSZH Cable)	Category 6 Unshielded Twisted 4 pair shall be ETL Verified & UL Listed.	Category 6 Unshielded Twisted 4 pair shall be ETL Verified & UL Listed.	Kindly refer to the revised DTCN.
832	99	19. 4U Wall Mount Indoor Rack with one fixed shelf Wall Mount Rack, 4U 280 (H) x 543 (W) x 420 (D) mm	Dimensions (Interior): 280 (H) x 543 (W) x 420 (D) mm	Dimensions (Interior): 280 (H) x 543 (W) x 420 (D) mm	Kindly refer to the revised DTCN.
833	99	19. 4U Wall Mount Indoor Rack with one fixed shelf Wall Mount Rack, 4U 280 (H) x 543 (W) x 420 (D) mm	Maximum load Capacity of 60 kg	Maximum load Capacity of 60 kg	Kindly refer to the revised DTCN.
834	12	Scope of Services	The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.	Since existing OFC backbone will be leveraged, kindly clarify: Available bandwidth at each mine site Fiber core availability Network redundancy topology (Ring/Star)	Fiber core availability in Ring Topology
835	89	Annexure 16 - Specifications of Channel NVR	Alarm Input 16 CH Alarm Output 4 CH	We respectfully request that the specification be revised to: Alarm Input – 8 Channels and Alarm Output – 2 Channels	Kindly refer to the revised DTCN.
836	90	Annexure 16 - Specifications of Channel NVR	2 X RJ45 10M/100M/1000M adaptive Ethernet port	The requirement of 2 x RJ45 10/100/1000 Mbps adaptive Ethernet ports for the 32-channel NVR appears to exceed the needs of the proposed network design. Provisioning one network interface will ensure reliable performance while eliminating unnecessary hardware redundancy and optimizing overall cost.	Tender condition shall prevail
837	93	Annexure 16 - Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	1 x RS-232 Console Port (RJ-45) 2 relay outputs with current carrying capacity of 1A @ 24 VDC	1 x RS-232 Console Port (RJ-45) with alarm port, two Number of alarm input/output circuit	Tender condition shall prevail
838	95	Annexure 16 - CAT 6 Cable (Unshielded Twisted Pair Category 6 LSZH Cable)	Category 6 Unshielded Twisted 4 pair shall be ETL Verified & UL Listed.	Category 6 Unshielded Twisted 4 pair shall be ETL Verified	Kindly refer to the revised DTCN.

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839	99	Annexure 16 - 4U Wall Mount Indoor Rack with one fixed shelf Wall Mount Rack, 4U 280 (H) x 543 (W) x 420 (D) mm	Maximum load Capacity of 60 kg Frame Structure made of 1mm CRCA sheet or better	Maximum load Capacity of 25 kg Frame Structure made of 0.8 mm CRCA sheet or better	Maximum load Capacity of 25 kg Frame Structure made of 0.8 mm CRCA sheet or better.
840	99	Annexure 16 - 6U Wall Mount Indoor Rack with one fixed shelf Wall Mount Rack, 6U x 550 W x 500 D	Frame Structure made of 1mm CRCA sheet or better	Frame Structure made of 0.8mm CRCA sheet or better	Frame Structure made of 0.8mm CRCA sheet or better.
841	12	Scope of Services	The solution will leverage OMC's existing fiber-optic (OFC) backbone and implement unified monitoring from the Command & Control Centers (CCC) at each mine, ROs, and the HO.	Since existing OFC backbone will be leveraged, kindly clarify: Available bandwidth at each mine site Fiber core availability Network redundancy topology (Ring/Star)	Fiber core availability in Ring Topology
842		Suggestion	CCTV OEM should be full member on ONVIF portal at the time of Bidding .		Tender conditions shall prevail.
843		Suggestion	CCTV OEM should have direct Manufacturing in India from last 10 years. (not as joint venture, partnership firms or through any association) and R&D unit registered with Department of Scientific and Industrial Research (DSIR) in India. OEM should submit Manufacturing and DSIR certificates.		Tender conditions shall prevail.
844		Suggestion	Bidder shall ensure compliance to the Office Memorandum for insertion of Rule 144 (xi) in the General Finance Rules (GFR)-2017 bearing reference number F.No. 6/18/2019-PPD dated 23 July 2020 or latest, by the Public Procurement Division, Department of Expenditure, Ministry of Finance. Non- compliant bid(s) will be summarily rejected.		Tender conditions shall prevail.
845		Suggestion	MAC address of proposed CCTV cameras should be registered in the name of OEM supplying the cameras.		Tender conditions shall prevail.
846		Suggestion	All OEM should be submit all the document at the time of Bidding .		Tender conditions shall prevail.
841	91 & 92	"8. 8 Port Indoor POE Switch with Patch Panel Layer 2, PoE Manageable Gigabit Switch - 8 Port with 1G Uplink Ports"	Asked for Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch & in last point also asked for Must have Inbuilt RPS for secondary power for switch+D5:D8E12D5:D7D5:D10D5:D9D5:D10D5:D8D5:D9	Request to remove "with Inbuilt RPS for secondary power for switch & Must have Inbuilt RPS for secondary power for switch" as in 8-port indoor switches with dedicated RPS support are generally not available in standard OEM portfolios. The existing technical specifications appear restrictive and may limit participation to a specific OEM. We kindly request that the technical specifications be made more generic and performance-oriented to allow participation from multiple reputed OEMs.	Kindly refer to the revised DTCN.

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842	92 & 93	9. 16 Port Indoor POE Switch with patch panel Layer 2 PoE Manageable Gigabit Switch - 16 Port	Asked for Power input 100 to 240 V AC 50/60 Hz internal universal power supply with Inbuilt RPS for secondary power for switch & in last point also asked for Must have Inbuilt RPS for secondary power for switch	Request to remove "with Inbuilt RPS for secondary power for switch & Must have Inbuilt RPS for secondary power for switch" as in 8-port indoor switches with dedicated RPS support are generally not available in standard OEM portfolios. The existing technical specifications appear restrictive and may limit participation to a specific OEM. We kindly request that the technical specifications be made more generic and performance-oriented to allow participation from multiple reputed OEMs.	Kindly refer to the revised DTCN.
843	93	10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	Request to remove "(Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)" as all the parameters in asked specification is for commercial grade switch.	Not accepted. The switch is intended for field/industrial deployment in harsh environmental conditions. Industrial-grade specifications including surge protection are essential. The tender condition shall remain unchanged.
844	93	10. 24 Port Indoor POE Switch with patch panel (Industrial grade Field Layer-2, 24 port POE Switch with Ethernet surge protection)	2 relay outputs with current carrying capacity of 1A @ 24 VDC	Request to remove "2 relay outputs with current carrying capacity of 1A @ 24 VDC" as it is observed that the requirement of "2 relay outputs with 1A @ 24 VDC" is a feature generally available in industrial Ethernet switches for alarm integration. Commercial-grade switches do not support relay alarm outputs. We request confirmation to avoid ambiguity in product selection.	Not accepted. The switch is intended for field/industrial deployment in harsh environmental conditions. Industrial-grade specifications including surge protection are essential. The tender condition shall remain unchanged.
845	95	13. CAT 6 Cable (Unshielded Twisted Pair Category 6 LSZH Cable)	Category 6 should operate on bandwidth up to 250MHz as per standard & tested up to 500MHz.	Request to remove "tested up to 500MHz" as It is observed that the requirement "Tested up to 500 MHz" is technically aligned with Category 6A performance parameters, whereas As per TIA/EIA and ISO/IEC standards, Category 6 cables are specified to operate up to 250 MHz. Including 500 MHz testing under Cat 6 may create ambiguity and unnecessarily restrict competition and vendor specific. We request amendment of the specification to "Category 6 – up to 250 MHz" as per standard compliance.	& tested up to 500MHz.
846	95	13. CAT 6 Cable (Unshielded Twisted Pair Category 6 LSZH Cable)	Category 6 Unshielded Twisted 4 pair shall be ETL Verified & UL Listed.	Request that the requirement to revise from "ETL Verified & UL Listed." to "ETL Verified/UL Listed or equivalent internationally recognized certification" as ETL Verified certification confirms compliance with Category 6 performance standards (up to 250 MHz) & ensures compliance with TIA/ISO performance standards. UL Listing primarily pertains to safety certification and may not be mandatory for structured cabling performance compliance.	ETL Verified/UL Listed or equivalent internationally recognized certification.
847	99	19. 4U Wall Mount Indoor Rack with one fixed shelf Wall Mount Rack, 4U 280 (H) x 543 (W) x 420 (D) mm	Dimensions (Interior): 280 (H) x 543 (W) x 420 (D) mm	Request to remove "280 (H) x 543 (W) x 420 (D) mm" as The specification mentions fixed dimensions of "280 (H) x 543 (W) x 420 (D) mm" for the 4U rack appears restrictive and may correspond to a specific manufacturer's model. We request removal of the exact dimension clause and replacement with standard 4U 19-inch rack compliance.	Standard 4U 19-inch rack compliance.

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848	99	19. 4U Wall Mount Indoor Rack with one fixed shelf Wall Mount Rack, 4U 280 (H) x 543 (W) x 420 (D) mm	Maximum load Capacity of 60 kg	The requirement of "Maximum Load Capacity of 60 kg" appears restrictive and may correspond to a specific manufacturer's product. For a 4U wall-mounted rack, the installed equipment load (switches, patch panels, PDU, etc.) generally does not exceed 20-25 kg. Therefore, we request amendment of the specification to "Minimum load capacity of 25 kg or higher" to ensure suitability while allowing wider OEM participation.	Minimum 25KG or higher.

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