

CORRIGENDUM - VI					
REPLY TO THE PRE-BID QUERIES					
Tender for SITC of CCTV Surveillance System at CIAL (Tender Reference Number CIAL/COMMN/CCTV/24)					
Sl No.	Page No.	Section Name	Tender Conditions	Query	Reply to Query
1	123	TECHNICAL SPECIFICATIONS	The work involves replacing the existing CCTV system at CIAL.	Please clarify if the existing camera's cable also needs to be replaced or that's not mandatory to replace	1. The existing passive infrastructure was established in 2017. The same can be reused. At locations where the same cannot be reused, fresh infrastructure needs to be provided. 2. Only one option, either Option 1 or Option 2, needs to be quoted 3. Fibre Connectivity between DC 1, DC 2 and DR is already available.
				The Existing cabling(network/Power) needs to be removed or it can be kept as it is to reduce the execution period for the project.	
				Request to please confirm if we need to remove the existing cables, PVC Conduit, HDPE Pipes and poles , Trays , Outdoor Racks , Networking Racks from the existing system. If yes please share the quantity of each item for the same	
				We understand out of Option 1 & Option 2, only one needs to be quoted , kindly confirm.	
				We understand DC & DR connectivity is fibre based & not in current scope of works. Kindly confirm	
2	BOQ			1. Do we need to mentioned tax? 2. Is TAX is mandatory requirement?	Yes. Bidder should mandatory quote with applicable tax. If bidder is not quoted with tax, then the final amount will be evaluated with taxes.
3	BOQ	BOQ Modification		1. Do you require all PTZ cameras indoors only? 2. Is queue management sufficient for 50 cameras? 3. Is manpower cost fixed for all 7 years? Pls clarify?	BOQ is modified accordingly. 1. The bidder should quote either Option 1 or Option 2 for the PTZ cameras. 2. The queue management camera license has been increased from 50 to 100 units. 3. Tailgating Software is also required with 50 camera licenses. 4. The Total Manpower cost for 7 years (5 year Warranty + 2 year AMC) shall not be less than 7% of the SITC cost with a yearly increase of 6%. 5. The AMC cost for 2 years, after 5 year warranty period, shall not be less than 5% of the SITC cost.
4	123	Buy back	This tender is inclusive of buy back of the old Cameras, Server & Storage device. The bidder shall buyback approximately 3250 cameras, 80 servers, and 3 SAN storage units with a capacity of 6.5 PB. All the Servers & Storage shall be fully formatted at site.The bidder shall submit the letter for the same. The dismantling and transportation of old Cameras, Servers & Storage device from the present installation site shall be the responsibility of the contractor. Buyback prices shall be quoted in the Price Bid. The grand total of the prices quoted for SITC & AMC charges after deducting the buyback charges shall be considered for determining the lowest bidder	Kindly share us the existing asset details with make & Model,Year of purchased and Working details for ascertain the buyback value.	1. The Buyback details with Make,Model,Quantity,Year of purchase are attached.(Sl No 702) 2. The buy back includes hardware only. 3. Back up flagged/retrieved CCTV footages are stored separately. This is not in the scope of formatting by the bidder. 4. The items can be disposed which is in the scope of the bidder.
				CIAL shall take the responsibility for required old Stored flag/Recorded video data backup prior to dismantling. Kindly confirm	
				Will the OS, and DB software running on the existing server be included for buyback? Kindly confirm.	
				1) Kindly provide the detailed specification (makes/ models/ type/ specs) of CCTV cameras, Servers and storage devices. 2) let us know whether we can utilize the buy back cameras and storage devices and servers , and software license . 3) What is the installed time period of the products.	
				Requesting CIAL to share the make & model, EOL of all the devices includes old Cameras, Server & Storage device etc.. as mentioned in RFP so that bidder can reach to a best valuable & justified price.	
				Kindly share the make and model details for the existing camera, server and SAN Storage	
				We request to convert buy back clause into E-Waste Disposal line item. This is sustainability practise which would help CIAL to give boost on their sustainability measures on the IT side.	
5	124	Technical Presentation and POC	The bidder has to do a physical demonstration of the Cameras, VMS, Facial Recognition Software, Speed Monitoring Software, Queue Management Software and storage requirement of the quoted solution (camera and software) at CIAL with a sample size of minimum 10 cameras (4 Dome cameras, 4 Bullet cameras, 1 4K cameras and 1 PTZ cameras) before awarding the work.	Kindly need clarity that whether this POC activity will be done post price bid opening or prior to that.	1. The bidders will be Pre-qualified based on the Eligibility Criteria as per Clause 4 in the Notice Inviting Tenders in the tender document. 2. The Pre-qualified bidders shall do a Technical Demonstration/PoC of their proposed system at CIAL. 3. The bidder shall bear the cost for the Technical Demonstration/POC. 4. Compliance with the Technical specification will be evaluated during the Technical Demonstration/PoC. 5. The Commercial Bid will be opened only of those bidders who complete the Technical Demonstration/POC successfully.
				Request to share the duration of this POC for accurate cost consideration. Additionally, could you confirm whether this POC is a mandatory requirement for all bidders as part of the technical evaluation process, or if it only applies to the L1 bidder? Kindly confirm.	
				Please clarify whether the physical demonstration required after or before the bid open and please provide the tentative date for the same. Request you to consider to do the physical demo before opening the commercial bid.	
				Kindly confirm at which stage such demonstration to be done by the Bidder. Is POC part of technical evaluation of the bidder?	
6	10		The bidder should be ready for a detailed technical presentation on the proposed system in front of technical evaluation committee, if required, after the tender opening if required by CIAL. During technical presentation, the bidder should explain the detailed design and working of the quoted equipment's with advantages and limitations. The time allotted for the presentation is 3 hrs. Date and time of technical presentation will be intimated later.	Please Confirm the detailed technical presentation will be done before the commercial bid opening during technical evaluation stage OR after the Award of the work	

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	125		The demonstration shall prove the technical specifications of the cameras and VMS, bandwidth usage for various cameras at multiple resolution and frame rates, recording space requirement at multiple resolution and frame rates etc. CIAL reserves the right to reject the product if the performance was not satisfactory.	Please confirm the parameters or any document available to share with the bidders for the testing parameters to meet the requirement of CIAL during the demonstration.	
7	94	TESTS	<p>25. TESTS</p> <p>The Contractor shall produce samples of all the materials well in advance so that there is sufficient time for testing of the materials and clearance of the same.</p> <p>All the materials to be used in and on every part of the works shall be subjected, from time to time, to such tests as the Engineer-in-Charge may direct. Such tests shall be performed at the expenses of the Contractor.</p>	Kindly need to understand whether the tests will be performed at site or at Contractor premises. Also need to understand whether the tests will be for individual products or the system as a whole. We assume that FAT will not be applicable for this project. Please confirm.	<p>Tests will be performed at the CIAL site. However FAT is required for the cameras.</p> <p>Factory Acceptance Testing: Inspection of materials/Equipments to be witnessed at the Manufacturer's premises in accordance with relevant Inspection Procedure and Tender specifications. All arrangements for conducting the inspection and testing at the factory shall be responsibility of the Contractor. The offered equipments along with the capability to produce/manufacture them shall be presented for a physical evaluation before a committee of 3 Officers, constituted by CIAL. For the purpose of conducting Factory Acceptance Tests (FAT) and Site visits, whichever applicable, the entire expenditures such as business class Air travel, surface journey, visa fee, Boarding & Lodging and allied expenses shall be borne by the Contractor. These expenditures shall be deemed to have been included by the Contractor in the bid cost as part of the project cost and no separate payment, whatsoever, in this regard shall be made to Contractor. Site Acceptance Testing (SAT) of the materials/ equipments will also be carried out by CIAL after delivery and installation of equipments at site.</p>
8	200	FORM II	Particulars of Make, model and configuration of equipment's quoted by bidder. (To be filled and submitted along with the tender document)	Kindly clarify that bidder can needs to provide single Make & model or bidder can offer Multiple make & Model as per approved Makes list	Bidder can quote single or multiple makes and model and same can be mentioned in the FORM-II. If Multiple makes are quoting then it should tightly integrated with VMS
9	121	Form IV	The contractor shall submit the following: 1. OEM authorization in the prescribed format attached as Form IV.	Please Confirm the OEM authorization has to be submitted as per form III, Form IV is for (Particulars of Sub Contractors) .	The contractor shall submit the following: 1. OEM authorization in the prescribed format attached as Form III. (page 202)
				Form IV is missing in the RFP. Request to share the document.	
10	13	Power of Attorney	Power of Attorney of the person signing the Tender documents. Attested copy of proof should be submitted to ensure that person, who is signing the Unconditional Acceptance Letter and Tender document have the power to sign the same/delegate, that execution power, as per the Company's Article of Association or Board Resolution. If the execution power is delegated, proof for the same should be submitted, with attestation by a Notary public	Requesting CIAL to provide the format of undertaking, if any or to submit the same in bidder standard format	Power of Attorney format is attached. (Sl No 720)
11	115	System Integration	<p>7. System Integration</p> <p>The responsibility of installing the hardware, software and networking components lie with the contractor and integrating with external systems like Baggage Handling System, Access Control system (if required by CIAL), Master Clock etc also lies with the contractor. The integrator has to select the OEMs from the approved makes. However, it is the responsibility of the integrator to meet the contract conditions. The system integrator is supposed to have complete knowledge of all industry standards. So all the industry standard functionalities relevant for each device, packages should be incorporated in the system by the integrator.</p>	Request CIAL to confirm whether this is a must activity or it's a feature CIAL is considering for future integration, as this has cost implications. We request CIAL to facilitate in obtaining the API/SDK from the respective OEM for the required integration.	<p>APIs for integration with third party applications will be provided by third party vendors. The CCTV contractor shall provide suitable APIs and integrate the third party applications with the CCTV System (in coordination with the third party vendors). The same shall be done without additional expenditure to CIAL.</p> <p>The VMS should have open APIs/SDKs/Plugins for integrating with third party analytics in future without additional expenditure to CIAL.</p>
				Access control integration if required by CIAL can be done through Hardwired connection as software level details are not available at this stage.	
				Request to share the specific integration requirement with the Baggage Handling System, Access Control system & Master Clock along with respective Make/Model numbers of the Baggage Handling System, Access Control system & Master Clock systems with which the system needs to be integrated.	
				Kindly confirm any additional integrations like Baggage Scanning system, Access Control System, Master Clock system etc shall be decided at the later stage on mutually agreed prices. Currently, no of data points, methodology, use cases for integrations are not defined in the RFP.	
				Request CIAL to provide the required API/SDK for the respective OEM Free of cost for integration.	
				Will CIAL provide the on ground subject matter expertise of existing deployed OEM boxes and external systems like Baggage Handling System, Access Control system? Will CIAL make the changes in existing boxes and external systems, during integration, with OEM SME at field.	
				Need clarity of existing production environment.	
12	141	Proven Track Record (PTR)	Cameras shall have a Proven Track Record (PTR) of successful operation (minimum 500 cameras) for a minimum period of 6 months post commissioning in reputed organizations as on bid submission date. PTR of same series cameras is acceptable if change in model no. of camera is only due to higher or better version of technical specifications.	The approved make in tender states OEM make for both camera and VMS software separately. However, the OEM qualification or the PTR clause is only stated for cameras and not for end to end solution including Cameras and VMS software which are both equally critical components for such end to end IP based video surveillance system. Hence, we would like to request to kindly include OEM Pre-qualification criteria with PTR for proposed Camera series and the VMS software such that the OEM solution of cameras and VMS software proposed for this prestigious project has been successfully implemented in a Govt. critical infrastructure project of 4000+ cameras based on the size and requirement of Cochin airport project.	PTR of earlier series can be provided if upgraded versions are proposed in the tender.

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			feature/ parameter(s) available in the offered camera. Documentary proof (PTR along with supporting documents) shall be submitted during bid submission	<p>Please change as "same make", instead of "same series" of 500 cameras, as the technology asked for in the tender is latest AI technology with ONVIF profile M, which is recently introduced in the market. Hence the AI series shall be a recent launch and will not have the requisite PTR yet.</p> <p>We are proposing upgraded version of a series of cameras, which was launched last year. We will provide the performance certificate of the earlier series, hope the same is acceptable</p>		
13		Additional Clause	Camera OEM	Do Camera OEM need to mention chipset, model, country of origin, which type of encryption is being used, and data security feature?	Camera OEMs must submit a declaration on their letterhead specifying the Chipset make, Model, Encryption, Country of origin of the proposed cameras.	
14	141 - 143	Dome Camera	Pixel: 4MP	Request you to consider 5MP resolution in place of 4MP resolution.	Pixel: 4MP or Higher	
				We request you to kindly consider 2MP instead of 4MP as 2MP cameras have better sensitivity than 4MP cameras especially in low light conditions. This is only a suggestion.		
			Iris : P-iris	We request you to kindly consider DC Iris/ P IRIS for wider participation as there is not much difference between DC IRIS and P IRIS lens in terms of image equality	As Per Tender	
				Kindly accept DC Iris for cameras .		
			Focal Length: 3.4 - 10.2 mm (+/-1mm)	Please allow the other ranges of focal lengths(3-8 mm) , as long as the camera meets the requirement of the HFOV, VFOV and IR distance mentioned in tender. Since many OEMs offers different focal length ranges with the combination of sensor size to achieve the required HFOV and VFOV. This will allow many OEM participation and benefit the CIAL to get the best of technologies.	The specification is revised as follows: Focal Length: 3.4 - 10.2 mm (+/- 25%)	
				Request to consider Focal Length of 2.7 -13.5 mm (+/-1mm) . A shorter focal length results in a wider angle shot and larger field of view. This will fulfill the functional & technical requirements of the project.		
			Frame Rate: 25fps, Video Streaming: 3	Please mention: Minimum 4 simultaneous video streams are required in the Camera; Stream 1: Live Stream 2: Recording Stream 3: DR Stream 4: Any third party analytics	The specification is revised as follows: 1. Frame Rate: 25fps, Video Streaming: 3 2. Minimum three(3) simultaneous video streams (2 streams of 4 MP and 1 stream of HD) are required in the Camera without degrading the quality and performance.	
				Request to make " cameras should provide minimum 3 streams with 25fps at full resolution ".		
			AI Based Edge Analytics: 1. Object Detection 2. Unattended Object Detection 3. Missing Object Detection 4. Multi Loitering 5. Line Crossing Detection 6. Intrusion Detection 7. People Counting	We will provide Object detection, Multi Loitering, Line Crossing Detection, Intrusion Detection, People Counting. For Unattended object and missing object detection are depend on the scene condition and request you to allow us to provide third party analytics either on edge or server.	The specification is revised as follows: AI Based Edge Analytics: 1. Object Detection with Classification (Person and Vehicle) 2. Multi Loitering 3. Line Crossing Detection 4. Intrusion Detection 5. People Counting 6. Unattended Object Detection 7. Missing Object Detection The camera should be capable of simultaneously performing a minimum of five edge analytics tasks without any degradation in the camera's performance. 1. If Unattended Object Detection, Missing Object Detection is not available as Edge based Analytics, then the same shall be included as third party analytics, integrated with VMS, for atleast 100 cameras (dome + bullet+PTZ). 2. Tail Gating also needs to be included along with Queue Management. 3. The VMS provider will ensure seamless integration of Edge analytics and video analytics without compromising performance.	
				Kindly remove the missing object. As per RFP Camera shall support AI Analytics (AI only defines person and vehicle), if a person/ vehicle missed or leave that area then only the camera will give an alarm. Kindly accept people counting or objects in area. As the camera will give an alarm if count of person/vehicle exceeds in a particular area		
				Please add: Queue management, Heatmap Person and Face Classification;Being a dome camera, mostly deployed in Indoor application of Airport premises, it is important to have metadata details of Person and Face detection for Post Incident Analysis / Forensic analysis. In Check-in Counters / Security Check Areas / Gates - Queue management is crucial for ensuring streamlined movement of people. For areas which are crowded, Heatmap shall help the control room understand and take necessary action for clearance.		
				Request to consider adding Crowd Detection / Directional Counting . This will fulfill the functional & technical requirements of the project.		
				Kindly include Face Detection analytics as well for these cameras.		
			Protection: IP67,IK10 rating	We request you to kindly consider IP66 or better as it is an indoor requirement	The specification is revised as follows: Protection: IP66/67/NEMA4X, IK10 rating	
				Since the dome cameras will be in indoor condition, IP67 rating (outdoor rating) is not necessary. CIAL can save initial cost by relaxing it and can consider only dust protection like IPS2.		
				Kindly accept IP52, IK10 rating for indoor camera. Also Please give the bifurcation quantity for indoor and outdoor Cameras.		
				Please add: NEMA4X; NEMA 4X is designed to be weatherproof and suitable for hot, dusty locations subject to wind abrasion, damp locations with lots of rainfall. Considering the climatic conditions of Kerala, it is recommended for NEMA4X.		
			Wide Dynamic Range: >120dB	Please change it as >/=120dB; In general WDR starts with 120dB. Hence, WDR=120dB may be the starting reference.	Wide Dynamic Range: 120dB or better	

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			IR Distance: 40m	We request you to kindly consider 30m or better IR for wider participation.	IR = 30m or more
				Please accept a 30 meter IR Range for indoor cameras. In airports dome cameras used for wide FOV angle and as per lens size camera will not cover more than 30 meter vertical distance in indoor areas	
			Backlight Compensation:WDR, BLC, HLC, Defog	Kindly remove HLC feature as this feature normally required for harsh lighting conditions coming directly towards the camera sensor, such as License Plate capture application.	The specification is revised as follow: Backlight Compensation: WDR, BLC,Defog
			Login Authentication,IP Address Filtering,User access log,Digest Authentication,Firmware encryption,Device Certificate,SSH / Telnet closed,HTTPS	Please add: Secure OS/Boot/Storage. Verify firmware forgery, 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2), CyberSecurity assurance program UL CAP(UL 2900-1); for highest level of Data Security at the hardware level.Please remove: SSH/Telnet closed, as it is not significant in Data Security.	The specification is revised as follows: Login Authentication,IP Address Filtering,User access log, Digest Authentication,Firmware Encryption,Device Certificate,HTTPS, TEE/SE/TPM and TLS 1.2
				Given the increasing threat levels and security vulnerabilities, IP video surveillance system in a critical infrastructure needs to be equipped with latest cybersecurity features. Latest IP cameras from all global reputed OEMs now come equipped with TPM (trusted platform module) module or commonly referred as encryption module to maximise data security and protect from external cyber-attacks. TPM module uses cryptography to help securely store essential and critical information on processor in separate secured chip to enable platform authentication and provides enhanced security as compared to software by generating random authentication numbers and storing the correlated encryption keys within the module which is completely secured. FIPS-140-2 (Federal Information Process Standards) is a security standard for cryptographic modules adopted worldwide for electronic components deployed in critical infrastructure. Even the existing Tetra radio system operational in Cochin Airport is equipped with FIPS-140-2 encryption. Hence, we would like to request that 'FIPS-140-2 TPM encryption' is included for cameras as part of Data Security to ensure all OEMs offer latest generation IP cameras for this prestigious project.	
				Kindly include Inbuilt Cyber security hardware chipset FIPS 140-2 Compliant for all these cameras	
			Power over Ethernet: Dual power supply POE & 12V DC	We request you to consider the POE only, since we don't need 12V DC to power the cameras. Hence we request you to consider this.	Power over Ethernet: Dual power supply POE & 12V DC (optional)
			Warranty: 5 years On-site OEM comprehensive warranty	Request to consider and add 'manufacturer should offer product support and repair for at least 6 year once the product is discontinued'.	Warranty: 5 years On-site OEM comprehensive warranty and 2 years comprehensive AMC after warranty period.
			ITC of Fixed Dome Camera (With Enclosure, Mounting Accessories and all other accessories required for the completion of work)	Kindly share the Drawings, details to consider the mounting accessories, Indoor/outdoor enclosures etc	Quantity of camera mounts already mentioned in BoQ.
			ITC of Fixed Dome Camera (With Enclosure, Mounting Accessories and all other accessories required for the completion of work)	The Installed Qty is not matching the supply qty. We assume the supply qty is with spare qty. Kindly confirm	Spare quantity
			Image Device: 1/2.8 or better, CMOS Sensor	Please change it to 1/2" CMOS or better. Larger Image sensor will produce clearer images because the pixels are larger and therefore capture more light, creating more detail of Images for Post incident analysis, considering Airport as a Critical Infrastructure	As Per Tender
				We request you to kindly consider 1/2.9 / 1/2.8 or better CMOS sensor for wider participation.	
			Storage: Provision for 256GB or Higher (Micro SD/SDHC/SDXC)	Tender calls for Edge storage with only 256GB or higher. The latest cameras comes with provision up to 2TB storage on edge. Request you to consider the latest technology with 2 TB.	
			Dome Camera - ONVIF Compliance - S, G, T, M	Request to consider Onvif Profile (M) optional and camera is having capability to provide object classification as required and it will fulfill the functional & technical requirements of the project.	
			Pixel : 4MP	Request you to consider 5MP resolution in place of 4MP resolution.	Pixel : 4MP or Higher
			Iris: P-Iris	We request you to kindly consider DC Iris/ P IRIS for wider participation as there is not much difference between DC IRIS and P IRIS lens in terms of imag equality	As Per Tender
			Focal Length: 3.4 - 10.2 mm (+/-1mm)	Please allow the other ranges of focal lengths(2.8-8mm), as long as the camera meets the requirement of the HFOV, VFOV and IR distance mentioned in tender. Since many OEMs offers different focal length ranges with the combination of sensor size to achieve the required HFOV and VFOV. This will allow many OEM participation and benefit the CIAL to get the best of technologies.	The specification is revised as follows: Focal Length: 3.4 - 10.2 mm (+/- 25%)
				Request to consider Focal Length of 2.7 -13.5 mm (+/-1mm) . A shorter focal length results in a wider angle shot and larger field of view. This will fulfill the functional & technical requirements of the project.	
			IR Distance: 40 m	We request you to kindly consider 30m or better IR for wider participation.	IR = 30m or more
				Request to make "cameras should provide minimum 3 streams with 25fps at full resolution".	The specification is revised as follows:

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15	143 - 144	Bullet Camera	Frame rate: 25fps Video Streaming:3	Please mention: Minimum 4 simultaneous video streams are required in the Camera; Stream 1: Live Stream 2: Recording Stream 3: DR Stream 4: Any third party analytics	1. Frame Rate: 25fps, Video Streaming: 3 2. Minimum three(3) simultaneous video streams (2 streams of 4 MP and 1 stream of HD) are required in the Camera without degrading the quality and performance.
			AI Based Edge Analytics: 1. Object Detection 2. Unattended Object Detection 3. Missing Object Detection 4. Multi Loitering 5. Line Crossing Detection 6. Intrusion Detection 7. People Counting	Please add: Queue management, Heatmap Person and Face Classification Vehicle Type Classification: car/bus/truck/motorcycle/bicycle Being a bullet camera, deployed in both Indoor and outdoor application of Airport premises, it is important to have metadata details of Person and Face detection for Post Incident Analysis / Forensic analysis. In Check-in Counters / Security Check Areas / Gates - Queue management is crucial for ensuring streamlined movement of people. For areas which are crowded, Heatmap shall help the control room understand and take necessary action for clearance. Bullet cameras, largely installed in outdoor application, it is important to have data of Vehicle movement to classify the type of the vehicle and can be used for Post incident analysis. Kindly include Face Detection analytics as well for these cameras.	The specification is revised as follows: AI Based Edge Analytics: 1. Object Detection with Classification (Person and Vehicle) 2. Multi Loitering 3. Line Crossing Detection 4. Intrusion Detection 5. People Counting 6. Unattended Object Detection 7. Missing Object Detection The camera should be capable of simultaneously performing a minimum of five edge analytics tasks without any degradation in the camera's performance.
				Request to consider adding Crowd Detection / Directional Counting . This will fulfill the functional & technical requirements of the project.	1. If Unattended Object Detection, Missing Object Detection is not available as Edge based Analytics, then the same shall be included as third party analytics, integrated with VMS, for atleast 100 cameras (dome + bullet+PTZ).
				We will provide Object detection, Multi Loitering, Line Crossing Detection, Intrusion Detection, People Counting. For Unattended object and missing object detection are depend on the scene condition and request you to allow us to provide third party analytics either on edge or server.	2. Tail Gating also needs to be included along with Queue Management. 3. The VMS provider will ensure seamless integration of Edge analytics and video analytics without compromising performance.
			Wide Dynamic Range: >120dB	Please change it as >/=120dB; In general WDR starts with 120dB. Hence, WDR=120dB may be the starting reference.	Wide Dynamic Range:: 120dB or better
			Backlight Compensation: WDR, BLC, HLC, Defog	Kindly remove HLC feature as this feature normally required for harsh lighting conditions coming directly towards the camera sensor, such as License Plate capture application.	The specification is revised as follow: Backlight Compensation: WDR, BLC,Defog
			Protection: IP67,IK10 rating	We request you to kindly consider IP66 or better for wider participation.	The specification is revised as follows:
				Please add: NEMA4X; NEMA 4X designed to be weatherproof and suitable for hot, dusty locations subject to wind abrasion, damp locations with lots of rainfall. Considering the climatic conditions of Kerala, it is recommended for NEMA4X.	Protection: IP66/67/NEMA4X, IK10 rating
			Data Security: Login Authentication,IP Address Filtering,User access log,Digest Authentication,Firmware encryption,Device Certificate,SSH / Telnet closed,HTTPS	Please add: Secure OS/Boot/Storage. Verify firmware forgery, 802.1X Authentication[EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2], CyberSecurity assurance program UL CAP[UL 2900-1]; for highest level of Data Security at the hardware level. Please remove: SSH/Telnet closed, as it is not significant in Data Security.	The specification is revised as follows: Login Authentication,IP Address Filtering,User access log, Digest Authentication,Firmware Encryption,Device Certificate,HTTPS,TEE/SE/TPM and TLS 1.2
			Power over Ethernet: Dual power supply POE & 12V DC	We request you to consider the POE only, since we don't need 12V DC to power the cameras. Hence we request you to consider this.	Power over Ethernet: Dual power supply POE & 12V DC (optional)
			Warranty: 5 years On-site OEM comprehensive warranty	Request to consider and add "manufacturer should offer product support and repair for at least 6 year once the product is discontinued".	Warranty: 5 years On-site OEM comprehensive warranty and 2 years comprehensive AMC after warranty period.
			Image Device : 1/2.8 or better, CMOS Sensor	Please change it to 1/2" CMOS or better. Larger Image sensor will produce clearer images because the pixels are larger and therefore capture more light, creating more detail of Images for Post incident analysis.	As per tender
			Storage: Provision for 256GB or Higher (Micro SD/SDHC/SDXC)	Tender calls for Edge storage with only 256GB or higher. The latest cameras comes with provision up to 2TB storage on edge. Request you to consider the latest technology with 2 TB.	
			ONVIF Compliance - S,G,T,M	Request to consider Onvif Profile (M) optional and camera is having capability to provide object classification as required and it will fulfill the functional & technical requirements of the project.	
			Not Available	Please add: When alarm trigger occurred - File upload(image); e-mail/FTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Audio clip playback - MQTT: publication Alarms when generated should take further actions as above.	
			Lens : 5-150mm or better (+-1mm) Optical Zoom : 30X	Kindly accept lens 6.5-125mm as 20x zoom	Optical zoom for Indoor PTZ Camera: 20X or better for without IR facility
				Please allow the other ranges of focal length (4.5-135 mm) , as long as the camera meets the requirement of the HFOV, VFOV, 30x and IR distance mentioned in tender. Since many OEMs offers different focal length ranges with the combination of sensor size to achieve the required HFOV and VFOV. This will allow many OEM participation and benefit the CIAL to get the best of technologies.	Optical zoom for Outdoor PTZ Camera: 30X or better for IR facility Lens: Compatible with above mentioned Optical Zoom parameters

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16	145 - 146	PTZ Camera	IR Distance: 200m	<p>Airports terminals are all equipped with well illuminated environment for all indoor areas. Moreover, PTZ Cameras used in airports are considered with in-ceiling mount. Camera with IR will be very bulky to mount and more importantly will not solve any purpose for indoor as the IR will not be enabled/used given the well illuminated environment. IR will only be relevant for outdoor areas like perimeter area etc with not so good lighting conditions. Hence, we would like to request that IR based PTZ is only considered for outdoor area deployment and accordingly a break-up provided for PTZ without IR for indoor and PTZ with IR for outdoor locations.</p> <p>kindly remove IR Range in Indoor PTZ.Camera as Airports from inside are highly illuminated</p> <p>Kindly share the Quantity for PTZ Camera for Indoor and Outdoor areas</p>	<p>Bidder can either quote all PTZ cameras (250 Nos) with IR facility</p> <p>OR</p> <p>125 cameras with IR Facility for outdoor application and 125 cameras without IR facility for indoor application.</p> <p>Without IR Camera (Optical zoom: 20X or better for without IR facility and IR: 0m)</p> <p>With IR Camera (Optical zoom: 30X or better for without IR facility and IR: 200 m)</p>
			Pan Speed: 300°/s	We request you to kindly consider pan speed upto 240°/s for wider participation as we have only 1 option of 4MP PTZ. We do not have other options available. We have pan speed available upto 400°/s but in our 2MP PTZ camera	Pan Speed: 230°/s or better
			Tilt Speed : 300°/s	We request you to kindly consider tilt speed upto 100°/s for wider participation as we have only 1 option of 4MP PTZ. We do not have other options available. We have tilt speed available upto 300°/s but in our 2MP PTZ camera	Tilt Speed : 100°/s or better
			Frame rate:25fps Video Streaming: 3	<p>Request to make cameras should provide minimum 3 streams with 25fps at full resolution'.</p> <p>Please mention: Minimum 4 simultaneous video streams are required in the Camera; Stream 1: Live Stream 2: Recording Stream 3: DR Stream 4: Any third party analytics</p>	<p>The specification is revised as follows:</p> <p>1. Frame Rate: 25fps, Video Streaming: 3</p> <p>2. Minimum three(3) simultaneous video streams (2 streams of 4 MP and 1 stream of HD) are required in the Camera without degrading the quality and performance.</p>
			Tracking: Auto Tracking	<p>Our camera support Auto Tracking with support of VMS. Request you to kindly consider for wider participation. We have this feature available in 2MP PTZ camera.</p> <p>Please add Auto tracking feature in PTZ Camera which will help to track the object if any alarm raised from fixed cameras</p>	<p>Tracking : Auto Tracking(Camera In-built) or through VMS</p>
			AI Based Edge Analytics: 1. Face Detection 2. Line Crossing Detection 3. Multi Loitering 4. People Counting 5. Unattended/Missing Object Detection 6. Audio Detection	<p>We will provide Object detection, Multi Loitering, Line Crossing Detection, Intrusion Detection, People Counting. For Unattended object, Face detection and missing object detection are depend on the scene condition and request you to allow us to provide third party analytics either on edge or server. Please provide more information about the Face detection.</p> <p>Kindly include Face Detection analytics as well for these cameras.</p> <p>Request to consider adding Crowd Detection / Directional Counting. This will fulfill the functional & technical requirements of the project.</p> <p>Please add: Classification of Person, Face, Vehicle, License plate Vehicle Type Classification: car/bus/truck/motorcycle/bicycle Being a PTZ camera, being in both Indoor and outdoor application of Airport premises, it is important to have metadata details of Person and Face detection for Post Incident Analysis / Forensic analysis.In outdoor application, it is important to have data of Vehicle movement to classify the type of the vehicle and License plate and can be used for Post incident analysis.</p>	<p>The specification is revised as follows:</p> <p>AI Based Edge Analytics:</p> <p>1. Object detection with classification (Person and Vehicle)</p> <p>2. Multi Loitering</p> <p>3. Line Crossing Detection</p> <p>4. Intrusion Detection</p> <p>5. People Counting</p> <p>6. Unattended/ Missing Object Detection</p> <p>1. The camera should be capable of simultaneously performing a minimum of five edge analytics tasks without any degradation in the camera's performance.</p> <p>2. . If Unattended Object Detection, Missing Object Detection is not available as Edge based Analytics, then the same shall be included as third party analytics, integrated with VMS, for atleast 100 cameras (dome + bullet+PTZ).</p> <p>3. The VMS provider will ensure seamless integration of Edge analytics and video analytics without compromising performance.</p>
			WDR: >120dB	Please change it as >/=120dB; In general WDR starts with 120dB. Hence, WDR=120dB may be the starting reference.	WDR: 120dB or better
			Backlight Compensation: WDR, BLC, HLC, Defog	Kindly remove HLC feature as this feature normally required for harsh lighting conditions coming directly towards the camera sensor, such as License Plate capture application.	<p>The specification is revised as follow:</p> <p>Backlight Compensation: WDR, BLC,Defog</p>
			Protection: IP66/67, IK10 rating	Please add: NEMA4X; NEMA 4X designed to be weatherproof and suitable for hot, dusty locations subject to wind abrasion, damp locations with lots of rainfall. Considering the climatic conditions of Kerala, it is recommended for NEMA4X.	<p>The specification is revised as follows:</p> <p>Protection: Outdoor PTZ with IR facility: IP66/67/NEMA4X, IK10 rating</p> <p>Indoor PTZ without IR Facility: IP52 or higher</p>
			Data Security: Login Authentication,IP Address Filtering,User access log,Digest Authentication,Firmware encryption,Device Certificate,SSH / Telnet closed,HTTPS	<p>Please add: 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)</p> <p>Please remove: SSH/Telnet closed, as it is not significant in Data Security</p>	Data Security: Login Authentication,IP Address Filtering,User access log, Digest Authentication,Firmware Encryption,Device Certificate,HTTPS,TEE/SE/TPM and TLS 1.2
			Warranty: 5 years On-site OEM comprehensive warranty	Request to consider and add 'manufacturer should offer product support and repair for at least 6 year once the product is discontinued'.	Warranty: 5 years On-site OEM comprehensive warranty and 2 years comprehensive AMC after warranty period.
			Storage:Provision for 256GB or Higher (Micro SD/SDHC/SDXC	Tender calls for Edge storage with only 256GB or higher. The latest cameras comes with provision up to 2TB storage on edge. Request you to consider the latest technology with 2 TB.	
			Certification-NDAA 889, CE, UL Listed, BIS	We only have 1 PTZ camera with 4MP resolution and it is not NDAA. We have other certifications available with us like BIS, CE, UL FCC etc which is required as per BCAS guidelines. Request you to kindly consider NDAA 889/ CE, UL Listed, BIS	

Tender for SITC of CCTV Surveillance System at CIAL (Tender Reference Number CIAL/COMMN/CCTV/24)						
Sl No.	Page No.	Section Name	Tender Conditions	Query	Reply to Query	
17	147-148	4K Camera	Power over Ethernet : PoE+ & AC 24V	Please consider PoE+/HPoE/AC 24AC as PTZ camera will be compact so its designed with HPoE port	As Per Tender	
			ONVIF Compliance - S, G, T, M	Request to consider Onvif Profile (M) optional and camera is having capability to provide object classification as required and it will fulfill the functional & technical requirements of the project.		
				Please add: Wiper and Lens Heater; Considering the climatic conditions of Kerala, it is recommended to have Wiper and Lens Heater;		
				Please add: Target Lock Tracking; Precise target locking mechanism enables the PTZ camera to locate the exact movement of the Intruder - Person and Vehicle, which helps in maximising the Security threat extent. Eg: In a scenario, where the PTZ is currently tracking a Intruded person. In the same scene if any other motion based alarm occur which is larger rate of pixelation when compared to the person, which may not be relatively significant as much as Person intrusion, the camera is prone to shift the tracking from the intruder to the other motion based alarm, leading to loss of important data. Hence, Target lock tracking is mandatory for Airport application.		
				Please add: When alarm trigger occurred - File upload(image) : e-mail/FTP - Notification : e-mail - Recording : SD/SDHC/SDXC or NAS recording at event triggers - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - MQTT: publication Alarm output / Audio clip playback		
				Please clarify the form factor - Dome / Bullet?	4K Camera (Bullet)	
			Focal Length: 3.4 - 10.2 mm (+/-1mm)	Request approval for focal length range 6.2 - 12.9mm, camera have 1/1.2" big sensor which is better than tender specification 1/2.8" to meet the requirement of the HFOV, VFOV and IR distance mentioned in tender.	Focal length range of 6.2 - 12.9mm with 1/1.2" sensor is acceptable.	
			Frame rate:25fps Video Streaming:3	Request to make: "cameras should provide minimum 3 streams with 25fps at full resolution" . Please mention: Minimum 4 simultaneous video streams are required in the Camera; Stream 1: Live Stream 2: Recording Stream 3: DR Stream 4: Any third party analytics	The specification is revised as follows: 1. Frame Rate: 25fps, Video Streaming: 3 2. Minimum three(3) simultaneous video streams (2 streams of 8 MP and 1 stream of HD) are required in the Camera without degrading the quality and performance.	
			AI Based Edge Analytics: 1.Object Detection 2. Multi Loitering 3. People Counting 4. Face Detection 5. Line Crossing Detection 6. Unattended Object Detection 7. Missing Object Detection 8. Intrusion Detection	We will provide Object detection, Multi Loitering, Line Crossing Detection, Intrusion Detection, People Counting. For Unattended object and missing object detection are depend on the scene condition and request you to allow us to provide third party analytics either on edge or server. Please add: Classification of Person, Face, Vehicle, License plate Vehicle Type Classification: car/bus/truck/motorcycle/bicycle Deployed in both Indoor and outdoor application of Airport premises, it is important to have metadata details of Person and Face detection for Post Incident Analysis / Forensic analysis. In outdoor application, it is important to have data of Vehicle movement to classify the type of the vehicle and License plate and can be used for Post incident analysis. Request to consider adding Crowd Detection / Directional Counting. This will fulfill the functional & technical requirements of the project.	The specification is revised as follows: AI Based Edge Analytics: 1. Object Detection with Classification (Person and Vehicle) 2. Multi Loitering 3. Line Crossing Detection 4. Intrusion Detection 5. People Counting 6. Unattended Object Detection 7. Missing Object Detection 8. Face Detection The camera should be capable of simultaneously performing a minimum of five edge analytics tasks without any degradation in the camera's performance. 1. If Unattended Object Detection, Missing Object Detection and Face Detection are not available as Edge based Analytics, then the same shall be included as third party analytics, integrated with VMS. 2. Tail Gating also needs to be included along with Queue Management. 3. The VMS provider will ensure seamless integration of Edge analytics and video analytics without compromising performance.	
			Wide Dynamic Range: >120dB	Please change it as >/=120dB; In general WDR starts with 120dB. Hence, WDR=120dB may be the starting reference.	Wide Dynamic Range: 120dB or better	
			Backlight Compensation: WDR, BLC, HLC, Defog	Kindly remove HLC feature as this feature normally required for harsh lighting conditions coming directly towards the camera sensor, such as License Plate capture application.	Backlight Compensation: WDR, BLC,Defog	
			Data Security: Login Authentication,IP Address Filtering,User access log,Digest Authentication,Firmware encryption,Device Certificate,SSH / Telnet closed,HTTPS	Please add: Secure OS/Boot/Storage, Verify firmware forgery CyberSecurity assurance program UL CAP(UL 2900-1); for highest level of Data Security at the hardware level. Please remove: SSH/Telnet closed as it is not significant for Data Security	Data Security: Login Authentication,IP Address Filtering,User access log, Digest Authentication,Firmware Encryption,Device Certificate,HTTPS,TEE/SE/TPM and TLS 1.2	
			Protection : IP67, IK10 rating	Please add: NEMA4X; NEMA 4X designed to be weatherproof and suitable forhot, dusty locations subject to wind abrasion, damp locations with lots of rainfall. Considering the climatic conditions of Kerala, it is recommended for NEMA4X.	The specification is revised as follows: Protection: IP66/67/NEMA4X, IK10 rating	
			Power over Ethernet: Dual power supply POE & 12V DC	Dual power required ?	Power over Ethernet: Dual power supply POE & 12V DC (optional)	

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			Warranty: 5 years On-site OEM comprehensive warranty	Request to consider and add "manufacturer should offer product support and repair for at least 6 year once the product is discontinued".	Warranty: 5 years On-site OEM comprehensive warranty and 2 years comprehensive AMC after warranty period.	
			Image Device: 1/2.8 or better, CMOS Sensor	Pease change it to 1/2" CMOS or better. Larger Image sensor will produce clearer images because the pixels are larger and therefore capture more light, creating more detail of Images for Post incident analysis.	As Per Tender	
			Storage:Provision for 256GB or Higher (Micro SD/SDHC/SDXC	Tender calls for Edge storage with only 256GB or higher. The latest cameras comes with provision up to 2TB storage on edge. Request you to consider the latest technology with 2 TB.		
			ONVIF Compliance: S, G, T, M	Kindly accept camera with Onvif profile S,G,T only for these 4K camera.		
				Request to consider Onvif Profile (M) optional and camera is having capability to provide object classification as required and it will fulfill the functional & technical requirements of the project.		
			Please add: When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Audio clip playback - MQTT: publication Alarms when generated should take further actions as above.			
18	177-179	ANPR Camera		Please provide detailed specifications of ANPR Camera	Minimum specification is mentioned in the tender.	
				ANPR camera specs are not mentioned in the tender. Please advise.	Approved makes: Bosch, Honeywell, Hanwha, Axis, Pelco, Indigo Vision	
			ANPR Camera recording shall be saved for 90 days with 2MP resolution @ 30 fps.	The ANPR server will only store the events & snapshots. The recording will be done in the CCTV camera servers.	Recording will be done in CCTV camera storage.	
			The number plate recognition system shall recognize printed license plates in standard formats and fonts in day/night, rainy and foggy weather conditions. The bidder should provide manufacturer certificate/test report in support of their claim.	System Can recognize in various conditions the plates as long as the numbers are readable by humans without ambiguity and it should Min plate width 75 pixels (1 row) & 45 pixels (2 rows) and Min Character height 10 pixels. Request acceptance accordingly	As per tender. If additional IR illumination is required for readability as per the tender, then the same shall be cosidered by the bidder.	
			Minimum Specifications provided : The camera shall be at least 2MP,30 fps, Varifocal lens, Automatic removable IR cut filter & IP 66/67.	Request to change the fps to 60 fps for the same as it is expected to capture the vehicle plate recognition at 40km/hr.	This is minimum spec. Bidder may go for higher FPS if the same is required for achieving the performance.	
19	124	Recording Configuration	The recording configuration for all cameras is outlined as follows: A. Data Centre 1:Recording for 1900 cameras under 4MP resolution @ 25 fps for 30 days. B. Data Centre 2:Recording for 1900 cameras under 4MP resolution @ 25 fps for 30 days. C. Disaster Recovery (DR) Site: Parallel recording for all 3800 cameras under HD resolution @ 25 fps for 7 days.	As per the BOQ, the total nos of cameras are 4070, but the configuration is provided for 3800 cameras only. Kindly confirm on the balance cameras.	1. Balance cameras are considered as spare cameras. 2. Storage space for 3800 cameras shall be considered as per tender specification. 3. The recording configuration for all cameras is outlined as follows: A. Data Centre 1: Recording for 1900 cameras under 4MP resolution @ 25 fps for 30 days with H.265 Compression B. Data Centre 2: Recording for 1900 cameras under 4MP resolution @ 25 fps for 30 days with H.265 Compression C. Disaster Recovery (DR) Site: Parallel recording for all 3800 cameras under HD resolution @ 25 fps for 7 days with H.265 Compression.	
				Considering the size of the project , it is recommended to consider the platform which is a proven platform to handle such a large scale project to ensure robustness of the system. In the view of same , it is recommended to consider the project experience as follows : "A. Data Centre 1: Recording for 1900 cameras under 4MP resolution @ 25 fps for 30 days. B. Data Centre 2: Recording for 1900 cameras under 4MP resolution @ 25 fps for 30 days. C. Disaster Recovery (DR) Site: Parallel recording for all 3800 cameras under HD resolution @ 25 fps for 7 days. The VMS shall have configurable DC-DR Functionality. It shall allow configuring multiple DR sites with granular control for each site for the business continuity and data replication services. The solution should have been deployed in atleast 1 project with DC & Near DR sceario & the project should be operational. "		
				As per the Tender BOQ, the total no. of cameras for ITC is 3905. Kindly update this cameras & storage distribution as per the actual cameras count which is more than the current consideration of 3800 cameras only.		
				Please reconfirm if Recording to be happened at 4 MP resolution with other parameters like Codec and Bit rate are missing.		
20	132	Storage	The storage configuration shall be implemented in RAID 6, ensuring data redundancy and fault tolerance.Following the RAID 6 setup, the minimum usable storage capacity should be 8900 TB, distributed across Data Centre 1 (4000 TB), Data Centre 2 (4000 TB), and the Disaster Recovery (DR) site (900 TB)	Please note that with the advanced compression technologies, 8900 TB storage is not necessary for the recording parameters mentioned in the tender for the DC1, DC2 and DR. Hence we request you to allow OEM/SI to arrive at the required storage capacity as per your parameters mentioned in the tender document(DC1 & DC2: 4MP, 25fps, 100% motion,30 days, DR:2MP, 25fps, 100% motion, 7 days). which can save huge initial cost to CIAL and also gives huge savings in Total cost of ownership .	As Per Tender	
21	124	Disaster Recovery (DR) Site	Disaster Recovery (DR) Site: Parallel recording for all 3800 cameras under HD resolution @ 25 fps for 7 days.	Kindly change the recording resolution at DR to Full HD 1080p for better recording clarity.	As per tender	
22	General	Recording server		Since Airport comes under critical infra, can we consider 200 cameras per Recording server which will increase the Qty	As Per Tender	
23	128	Primary/Main Camera Servers	Export recordings in a format supported by standard video players in either transcoded or non-transcoded format.	Exported video is required in which format, CD/DVD or USB	Export recordings in a format supported by standard video players in either transcoded or non-transcoded format. It should be exported in CD/DVD and USB Pen Drive . The system should have provision for tamperproofing the exported video or provision for verifying whether the exported video got tampered or not.	

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24				Is it mandatory for all bidders to quote both options? Can bidder choose to offer only Option 2?	Bidder shall quote for either option 1 or option 2.
25	126-127	Management Server	Core - 12	Kindly change this clause as following - 'Core - 16' because there is no Xeon Gold processor with 12 Core.	Core - 16 or higher
			Number of Ethernet Ports - 2 x 1G SFP with module & RJ 45	Kindly change this clause as following - "Number of Ethernet Ports - 2 x 10G SFP+ with module & 2x 1G BaseT Ethernet"	Number of Ethernet Ports - 2 x 1G/10G SFP with module & 2 x 1G BaseT Ethernet
				Please specify if the required port is SFP or RJ45 or separate 1G card is required for both SFP and RJ45 support.	
			Data Protection:Keep Faulty Hard Drive at CIAL	As per warranty standard faulty hardware need to go back to OEM. If same to be kept at CIAL then we have factor additional hard drive for operations	Faulty hard disk can be taken to OEM for warranty purpose provided the same is properly formatted at CIAL premise.
			Operating System :Windows Server 2022 OS 64bit	This clause is restrictive & contradicts with the Clause mentioned on Pg 178 of VMS system. To ensure openness of the proposed solution , application platform should be OS agnostic. In the view of the same , we request to amend the clause as : 'Operating System :Windows Server 2022 OS 64bit , Ubuntu , Linux , RHEL (As per bidders proposed solution) '	As Per Tender
				Request to please Specify the Flavour of OS.	Minimum specification is mentioned.Bidder can the provide suitable flavour as required by the VMS vendor.
				In case if bidder is proposing any OEM who supports Operating System other than Microsoft Windows, then it is not applicable. So request CIAL authority to modify the clause as Operating System : Windows Server 2022 OS 64bit or Any other Operating System supported by OEM.	As per Tender
			The Management Server shall be Microsoft SQL Server Standard 2022. The vendor should provide the Microsoft SQL Server license.	As per RFP pg no 178 , Proposed VMS system should be an open standard & open architecture based platform whereas it is asking for Microsoft server standard SQL license. This is contradicting by mandatorily asking for Microsoft SQL server. As per Govt of India DPIT norms, proposed application platform should be OS agnostic. In the view of same , it is requested to ammend the clause as : " The Management Server shall be Microsoft SQL Server Standard 2022 , MYSQL & PostGre supported . The vendor should provide the Microsoft SQL /MySQL or Postgre Server license as per proposed solution . "	As Per Tender
				Request to change as vii. The Management Server shall be Microsoft SQL Server Standard 2022. The vendor should provide the Microsoft SQL Server license. No SQL Express version has to be quoted for any of the VMS server components.	Bidder should provide Microsoft SQL Server Standard 2022 license . No other license shall be accepted.
				In case if bidder is proposing any OEM who supports databases other than Microsoft SQL, it is not applicable. So request CIAL authority to modify the clause as vii. The Management Server shall be Microsoft SQL Server Standard 2022 or any other DB supported by OEM . The vendor should provide the Microsoft SQL Server license or other DB license as proposed .	As per Tender
			Ports - USB 3.0, Network Port, Display Port/HDMI, Video Port (VGA)/DP port	Kindly change this clause as following - "Ports - USB 3.0, Network Ports, VGA Port"	Ports - USB 3.0, Network Port, Display Port/HDMI/Video Port (VGA)/DP port
				Request CIAL authority to remove 'Display Port/HDMI' as only VGA Port (VGA) comes with server hardware.	
			Must be certified by the VMS manufacturer for the performance (certificate to be attached along with bid)	Please remove this clause : Some reference architectures may be there for VMS manufactures with hardware OEMs but certification kind may not be there for all VMS vendors.	As per tender
			EOL: Product should not reach End of Life and support during the contract period.	EOS - Product should not reach End of support during the contract period. Please change to EOS - end of support is important to customer. EOL is something any OEMs may announce but what is important to customer is EOS. Hence kindly change as requested.	
			Certifications: BIS, UL	Request to consider mentioning BIS, EPR / UL / Any Indian Standard Certifications .	
			EDR should be provided.	EDR is EOL. Now HDR is Only Available. Request to consider amending the same.	EDR: Endpoint Detection and Response/Antivirus Solution shall be provided.
				Please clarify what is meant by EDR here ?	
				EDR is not supportive and relevant in Server context. So request CIAL authority to remove this from server hardware specifications.	
26	NA	NA	DC1-DC2-DR Configuration	DC1-DC2-DR Configuration for Camera/VMS Kindly confirm if prescribed DC1-DC2-DR configuration is required for Video Analytics Servers as well	
27		Redundant Management Server at Data Centre 2 (DC2)	viii. It shall support real-time synchronization of configuration databases using SQL Mirroring or SQL Always On	In case if bidder is proposing any OEM who supports databases other than Microsoft SQL, it is not applicable. So request CIAL authority to modify the clause as viii. It shall support real-time synchronization of configuration databases using SQL Mirroring or SQL Always On or using any other methods that supported by OEM.	As per tender
28	128	CAMERA/RECORDING SERVERS	The Server shall possess the capability to accommodate a substantial amount of disk space for online video storage	2x 1.9 TB SSD required as per server specification which is only for the application & OS. Online storage will be at SAN storage level for option-1	

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Sl No.	Page No.	Section Name	Tender Conditions	Query	Reply to Query
29	129	BACKUP CAMERA SERVERS	It shall be possible to enable or disable the use of Automatic failover & fallback for each Primary Camera Server individually.	To disable Automatic failover & fallback, the server & software configuration need to be changed. However for the current requirement this is not recommended, hence kindly remove this requirement.	
30	130-137	Option 1 – Recording Servers in Virtual Environment with	The Boot Drive and Capacity drive should be separate to avoid OS failure incase Capacity drive fails	The specification in tender document is missing for Boot Drive detail. Please consider mentioning Boot drive detail	Sufficient boot drive and capacity drive required for the performance of the OS, as required by the VMS application, shall be allocated.
31	131-132	Server (Virtualization)	Memory slots : 32 DDR5 DIMM slots supports RDIMM 8TB max, speeds up to 4800 MT/s.	32 DDR5 DIMM slots supports RDIMM 4/8TB max, speeds up to 4800 MT/s.Request to amend the above clause for wider participation.	As Per Tender
			RAID Controller: Up to 24Gbps PCIe 4.0 with RAID 0, 1, 5, 6, 10, 50, 60	Up to 12G PCIe 4.0 with RAID 0,1,5,6,10,50,60 : 12G is the Latest with pcie 4.0. Not 24G. So please change to 12G	
				Up to 24Gbps PCIe 4.0/Internal with RAID 0,1,5,6,10,50,60 Every OEM has their own server architecture. In cisco server, RAID controller comes within the server in a dedicated slot rather then occupying any PCIe 4.0 slot which is available for other PCIe supported components.Request to amend the above clause for wider participation	
			Number of Ethernet Ports : 4 x 10G SFP with module & RJ 45	Please specify if the required port is SFP+ or RJ45 or separate 10G card is required for both SFP+ and RJ45 support.	Number of Ethernet Ports - 4 x 10G SFP with module & 1 x 1G BaseT Ethernet
			GPU : Support for up to 2 x 75W SW GPUs	Bidder understanding is that the server should support GPU connectivity, supply of GPU is not required for recording servers. Please confirm the same.	Yes. It should support GPU connectivity.
			Certification: Must be certified by the VMS manufacturer for the performance (certificate to be attached along with bid)	Please remove this clause :Some reference architectures may be there for VMS manufactures with hardware OEMs but certification kind may not be there for all VMS vendors.	As per tender
			Certifications: SAN Connectivity ports & accessories to be considered	Request to please Define the Speed & No. of Ports.	As required by the VMS.
			Operating System: Windows Server 2022 OS 64bit	Request to please Specify the Flavour of OS.	Minimum specification is mentioned.Bidder can the provide suitable flavour as required by the VMS vendor.
				In case if bidder is proposing any OEM who supports Operating System other than Microsoft Windows, then it is not applicable. So request CIAL authority to modify the clause as Operating System : Windows Server 2022 OS 64bit or Any other Operating System supported by OEM	
			Ports : USB 3.0, Network Port, Display Port/HDMI, Video Port (VGA)/DP port	Kindly change this clause as following - "Ports - USB 3.0, Network Ports, VGA Port"	Ports - USB 3.0, Network Port, Display Port/HDMI/Video Port (VGA)/DP port
				Request CIAL authority to remove 'Display Port/HDMI' as only VGA Port (VGA) comes with server hardware.	
			EOL: Product should not reach End of Life and support during the contract period.	EOS - Product should not reach End of support during the contract period. Please change to EOS - end of support is important to customer. EOL is something any OEMs may announce but what is important to customer is EOS. Hence kindly change as requested.	As per tender
			EDR: EDR should be provided.	Kindly clarify what is EDR.	EDR: Endpoint Detection and Response/Antivirus Solution shall be provided.
				EDR is not supportive and relevant in Server context. So request CIAL authority to remove this from server hardware specifications	
				EDR is EOL. Now HDR is Only Available. Request to consider amending the same.	
		Storage Controller: 2 x Active Hot swappable		The Storage Solution should be based on dual controllers in active-active mode configured in a NSPOF offering data assurance as per T10-Pi standard and End-to-End Data Protection. T10-Pi ensures seamless data transfers without any losses and also ensures data security.	As per Tender
				Symmetric Active-Active Controller architecture where a LUN should be accessible by all the controllers simultaneously. Bidders has to quote minimum of four controllers incase of asymmetric active-active controller architecture.	
		Cache - 64/128 GB, the system should also offer extended cache based on SSD		Kindly change this clause as following - "Cache - 32 GB, the system should also support extended cache based on SSD"	1. Cache can be either 64 or 128 as per VMS requirement. 2. Higher specifications are acceptable with compatible modules in switch and storage
				Minimum 768 GB global cache on DRAM. The proposed cache should be available to both the controller. The complete cache should be accessible by all the controllers in the storage system. Only write cache must be mirrored. Cache memory should be delivered on DRAM, any other device or HDD should not be considered as cache. Please clarify whether cache required is 64GB or 128?Request removal of "extended cache based on SSD" SSD based cache has no benefit in a VMS environment that is predominantly write intensive. SSD cache can only assist in random workloads and not in sequential workloads like VMS. Further the specification is vendor specific and limits wider OEM participation.	

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32	134-135	SAN Storage Server(DC1, DC2 & DR)	RAID: RAID 0,5,6,10	Request for amendment as RAID 5/6.	As per Tender	
				Kindly change this clause as following - "RAID 1,5,6,10, ADAPT"		
				Kindly change this clause as following - "RAID 1,5,6,10, ADAPT"		
			Host Ports: 4 x 10Gb iSCSI BaseT/10Gb iSCSI SFP+/32Gbps FC/12Gbps SAS per controller.	8 x 25Gb iSCSI SFP+ or 8 X 32Gbps FC per controller	Storage Type: Block Storage System with iSCSI/FC protocol	
			Hot spare : Global Hot Spares.	Global Hot Spares. 1 Hot spare per 30 drives to be quoted.		
			Storage Type: Block Storage System with iSCSI/FC	Request change to Block Storage system with iSCSI & FC Protocol. Both Protocols supportability ensures to maximize maximum usability of SAN environment and ensure future SAN workloads capabilities.		
			Throughput - 13GB and should be in line with VMS requirement	Kindly change this clause as following - "Throughput - 13Gbps and should be in line with VMS requirement"	1. Throughput - 13Gbps and should be in line with VMS requirement.	
				13GB aggregate throughput for all the three sites i.e. DC1, DC2 & DR and should be in line with VMS requirement	2. Aggregate throughput of 13 Gbps per SAN Storage.	
			Storage System: 8TB/12TB/16TB/18TB/20TB/22T B 7200 RPM SATA/	Request for addition of 14TB drives also in the list	Storage System: 8TB/12TB/14TB/16TB/18TB/20TB/22T B 7200 RPM SATA/ SAS drives	
				3.8/7.6/15/30TB NVMe Drive, 3.8/7.6/15/30TB SAS SSD Drives, 2.4TB SAS, and 6/10/14/18TB NL-SAS Drives.		
			Hard Disk (Enterprise Class) - Western Digital, Seagate & Hitachi	Kindly change this clause as following - "Hard Disk (Enterprise Class) - reputed OEM"	As Per Tender	
				Kindly remove Specific OEM drive as all approved Storage OEMs use Enterprise Grade Hard disk drive to meet performance and reliability to the system.		
			Meet capacity and performance requirement using multiple Storage Arrays of same type.	Meet capacity and performance requirement using multiple Storage Arrays of same type without adding the controller	Reliability - 99.999%	
Must be certified by the VMS manufacturer for the performance.	Request for deletion as this will be OEM Specific.					
Reliability - 99.9999%	Kindly change this clause as following - "Reliability - 99.999%"					
	Kindly amend the requirement as: The proposed system should offer & support various security features such as encrypted drives (FDE/FIPS) , internal and external encryption key management (KMIP-compliant), Role-based access control , audit log, LDAP support, Multi-Factor Authentication, along with six 9's of availability. With getting FDE, encryption, RBAC, audit log, etc key features help system to get rid from any unauthorized access and help to achieve more availability & reliability.					
33	135	Storage Server (DC1, DC2 & DR)	Reliability: 99.9999%	Add, The proposed system should offer & support various security features such as encrypted drives (FDE/FIPS) , internal and external encryption key management (KMIP-compliant), Role-based access control , audit log, LDAP support, Multi-Factor Authentication, along with six 9's of availability. With getting FDE, encryption, RBAC, audit log, etc key features help system to get rid from any unauthorized access and help to achieve more availability & reliability. Please confirm	Storage Software Licenses: All relevant storage software licenses should be provided by OEM for 7 years. (5 years Warranty & 2 years AMC)	
			Storage Software Licenses: All relevant storage software licenses should be provided by OEM for 7 years	All relevant storage software licenses should be provided by OEM for warranty for 5 years. As Storage has been asked with 5 years warranty. Kindly clarify		
			Performance Monitoring: Real time monitoring and historical analysis of storage performance data such as total IOPS, read%, write %, cache-hit %, throughput, etc. for analyzing performance of the systems.	Easy to use based administration interface for configuration, storage management and performance analysis tools. The proposed storage should provide Proactive monitoring of the health of the system and configurable automated delivery of replacement drives when failures occur. Proactive monitoring tool with the capability of detecting faulty drives prior to impact to business help to achieve high system availability and reduce any kind of data losses. Please confirm		
34	136	SAN Switch	Ports: 24/48 FC	As the switch has been asked fully populated, it would be better to state the port capacity required rather than giving 2 options of 24 and 48. In this case all the bidders will go with minimum port requirement. Clarification would provide clarity in quoting license and buffer as well.		
35	138-139	Option 2- Recording Server with Attached Storage		Request you to please clarify whether Option 2 (Recording Server with Attached Storage (Scalable NAS, Inbuilt Storage) is in lieu of the Shared SAN Storage system?	It can be either option 1 or option 2	
			Physical Recording Server (Minimum including N +1 redundancy)	Since there is no redundancy requirement mentioned in the Option 2 specifications, please clarify / confirm that	Option 2 is with N+ 1 redundancy.	
			Option 2- Recording Server with Attached Storage (Scalable NAS, Inbuilt Storage) DR: 9 physical servers with 425 cameras per camera server.	9 servers with 425 cameras each will make a total of 3825 cameras only whereas total count of ITC cameras as per BOQ is 3905. Kindly increase the no. of servers in DR accordingly for option-2	Option 2- Recording Server with Attached Storage (Scalable NAS, Inbuilt Storage) DR: 9 Physical servers with 450 cameras per camera server.	
				Storage Server requested to be read as SAN Storage.	Recording Server with Attached Storage (Scalable NAS, Inbuilt Storage)	
			Core: 12	Kindly change this clause as following -"Core - 16" because there is no Xeon Gold processor with 12 Core.	Core - 12 or higher	

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Sl No.	Page No.	Section Name	Tender Conditions	Query	Reply to Query
36	138-139	Server (Physical Server)	Storage System: 8TB/12TB/16TB/20TB	Kindly allow using 22TB Hard disks as well.	Storage System: 8TB/12TB/16TB/20TB/22TB
			Front bays: 8 x 2.5-inch SAS/SATA/NVMe (HDD/SSD)	Kindly allow 3.5" chassis with 24 drives as this will be required to achieve 450TB usable storage in the servers. The same can not be achieved using 2.5" chassis	Front bays: 2.5/3.5-inch SAS/SATA/NVMe (HDD/SSD)
			Redundancy(N+1): Physical Recording Server (Minimum including N + 1 redundancy)	Please confirm that N+1 redundancy is required only at DC-1 & DC-2 . Parallel recording will be done at DR without any N+1 redundancy .	As per tender
			Ports - USB 3.0, Network Port, Display Port/HDMI, Video Port (VGA)/DP	Kindly change this clause as following - "Ports - USB 3.0, Network Ports, VGA Port"	Ports - USB 3.0, Network Port, Display Port/HDMI/Video Port (VGA)/DP port
				Request CIAL authority to remove 'Display Port/HDMI' as only VGA Port (VGA) comes with server hardware.	
			EDR should be provided.	Kindly clarify what is EDR. EDR is not supportive and relevant in Server context. So request CIAL authority to remove this specifications.	EDR: Endpoint Detection and Response/Antivirus Solution shall be provided.
	Operating System : Windows Server 2022 OS 64bit	In case if bidder is proposing any OEM who supports Operating System other than Microsoft Windows, then it is not applicable. So request CIAL authority to modify the clause as Operating System : Windows Server 2022 OS 64bit or Any other Operating System supported by OEM.	As per Tender		
37	148	Network Architecture	Each access switch will be connected to two fibre switches for redundancy: One fibre switch on the same floor and another fibre switch on a different floor.	As required agg switch is supposed to be placed on different floor. There is a limitation on stacking cable length which is a feature asked in RFP. We propose to design sol. using MLAG/VSS technology which can facilitate redundancy across the floor in setup, instead of stacking.	Stacking is required only for additional switches added at the same location.
38	149-150	Access Switch (8 Port)	SFP Ports: 2 x 1G Base-T + 2 x 10 SFP+ Ports (2 x 1G SM Modules considered separately in BoQ)	Please clarify, requirement is 2*10G SFP+ port or 2*1G Base-T or Both are required?Request to change the 2*10G Bast-T or 2*10G SFP+ for the uplink connectivity.10G Fiber port will be sufficient for connecting to upstream switch and we can populate the transceivers based on requirement, 10G SFP MM / SM/ 1G Copper accordingly.	SFP Ports: 2 x 1G Baase-T + 2 x 1G SFP+ Ports (2 x 1G SM Modules considered separately in BoQ)
			Routing Protocol: OSPF, RIP, RIP-1, RIP-2, EIGRP, VRRP, PIM- SM, EIGRP for IPv6, OSPFv3, PIM-SSM, policy-based routing (PBR), RIPvng, MSTP	EIGRP protocol is vendor-specific. Request to remove this	Routing Protocol: OSPF, RIP, RIP-1, RIP-2,VRRP, PIM SM,OSPFv3,PIM-SSM, policy-based routing (PBR), RIPvng, MSTP
				Why we need the Layer 3 Protocol in the Access Layer? Ideally all SVIs will be in core/Distribution. Request to remove the clause to Qualify all OEMs. Request to remove the clause to Qualify all OEMs	As per tender
			Operating Temperature: 0 to 80°C or better	Kindly amend it to 0-70°C to accommodate more vendors	Operating Temperature: 0 to 70°C or better
			Power budget: 240W	All the OEMs will have 8 Port which will support 125W/139W.. Request to amend the Clause to 139W for 8 Port switches, If required more power we need to increase the port Density.240W is restrict to Single OEM	As per tender
			Features: Access Control List (ACL) support, Quality of Service (QoS), Rapid Per-VLAN Spanning Tree Plus (PVRST+), fanless, Shaped Round Robin (SRR), PXE support, Remote Switch Port Analyzer (RSPAN), Energy Efficient Ethernet, Management Information Base (MIB)	Request to remove this clause or mention equivalent the PXE/TPM and QOS DRR/SRR/DRR. PXE is boot process but TPM is Trusted platform module which is encrypted with Software and Hardware. Hence request to add this point.	
			IEEE Standards: IEEE 802.1ac	Request to remove this clause it's related to MAC Sec.This is not all OEMs are using and its advance level of Layer 2 Switches.	
			Power supply: 315W AC	Request to amend this clause to qualify all the OEMs.170W.. Because 139W is for PoE port requirement and 170W is applicable to run the switches without performance issue. 315 is specific to OEM	
			MTBF: 6,00,000 hrs	Kindly change it to 5,00,000 hrs Request to amend this to 500000.5,00,000 Hrs and 5,00,000 hrs for Pwr Supply .IE switches are mainly focus for Power supply, hence we request to amend the clause to 5L for switches and 5L for PWR supply.	MTBF: 5,00,000 hrs
				Remove REP as it is proprietary. Modubus can also be removed as this is not required for this application	Switching : STP, RSTP, MSTP, Ethernet IP,IEEE 1588 PTP v2
			Switching : STP, RSTP, MSTP, REP, Ethernet IP, Modbus TCP/IP,IEEE 1588 PTP v2	Please amend the clause as STP, RSTP, MSTP, Ethernet IP, Modbus TCP/IP	
				Request to amend this clause, IEEE 1588 and MODbus is used for industrial automation, since it's CCTV Project what is the purpose for this protocol?Request to Amend this clause to Qualify all OEMs.It's industrial protocol requirement and specific to OEM request to remove the same.	
			Security: 802.1x, Dynamic Host Configuration Protocol (DHCP)snooping, dynamic ARP inspection, IP source guard, guest VLAN MAC authentication bypass, 802.1x multidomain authentication, storm control - unicast, multicast, broadcast, SCP,SSH, SNMPv3, TACACS+, RADIUS server/client, MAC address notification, BPDU guard, Port ACL	Please amend the clause as 802.1x, Dynamic Host Configuration Protocol (DHCP)snooping, 802.1x, multicast, broadcast, SCP, SSH, SNMPv2, TACACS+, RADIUS server/client, MAC address notification, BPDU guard, ACL	As per Tender
			Security: ARP inspection	We can restrict with binding information for several known and trusted users, request to amend the ARP inspection or equal functionality	
			Management: IEEE 1588 PTP, CIP sync, DHCP Server	Specific to OEM product, DHCP server is not required in the Access layer switches. CIP Sync and PTP is related to Automation protocol, Please clarify the requirement of this protocol.	

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39	150-151	Industrial Grade Switch	Operating Temperature: 0 to 80°C or better	Kindly amend it to 0-70 degree C to accommodate more vendors	Operating Temperature: 0 to 60°C or better
				Request to amend this to 0 to 75 or better to qualify all OEMs	
				Operating temperature should range from -25 to 60°C	
				80°C is impractical. Even above 60°C, there is a need of dedicated enclosure	
			Please amend the clause as 0 to 60 Degree or better		
			Power Supply: Dual DC power	While the Switch supports Dual Dc Power supply, kindly clarify If secondary Power supply is required from Day-1	Power Supply: 230V, 50 Hz with redundant power supply
				Switch should have Dual DC Power input of 9.6 to 60VDC with separate Power input terminal .Support of Separate Power input terminal is mandatory otherwise dual power supply support is of no use.	
IPv6: IPv6 host and SNMP over IPv6	Please amend the clause as Switch should support ipv6	As per Tender			
Management: Web UI, MIB, SmartPort, SNMP, syslog, DHCP server, SPAN session, RSPAN,Express setup, IEEE 1588 PTP, CIP sync	Please amend the clause as Web UI, MIB, SNMP, syslog, DHCP server				
Certification: UL, IP30, RoHS 5	It should be: UL, IP30, RoHS 5/EN 61000-6-4. ROHS 5 is a very specific certification. Focus should be more towards enviornmental friendly and less Hazardous rather than the usage of specific materials.	Certification: UL, IP30, RoHS 5/EN 61000-6-4.			
40	152-154	Access Switch (24 Port)	Stacking Throughput	The switches will support the required stacking throughput, however please confirm on at how many nodes stacking needs to be considered & max no. of access switches in a stack.	As per tender
			Stacking Throughput: 75Gbps	It's Specific to OEM, why do we need a 75Gbps? How many switches are going to stack? Ideally 40Gbps is recommended. 40Gbps Stacking throughput	
			Automation : NETCONF, RESTCONF, YANG, ZTP, On-Box Python	This is an Access layer 24 port device device that supports API based automation with NETCONF, RESTCONF, YANG and Plug and Play (PnP).On-Box Python (GuestShell) and ZTP requires additional controller/ resources and are supported on higher platforms. Request to Exclude the ZTP and On-Box Python parameters from Automation criteria.	Automation : RESTCONF, YANG/ZTP/Python or better
			Automation: NETCONF, RESTCONF, YANG, ZTP, On-Box Python	What is the purpose of this protocol? It's a Specific to OEM.Specific to OEM request to amend this clause	
			FAN Cooling: Redundant Hot Swappable Fans (1+1)	The Access Layer 24 port switch supports redundant Internal Fans that are not hot-swappable. Request to ammend the requirement as: Redundant Fans (1+1)	FAN Cooling: Redundant Fans (1+1)
				Need clarity is this mandatory or an optional ask.	
				Please change it to "Dual, Field-Replaceable FAN Units"The objective of Field replaceable FAN units is that there is no need to replace the entire switch.	
			Power Supply: Dual, Hot-plug, Redundant Power Supply (1+1)	Please change it to " Dual, Field-Replaceable Units (FRU) Power Supplies (1+1). The objective of Field replaceable Power supplies is that there is no need to replace the entire switch.	Power Supply: Dual, Redundant Power Supply (1+1)
			Encryption: MACSec128	Can you please clarify why MAC Sec is required on the CCTV Environment.. If required to protect the entire campus ideally NAC is the recommend solution. Request to Amend this clause to Qualify all OEMs	As per tender
			EOL: Product should not be End of Life and End of Support during the contract period.	As epr the standard Every OEM Product can commit should not propose EOL announced product but entire contract period we can't confirm.	
			Ports & Uplink Ports: 24 x 1 G SFP ports (24 x 1G SM Modules considered separately in BoQ) and 8 x 10G SFP+ slot (8 X 10G SM Modules considered separately in BoQ)	Please provide the specification as a standard based to Qualify every OEM. The ask Model is favouring to Single Specific OEM. Proposed Product should not be End of Life and End of Support or life announcement products	
			Uplinks Port: 8 x 10G SFP+ slot (8 X 10G SM Modules considered separately in BoQ)	Kindly consider 4X10 G + 2 X 40 G	
			Stacking Bandwidth: 450 Gbps	Request to amend this clause to Qualify every OEM. Change it to 200Gbps	As per tender
			Stacking Bandwidth: 450 Gbps	Please clarify if the Switch should have dedicated slot for modular stacking with 450 Gbps" OR It should be flexible to support MLAG/VSS architecture to provide HA over the long distance."Such higher stacking bandwidth would be achieved via dedicated stacking module however, the distance is limited to 3 Meter. In the Network Architecture section Page 148, it has been mentioned that the Fiber(aggregation switch) should be positioned on the different floors and should have HA. However, in this case it is not possible to achieve the HA at such a high speed. I would request to clarify this further.	
	Please provide the details of automation to achieve the use case with equivalent method of Automation. NETCONF, RESTCONF, YANG, ZTP, On-Box Python or equivalent				

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41	154-155	Edge Switch (24 Ports)	Automation: NETCONF, RESTCONF, YANG, ZTP, On-Box Python	Supports RESTCONF ,ZTP and Python	Automation : RESTCONF, YANG/ZTP/Python or better
				Request to remove NETCONF and YANG to accommodate more vendors	
			Power Supply: Dual, Hot-plug, Redundant Power Supply (1+1)	Please change it to " Dual, Field-Replaceable Units (FRU) Power Supplies (1+1) The objective of Field replaceable Power supplies is that there is no need to replace the entire switch.	Power Supply: Dual, Redundant Power Supply (1+1)
			FAN Cooling: Redundant Hot Swappable Fans (1+1)	Please change it to "Dual, Field-Replaceable FAN Units". The objective of Field replaceable FAN units is that there is no need to replace the entire switch.	FAN Cooling: Redundant Fans (1+1)
			Certification & Compliance UL 60950-1, EN 60950-1, IEC 60950-1, IEEE 802.3 47CFR Part 15, EN55032 Class A, CISPR 35, CISPR 32 Class A, EN 55024, EN61000-3-2, EN61000-3-3, RoHS 5	Request to mention the standard terms and certification requirement to Qualify all OEMs	As per tender
				Please add " Should support advance Layer 3 protocol like BGPv4, BGPv6 , MPLS, VRF, VXLAN, IS-ISv4, OSPFv3, MP-BGP" Advance Routing feature support on the distribution switch for future use cases	
42	155-157	Core Switch (24 Ports)	Stacking Bandwidth :1 Tbps	Please change it to "Switch should have dedicated slot for modular stacking with 1 Tbps" Stacking ports should be dedicted and should be seperated from the data ports	As per tender
			Switching capacity with stacking: 3000 Gbps	Since its Core environment we request to add the DC grade Active - Active control plane supported Switches.Instead of Stacking we request to change it to Cluster method to achieve Proper Clusters. vPC/MLAG/VSX based solution is recommend. Request to amend the chause accodigly.	
			Routing Protocol : RIP, EIGRP Stub, OSPF PBR, PIM Stub Multicast PVLAN, VRRP, PBR, CDP, QoS, FHS	Kindly consider removing EIGRP as it is vendor specific	Routing Protocol : RIP, OSPF PBR, PIM Stub Multicast PVLAN, VRRP, PBR, CDP, QoS, FHS
			Capabilities: BGP, EIGRP, HSRP, IS-IS, BSR, MSDP, PIM- BIDIR, IP SLA, OSPF features from Day1.	Kindly consider removing EIGRP as it is vendor specific	Capabilities: BGP,HSRP, IS-IS, BSR, MSDP, PIM- BIDIR, IP SLA, OSPF features from Day1.
			Network Segmentation :VRF, VXLAN, LISP,TrustSec,SGT, MPLS,mVPN	Kindly consider equivalent of LISP,TrustSec and SGT	1.Network Segmentation :VRF, VXLAN, MPLS,mVPN. 2. Equivalent of (LISP,TrustSec,SGT)
			High Availability : Nonstop Forwarding (NSF),Graceful Insertion and Removal (GIR), Extended Fast Software Upgrade (xFSU), Software Patching (CLI Based)	Please consider equivalent redundancy,high availability support like ISSU	High Availability : Nonstop Forwarding (NSF),Graceful Insertion and Removal (GIR), Extended Fast Software Upgrade (xFSU), Software Patching (CLI Based) or High Availability Support ISSU , Graceful restart and equivalent
			Automation : NETCONF, RESTCONF, YANG, ZTP, On-Box Python	Supports RESTCONF ,ZTP and Python	Automation : RESTCONF, YANG/ZTP/Python or better
				Request to remove NETCONF and YANG to accommodate more vendors.	
			Power Supply : Dual, Hot-plug, Redundant Power Supply (1+1)	Please change it to " Dual, Field-Replaceable Units (FRU) Power Supplies (1+1) The objective of Field replaceable Power supplies is that there is no need to replace the entire switch.	Power Supply: Dual, Redundant Power Supply (1+1)
			FAN Cooling : Redundant Hot Swappable Fans (1+1)	Please change it to "Dual, Field-Replaceable FAN Units" The objective of Field replaceable FAN units is that there is no need to replace the entire switch.	FAN Cooling: Redundant Fans (1+1)
				Advance Routing support: Should have advance Layer 3 protocol like BGPv4, BGPv6 , MPLS, VRF, VXLAN, IS-ISv4, OSPFv3, MP-BGP" Advance Routing feature support on the core switch is must on day 1	As per tender
			BOQ	Core switches count is 6 (2+2+2) (DC1+DC2+DR) Are spare required in core switches?	
	Kindly confirm whether the existing VMS software along with base license and respective camera license are valid for this new requirement. If Yes , can bidder utilise the same?	All the software (with licenses) used for this tender shall be latest version and shall not reach end of support within the contract period.			
	Requesting you to please add Profile M .Because ONVIF Profile M supports analytics configuration and information query for metadata, as well as filtering and streaming of metadata. It has interfaces for generic object classification, and specified metadata for geolocation, vehicle, license plate, human face and human body. These features are available in recent cameras and will help CIAL to perform various analytics with additional server or analytics software.	The VMS should support ONVIF Profile S, G, T and M or suitable APIs for tight integration with third party cameras. All edge analytics provided by the cameras shall be displayed in the VMS dash board. The meta data from cameras shall be available for use by third party applications through the VMS that may be implemented in future. Suitable APIs/SDKs/Plugins for the same shall be considered. The same shall be done without additional expenditure to CIAL.			
The VMS should ONVIF Profile S, G, and T registered on the ONVIF website	Please add: ONVIF Profile M; All Cameras asked for are AI based edge Analytics. In order for AI of Cameras to perform in the VMS, ONVIF Profile M is necessary. Without which the same cannot he integrated and performed.				

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Sl No.	Page No.	Section Name	Tender Conditions	Query	Reply to Query	
43	166-175	Video Management Software		Requesting you to add ONVIF Profile M, as All Cameras asked for are AI-based edge Analytics. For AI of Cameras to perform in the VMS, ONVIF Profile M is necessary. Without which the same cannot be integrated and performed.		
				Considering the Advance reduandy system requirement we suggets to add following clause in VMS VMS Shall support the Disk pool redundancy, i.e if one mapped Diskpool failed then automatically new recording shall be start on next mapped Disk pool storage drive		
				End to End Multicast : Considering the extensive network of over 3800 cameras in the system, we propose the utilization of Multicast Technology in networking to efficiently manage overall network traffic . i.e All recording servers and redundant recording server and viewing client will take Multicast stream from camera rather than Unicast so please add following specification in VMS. VMS shall support end to end multicast i.e VMS system components like Recording server, Redudant recording server and viewing client shall support to take Multicast from cameras.		
				We request to add Management Server failover also N+N , ie DC-1 DC-2 and DR also have Management server. It will ensure that if DC 1 and DC-2 fully goes offline still new user can login and able to view the camera. Please add following clause in VMS . The VMS shall support native and off-the-shelf failover option 1. The Standby Management server(MS) shall act as a replacement Server on hot standby, ready to take over as the acting Management Server in case the primary Server fails. VMS shall have native support and not use any 3rd party software like Window cluster . 2. The VMS shall support up to five (5) MS on standby, lined up to take over as the acting MS in a cascading fashion 3. Management server failover shall work on load balancing and work on active-active mode 4. The Standby MS shall keep its configuration database synchronized with the primary MS. 5 The Standby MS shall support disaster recovery scenarios where a server can be located in another geographic area (or building) and only take over if all other MS become offline.	As per tender	
			Addon Request to add in VMS specs For Management Server Failover- N+N	We request to add Management Server failover also N+N , ie DC-1 DC-2 and DR also have Management server. It will ensure that if DC 1 and DC-2 fully goes offline still new user can login and able to view the camera.		
			Addon Request to add in VMS specs : Cyber Security	We request you add addon clause in VMS as it will increase the cyber security. The software shall incorporate stronger security of security mechanism to prevent vulnerabilities, man-in-the-middle attack by providing digital certificate-based authentication between server to server & server to clients. The Software shall have achieved UL 2900-2-3 Level 3 Cybersecurity certification	The software shall have incorporated stronger security mechanism to prevent vulnerabilities, man-in-the-middle attack by providing digital certificate-based authentication between server to server & server to clients.	
			The VMS shall have recording servers and storage in N+1 or N+N configuration such that if one recording server/ storage fails, the redundant server/ storage shall take over the function automatically without recording loss. Option 2- Recording Server with Attached Storage (Scalable NAS, Inbuilt Storage)	As per our Understanding, We require to design a solution considering N+N Redundancy for Recording Server where Primary DC- Data enter 1 and Secondary DC-Data center 2 has primary recording servers with 30 days of storage and DR has redundant server with 7 days storage. Please confirm our understanding	As per tender.	
			The VMS should transparently integrate at least three camera vendor models without the need of additional SDK, software, hardware, licenses without any degradation in performance.	Our understanding is VMS should have deep integration with minimum 3 Camera OEMs, so that VMS can achieve all features from Cameras including Edge Analytics, Forensic search, Password management, Edge recording and back filling to video recording server. Please incorporate in specification for clarity to all bidders .	The VMS should transparently integrate at least three camera OEMs in the approved make list without any degradation in performance.	
			The should transparently integrate at least three camera vendor models without the need of additional SDK, software, hardware, licenses without any degradation in performance.	Please confirm if the requirement is for the open architecture software or only three camera vendor. As per the latest trend in all the Airports the Organizations are going for Fully open VMS Software.		
			Edge Recordings shall be configured directly in the device using the device webpage and recordings shall be stored on the Secure Digital (SD) Card installed in the device (only provision required).	We recomend to add -This feature should work with minimum 5 different make of cameras, to have interoperability with multiple make of camera. So that CIAL can choose cameras for future requirements .	As per Tender	
			The VMS should allow for updating of camera password's location wise camera, group of selected cameras, at once with a single click without accessing each camera's webpage individually	We recomend to add -This feature should work with minimum 5 different make of cameras, to have interoperability with multiple make of camera. So that CIAL can choose cameras for future requirements .		
			The VMS should regularly check for updates and patches, download them in the background, and prompt users to install them manually. Additionally, it should automatically refresh the license in the background to ensure it remains valid, updating the expiration date as necessary.	Request to change as " The VMS updates and patches has to be regularly checked, downloaded them in the background, and prompt users to install them manually and update the license to ensure it remains valid." Because It is not recommended to connect the servers to Internet for checking the automatic patches and updates considering security of critical infrastructures like Airports.	All the updates and patches in the VMS shall be regularly checked in the background. The same shall be downloaded and prompt users to install them manually/ automatically and update the license to ensure it remains valid.	
			The VMS should regularly check for updates and patches, download them in the background, and prompt users to install them manually. Additionally, it should automatically refresh the license in the background to ensure it remains valid, updating the expiration date as necessary.	CCTV system is not recommended to expose to internet so it is not possible to check the version updates regularly. And same for the automic license refresh also so please allow it manually instead of automatic.		
			The VMS system shall have a user-friendly interface for checking all hardware firmware information and monitoring the status of firmware updates for the latest releases from manufacturers. Additionally, it should clearly indicate whether each hardware unit's firmware is up to date, outdated, or vulnerable to known security issues.	Request to change as" The VMS system shall have a user-friendly interface for checking all hardware firmware information and monitoring the status of firmware updates"	The VMS system shall have a user-friendly interface for checking all hardware firmware information and monitoring the status of firmware updates for the latest releases from manufacturers.	
			The VMS system shall have a user-friendly interface for checking all hardware firmware information and monitoring the status of firmware updates for the latest releases from manufacturers. Additionally, it should clearly indicate whether each hardware unit's firmware is up to date, outdated, or vulnerable to known security issues.	All the cameras or hardware manufacturers release their firmware online and as the cameras can't be put on internet to validate the latest firmware so please remove these clause.	All the updates and patches shall be regularly checked in the background. The same shall be downloaded and prompt users to install them manually/ automatically and update the license to ensure it remains valid.	
			The VMS system shall have a user-friendly interface for checking all hardware firmware information and monitoring the status of firmware updates for the latest releases from manufacturers. Additionally, it should clearly indicate whether each hardware unit's firmware is up to date, outdated, or vulnerable to known security issues.	The VMS can check firmware information for the IP cameras only. Firmware for other hardware like servers, switches will not be monitored in VMS. Request you to change this clause accordingly.	The VMS system shall have a user-friendly interface, either directly or through third party plug-in, for checking all hardware firmware information and monitoring the status of firmware updates for the latest releases from manufacturers. Additionally, it should clearly indicate whether each hardware unit's firmware is up to date, outdated, or vulnerable to known security issues.	

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			<p>The VMS shall provide a buffer of up to 6 (six) seconds of time synchronization difference between the VMS Servers and the camera. The backfill operation shall not be affected provided the camera time does not differ from the VMS server time by more than the defined buffer period.</p>	Request to remove this "As camera time synchronization will be done with NTP server in Domain"	The time synchronisation between the camera and VMS servers should be through NTP server. The backfill operation shall not be affected when the difference between camera time and VMS server time is less than the buffer time set by NTP Server.
			<p>The VMS shall provide an alarm notification if the camera time starts to differ from the VMS Server time by more than the defined buffer period.</p>	Request to remove this "As camera time synchronization will be done with NTP server in Domain"	As per tender
			<p>The VMS shall provide a custom Dashboard capable of graphically displaying the following information, with automatic (real time) refreshing at specified intervals.</p> <ul style="list-style-type: none"> • Status of online Hardware devices • Number of online and active/ deactive clients • Camera and Switch default login password status • Camera and Switch firmware information • Total count of cameras, users, and alarms • Video tiles for live viewing of cameras • Indicators for transmission loss, camera recording issues, etc. • Location-wise status of online and active/ deactive cameras • Server status details (individual servers) • Storage status details • Switch Status details (individual switches). • Recording status details 	<p>This is clause is an application specific & restrictive in nature and gives undue advantage to few OEMs. The functional requirement mentioned is of the Enterprise Management software tools & not part of VMS system. We request you to amend the clause as follows for wider OEM participation :</p> <p>"The VMS/EMS software shall provide a custom Dashboard capable of graphically displaying the following information, with automatic (real time) refreshing at specified intervals.</p> <ul style="list-style-type: none"> • Status of online Hardware devices • Number of online and active/ deactive clients • Camera and Switch default login password status • Camera and Switch firmware information • Total count of cameras, users, and alarms • Video tiles for live viewing of cameras • Indicators for transmission loss, camera recording issues, etc. • Location-wise status of online and active/ deactive cameras • Server status details (individual servers) • Storage status details • Switch Status details (individual switches). • Recording status details. " <p>1. VMS software can monitor the management & recording servers for their status. However client monitoring can not be done in VMS as those are Temporary sessions based on user request. Requesting removal of this requirement.</p> <p>2. Switch status & ports can be monitored in the NMS. However password details cannot be displayed for security reasons. Kindly amend this clause to camera status monitoring only.</p>	<p>The VMS shall provide a custom Dashboard capable of graphically displaying the following information, with automatic (real time) refreshing at specified intervals.</p> <ul style="list-style-type: none"> • Status of online Hardware devices • Camera and Switch firmware information • Total count of cameras, users, and alarms • Video tiles for live viewing of cameras • Indicators for transmission loss, camera recording issues, etc. • Location-wise status of online and active/ deactive cameras • Server status details (individual servers) • Storage status details • Recording status details
			<p>The VMS shall be open standard supporting multi vendor IP cameras including Pan, Tilt and Zoom functionalities.</p>	<p>To ensure openness of the system & interoperability with third party OEMs , proposed VMS platform should be an true enterprise class platform, In the view of same , it is request to amend the clause as : " The VMS shall be open standard supporting multivendor IP cameras including Pan, Tilt and Zoom functionalities. Proposed camera & VMS system should not be from same OEM. "</p>	
			<p>BROWSER CLIENTS</p>	<p>Thick client based GUI interface offers rich user experience meeting all the functional requirements mentioned. We request you to amend the clause as : "Browser Clients Or Thick Client (Required license to be quoted along with bid)."</p>	
			<p>The VMS shall support at least 200 client users with 100 simultaneous client users without any additional license. All the users shall be able to monitor any cameras simultaneously. There should be a minimum of 3 hierarchical levels of log in access for providing client log in - administrator, supervisor and user.</p>	<p>Kindly need clarity on the number of VMS client licenses that are required. The total no. of client workstations are 40 including the 5 sets required for Video wall. Kindly confirm if we can proceed with 40 client license. Multiple no. of users can be created in each client.</p>	As Per Tender
			<p>Supply of Client Monitoring Software for 200 client users with minimum 100 Simultaneous Client users as per the technical specification with all Licenses.</p>	<p>Kindly need clarity on the number of VMS client licenses that are required. The total no. of client workstations are 40 including the 5 sets required for Video wall. Kindly confirm if we can proceed with 40 client license. Multiple no. of users can be created in each client.</p>	
			<p>Integration of CCTV System with Baggage Handling System should be done for tracking baggage congestion. A CCTV display (computer and monitor) will be provided in the BHS control room. BHS will provide the IP address of the corresponding camera during alarms and the corresponding camera shall be displayed in the CCTV display monitor. Also, LAN will be provided for multiple sub systems.</p>	<p>We assume the CCTV cameras will be placed in the BHS areas. The BHS operators will access on those cameras using browser client in case of any any baggage congestion.</p>	
			<p>The recording servers shall continue to function uninterrupted even if the VMS fails.</p>	<p>The recording servers will continue to work in standalone mode in case of VMS failure. However any new client logins, configuration update, new recording startup will not take place during this time period. This will be applicable with any VMS OEM.</p>	Acceptable.
			<p>Edge Recordings shall be configured directly in the device using the device webpage and recordings shall be stored on the Secure Digital (SD) Card installed in the device (only provision required).</p>	<p>Kindly confirm SD cards wherever required will be provided by CIAL.</p>	As Per Tender
			<p>It shall be possible to stream video directly from the camera to the Video Wall, without the need for video to pass through a Camera Server.</p>	<p>This feature is supported by the videowall controller. However, for continuous monitoring the cameras view will be fetched through the Videowall Client PC/recording server only.</p>	As per tender
			<p>The VMS shall provide the ability to display at least 25 simultaneous video streams in various tile configurations.</p>	<p>Kindly allow 16 views for web clients. We can consider 25 simultaneous views for Videowall displays only.</p>	The VMS shall provide the ability to display at least 16 or more simultaneous video streams in various tile configurations in a single display.
			<p>The VMS shall provide a Web Portal viewing option for accessing video from outside the local network.</p> <ul style="list-style-type: none"> • The Web Portal client shall have the same characteristics as defined above for the Web Console. • Web Portal client shall be accessed via configurable username and password defined in the VMS. • Web Portal client shall enforce a 60-minute lockout after 3 invalid logon attempts within a 60-minute period, with supervisor override. 	<p>Please confirm that firewall will be used for outside communication/other teams connectivity. The outside users must use secure VPN connection to access the CCTV.</p>	As per tender

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			It shall be possible to stream video directly from the camera to the VideoWall, without the need for video to pass through a Camera Server	Request to change as It shall be possible to stream video directly from the camera or pass through a Camera Server to Video Wall	It shall be possible to stream video directly from the camera or pass through a Camera Server to Video Wall without degradation in performance	
44		Queue Management Software:	Tracking the length of queues over time and at different locations, within the Airport premises and alarm generation for 50 cameras.	Do you require 50 only Camera for Queue management ?	Tracking the length of queues over time and at different locations, within the Airport premises and alarm generation for 100 cameras.	
45	ew Claus	Tailgating Software		Can you consider Tailgating also.?	Yes. 1. Only one person is permitted to pass through the automated access control system at a time. 2. Implement a Tailgating Detector within the access control system. This feature should be capable of identifying instances where multiple individuals attempt to pass through the system in close succession. Upon detection, the system should trigger an alarm, such as an audible alert and notification at Control Centre.	
46	BOQ	ANPR	ANPR/ALPR Camera Qty: 15 Nos Speed Monitoring Software for 50 Camera.	ANPR Camera Quantity is 15 Nos only So 15 Nos ANPR Camera License required and 50 Nos Speed Monitoring License Required. We request you to clarify, is ANPR and Speed Monitoring runs independent to each other or required to run tandem with each other. Usually Speed Monitoring System work with ANPR to Capture the Speed Violator's Number Plate, thus we understand that ANPR shall be required for Speed Monitoring Software also. Please confirm if ANPR shall be required for Speed Monitoring System also.	Both are separate.	
47	175-177	Video Analytics Software	The Video Analytics Software (VAS) is required to offer real-time threat detection with the capability of generating alarms that promptly appear for users. The software should be versatile, allowing various analytics to be performed simultaneously on multiple video feeds.	Considering the criticality of the project & future scalability of the system, it is important to consider an Open standard based camera & software platform. In the view of same, it is recommended to consider ONVIF compliance for cameras & software both & amend the clause as follows : "The Video Analytics Software (VAS) is required to offer real-time threat detection with the capability of generating alarms that promptly appear for users. The software should be versatile, allowing various analytics to be performed simultaneously on multiple video feeds. Proposed camera & analytics software platform should be ONVIF profile compliant. Details of same should be available on ONVIF website. "	As Per Tender	
			Faces shall be recognized in less than 1-2 seconds	Face Recognition cant be done from general surveillance cameras & count of face recognition will be required	As per tender	
			Speed Detection software shall measure the precise speed of vehicles.	Kindly confirm if Speed Detection Software has to capture and Vehicle License Plate details along with Speed Detection of vehicles.	Speed Detetion Software has to capture the image of the vehicle along with the speed detection of vehicle.	
				For Video Analytics, considered separate servers but technical specifications not provided. Kindly confirm	Suitable servers as per the recommended specification of the OEM shall be provided	
	ew Claus	Video Analytics Software	Server Hardware Specification for Video Analytics Server (Face Detection, Speed Monitoring, Queue Management and ANPR Application)	Can camera with Speed monitoring as Edge Analytics accepted?	Yes. Speed monitoring can be implemented as Edge Analytics.	
				Server Hardware Specification for the Video Analytics Application (Face Detection, Speed Monitoring, Queue Management and ANPR Application) is Missing. Thus we understand that these Server needs to be Sized as per the OEM's Software Min. Requirement's.	Yes	
				AI Video Analytics Suite shall have a feature of Creation of Customized Application with Zero coding concept, System should be user friendly in which end user can easily use drag & Drop functionality with a clear expectation of End result.	Higher specifications are acceptable.	
				AI Video Analytics Suite shall have intelligence to understand the architecture as per the Infra availability to use Arm, X 86 AMD. AI Software will check itself available resources & automatically install runtime library as per resource demand.		
				Any AI Software including but not limited to traffic, surveillance apps like FRS, person attribute, Intrusion, ANPR, Over Speed etc.		
48	BOQ 68	Computers & Peipherals	ITC of Computers & Peipherals (All other Accessories, Data Cabling, Optical Fiber Patch Cords Power Cabling and Terminations etc required for the completion of work)	Kindly elaborate the accessories to be considered under this line item, since already Active, passive and racks and other components are noted separately in tender BOQ.	All accessories required for the satisfactory performance of the system shall be considered irrespective of whether they are specifically mentioned in the tender.	
49	182	Computers for Videowall	GPU: 2 x NVIDIA RTX A4000	Kindly allow the bidder to propose single 32GB graphics card in place of mentioned 16GB graphics. 32 GB graphics card will have 4 display ports.	As per tender	
50		Servers & Workstation		We assume that offline Anti-virus is required to be considered in each Server & workstation. Please confirm		

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51	140 - 141	Computer & Peripherals	EDR for Servers & Workstation	EDR feature cannot be achieved through the servers, workstations or VM's it's a separate cyber security offering to protect endpoints. So please consider this component in BOQ with exact numbers (Quantities) and also share the detailed specifications.	EDR: Endpoint Detection and Response/Antivirus Solution shall be provided.
52				EDR is not supportive and relevant in Computer & Peripherals context. So request CIAL authority to remove this specifications.	
53	Computers for Videowall	EDR feature cannot be achieved through the servers, workstations or VM's it's a separate cyber security offering to protect endpoints. So please consider this component in BOQ with exact numbers (Quantities) and also share the detail features specifications.			
54	Computer for Archive Recording	EDR is not supportive and relevant in Compute context. So request CIAL authority to remove this from specifications.			
55	188-189	UPS system		UPS location is Indoor or Outdoor and the warranty period for UPS	1 KVA UPS system swill be installed inside outdoor racks. 10 KVA UPS system will be installed at control room. Warranty is 5 years.
			Remote Management Console/ Interface Network Interface card with remote	Kindly confirm if Remote management is required for 1KV UPS as well since most of the approved OEMs does not have this feature for small size UPS.	As per tender. Remote management is required.
				What will be the UPS warranty?	Warranty(UPS) : 5 years Warranty(Battery) : 2 Yeras
			The batteries shall be brand new and shall be covered under a 2-year warranty. The warranty card for the batteries shall be handed over to CIAL during commissioning.Suitable powder coated stand for the batteries shall be supplied.	Kindly clarify that Bidder needs to provide the 2 year warranty or need to provide the 5 year warranty for the battery system	Battery is a consumable item. So only 2 year warranty needs to be considered.
56	180	Video Wall Controller	<ul style="list-style-type: none">• Processor: Core i7, 12th generation• Memory: 32GB• Ethernet Ports: 2 x Gigabit Ethernet ports• Hot swappable SSD: 2 x 240GB SSD (RAID 1)• 4 x 3.0 USB• 3rd generation PCIe switched fabric with 11 slot x 8 - 8GB/s Uplink and Downlink• DisplayPort or HDMI• Windows/Linux	Request you to recheck the specifications of Video wall controller which seems in sufficient to drive 10x3 Videowall	The specification is minimum specification.Higher specification, if required as per the solution, shall be considered.
57	179-180	Video Wall System		Only Videowall Software has been asked in the BoQ, however Videowall controller is not being asked. Kindly elaborate the connectivity planned. There are 5 Workstations requested for Video wall.	All Hardware required for the videowall system shall be considered as part of Video Wall display software.
				Kindly confirm if only 5 Workstations shall be connected with Video wall & none of of the workstations from other line item is not considered for Video wall connectivity	Only 5 work stations are considered for video wall connectivity.
			Each Panel size: 55"	Kindly share us the bezel thickness	Pls refer technical specification of Display Panel
			The comprehensive plan ensures a state-of-the-art video wall system that meets CIAL's current and future requirements, providing enhanced monitoring capabilities in the control room.	As per our understanding Bidder needs to provide the Video wall system only and CIAL will provide the Interior work, Furniture, workstations and cooling system in the control room. Kindly confirm	Bidder shall provide the entire Video Wall system with work station, table as per the tender requirement. Room, cooling system and chair will be provided by CIAL.
			The solution should show network traffic details such as OT commands per network conversation between 2 assets.	This is OT security feature. Kindly clarify.	The solution should show network traffic details between 2 assets.
				This is OT security feature. It requires separate SW/HW as a part of BoQ and it needs further integration with the current solution. Kindly clarify	
			5. The solution shall facilitate the ability to deploy a physical or virtual probe for the purpose of analysing isolated and localised areas of the target environment and exchange only 'metadata' to a parent aggregation device so as to remain compatible with low bandwidth links.	In case if bidder is proposing agent-less monitoring solution, then deploying physical or virtual probe is not applicable. Hence this particular clause is not applicable for agent-less deployment. Please confirm the same.	5. The solution shall facilitate the ability to deploy a physical/virtual/agentless probe for the purpose of analysing isolated and localised areas of the target environment and exchange only 'metadata' to a parent aggregation device so as to remain compatible with low bandwidth links.
			11. The solution shall facilitate the ability to deploy a physical or virtual probe for the purpose of analysing isolated and localized areas of the target environment and exchange only 'metadata' to a parent		11. The solution shall facilitate the ability to deploy a physical/virtual/agentless probe for the purpose of analysing isolated and localized areas of the target environment and exchange only 'metadata' to a parent aggregation device.
			12. The solution shall support remote network packet captured solutions like ERSPAN that do not depend on a dedicated local layer 2 network.	Enterprise Network Management System do not support packet captured solution using ERSPAN whereas it can support NetFlow and achieve the objective. Please confirm the same.	12. The solution shall support remote network packet captured solutions like ERSPAN/Netflow that do not depend on a dedicated local layer 2 network.
			13. The system should support NetFlow protocol analysis to collect data from remote sites where full packet collection is not feasible.		13. The system should support ERSPAN/NetFlow protocol analysis to collect data from remote sites where full packet collection is not feasible.
17. The solution shall employ employ self-tuning and continuous learning, assessment, and refining of the baseline indefinitely instead of using a defined timeline to determine the OT system's normal state.	Please define the OT system's and its scope relevant to in context of Enterprise Network Management System.	17. The solution shall employ employ self-tuning and continuous learning, assessment, and refining of the baseline indefinitely instead of using a defined timeline to determine the Network/OT system's normal state.			

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58	157-161	Enterprise Network Management System	<p>26. Automatic and comprehensive detection of OT protocols - Additionally, the supplier will provide service for updating the tool with new and as of yet 'Unknown' protocols, as these become identifiable within the target environment.</p> <p>37. The solution should show network traffic details such as OT commands per network conversation between 2 assets.</p> <p>38. The solution should allow the user to create user-defined rules on OT Protocol and device commands.</p> <p>39. The solution should monitor OT process values and trigger alerts based on user defined profiles.</p> <p>40. The solution should implement AI to assist users in identifying clusters of similar OT process values.</p> <p>41. The system should show the OT commands that are related to the alerts issued.</p> <p>42. User activities should be correlated and visualized to show their actions and movement within the OT network.</p> <p>43. The solution should integrate with remote access solutions collect</p>	<p>Please define the OT system's and its scope relevant in context to Enterprise Network Management System. Also it is understood that there is no OT devices as part of current scope.</p>	<p>26. Automatic and comprehensive detection of Network/OT protocols - Additionally, the supplier will provide service for updating the tool with new and as of yet 'Unknown' protocols, as these become identifiable within the target environment.</p> <p>37. The solution should show network traffic details between 2 assets.</p> <p>38. The solution should allow the user to create user-defined rules on Network/OT Protocol and device commands.</p> <p>39. The solution should monitor Network/OT process values and trigger alerts based on user defined profiles.</p> <p>40. The solution should implement AI to assist users in identifying clusters of similar Network/OT process values.</p> <p>41. The system should show the Network/OT commands that are related to the alerts issued.</p> <p>42. User activities should be correlated and visualized to show their actions and movement within the Network/OT network.</p> <p>43. The solution should integrate with remote access solutions collect and correlate authenticated users with activity in the Network/OT network.</p>
			<p>29. The solution shall provide capability to detect known malware and malicious activity present within the target environment and alert about the presence of these issues.</p> <p>44. The solution should correlate alerts to the MITRE ATT&CK model to standardize display of security posture and incidents.</p> <p>45. The solution will present threat reports with a scoring system that indicates the relevancy of the reporting to your monitored environment, using properties such as targeted industry, geography, CVEs, vendor, protocols and devices.</p> <p>46. The solution shall automatically determine remediation prioritization for identified vulnerabilities. This assessment or prioritization should be based on the solutions knowledge of the asset</p>	<p>Enterprise Network Management System do not support for such functionality. It is relevant in context of any security tool. Kindly include this as a separate security tool to be proposed by bidder in price schedule.</p> <p>Antimalware cannot be achieved through the EMS it's a separate cyber security offering to protect endpoints. So please consider this component in BOQ with exact numbers (Quantities) and also share the detailed specifications.</p>	Optional Requirement
				<p>In order to calculate the hardware sizing and license count, please provide following details</p> <p>NMS</p> <p>1. No of network devices to be monitored along with the bifurcation (routers, switches, firewalls, servers, UPS and any other SNMP devices)</p> <p>Log & Flow management</p> <p>1. Total EPS (Event per second)</p> <p>Helpdesk</p> <p>1. No of technicians for Helpdesk</p> <p>2. No of assets to be monitored for asset management</p> <p>3. No of endpoints for Patch management</p>	As per tender
				<p>Please confirm if we need to consider separate hardware for the Enterprise NMS Solution requirement. If yes request to share the specifications for the same</p>	No.
			Should support 8 Gbps IPSec VPN throughput and 1500 Tunnels.	<p>Should support 1.4 Gbps IPSec VPN throughput and 400 Tunnels.</p> <p>Considering the firewall throughput asked. The IPSEC throughput asked is very high. Moreover the tunnels asked are also very high. A firewall of 2.5 Gbps will not be able to handle 1500 tunnels without causing performance impact. Hence request you to change the same.</p>	As per tender
			The Firewall must support at least 1,500,000 concurrent connections and 50,000 new sessions per second	<p>The Firewall must support at least 1,500,000 concurrent connections on L3/L4 or 400K on L7 and 50,000 new sessions per second on L3/L4 or 20K on L7 Every firewall OEM has different packet size to test the sessions. Moreover L7 traffic is seen in today's network. Hence to make sure all leading vendors are able to participate. Please consider the change</p>	As per tender
			The platform must be having minimum of 12 interfaces with auto sensing 10/100/1000 capability, 2 Gigabit SFP ports and 2 10-GbE SFP+ Interfaces from day one	<p>The platform must be having minimum of 8 interfaces with auto sensing 10/100/1000 capability, 4 Gigabit SFP ports. We do not see any use case of having 10G SFP ports for a firewall with 2.5 GBPS throughput. Also for a firewall of this capacity the suggest no. of ports are more than sufficient</p>	As per tender
			Rack mountable and Internal redundant Power Supply from day one	<p>The firewall must be rack mountable.</p> <p>As the firewall is being proposed in HA, hence for a firewall of this size redundant power supply is not required.</p>	As per tender
			SLA for SDWAN must be defined based on packet loss or latency or jitter. Even combination of all 3 option must be possible	<p>SLA for SDWAN must be defined based on packet loss or latency or jitter. Please consider the change as the asked capabilities should be catered by a dedicated router rather than a firewall to remove single point of failure</p>	Deleted
			The solution should be able to build SD WAN tunnel with CUSAT campus Firewall and do proper failover, load balancing and tunnel aggregation.	<p>Please let us know what is CUSAT here?</p>	Deleted
			The proposed system should have integrated Traffic Shaping functionality this feature should have option to be configured on same firewall policy along with option to configure it separately if required.	<p>The proposed system should have integrated Traffic Shaping functionality this feature should have option to be configured on the firewall. We do not see any value of configuring the Traffic shaping policy on the same rule or different rule. Ultimately the use cases required should be achieved. Implementation of capabilities vary from OEM to OEM</p>	The proposed system should have integrated Traffic Shaping functionality this feature should have option to be configured on the firewall.

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59	161-166	Firewall	Device should support Static routing, RIP, OSPF, BGP, IS-IS, RIPv3, OSPFv3 and BGP4+	Device should support Static routing, RIP, OSPF, BGP, OSPFv3 and BGP4+ IS-IS and RIPv3 are some of the protocols which are not used / supported on many network devices , hence should be removed . Protocols like BGP , OSPF have faster convergence and should be considered. Routing should be done by a dedicated router and the firewall should only do security inspection.	Device should support Static routing, RIP, OSPF, BGP, IS-IS, RIPv3, OSPFv3
			Firewall policy should be single policy where all the feature get applied such as IPS, application control , URL filtering , antivirus , SSL inspection ,logging and even NAT	Firewall policy should be single policy where all the feature get applied such as IPS, application control , URL filtering , antivirus/antimalware , SSL inspection ,logging and even NAT. Please consider the change as some of the terms used vary from OEM to OEM.	Firewall policy should be single policy where all the feature get applied such as IPS, application control , URL filtering , antivirus/antimalware , SSL inspection ,logging and even NAT.
			Firewall must support Zoning option along with User based authentication. It must have automatic option to group all the same zone policy .	Firewall must support Zoning option along with User based authentication. It must have option to group policies based on intent. The firewall rules should be created based on the use cases rather than just the zones as this adds complexity to the overall firewall configuration and causes confusion during troubleshooting	Firewall must support Zoning option along with User based authentication.
			There must be option to configure the said Firewall policy from GUI of the NGFW appliance without requiring any Management solution. This is in the case of emergency where management solution is no available and policy needs to be changed.	Please remove the clause The firewall manager is being provided in HA hence the asked clause does not hold true . It is important to manage all the firewalls from a central console to make sure all the config and logs are stored without any DB corruption and to streamline incident triaging and management.	As per Tender
			Firewall must support NAT46, NAT66 and NAT64 along with policy for such NAT along with option to configure DNS64	Firewall must support NAT46, NAT66 and NAT64 The firewall will not act as a DNS server .Hence please consider the suggested change.	Firewall must support NAT46, NAT66 and NAT64.
			Firewall must support NAT policy for multicast traffic for both IPv4 and IPv6	Firewall must support NAT policy. The firewall typically inspects multicast traffic and performs pass through . Please consider the suggested change	As per Tender
			There must be option to configure the said Firewall policy from GUI of the NGFW appliance without requiring any Management solution. This is in the case of emergency where management solution is no available and policy needs to be changed.	Please remove the clause The firewall manager is being provided in HA hence the asked clause does not hold true . It is important to manage all the firewalls from a central console to make sure all the config and logs are stored without any DB corruption and to streamline incident triaging and management.	As per Tender
			The security appliance should be having configurable option to quarantine attack generating source address	The security appliance should be having configurable option to quarantine/block attack generating source address Please consider the changes as different OEM's have different terminologies to address a use case.	The security appliance should be having configurable option to quarantine/block attack generating source address
			The proposed solution should support Virtualization (Virtual Firewall, Security zones and VLAN). Minimum 5 Virtual Firewall license should be provided.	Please remove the clause The firewall is asked with 900 MBPS throughput . Lets say we configure virtualization for 5 firewalls . With this analogy each firewall will provide approx. 180 MBPS along with degradation when all the capabilities are turned on . Please help us understand how is the use case feasible with respect to the RFP	As per Tender
			Virtualization must be for every feature which are IPS , Application control, Antivirus/Anti-malware , URL filtering , SSL inspection , SSL VPN , IPsec VPN , Traffic shaping and user authentication.	Please remove the clause The firewall is asked with 900 MBPS throughput . Lets say we configure virtualization for 5 firewalls . With this analogy each firewall will provide approx. 180 MBPS along with degradation when all the capabilities are turned on . Please help us understand how is the use case feasible with respect to the RFP.	
			Enabling Virtualization shouldn't require any kind of downtime or reboot. It must be done seamless even if the NGFW is live in the network.	Please remove the clause The firewall is asked with 900 MBPS throughput . Lets say we configure virtualization for 5 firewalls . With this analogy each firewall will provide approx. 180 MBPS along with degradation when all the capabilities are turned on . Please help us understand how is the use case feasible with respect to the RFP	
			Global option of virtualized NGFW shouldn't take much of CPU and memory	Please remove the clause The firewall is asked with 900 MBPS throughput . Lets say we configure virtualization for 5 firewalls . With this analogy each firewall will provide approx. 180 MBPS along with degradation when all the capabilities are turned on . Please help us understand how is the use case feasible with respect to the RFP.	
			When creating virtualized NGFW it should give mode option to configure each virtualized system such as first system can work in NAT/route mode and second system can work in transparent mode.	Please remove the clause The firewall is asked with 900 MBPS throughput . Lets say we configure virtualization for 5 firewalls . With this analogy each firewall will provide approx. 180 MBPS along with degradation when all the capabilities are turned on . Please help us understand how is the use case feasible with respect to the RFP.	
			Each virtualized NGFW system must have option to configure various parameter to limit the resources utilization such as number of session , etc.	Please remove the clause The firewall is asked with 900 MBPS throughput . Lets say we configure virtualization for 5 firewalls . With this analogy each firewall will provide approx. 180 MBPS along with degradation when all the capabilities are turned on . Please help us understand how is the use case feasible with respect to the RFP.	
			NGFW must have build in support IPsec VPN and SSL VPN. There shouldn't be any user license restriction	NGFW must have build in support IPsec VPN and SSL VPN. The firewall should support minimum 100 VPN users from day one Each device from all the OEM's can only support a certain no. of users. Hence it is important to specify the no. of users to be supported on a device. Please consider the suggested changes	NGFW must have build in support IPsec VPN and SSL VPN. The firewall should support minimum 100 VPN users from day one
			IPsec VPN must include gateway to gateway and gateway to client vpn. In case of gateway to client the administrator must have option to assign private IP address to remote user without receiving any	IPsec VPN must include gateway to gateway and gateway to client vpn. In case of gateway to client the administrator must have option to assign private IP address to remote user. Each OEM has a specific way of licensing . The current clause block all major OEM's from participating	As per Tender

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			assign private IP address to remote user without requiring any additional license	Please remove the clause The said clause is same as S.No. 40		
			IPSec VPN must support SHA-1 and SHA-2 (SHA 256, 386 and 512) along with DH group 2,5,14,15,16,17,18,19,20,21,27,28,29,30 and 31.	IPSec VPN must support SHA-1 and SHA-2 (SHA 256, 386 and 512) along with DH group 2,5,14,15,16,19,20,21and 31. Please help us understand the use of having so many SHA values. Most of them are depreciated and not recommended. Seems to be OEM specific.	IPSec VPN must support SHA-1 and SHA-2 (SHA 256, 386 and 512) along with DH group 2,5,14,15,16,19,20,21and 31.	
			SSL VPN must not have any user license and should have option to integrate with local AD or RADIUS server	SSL VPN should have option to integrate with local AD or RADIUS server. Each OEM has a specific way of licensing . The current clause block all major OEM's from participating	As per tender	
			Both VPN must support 2-factor authentication with option to have locally imported tokens on the NFGW appliance itself , if required.	Please remove the clause. Asked capability is OEM specific , please remove to allow major OEM's to participate		
			The proposed system should be able to block or allow oversize file based on configurable thresholds for each protocol types and per firewall policy.	The proposed system detect and block different file types and protocol types. It should have the capability to hold any unknown file for which the sandbox does not have a verdict for at least 10 sec while the sandbox provides a verdict. The firewall sandbox should have the capability to inspect files up to 250MB. Please consider the changes as the suggested changes are very important from security standpoint to make sure any kind of malware infection is detect on the firewall before it try's to enter the network.		
				Please confirm if we need to consider separate hardware for the Firewall Solution requirement. If yes request to share the specifications for the same	Yes. As per tender	
			Web content filtering features: Blocks web plug-ins such as ActiveX, Java Applet, and Cookies, Web URL block, score based web keyword block, Web Exempt List	Web content filtering features: Blocks web plug-ins such as Web URL block, score based web keyword block, Web Exempt List ActiveX, Java, Applet, and Cookies are very old technologies which were used on browsers , but todays browsers block them by default hence firewall resources are not consumed to the check the same	As per tender	
60	194	Racks (9U, 12U)	Width : 600 mm Depth : 450 mm	Depth depends on Manufacturer design from 450mm to 600mm, kindly revise the depth requirement to 450mm-600mm. We recommend a minimum depth of 500mm to accommodate equipment and cables without the cable having tight bends (450mm would be too congested). Depth should be 600 mm instead of 450 mm as given in the RFQ Tech Specs. Please Confirm, Normally standard size available with OEM is 500MM.	Width : 600 mm Depth : 600 mm	
61	BOQ	Racks(9U, 12U, 22U)	Racks: 9U -10 No's 12U - 10 No's 22U -120 No's	Apart from the qty of racks i.e. 9U/12U racks and 22U Outdoor racks please confirm if we need to consider additional racks for mounting network Switches, Servers, Storage, Copper & Fiber patch panels, UPS etc. & mounting furniture/console for the client locations and the DC1/DC2/DR Locations for Monitoring.	42U racks are available at Communication Rooms for installing the network switches. Racks for installing servers and storage at DC will be provided by CIAL.	
62	BOQ			Can we use the existing racks to accommodate the remaining switching requirement in the tender/ Shall we consider additional Racks. If so request to share the quantity and Specifications. but the number of switches required are 352 No's		
63	194-195	Racks (22U Outdoor type with cooling fans)	Size : The racks shall be of size 22U or more, outdoor type	Please Confirm the Width and Depth size of the rack	Min Width : 600 mm Min Depth : 600 mm	
			Accessories: cable managers, 8 x 5A socket power strip, provision for taking cables in and out.	Kindly accept PDU with 6 nos. socket which will be sufficient enough to connect the required equipments. Normally available with OEM is 6 Socket Horizontal IND PDUs. Please confirm .	Accessories: cable managers, 6 x 5A socket power strip, provision for taking cables in and out.	
			Protection : IP 65 rated, shall prevent ingress of water, dust, insects, traffic dust etc. shall protect the equipment against rain water ingress in open areas, shall be rodent proof.	A) IP65 Can not be attained when Exhaust cooling fans are required. Maximum IP rating achievable is IP55 with rain canopy. Kindly revise the specification to IP55. B) No certification of IP Rating is asked by the Tender. Central Agencies like CPRI (central power research institute) certifies the IP rating of the racks ensuring the reliability of the ingress protection. We suggest to ask for CPRI certification for the IP rating of outdoor racks.	Protection : IP 55 or higher rated, shall prevent ingress of water, dust, insects, traffic dust etc. shall protect the equipment against rain water ingress in open areas, shall be rodent proof.	
				IP 65 Can not be attained when Exhaust cooling fans are required. Maximum IP rating achievable is IP55 with rain canopy. Kindly revise the specification to IP55.		
				IP 66 protection, which means the cabinet should have waterproof & airtight protection, No Ventilation or Fan are allowed. But above line item mentioned for Cooling Fan required. Please confirm If you required IP 66 (Without Fan) Or IP 56 (With Fan)		
				As we need to install the network switch and power equipment inside the junction box, then it will radiate the heat, We need to dissipate the heat from inside the enclosure / junction box. For removing the heat it required Fan and filter then IP deraters and meet IP 55 standards. Request for IP 55 standards junction box/rack instead of IP65		
			Installation : shall be installed on floor / ground level on suitable foundation with suitable height to prevent water entry.	Plinth for mounting of rack to be in the scope of CIAL.	Plinth for mounting of rack is in the scope of the bidder.	
			22U Outdoor Rack Plinth	Please confirm the dimensions and anchor bolts sizing of 22U rack Foundations	As per the requirement of the OEM	
64	189	Data Cabling and Termination	Each communication room shall be provided with a 42U equipment rack.	42U rack is not part of BoQ. Shall be added as additional line item. Kindly suggest.	Communication Room are already provided with 42U rack. Need not considered separately.	

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65	195	Earthing for Outdoor Camera Poles and Earthing for Outdoor Racks	Type : Earthing with 2 metre copper rod of 25 mm dia with earthing compound and required cable terminations:	In the RFP Earthing specifications are mentioned at clause 3. Earthing Systems Page no. 186 also so request to kindly clarify which specifications need to be followed by the bidder for the Earthing of the Camera poles / Outdoor racks	Bidder shall consider the following earthing: <u>Earthing for outdoor camera poles</u> Type : Earthing with 2 metre copper rod of 25 mm dia with earthing compound and required cable terminations.	
				There are 2 two different type of specifications given on Pg no 195 & 186 for earthing, kindly confirm which one will supersede	<u>Earthing for Outdoor Racks</u> Earth plate : 2 sq ft Copper plate of 3 mm thickness Earthing Chamber : 1 sq ft brick chamber with cover Filling : Earthing compound or equivalent Connection : 25 x 3 mm copper strip with connectors and other required accessories	
			Earth plate: 2 sq. ft Copper plate of 3 mm thickness	Kindly explain Earthing for Outdoor Racks ?		
66	183	Surge Protection Device	CIAL will provide earthing at the outdoor enclosure. The termination shall be done by the CCTV contractor.	Kindly clarify that CIAL will provide the earthing or Bidder needs to provide the Earthing	CIAL will not be providing earthing at the outdoor enclosure. Bidder has to provide the earthing.	
67	191	Shielded CAT 6A Cable	Shielded CAT 6A Cable I/O Box with face plate(Cat 6)	In the RFP specifications for the Cat 6 & category Cat 6 A is mentioned and accessories of the Cat 6 category is mentioned to maintain the System uniformity. Kindly clarify that bidder should use the Cat 6 Or Cat 6A along with same grade(Cat 6 or Cat 6A) accessories	As per tender	
68	192	Optic Fibre Patch Panel	Compatibility: SC Type	LC type, which is more compact and at about half the size of SC connectors. LC is now the preferred choice for high-density connections. Please confirm.		
69	192	Pig tails	Compatibility: SC, Single Mode, factory terminated	LC type, which is more compact and at about half the size of SC connectors. LC is now the preferred choice for high-density connections. Please confirm.		
70	193	Patch Cord (Cat 6)	Conductor:: 4 pair 23 AWG copper conductors	AWG 26/7 stranded conductors for flexibility and better performance.		
71	193	Patch cord(Fiber Optic)	Sheath :FR-PVC	Request you to change as LSZH instead of FR-PVC	Sheath :FR-PVC/ LSZH	
72	193	I/O Box with face plate(Cat 6)	Type: : 2 x RJ 45 port with face plate, shutter, label field	Comes with dust covers. Please confirm Back.	As per tender	
73	189	OFC connectivity		Please confirm that the OFC connectivity is on SC type connectors ?	Single Mode SC Type Flat Polish Connector	
74	BOQ			There appears to be a variance in the quantity listed for supply and the quantity mentioned in the ITC for certain line items. We assume that this difference accounts for items designated as spares and going to be used for regular maintenance of the CCTV system. Kindly confirm.	Additional units are considered as spare quantity	
75	BOQ		Additional Items required if any apart from the BOQ for Supply and Services	Please confirm if any additional qty is required apart from the attached BOQ for supply and Services the same shall be paid by CIAL as per the unit rate quoted by the bidder.	Any other items required for the completion of the work, other than mentioned in the BoQ, shall be considered in the miscellaneous items.	
77	BOQ		Additional Items required if any apart from the BOQ for Supply and Services for the ANPR Cameras, Face Detection and Recognition cameras , Speed Monitoring cameras , Queue Monitoring Cameras	Please confirm if the Location of camera placement for the ANPR Cameras, Face Detection and Recognition cameras , Speed Monitoring cameras , Queue Monitoring Cameras has been provisioned with the required qty of Poles , PVC back box, Junction Boxes or Outdoor racks along with accessories for power and copper connectivity or the same needs to be considered additional to the BOQ provided	All items shall be quoted as per BoQ. Any other items required for the completion of the work, other than mentioned in the BoQ, shall be considered in the miscellaneous items.	
78	BOQ		Difference in the BOQ Qty for Supply and Installation	Please confirm if the difference in the Supply Qty and the Installation qty for the cameras and switches will be used as spares for the project requirement or do we need to consider additional qty for spares	will be considered as spares	
79	BOQ	171	Supply of ELCB(16A 4P 100mA)	Kindly change the ELCB from 4P to 2P.	Supply of ELCB(16A 2P 100mA)	
80	BOQ	158-159	Excavation(As per the Technical Specification)	Kindly descope the same from our scope and add it in civil contractor's scope.	As Per Tender	
81	BOQ	101	Supply of Earthing Systems for outdoor camera poles (As per the Technical Specification)	Kindly descope the same from our scope and add it in electrical scope		
82	BOQ	102	Supply of Earthing for Outdoor Racks (As per the Technical Specification)	Kindly descope the same from our scope and add it in electrical scope		
83	BOQ	141	SITC of Wall chipping, cement filling, putty finish and painting for 32 mm PVC conduit.	Kindly descope the same from our scope and add it in civil contractor's scope.		
84	BOQ	168 to 78	Electrical System (As per the Technical Specification)	Kindly descope the same from our scope and add it in electrical scope		
85	BOQ	Sl No 145	SITC of Patch Panel (Cat 6,24 port) (All other accessories required for completion of the work.)	Please confirm Panel is loaded or unloaded	Loaded	
86	BOQ	Sl No 146	SITC of Patch Panel (Cat 6A ,24 port) (All other accessories required for completion of the work.)	Please confirm Panel is loaded or unloaded	Loaded	

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87	BOQ	Sl No 151	SITC of Patch Cord (Cat6,1 metre) (All other accessories required for completion of the work.) Quantity: 500	Please check the quatity of the patch cords ,as about 500 + 50 = 550 only, are considered in the BOQ,whereas the total Nodes scope is of around 3840 + as per Patchpanel's count.	Existing passive items can be reused.
88	BOQ	Sl No 152	SITC of Patch Cord (Cat6, 2 metre) (All other accessories required for completion of the work.) Quantity: 50	Please check the quatity of the patch cords ,as about 500 + 50 = 550 only, are considered in the BOQ,whereas the total Nodes scope is of around 3840 + as per Patchpanel's count.	Existing passive items can be reused.
89	BOQ	Sl No 22,23	Supply of Wall Mount/Bracket for Dome Camera	Design drawing of Wall Mounts/Brackets for Dome Cameras required for clear understanding.(For wall mount Cameras)	As per OEM requirement
90	BOQ	Sl No 142,143,144	Fibre Optic Patch Cord	SC-LC type and SC-SC type Fiberpatch cords must be replaced with LC type connector only, as LC type is the latest technology and with Compact connector size in comparison to SC type connectors.	As per tender
91	BOQ	Sl No 136,137	SM Pigtail	We understand that said pigtail quantity of 1800 is going to be part of line item 116 & 117. Kindly confirm?	Yes.
92	BOQ	Sl No 154	HDPE Pipe (40mm)	Kindly share the complete specification of 40mm HDPE pipe as on page no. 193, only 25mm or 32mm HDPE specification has been mentioned.	40 mm HDPE pipe with ISI make as BoQ shall be considered.
93	BOQ			HDPE Pipe mentioned in RFP is of 25 mm or 32 mm dia , But in BOQ the dia is 40 mm.Please confirm which should be considered.	
94	BOQ			We understand that only single 40mm HDPE duct to be laid in trench. Kindly confirm ?	HDPE duct to be laid as per requirement.
95	BOQ	Sl No 16,17,20,21	Camera Mounting Pole : 2 metre	Please confirm the Pole Foundation size for 2 meter poles,as not give in the RFQ	As per requirement of camera OEM
96	BOQ	Sl No 16,17,20,21	Camera Mounting Pole	Drawing of the camera mounting Pole needed, to understand the mounting scenario and provision the camera mounting arrangements.	As per requirement of camera OEM
97	BOQ	Sl No 20,21	Camera Mounting Pole: 8 metre	8 meter poles for the Camera Mounting are needed with the Pole Base Plates and the dimensions of the plates are required along with the Anchor bolts dia etc ,as not mentioned anywhere.	suitable base plate wit hanchor bolt to meet the technical specification shall be provided
98	BOQ		Information Outlets for Camers	Information Outlets for Camers are not considered in the BOQ,As we could not find in the BOQ	Cameras will be directly connected to network switch
99	BOQ		Cat 6A Patch cords	Cat 6A Patch cords are missing in the BOQ	Cat 6 patchcords will be used.
100	BOQ		Face plate(Cat 6)	For Data/Voice connectivity, field Side connectivity I/O Box with face plate(Cat 6) mentioned in the RFP but are not a part of the BOQ. Would request you to please incorporate the line item with Quantity required.	Field Side I/O Box with face plate not required.
101	93 Of 20	Electrical Cabling	FR-PVC insulated type copper cable, as per approved makes and schedule of quantities	Kindly confirm if Aluminium or copper cable is required, In BoQ description, Aluminium is mentioned	Shall be quoted as per BoQ
102	94	Electricity Supply	The CIAL will not be responsible for the supply of Electric power to the Contractor for preparing the site or equipments. The Contractor shall make his own arrangements for temporary connections required, if any, and make necessary payment to the Departments concerned.	We request CIAL to provide the required power for installation and support for co-ordination with other departments.	CIAL will provide power, if possible, on chargeable basis at a single point. The contractor shall arrange the necessary distribution cables and power meter.
103		Electricity Supply	Electricity Supply	Where should we get the power source and internet source for the installation process	Pls refer clause 24 in the Special Conditions of Contract
104	113	Scope of work	Installation, Integration with other systems, testing & commissioning of above components.	list the integration required with CCTV package	Integration with BHS system, Master Clock required. Shall have provision for integration with SIEM, standard Access Control Systems in future.
105	10	Project Management	The contractor shall arrange necessary equipment for carrying out the work and shall keep them available at site	Lifts & downtime approvals will be in scope of CIAL	It is the responsibility of the bidder to take necessary approvals related to the work.
106		Hard Disk Specification		Hard disk specification is not clear in tender document and BoM	Query not clear about which hard disk. All hard disk specifications are mentioned in the tender.
107				The bidder is expected to install all new indoor cameras in the existing locations, keeping in mind that the sizes of dome cameras may differ from the existing ones. If any structural adjustments or patchwork are necessary for installation, CIAL will assist in facilitating the required work. Please provide clarification on these points.	If any structural modification is reqired for installing the new cameras at the existing camera location, it shall be under the scope of the CCTV contractor.
108				During the installation of new switches and cameras, the associated area will be temporarily shut down, resulting in the unavailability of video data until the new systems are fully operational. Request CIAL to support on this.	Prior approval needs to be taken from appropriate authorities (in coordination with CIAL) during the migration.

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109				The bidder may require additional rack space and power at DC-1&2 to set up the system in parallel during installation. Kindly confirm.	Rack space will be allotted for installing the new system.
110		Design		Design for the RFQ to be provided by CIAL.	Network Diagram is provided in the tender.
111		Drawings		Drawings will be provided in 2D or 3D mode	CIAL will provide basic CAD drawing. Detaile Executon diagram shall be provided by contractor.
112	196	Network Diagram	The Tentative CCTV Network Diagram is attached herewith	Request you to Please share the Complete Logical connectivity Diagram	Network diagram is provided in the tender document.
113				Need clarity on deployment of Firewall in the environment.	Firewall will be deployed at Data Centre 1 & 2 for external connectivity and third party integration.
114	115	System Integration	The integrator has to select the OEMs from the approved makes.	Please confirm if we can participate with brands other than the specified list of approved makes for all the tender items meeting the technical specification	No. As per approved make mentioned in tender.
115	197	Approved Makes	Approved Makes list	Requesting to allow all complied OEM instead of approved makes, this giving names in RFP makes this RFP more costlier due to lack competition in OEM.	As Per Tender
		Approved Makes: Camera	Bosch, Honeywell, Hanwha, Axis, Pelco, Indigo Vision	can Tyco can be added in approved make for same specification for wider participation	
				Request to consider adding VIVOTEK in Approved Makes. VIVOTEK (A Delta Group Company) is a global leader in manufacturing IP Video Surveillance. In India they are present more than 10 years and having registered office in Delhi. They have done multiple projects like Smart City/ITMS, Airport, Defence, DataCentre and more.	
		Approved Makes: Server	HP, DELL, CISCO	Request to consider adding TYRONE in Approved Makes. Tyrone is an Indian OEM having registered office in Faridabad, Haryana having more than 25 years of experience. They have done more than 500HPC installations in India across different segments like Education, Defence, Research Zones, ISRO to name a few and they are listed in the Latest India Top Super Computer List.	
				Most of the makes listed in the category do not fully meet the specifications outlined in the RFP. Additionally, the lead time for these items is considerably long. We kindly request some flexibility on these line items, either by allowing small deviations in the specifications or by adding a few more makes to the list. We propose including "Belden" & "Tejas" in the list of acceptable makes.	
		Approved Makes: Network Switch	Cisco, Juniper, Extreme	Kindly add HP aruba switched as approved make.	
				Most of the makes listed in the category do not fully meet the specifications outlined in the RFP. Additionally, the lead time for these items is considerably long. We kindly request some flexibility on these line items, either by allowing small deviations in the specifications or by adding a few more makes to the list. We propose including "Belden" and "Tejas" in the list of acceptable makes.	
		Approved Makes:Industrial Switch	Cisco, Extreme, Allied Telesis	Kindly add Moxa switched as approved make.	
				Request to consider adding TYRONE in Approved Makes. Tyrone is an Indian OEM having registered office in Faridabad, Haryana having more than 25 years of experience. They have done more than 500HPC installations in India across different segments like Education Defence Research Zones ISRO to name a few and they are listed in the Latest India Top Super Computer List.	
		Approved Makes: Storage	HP, Dell, Hitachi, NetApp		
		Approved Makes: Firewall	Fortinet, Palo Alto, Checkpoint	Pls include Cisco firewall in this list	Firewall : Fortinet, Palo Alto, Checkpoint,Cisco
		Approved Makes: Video Wall Controller	Datapath/ Christie /Dexon	can Barco & Delta can be added in approved make for same specification for wider participation	Video Wall Controller : Datapath/ Christie /Dexon/Dritta
				Kindly include dritta in the list	
		Approved Makes: Data cablings & Terminations	Molex, Amp, Systimax, Krone, Legrand, Actassi	Actassi make under Data cablings & Termination category was overtake by RIT Tech (Intelligence solutions) LTD. Kindly confirm if RIT Tech also can be considered for Data Cabling & Termination.	As per tender
				Kindly include Honeywell make for Data cablings & Terminations	
				Kindly include R&M (Reichle & De-Massar) make for Data cablings & Terminations	
				We are the leading OEM for the Optical Fiber, Data Cabling & Accessories and complying tor RFP specifications so request you to kindly add the STL make in the approved list.	
		Approved Makes: PVC Conduits, HDPE Pipes	ISI Make	ISI approval is not applicable for HDPE pipe of the Data Cables laying so request to change the TSEC certified HDPE pipe	ISI/ TSEC Approved

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		Approved Makes:Video Management Software	Genetec, Milestone, Bosch, Honeywell, Avigilon	This is OEM restrictive clause & violates Govt of India guidelines for Make in India initiative. We request you to kindly amend the clause as : '8. Video Management Software :Genetec, Milestone, Bosch, Honeywell, Avigilon, Videonetics '	As Per Tender	
				We hereby request you to Kindly please Include i2V in the Approved Make List. i2V is 100% Made in India Brand and had working experience with Multiple (Approx 30+) Airport (AAI) Across India. Infact i2V is already being Implemented at CIAL for the RFP of SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF PERIMETER INTRUSION DETECTION SYSTEM AT COCHIN INTERNATIONAL AIRPORT for (TENDER NO.CIAL/COMMN/PS/03) So we request you to kindly remove the Approved Brands or Amend this Clause as " 8. Video Management Software : i2V, Genetec, Milestone, Bosch, Honeywell, Avigilon"		
		Approved Makes: Analytics Software	<p>Approved Makes Analytics Software : The quoted solution shall be successfully running in airports/ reputed organizations. Face Recognition – 25 Cameras, Speed monitoring – 25 systems, Queue management – 25 cameras</p> <p>Satisfactory Performance Certificate from the client to be attached.</p>	CCTV Analytics - Allgovision, videonetics, Awiros, Graymatics, Metafusion ai		
				<p>Being the OEM for the Face Recognition Software, Speed Monitoring Software & Queue Management Software, we usually get the Purchase order's of Reputed End Customer/Organization from a System Integrator, thus the End User/Organization does not provide the Completion Certificates directly to the OEM's but they Provide the Satisfactory Performance Certificate to the System Integrators, thus as an OEM we can Provide with the Satisfactory Performance Certificate from our Client i.e. System Integrator.</p> <p>We understand that as an OEM, if we Submit the Completion Certificate from our Client i.e. the System Integrator then it shall be Acceptable.</p> <p>We Hereby Request to Kindly please Amend this Clause as:</p> <p>Analytics Software : The quoted solution shall be successfully running in airports/ reputed organizations. (Face Recognition – 15 Cameras, Speed monitoring – 25 systems, Queue management – 25 cameras). Satisfactory Performance Certificate from the client to be attached.</p>		<p>Satisfactory Performance Certificate from the User dept</p> <p>As Per Tender</p>
116		General	Camera	We are seeking information about the current position of the camera to enhance our comprehension	Will be shared after award of work only due to security reasons.	
				Please share the location details for the new camera supply and installation		
				Please confirm Cameras are Auto focus?		
				Each set of cameras would be dedicated to their own internal storage?		
117	ew Claus	SIEM		Security Information and Event Management (SIEM) Integration required in future or not?	Yes.The proposed solution (including hardware and software) must seamlessly integrate with Security Information and Event Management (SIEM) platform, adhering to industry-standard protocols. The integration should facilitate the sharing of relevant security data and events between the proposed solution and the SIEM platform in real-time.	
118	ew Claus	Asset Management		The solution should be able to connect, manage, monitor, and get reports on all your assets, allowing you to optimize your business workflows.	Can be provided if required as part of the solution for managing the devices	
	ew Claus			<p>The solution should provide monitoring dashboard which allows for easy inventory management, asset utilization optimization and loss prevention.</p> <p>1. Save costs by making sure assets are in compliance with policies. 2. Save money on maintenance and inspections by automating data monitoring of equipment</p>		
	ew Claus			The solution should be able to continuously monitors data - including telemetry data such as temperature and humidity - from the sensors attached to your assets and can give you an immediate alert or trigger an automated action predefined by your customised workflows, policies and business rules.		
119	ew Claus	Ticketing System		No tool for ticketing system to record, track and monitor the Issues and its Severity is mentioned in RPF, kindly suggest if any tool required or CIAL already have it.	CIAL is already having a tool.	
120	ew Claus	Intellectual Property Ownership		The IP ownership is silent in the tender , Kindly consider - All software provided in connection with this Agreement shall be licensed and not sold. The end user of the software will be required to sign a license agreement with provisions limiting use of the software to the equipment provided under these specifications, limiting copying, preserving confidentiality, and prohibiting transfer to a third party."	As per tender	
121	ew Claus	Suspension/Termination by Contractor:		Kindly consider -Contractor has right to stop work for no work front availability , in case CIAL default in payment to contractor.		
122	ew Claus	Dispute Resolution		<p>Tender calls for direct arbitration in case of dispute, please consider</p> <p>a. kindly allow for amicable settlement first before arbitration. b. Arbitration by mutually appointed arbitrator as per the Act 1996</p>		

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123	ew Clause	Anti-bribery, anti-corruption:		(kindly consider)- Parties shall comply with all applicable anti-bribery and anti-corruption laws in performance of this tender and in all matters relating thereto."	
124	ew Clause	Change order		Kinly consider : Any change order or variation orders during the execution of works to be mutually accepted by both parties (Customer and contractor)	
125	ew Clause	Technical Drawings		2). Can the existing and expected technical drawings be shared as corrigendum or amendments instead of physically presence to view so that the document can be referred for any clarification in the future before bidding	Network Diagram is provided in the tender.
126	ew Clause			To ensure data to be protected in the cache in case of power failure The storage should have protection of cache data during a power failures by destaging the data in cache to non-volatile Memory or Disk. This memory should be equivalent to proposed as per RAM. Adequate battery backup should be provided to destage the data from cache to non-volatile Memory or Disk.	As per tender
127	ew Clause			To ensure storage uptime in case of hardware failure and part replacement The storage should be with No Single Point of Failure (SPOF). All the components should be redundant and hot swappable including power supply, fans, batteries etc. The proposed storage must support non disruptive replacement of hardware component	The proposed storage must support non disruptive replacement of hardware component.
128	ew Clause			To ensure data availability Vendor should be able to provide 100% Data Availability Guarantee .	
129	ew Clause			To ensure ease of management of data across existing install base Storage array shall support heterogeneous storage virtualization (native/external) for vendors like EMC, HP, IBM, Hitachi, Netapp etc. Storage should be supplied with Unlimited capacity of virtualization license for existing storage. In case of non native/external component used, it should be supplied in redundant mode with no single point of failure.	
162	39	GENERAL CONDITIONS OF CONTRACT (GCC) 13.0 Time and Extension for Delay	If the Contractor commits default in commencing the execution on of the work as aforesaid, CIAL shall without prejudice to any other right or remedy be at liberty to forfeit the earnest money absolutely.	Kindly remove this clause as this is unilateral right to CIAL .	
163	41	GENERAL CONDITIONS OF CONTRACT (GCC) 15.a.4 Materials	The Contractor shall indemnify CIAL employee against any action, claim or proceedings relating ng to infringement or use of any patent, copy right, intellectual property right or design right and shall pay any royalties or other charges which may be payable in respect of any article or material or part thereof included in the Contract	Kindly amend this clause as " Notwithstanding anything contained herein to the contrary, with respect to any and all claims arising out of the performance or non performance of obligations under this contract or purchase order, whether arising in contract, tort, warranty, strict liability or otherwise, Supplier/vendor/service provider's liability shall not exceed in the aggregate 100% of the purchase order price or payments received against the purchase order, whichever is lower. "	
164	47	GENERAL CONDITIONS OF CONTRACT (GCC) 32 Compensation for delay	32.1 Provided always that the total amount of compensation for delay to be paid under this Condition shall not exceed the under noted percentage of the Contract value or of the Contract value of the item or group of items of work for which a separate period of completion is given: a) Completion period (as originally stipulated) not exceeding 6 months. 10 per cent. b) Completion period (as originally stipulated) exceeding 6 months and not exceeding 2 years 7.5 per cent. c) Completion period (as originally stipulated) exceeding 2 years. 5 per cent.	Kindly amend this clause as : PENALTY/LIQUIDATED DAMAGES would be 0.5% per week to maximum of 5% of the incomplete portion of the contract value.	
165	49	GENERAL CONDITIONS OF CONTRACT (GCC) 34 Contractor's Liability and Insurance	34.4 The Contractor shall indemnify and keep indemnified CIAL against all losses and claims for injuries or damage to any persons or any property whatsoever which may arise out of or in consequence of the construction and maintenance of Works and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto. PROVIDED always that nothing herein contained shall be deemed to render the Contractor liable for or in respect of or to indemnify CIAL against any compensation or damage	The highlighted clause calls for un limited liability . Kindly amend this clause as " Notwithstanding anything contained herein to the contrary, with respect to any and all claims arising out of the performance or non performance of obligations under this contract or purchase order, whether arising in contract, tort, warranty, strict liability or otherwise, Supplier/vendor/service provider's liability shall not exceed in the aggregate 100% of the purchase order price or payments received against the purchase order, whichever is lower. "	
166	120	PARTICULAR CONDITIONS OF CONTRACT (PCC)	This limit shall not apply to damages for bodily injury (including death), and damage to real property and tangible personal property for which contractor is legally liable.	Kindly confirm Total liability should be expressly capped to contract value .	
167	120	11. Liability limitation	The Contractor shall in no event be liable for indirect and consequential damages, loss of /damage to data and third party claims except as provided in this contract.	Liability for consequential losses are waived off but except as provided in this contract. Kindly allow an express waiver of consequential losses for bidder .	
168	34	GENERAL CONDITIONS OF CONTRACT (GCC) 7. Sufficiency of the Tender	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the Works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the Works.	We would request for this clause to be amended to reflect that in case there is any change from CIAL or any specification is changed at delivery stage then WAISL shall be paid additionally for any such work as agreed between the Parties or via change request procedure. In this regard we would like to propose following wordings " The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the Works and of the rates and prices agreed between Parties of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the Works. In case any parameters or any changes been requested by CIAL then WAISL shall be paid for any such additional work as agreed between Parties."	

Tender for SITC of CCTV Surveillance System at CIAL (Tender Reference Number CIAL/COMMN/CCTV/24)

Sl No.	Page No.	Section Name	Tender Conditions	Query	Reply to Query
169	34	GENERAL CONDITIONS OF CONTRACT (GCC) 8.2 Discrepancies and Adjustment of Errors:	If there are varying or conflicting provisions made in any one document forming part of the Contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document.	We would request for deletion of this clause as if there is a conflict that will be decided as per the precedence clause of the document or in case of unavailability of that the terms of GCC shall prevail.	
170	35	GENERAL CONDITIONS OF CONTRACT (GCC) 9 (a)(2) Security Deposits	Provided that, if at the time of payment of the final bill, the deductions so made together with the earnest money already deposited, fall short of the security deposit above the recovery of the balance amount of security deposit shall be deemed to have been waived.	In case, any deduction at the time of final bill will be required, will it get adjusted against both earnest money deposit or security deposit and balance amount will be refunded to the Contractor?	
171	38	GENERAL CONDITIONS OF CONTRACT (GCC) 12 (a) (ii) of Suspension of Work	The Contractor shall, on receipt of the order in writing of the Engineer -in- Charge, suspend the progress of the work or any part thereof for such time and in such manner as the Engineer -in- Charge may consider necessary for any of the following reasons:(i) on account of any default on part of the Contractor; or (ii) for proper execution of the Works or part thereof for reasons other than the default of the Contractor; or (iii) for safety of the Works or part thereof.	We would request to add provision of cure period to deal with any issue which may arise during the project and same will allow us to rectify and provide us time to resolve the issues. We would suggest for following wordings " The Contractor shall, within 15 days, on receipt of the order in writing of the Engineer-in-Charge, shall rectify or resolve, any of the following reasons:(i) on account of any default on part of the Contractor; or (ii) for proper execution of the Works or part thereof for reasons other than the default of the Contractor; or (iii) for safety of the Works or part thereof. If Contractor fails to cure the above mentioned issue then the Engineer -in- Charge may suspend the progress of the work or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary. "	
172	39	GENERAL CONDITIONS OF CONTRACT (GCC) 12 (b) Suspension of Work	If the works or part thereof is suspended on the orders of the Engineer-in-Charge for more than three months at a time, except when suspension is ordered for reason (i) in sub-para (a) above, the Contractor may after receipt of such order serve a written notice on the Engineer-in-Charge requiring permission within fifteen days from receipt by the Engineer-in-Charge of the said notice, to proceed with the Works or part thereof in regard to which progress has been suspended and if such permission is not granted within that time, the Contractor, if he intends to treat the suspension, where it affects only a part of the Works as an omission of such part by CIAL under Conditions 10 and 11 or where it affects the whole of the Works, as an abandonment of the Works by CIAL shall within ten days of expiry of such period of 15 days give notice in writing of his intention to the Engineer-in-Charge. In the event of the Contractor treating the suspension as an abandonment of the Contract by CIAL, he shall have no claim to payment of any compensation on account of any profit or advantage which he may have derived from the execution of the work in full but which he could not derive in consequence of the abandonment. He shall, however, be entitled to compensation, as the Engineer-in-Charge may consider reasonable, in respect of salaries	We would request you to deviate from this provision as same will not be applicable any more as we are deviating from Clause 12 (a) of Suspension of Work under Section II (General Conditions of Contract).	
173	42	GENERAL CONDITIONS OF CONTRACT (GCC) 16 Labour	The Contractor shall employ labour in sufficient numbers either directly or through subcontractors to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the Contract and to the satisfaction of the Engineer-in-Charge. The Contractor shall not employ in connection with the Works any person who has not completed his eighteen years of age.	We agree to do everything as required by the agreement between the Parties, however, upto satisfaction of any Engineer-in-charge will not be reasonable. So, we would request for following modification in this agreement: "The Contractor shall employ labour in sufficient numbers either directly or through subcontractors to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the Contract. The Contractor shall not employ in connection with the Works any person who has not completed his eighteen years of age."	As per tender
174	43	GENERAL CONDITIONS OF CONTRACT (GCC) 16.7 Labour	In the event of the Contractor committing a default or breach of any of the provisions of the aforesaid Contractor's Labour Regulations, as amended from time to time or furnishing any information or submitting or filing any Form/Register/Slip under the provisions of those Regulations which is materially incorrect then on the report of the Inspecting Officers as defined in the Contractor's Labour Regulation, the Contractor shall without prejudice to any other liability pay to CIAL Rs.250/- as liquidated damages for every default, breach or furnishing, making, submitting, filing materially incorrect statement as may be fixed by the Engineer-in-Charge and in the event of the Contractor's default continuing in this respect, the liquidated damages may be enhanced to Rs.250/- per day for each day of default subject to a maximum of 5% of the estimated cost of the Works put to tender. The Engineer-in-Charge shall deduct such amount from bills or security deposit of the Contractor and credit the same to the Welfare Fund constituted under Regulations. <u>The decision of the Engineer-in-Charge</u>	We would request to modify wordings of this clause in following manner: "In the event of the Contractor committing a default or breach of any of the provisions of the aforesaid Contractor's Labour Regulations, as amended from time to time or furnishing any information or submitting or filing any Form/Register/Slip under the provisions of those Regulations which is materially incorrect then on the report of the Inspecting Officers as defined in the Contractor's Labour Regulation, the Contractor shall without prejudice to any other liability pay all the fines or penalty as per the applicable law." We would pay for any applicable fines if there is any slippage from our side but as per the law.	
175	43	GENERAL CONDITIONS OF CONTRACT (GCC) 16.8 Labour	Model Rules for Labour Welfare: The Contractor shall at his own expense comply with or cause to be complied with Model Rules for Labour Welfare as appended to these Conditions or rules framed by Government from time to time for the protection of health for workers employed directly or indirectly on the works. In case the Contractor fails to make arrangements as aforesaid, the "Engineer-in-Charge shall be entitled to do so and recover the cost thereof from the Contractor.	We would be happy to comply with applicable labour laws. Therefore, we would request for modification of the wordings in this clause as "The Contractor shall comply with applicable law for the protection of health for workers employed directly or indirectly on the works. In case the Contractor fails to make arrangements within 15 days, then the "Engineer-in-Charge shall notify the Contractor of the same and Contractor shall make necessary changes for welfare of such worker."	
176	43	GENERAL CONDITIONS OF CONTRACT (GCC) 16.9 Safety Code (i) Labour	Safety Code: The Contractor shall at his own expense arrange for the safety provisions as appended to these conditions or as required by the Engineer-in-Charge, in respect of all labour directly or indirectly employed for performance of the Works and shall provide all facilities in connection therewith. In case the Contractor fails to make arrangements and provide necessary facilities as aforesaid, the Engineer-in-Charge shall be entitled to do so and recover the cost thereof from the Contractor. (i) Failure to comply with Model Rules for Labour Welfare, Safety Code or the provisions relating to report on accidents and to grant of maternity benefits to female workers shall make the Contractor liable to pay to CIAL as liquidated damages an amount not exceeding Rs.250/- for each default or materially incorrect statement. The decision of the Engineer-in-Charge in such matters based on reports from the Inspecting Officers as defined in the Contractor's Labour Regulation as appended to these conditions shall be final and binding and deductions for recovery of such liquidated	We would request to modify this clause as follows: "Safety Code: The Contractor shall at his own expense arrange for the safety provisions as appended to these conditions or as required by the Engineer-in-Charge, in respect of all labour directly or indirectly employed for performance of the Works and shall provide all facilities in connection therewith. In case the Contractor fails to make arrangements and provide necessary facilities as aforesaid, the Engineer-in-Charge shall be entitled to do so and recover the cost thereof from the Contractor." We will pay for safety provision, however, we will pay all necessary fines and penalties to the government after investigating the same.	

Tender for SITC of CCTV Surveillance System at CIAL (Tender Reference Number CIAL/COMMN/CCTV/24)

Sl No.	Page No.	Section Name	Tender Conditions	Query	Reply to Query
177	48	GENERAL CONDITIONS OF CONTRACT (GCC) 34. Contractor's Liability and Insurance	From commencement to completion of the Works, the Contractor shall take full responsibility for the case thereof and for taking precautions to prevent loss or damage and to minimize loss or damage to the greatest extent possible and shall be liable for any damage or loss that may happen to the Works or any part thereof and all CIAL's T&P from any cause whatsoever (save and except the Excepted Risks) and shall at his own cost repair and make good the same so that at completion, the Works and CIAL's T & P shall be in good order and condition and in conformity in every respect with the requirements of the Contract and instructions of the Engineer-in-Charge.	We would suggest for following modification in this clause: "From commencement to completion of the Works, the Contractor shall take full responsibility for the case thereof and for taking precautions to prevent loss or damage and to minimize loss or damage to the greatest extent possible and shall be liable for any damage or loss that may happen to the Works or any part thereof due to sole mistake or gross negligence or Excepted Risks of the Contractor and shall at its own cost repair or make good the same so that at completion, the Works and CIAL's T & P shall be in good order and condition and in conformity with the requirements of the Contract."	
178	49	GENERAL CONDITIONS OF CONTRACT (GCC) 34.2 of Contractor's Liability and Insurance	Provided always that the Contractor shall not be entitled to payment under the above provisions in respect of so much loss or damage as has been occasioned by any failure on his part to perform his obligations under the Contract or not taking precautions to prevent loss or damage or minimize the amount of such loss or damage	We would request for deviation from this clause as the amount of loss itself is difficult measurement and will defer with circumstances. The Contractor will always try to mitigate all the losses and keep it to minimum.	
179	49	GENERAL CONDITIONS OF CONTRACT (GCC) 34.4. Contractor's Liability and Insurance	The Contractor shall indemnify and keep indemnified CIAL against all losses and claims for injuries or damage to any persons or any property whatsoever which may arise out of or in consequence of the construction and maintenance of Works and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto. PROVIDED always that nothing herein contained shall be deemed to render the Contractor liable for or in respect of or to indemnify CIAL against any compensation or damage caused by the Excepted Risks.	We would request for deviation from this clause as we would make good of any losses caused due to negligence of Contractor. However, anything beyond will be a major concern for the Parties.	
180	50	GENERAL CONDITIONS OF CONTRACT (GCC) 36.1 Notice to Local bodies	The Contractor shall pay and indemnify CIAL against any liability in respect of any fees or charges payable under any Act of Parliament, State laws or any Government instrument, rule, or order and any regulations or bye-laws of any local authority in respect of the Works.	We would request to modify the wordings of the clause and replace it with following: "The Contractor shall pay for any liability in respect of any fees or charges payable under any Act of Parliament, State laws or any Government instrument, rule, or order and any regulations or bye-laws of any local authority in respect of the Works, if such claim is received by CIAL."	
181	52	GENERAL CONDITIONS OF CONTRACT (GCC) Clause 40 of Termination of Contract for Death of Section II	If the Contractor is an individual or a proprietary concern and the individual or the proprietor dies and if the Contractor is a partnership concern and one of the partners dies then unless the Accepting Authority is satisfied that the legal representatives of the individual Contractor or of the proprietor of the proprietary concern and in the case of partnership, the surviving partners, are capable of carrying and completing the Contract, the Accepting Authority shall be entitled to cancel the contract as to its uncompleted part without CIAL being in any way liable to payment of any compensation to the estate of the deceased Contractor and/or to the surviving partners of the Contractor's firm on account of the cancellation of the Contract. The decision of the Accepting Authority that the legal representatives of the deceased Contractor or the surviving partners of the Contractor's firm cannot carry out and complete the Contract shall be final and binding on the parties. In the event of such cancellation CIAL shall not hold the estate of the deceased Contractor and/or the surviving partners of the Contractor's firm liable in damages for not completing the Contract. If (b) Commits default in complying with any of the terms and conditions of the Contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge; or (c) fails to complete the Works or items of work with individual dates of completion, on or before the date(s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge; or (f) being an individual, or if a firm, any partner thereof, shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effective or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors; or (f) being a company, shall pass a resolution	We would request for deviation of this clause as same shall not be applicable on us.	
182	53	GENERAL CONDITIONS OF CONTRACT (GCC) Clause 41 of Cancellation of Contract in Full or in Part of Section II	Where the Contractor is a partnership firm, prior approval in writing of the Accepting Authority shall be obtained before any change is made in the constitution of the firm. Where the Contractor is an individual or a Hindu Undivided Family business concern such approval as aforesaid shall likewise be obtained before the Contractor enters into any partnership agreement whereunder the partnership firm would have the right to carry out the work hereby undertaking by the Contractor. If prior approval as aforesaid is not obtained, the Contract shall be deemed to have been assigned in contravention of Condition 41 (j) hereof and the same action may be taken and the same consequence Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions to otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the Arbitrator appointed as per the provision of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment there of. The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, the appointing authority for arbitrator as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the	If the Contractor (b) or CIAL, commits default in complying with any of the terms and conditions of the Contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the other Party; or (j) or CIAL being a company, or public-sector unit, shall pass a resolution or the Court shall make an order for the liquidation of its affairs, or a receiver or manager on behalf of the debenture holders shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or manager' or (k) or CIAL, suffers an execution being levied on his good and allow it to be continued for a period of 21 days; or (l) or CIAL, assigns, transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or attempts to assign, transfer or sublet the entire Works or any portion thereof without the prior written approval of the Accepting Authority; the Accepting Authority may, without prejudice to any other right which shall have accrued or shall accrue thereafter to CIAL by written notice cancel the contract as a whole or only such items of work in default from the Contract.	
183	55	GENERAL CONDITIONS OF CONTRACT (GCC) Clause 44 of Changes in Constitution of Section II	Where the Contractor is a partnership firm, prior approval in writing of the Accepting Authority shall be obtained before any change is made in the constitution of the firm. Where the Contractor is an individual or a Hindu Undivided Family business concern such approval as aforesaid shall likewise be obtained before the Contractor enters into any partnership agreement whereunder the partnership firm would have the right to carry out the work hereby undertaking by the Contractor. If prior approval as aforesaid is not obtained, the Contract shall be deemed to have been assigned in contravention of Condition 41 (j) hereof and the same action may be taken and the same consequence Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions to otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the Arbitrator appointed as per the provision of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment there of. The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, the appointing authority for arbitrator as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the	We would request for deviation from this clause as this would not apply on us as we are a company registered under Companies Act, 1956.	
184	62	GENERAL CONDITIONS OF CONTRACT (GCC) Clause 57 of Arbitration under Arbitration and Laws of Section II	Where the Contractor is a partnership firm, prior approval in writing of the Accepting Authority shall be obtained before any change is made in the constitution of the firm. Where the Contractor is an individual or a Hindu Undivided Family business concern such approval as aforesaid shall likewise be obtained before the Contractor enters into any partnership agreement whereunder the partnership firm would have the right to carry out the work hereby undertaking by the Contractor. If prior approval as aforesaid is not obtained, the Contract shall be deemed to have been assigned in contravention of Condition 41 (j) hereof and the same action may be taken and the same consequence Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions to otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the Arbitrator appointed as per the provision of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment there of. The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, the appointing authority for arbitrator as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the	We would request that the replacing arbitrator shall be appointed with agreement of both Parties or as per Arbitration Act, 1996. Therefore, we would request for modification of this clause accordingly. We suggest following modification 'Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions to otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the Arbitrator appointed as per the provision of the Indian Arbitration and Conciliation Act , 1996 or any statutory modification or re-enactment there of. The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, the appointing authority for arbitrator as aforesaid at the time of such transfer, vacation of office or inability to act, shall with Contractor's written consent, appoint another person to act as arbitrator in accordance with the terms of the contract. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor. It is also a term of this contract that no person other than a person appointed by Accepting Authority should act as arbitrator and if for any reason, that is not possible, the matter is not to be referred to arbitration at all.'	

Tender for SITC of CCTV Surveillance System at CIAL (Tender Reference Number CIAL/COMMN/CCTV/24)					
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185	67	GENERAL CONDITIONS OF CONTRACT (GCC) Clause 13 of CONTRACTORS' LABOUR REGULATIONS of Section II	Enforcement: The Inspecting Officer shall either on his own motion or on a complaint received by him carry out investigations, and send a report to the Engineer-in-Charge specifying the amounts representing workers' dues and amount of penalty to be imposed on the Contractor for breach of these Regulations, that have to be recovered from the Contractor, indicating full details of the recoveries proposed and the reasons therefor. It shall be obligatory on the part of the Engineer-in-Charge on receipt of such a report to deduct such amounts from payments due to the Contractor.	We would request you to deviate from this clause as in case of any breach, officer suo-moto can take action and Contractor shall ensure all resulting penalties or fines are paid. However, we do not understand the reason for such report being shared with CIAL. We would be grateful if you could provide clarification on this regard.	
186	89	Special Conditions of Contract Clause 3 of RESTRICTIONS IN WORKING HOURS of	Necessary passes or entry permits to enter inside the airport and premises are to be obtained in advance. The staff deployed by the Contractor for the work should produce the police clearance certificate from an officer not below the rank of Supt. of Police/Commissioner of Police and obtain the entry permits from the office of the Airport Director.	We would request you to clarify if this would only apply on full time workers of the Contractor or on workers on daily wages too ?	Passes shall be obtained as per BCAS guidelines.
187	89	Special Conditions of Contract Third Para of Clause 3 of RESTRICTIONS IN WORKING HOURS of Section III	The Contractor's staff working in the operational area will obey the instructions of the Airport Officials in clearing the site. The number of hours working in the area might be restricted due to operational reasons and Contractor will not have any claim for extra payment on this account. Also prior permission has to be obtained before stacking of materials in the terminal building or outside the building.	We would request you to clarify if there is any delay due to restriction due to operational reason, then will the Contractor be provided extra time for completion of the work?	
188	90	Special Conditions of Contract Clause 4 of HANDING OVER THE SITE of	The site shall be handed over in phases. Contractor shall plan the work as per the phasing decided by the Accepting Authority and no claim will be entertained for not handing over the entire area in one stretch. In case there are small patches, which could not be handed over due to legal and technical reasons, this will not be considered as obstructions and no claim will be entertained for delays for such reasons.	We would request for addition of following wording in this clause: "Notwithstanding the above, if such delay is due to any such reason which is beyond Contractor's control then CIAL shall provide reasonable time to Contractor to complete that work."	
189	102	47. Performance Guarantee B). EQUIPMENT PERFORMANCE GUARANTEE:	The Contractor further guarantees that the equipment supplied by him shall be free from all defects in design, material and workmanship and shall, upon written notice from the purchaser fully remit free of expenses to the purchaser such defects as developed under the normal use of the equipment within the period of guarantee specified in the relevant clause of the general terms and conditions of the Purchase Order.	We would request to deviate from this clause as we are unable to provide any kind of guarantee as no product can be completely defect free, there will always be some wear and tear. However, we will replace/repair any device in case of damage as per the terms of this agreement, as long as such damage has not been caused by the employees of Purchaser.	As Per Tender
190	107	Special Conditions of Contract 26. Sub contracting	The vendor should specify the details of the sub contractors and certify their competency. All the details about subcontracting like the scope of the subcontractor, their competency in the relevant field etc should be furnished. Prior approval from CIAL should be taken by the vendor for the sub contracting and for the sub-contractors.	We would be providing you notice of the sub-contractor and in case you have an objection you can raise it within 15 days. Therefore, we are modifying the clause to reflect our understanding: "The Contractor should specify the details of the sub contractors and certify their competency. All the details about subcontracting like the scope of the subcontractor, their competency in the relevant field etc should be furnished. Prior approval from CIAL should be taken by the Contractor for the sub contracting and for the sub-contractors. Such approval(s) shall not be unreasonably withheld or delayed by CIAL."	
191	108	Special Conditions of Contract PROFORMA FOR WARRANTY AS TO QUALITY	Tenderer has to give undertaking regarding warranty as to quality as per the format placed hereunder for Equipment. " We warranty that everything to be supplied by us here under shall be free from all defects and faults in material, workmanship and manufacture, shall be of the highest grade as regards quality and consistent with the established and generally accepted standards for material of the type ordered, shall be in fully conformity with the specifications, and shall operate properly. We shall be fully responsible for its efficient operation. This warranty shall survive inspection of payment for, and acceptance of the goods, but shall expire (except in respect of complaints of which the Supplier has been notified prior to such date) 12 months after their acceptance by Purchaser in a satisfactory working condition at ultimate destination. The Supplier's obligations under the warranty expressed above shall also include transport charges from site to Supplier's works and back for repair or replacement at site of any part of the equipment which under normal and proper use and maintenance proves defective in design, material or workmanship or fails to confirm to the specifications provided that notice of any such defect or failure to confirm to the specifications is promptly given by the purchaser to the Supplier."	We would modify this proforma in following manner "Tenderer has to give undertaking regarding warranty as to quality as per the format placed hereunder for Equipment. " We warranty that everything to be supplied by us here under shall be free from significant defects and faults in material, workmanship and manufacture, shall be of the highest grade as regards quality and consistent with the established and generally accepted standards for material of the type ordered, shall be in fully conformity with the specifications, and shall operate properly. We shall be fully responsible for its efficient operation. This warranty shall survive inspection of payment for, and acceptance of the goods, but shall expire (except in respect of complaints of which the Supplier has been notified prior to such date) 12 months after their acceptance by Purchaser in a satisfactory working condition at ultimate destination. The Supplier's obligations under the warranty expressed above shall also include repair or replacement at site of any part of the equipment which under normal and proper use and maintenance proves defective in design, material or workmanship or fails to confirm to the specifications provided that notice of any such defect or failure to confirm to the specifications is promptly given by the purchaser to the Supplier"	The clause is amended as follows: Tenderer has to give undertaking regarding warranty as to quality as per the format placed hereunder for Equipment. " We warranty that everything to be supplied by us here under shall be free from all defects and faults in material, workmanship and manufacture, shall be of the highest grade as regards quality and consistent with the established and generally accepted standards for material of the type ordered, shall be in fully conformity with the specifications, and shall operate properly. We shall be fully responsible for its efficient operation. This warranty shall survive inspection of payment for, and acceptance of the goods, but shall expire (except in respect of complaints of which the Supplier has been notified prior to such date) after warranty period of 60 months, including Defects Liability Period of 60 months, after their acceptance by Purchaser in a satisfactory working condition at ultimate destination. The Supplier's obligations under the warranty expressed above shall also include transport charges from site to Supplier's works and back for repair or replacement at site of any part of the equipment which under normal and proper use and maintenance proves defective in design, material or workmanship or fails to confirm to the specifications provided that notice of any such defect or failure to confirm to the specifications is promptly given by the purchaser to the Supplier".
192	111	Particular Conditions of Contract 2. Project Management Sub-Contracting	Sub-Contracting: The contractor can subcontract the work packages. However, the work shall be subcontracted to only those parties who have relevant work experience in that work. The sub-contractor shall have relevant work experience for at least 75% of the value of the work subcontracted to him. A maximum level of sub-contracting is only allowed. The subcontractor will not be allowed to further subcontract the work in full or part there off to any other company or individual. Necessary supporting documents pertaining to the subcontracting shall be submitted for approval. The sub-contractor shall be appointed only after getting approval from the CIAL. CIAL reserves the right to reject the appointment of sub-contractor if the sub-contractor is found not capable of or not having experience for implementing the work.	We would request to modify this clause in following manner: "The contractor can subcontract the work packages. However, the work shall be subcontracted to only those parties who have relevant work experience in that work. The sub-contractor shall have relevant work experience for at least 55% of the value of the work subcontracted to him. The subcontractor will not be allowed to further subcontract the work in full or part there off to any other company or individual without Contractor's written approval. Necessary supporting documents pertaining to the subcontracting shall be submitted for approval. The sub-contractor shall be appointed only after getting approval from the Contractor after notice of same to CIAL. Contractor reserves the right to reject the appointment of sub-contractor if the sub-contractor is found not capable of or not having experience for implementing the work."	
193	116	8. COMPREHENSIVE ANNUAL MAINTENANCE AND WARRANTY INCLUDING ALL SPARES AND CONSUMABLES:	A suitable penalty as per the tender conditions will be charged for noncompliance with the SLA. This is applicable for all 365 days in the year. If the fault could not be rectified by the stipulated time period, necessary standby arrangement should be provided by the supplier. This is applicable for both warranty and AMC period. All the costs incurred for the up keeping of the system during the contract period like repair, replacement, labour, materials, transportation, lodging, freight, taxes etc. should be borne by the contractor. Any parts/components that may be found defective by the Purchaser due to manufacturing defects, faulty parts components and workmanship, within the warranty/AMC period, should be replaced or repaired immediately in good working condition, free of cost, by the Supplier. All the cost incurred during the warranty/AMC periods like labour, material, transportation, loading, unloading, freight, taxes, including	We would request to suggest following modification in this clause: "A suitable penalty as per the tender conditions will be charged for noncompliance with the SLA. This is applicable for all 365 days in the year. If the fault could not be rectified by the stipulated time period, necessary standby arrangement should be provided by the supplier. This is applicable for both warranty and AMC period. All the costs incurred for the up keeping of the system during the contract period like repair, replacement, labour, materials, transportation, lodging, freight, taxes etc. should be borne by the contractor. Any parts/components that may be found defective by the Purchaser due to manufacturing defects, faulty parts components and workmanship, within the warranty/AMC period, should be replaced or repaired in good working condition, free of cost, by the Supplier. "	
194		Pre-Bid Meeting		Requesting to add an online pre-bid meeting and share the link with us. The pre-bid meeting is necessary to understand the project and discuss open-ended T&C and assumptions, etc.	As Per Tender

Tender for SITC of CCTV Surveillance System at CIAL (Tender Reference Number CIAL/COMMN/CCTV/24)					
Sl No.	Page No.	Section Name	Tender Conditions	Query	Reply to Query
195	6	Drawings	Copies of other drawings and documents pertaining to the Works signed for the purpose of identification by the Accepting Officer or his accredited representative will be open for inspection by tenderers at the office of CIAL during working hours between 11/03/2024 to 13/03/2024. Interested firms may visit the site for detailed study during the above said dates.	Request to share the same with our representative during the site visit	
196	6	Site Survey	Tenderers are advised to inspect and examine the site during working hours between 11/03/2024 to 13/03/2024 and satisfy themselves before submitting their tenders as to the nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or effect their tender. A tenderer shall be deemed to have full knowledge of the site, whether he inspects it or not and no extra charges consequent on <u>any misunderstanding or otherwise shall be allowed</u>	Request to share the information with our representative during the site visit to understand the nature of the site , the means of access to the site and the accommodation required and the understand the risks , contingencies and site conditions.	
197	11	Site Survey	Bidders shall conduct a site survey at CIAL before the submission of the bids. Based on this, a detailed design customized for CIAL has to be submitted along with tender document. This should address all the specification and requirements mentioned in this document.	Please confirm the site Survey date for our representative at CIAL and the process for the same accordingly we will put a request for the same.	
198	34	Inspection of Site	Inspection of Site: 6.0.The Contractor shall inspect and examine the site and its surrounding and shall satisfy himself before submitting his tender as to the nature of the ground and subsoil	Kindly allow us for the Site survey before the bidding as per mentioned clause	
199	27	Schedule E - Gen: 3 (i)	Market rate percentage addition to cover overheads and profit. 10	We are not clear on this point. Request the significance of this in more detail.	This clause is applicable for any altered, additional or substituted item of Work. Pls refer tender conditions.
200	28	Schedule E - Gen: 12(c)	Percentage payable to cover Contractor's indirect expenses for suspension exceeding 3 months : N.A.	Given that any delay in project handover results in significant indirect expenses for the contractor, we kindly request consideration of this clause regarding delays in project implementation that are not attributable to the Contractor.	As Per Tender
201	29	Schedule E - Gen: 16.1	Distribution return of number and description by trades of workmen employed on works to be submitted to Engineer-in-charge: 15	We are not clear on this point. Request the significance of this in more detail.	Pls refer Clause 16.1 in General Conditions of Contract (page 42)
202	29	Schedule E - Gen: 53	Predetermined components of materials labour and POL:- Material - 75% Labour - 20% POL - 5%	We are not clear on this point. Request the significance of this in more detail. What is the full form of POL?	POL means fuel and lubricants.
			<p>The Bidder should have a minimum annual turnover of Rs.120 Crores in any of the last five financial years.</p> <p>The Bidder should have a minimum annual turnover of Rs.120 Crores in any of the last five financial years.</p> <p>The bidder should have executed CCTV Surveillance System in airports or reputed organizations in the last 7 years.</p> <p>The bidder should have executed CCTV Surveillance System in airports or reputed organizations in the last 7 years.</p> <p>(i) One similar work in single contract valuing more than Rs 30 Crores. (ii) Two similar works, each in a single contract valuing more than Rs 22 Crores. (iii) Three similar works, each in a single contract valued at more than Rs 18 Crores.</p> <p>Documents to be submitted: Satisfactory work completion certificate from the client in terms of type of work, quality, order value, period of execution and service support. Client contact details are to be provided. The value of the work <u>considered will be the SITC part excluding AMC</u></p> <p>The bidder should have executed CCTV Surveillance System in airports or reputed organizations in the last 7 years.</p> <p>(i) One similar work in single contract valuing more than Rs 30 Crores. (ii) Two similar works, each in a single contract valuing more than Rs 22 Crores. (iii) Three similar works, each in a single contract valued at more than Rs 18Crores</p> <p>Documents to be submitted: The bidder should have executed CCTVSurveillance System in airports or reputed organizations in the last 7 years.</p>	<p>The Bidder should have a minimum annual turnover of Rs.60 Crores in any of the last five financial years.</p> <p>It is very critical for the organization and requires good exposure on technology and SITC experience of considerable size of the organizations. Hence, Request CIAL to increase the bidder minimum annual turnover of Rs.250 Crores in any of the last three financial years.</p> <p>CCTV Surveillance System implementation at airport or any reputed organization have used cases & implications, CIAL being in airport environment requires expertise in implementing CCTV solution at airport. Request CIAL to keep the experience mandatory from airport only instead of giving option of any reputed organization.</p> <p>We request to add Quantity Criteria as well. b) The bidder should have executed CCTV Surveillance System in airports or reputed organizations in the last 7 years. Value Criteria: (i) One similar work in single contract valuing more than Rs 30 Crores. (ii) Two similar works, each in a single contract valuing more than Rs 22 Crores. (iii) Three similar works, each in a single contract valued at more than Rs 18 Crores. or Quantity Criteria: (i) One similar work in single contract of Quantity of more than 1000 Cameras. (ii) Two similar works, each in a single contract of Quantity of morethan 700 Cameras. (iii) Three similar works, each in a single contract of Quantity of morethan 500 Cameras.</p> <p>We request to add Quantity Criteria as well. b) The bidder should have executed CCTV Surveillance System in airports or reputed organizations in the last 7 years. Value Criteria: (i) One similar work in single contract valuing more than Rs 30 Crores. (ii) Two similar works, each in a single contract valuing more than Rs 22 Crores. (iii) Three similar works, each in a single contract valued at more than Rs 18 Crores or bidders should have completed 3 IT works of minimum Rs 17 cr each or Quantity Criteria: (i) One similar work in single contract of Quantity of morethan 1000 Cameras. (ii) Two similar works, each in a single contract of Quantity of morethan 700 Cameras. (iii) Three similar works, each in a single contract of Quantity of morethan 500 Cameras..</p>	As Per Tender

Tender for SITC of CCTV Surveillance System at CIAL (Tender Reference Number CIAL/COMMN/CCTV/24)					
Sl No.	Page No.	Section Name	Tender Conditions	Query	Reply to Query
203	4-5	Eligibility Criteria	<p>The bidder should have executed CCTV Surveillance System in airports or reputed organizations in the last 7 years.</p> <p>(i) One similar work in single contract valuing more than Rs 30 Crores.</p> <p>(ii) Two similar works, each in a single contract valuing more than Rs 22 Crores.</p> <p>(iii) Three similar works, each in a single contract valued at more than Rs 18 Crores.</p> <p>Documents to be submitted: Satisfactory work completion certificate from the client in terms of type of work, quality, order value, period of execution and service support. <i>Client contact details are to be provided. The value of the work.</i></p>	<p>We request you to modify the clause as follows for fair competition.</p> <p>b) The bidder should have executed ICT Projects including CCTV Surveillance System in airports or reputed organizations in the last 7 years.</p> <p>(i) One similar work in single contract valuing more than Rs 30 Crores.</p> <p>(ii) Two similar works, each in a single contract valuing more than Rs 22 Crores.</p> <p>(iii) Three similar works, each in a single contract valued at more than Rs 18 Crores.</p> <p>Documents to be submitted: Satisfactory work completion certificate from the client in terms of type of work, quality, order value, period of execution and service support. Client contact details are to be provided. The value of the work considered will be the SITC part excluding AMC.</p>	
			<p>The bidder should have executed CCTV Surveillance System in airports or reputed organizations in the last 7 years.</p>	<p>Kindly request you to modify the clause as mentioned below:</p> <p>b) The bidder should have executed CCTV Surveillance System in airports or any Central / State Govt. Organization/PSU in the last 7 years</p>	
			<p>The bidder should have executed CCTV Surveillance System in airports or reputed organizations in the last 7 years.</p> <p>(i) One similar work in single contract valuing more than Rs 30 Crores.</p> <p>(ii) Two similar works, each in a single contract valuing more than Rs 22 Crores.</p> <p>(iii) Three similar works, each in a single contract valued at more than Rs 18 Crores</p>	<p>Request to change this as</p> <p>The bidder should have executed CCTV Surveillance System in airports or reputed organizations in the last 7 years.</p> <p>(i) One similar work in single contract valuing more than Rs 95 Lakhs</p> <p>(ii) Two similar works, each in a single contract valuing more than Rs 40 Lakhs.</p> <p>(iii) Three similar works, each in a single contract valued at more than Rs 15 Lakhs</p>	
			<p>The bidder should have executed CCTV Surveillance System in airports or reputed organizations in the last 7 years.</p> <p>(i) One similar work in single contract valuing more than Rs 30 Crores.</p> <p>(ii) Two similar works, each in a single contract valuing more than Rs 22 Crores.</p> <p>(iii) Three similar works, each in a single contract valued at more than Rs 18 Crores.</p>	<p>The bidder should have executed CCTV Surveillance System in airports or reputed organizations in the last 7 years.</p> <p>(i) One similar work in single contract valuing more than Rs 21 Crores.</p> <p>(ii) Two similar works, each in a single contract valuing more than Rs 15 Crores.</p> <p>(iii) Three similar works, each in a single contract valued at more than Rs 10 Crores.</p>	
			<p>d)The Bidder should comply with the Government of India Order No. 6/18/2019- PPD dated 23rd July 2020 issued by the Public Procurement Division, Department of Expenditure, Ministry of Finance.</p> <p>Documents to be submitted: Bidder shall submit an undertaking with respect to compliance to the Government of India Order No. 6/18/2019-PPD dated 23rd July 2020 at the time of submission of bid. In case above mentioned order is applicable to the bidder, valid registration certificate shall be submitted along with the Technical Bid.</p>	<p>Request CIAL to explain in detail about the requirement</p>	
			<p>d)The Bidder should comply with the Government of India Order No. 6/18/2019- PPD dated 23rd July 2020 issued by the Public Procurement Division, Department of Expenditure, Ministry of Finance.</p> <p>Documents to be submitted: Bidder shall submit an undertaking with respect to compliance to the Government of India Order No. 6/18/2019-PPD dated 23rd July 2020 at the time of submission of bid. In case above mentioned order is applicable to the bidder, valid registration certificate shall be submitted along with the Technical Bid.</p>	<p>Self Declaration Format: Requesting CIAL to provide the format of undertaking, if any or to submit the same in bidder standard format.</p>	
			<p>The Bidder should comply with the Government of India Order No. 6/18/2019-PPD dated 23rd July 2020 issued by the Public Procurement Division, Department of Expenditure, Ministry of Finance.</p>	<p>Request CIAL to explain in detail about the requirement</p>	
			<p>The bidder should not have been blacklisted by any of the reputed organizations.</p> <p>Documents to be submitted: Self declaration by the bidder. If the bidder has already supplied any equipment to CIAL, certificate from the competent authority of CIAL regarding satisfactory service support of the bidder should be submitted.</p>	<p>Self Declaration Format: Requesting CIAL to provide the format of undertaking, if any or to submit the same in bidder standard format</p>	
204	2	Earnest Money Deposit	EMD Rs 10 Lakhs (Online payment only)	<p>We understand that smart city/safe city/Citysurveillance/Defence/Govt/PSU projects are qualified under this clause. Kindly confirm if our understanding is correct.</p>	
				<p>Requesting to consider EMD in bank guarantee (BG) format also along with Online. EMD Rs 10 Lakhs (in Online payment /Bank Guarantee /DD form)</p>	
				<p>Kindly allow bidder to submit Bank Gurantee as mode of EMD submission .</p>	
205	27	PBG	PBG is 5% of the gross value of the contract price	<p>Please allow bidders to submit the EMD in the form of BG/DD as well and hard copy of the same to be submitted within 5 working days from bid submission date. Also please share the BG format for the same.</p>	
				<p>Requesting to allow PBG 3% of the gross value of the contract price</p>	

Tender for SITC of CCTV Surveillance System at CIAL (Tender Reference Number CIAL/COMMN/CCTV/24)

Sl No.	Page No.	Section Name	Tender Conditions	Query	Reply to Query
206	35	Security Deposits	10% of the gross amount of bill unless he has already deposited the amount of the security as Cash or Bank guarantees furnished by any of the Nationalised Banks, under the Revised Bank guarantee scheme of Reserve Bank of India and certified by the Reserve Bank of India that the Bank guarantee may be accepted.	Please amend this as: 3% of the gross amount of bill unless he has already deposited the amount of the security as Cash or Bank guarantees furnished by any of the Nationalised Banks, under the Revised Bank guarantee scheme of Reserve Bank of India and certified by the Reserve Bank of India that the Bank guarantee may be accepted.	As per Tender
207	120	Payment terms	<p>The terms of payment for the price of equipment as stated herein shall be made as follows: -</p> <p>75% on delivery and testing of equipment at site, along with detailed break up schedule and bills. 15% after its successful installation and testing. 10% after commissioning and handing over the equipment to the purchaser.</p> <p>This includes submission of detailed manuals & documentation, as-built drawings, maintenance procedures, copy of application software, operating system and licenses etc as mentioned in the tender document.</p>	Add advance milestone .requesting to add 10% advance on kick-off meeting and project plan submission.	
				Requesting to make two separate milestones against delivery and testing of equipment.65% against delivery10% against testing .	
				Requesting CIAL to amend the payment clause as follows: 85% on delivery and testing of equipment at site, along with detailed break up schedule and bills. • 10% after its successful installation and testing. • 5% after commissioning and handing over the equipment to the purchaser. This includes submission of detailed manuals & documentation, as-built drawings, maintenance procedures, copy of application software, operating system and licenses etc as mentioned in the tender document.	
				Please Confirm if the payment terms are for the complete project including line items 185 to 199 of the BOQ. As per our understanding for the BoQ items 1- 182 the Payment terms will be 75%, 15% & 10% Minus items 184 Buy Back. For Line Items 185 to 199 the yearly cost will be divided into 12 Months and paid after each month on submission on Invoices and related documents	185 to 199 are line items for comprehensive AMC for which payments terms are mentioned in the tender under Clause 8 in the Particular Conditions of Contract. For line items from 1 to 182, payment terms will be as per Clause 10 in the Particular Conditions of Contract. Buy back amount will be deducted after the old cameras, server & storage (after formatting) is replaced with new cameras, server & storage.
				<p>Request you to please modify the clause as below:</p> <ul style="list-style-type: none">• 10% as Mobilization Advance of the PO value.• 65% on delivery and testing of equipment at site, along with detailed break up schedule and bills.• 15% after its successful installation and testing.• 10% after commissioning and handing over the equipment to the purchaser. <p>This includes submission of detailed manuals & documentation, as-built drawings,maintenance procedures, copy of application software, operating system and licenses etc as mentioned in the tender document.</p>	As per Tender
				As per our understanding, the term " testing" here represents the "inspection" of supplied materials, as functional testing of materials at this point is not phsyble. Please confirm.	Testing involves inspection as well as functional checking of materials
				Kindly clarify the credit period	As per tender
Kindly clarify the AMC/Operations contract payment terms and credit period	Payment will be released as per the tender clause No 8 in Particular Coditions of Contract (Page 117)				
				Kindly limit the maximum amount to 5% of the security deposit value and 5% of the yearly AMC amount	As per tender
208	93	No payment/compensation	No payment/compensation will be made to the Contractor for damage caused by rains, floods, cyclones, earthquakes, subversion, riots or other natural calamitiesduring the execution of the Works. The damage caused to work shall be made good by the Contractor at his own cost and no claim on this account shall be entertained	events like rains, floods, cyclones, earthquakes, subversion, riots or other natural calamities during the execution of the Work to be considered as force majeure and the contractor should be compensated for restoration of such damages.	As per Tender
209	8, 14	Fixed Price	Prices quoted by the Bidder shall be fixed during the bidder's performance of the contract and not subject to variation on any account.	The contract performance period represents the duration of the project execution up to the point of site handover. Please confirm if our understanding is correct.	Contract period includes warranty and AMC period after commissioning.
210	47	Compensation for delay	Completion period (as originally stipulated) not exceeding 6 months. @ 1 per cent per week.Completion period (as originally stipulated) exceeding 6 months and not exceeding 2 years @ 1/2 per cent per week.	Following the standard RFP format, we kindly request to include a penalty cap of maximum 10% of the project value.	As per tender
211	113	Vehicle	Vehicle: The contractor shall arrange their own vehicle (four-wheeler) for movement of staff and equipment for carrying out the maintenance activities at the airside and city side during the warranty and AMC period. The vehicle shall be a new vehicle for carrying staff and material.	Please allow vehicle with minimum 3 years of service with CIAL will all statutory permissions in place. Please confirm.	
212	29	Defects Liability Period	Defects Liability Period 24 months at page 29 Defects Liability Period 60 months at per BOQ	Please confirm the Defects Liability Period is 24 Months or 60 months	Defect Liability Period shall be 60 months
213	96	GUARANTEE	34.GUARANTEE At the close of work and before issue of final completion certificate by the Engineer-in- charge, the Contractor shall furnish a written guarantee indemnify the CIAL against defective materials and workmanship for a period of one year after completion.	Kindly note that bidder proposes to offer Defect liability period as per the RFQ from date of completion to CIAL against defective materials and workmanship. Kindly need acceptance on the same.	

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214	115 - 116	COMPREHENSIVE ANNUAL MAINTENANCE AND WARRANTY INCLUDING ALL SPARES AND CONSUMABLES:	After the expiry of the 2nd year AMC, CIAL may consider to extend the AMC for a further period with the same party, at a negotiated AMC cost of not more than 5% annual increase over the AMC cost of the previous year. The contractor shall agree to this.	The extension of AMC cost after 2nd year can not be assured with the 5% annual increase, since it is related to the OEM support & market rates fluctuations. Request you to kindly relax this point.	As Per Tender
			After the expiry of the 2nd year AMC, CIAL may consider to extend the AMC for a further period with the same party, at a negotiated AMC cost of not more than 5% annual increase over the AMC cost of the previous year. The contractor shall agree to this.	After the expiry of 2nd year AMC, requesting CIAL to consider to extend the AMC for the further period at the inflation rate as per consumer price index (CPI) over the AMC cost of the previous year.	
			Spares: All spares, accessories and consumables (except batteries) required for the maintenance work shall be supplied by the firm at no extra cost to CIAL during the contract period. This includes periodic cleaning, replacement of faulty components etc required for the proper functioning of the equipment. All necessary spares should be kept in the custody of the contractor at his own responsibility at site for easy availability. The store and spares should be available for checking by CIAL Engineer in Charge.	Kindly need clarity whether the store at site will be provided by CIAL with necessary furniture under a lock and key arrangement.	General Storage and office space will be provided. Contractor shall arage there own lock and key arrangement facility for keeping the spares.
215	105	LONG TERM AVAILABILITY OF SPARES	15.LONG TERM AVAILABILITY OF SPARES: 15.1.The Supplier shall guarantee the availability of spares to the purchaser for a period of 8 years. The Supplier shall guarantee that before going out of production of spare parts of the equipment covered under the contract even after fifteen years, he shall give the purchaser at least 12 months advance notice so that the latter may order his bulk requirement of spares if he so desires. The same provision will also be applicable to sub-Suppliers.	All the approved make Industry leading OEM offers starad 5 years support and for certain cases maximum 7 years hence requesting you to amend the clase as mentioned below. The Supplier shall guarantee the availability of spares to the purchaser for a period of 8 years. The Supplier shall guarantee that before going out of production of spare parts of the equipment covered under the contract even after fifteen Seven years, he shall give the purchaser at least 12 months advance notice so that the latter may order his bulk requirement of spares if he so desires. The same provision will also be applicabeto sub-Suppliers.	The clause is amended as follow: The Supplier shall guarantee the availability of spares to the purchaser for a period of 8 years. The Supplier shall guarantee that before going out of production of spare parts of the equipment covered under the contract even after the contract period , he shall give the purchaser at least 12 months advance notice so that the latter may order his bulk requirement of spares if he so desires. The same provision will also be applicable to sub-Suppliers.
				This is to be kindly noted that bidder can assure the availability of spares for a period of 8 years which is as per the contract. However spare availability for additional 6 or 7 years cannot be confirmed. Kindly requesting acceptance of the same.	
				We would recommend to add clear requirement w.r.t. spares. As per industry standard 5% of supplied products suffice the requirement. Kindly confirm?	
				The longest roadmap of any OEM is roughly 8-10yrs. And that includes EOL/EOS. Availability of spares after 15yrs. is not practical. Request modification.	
216	96	CABLE LAYOUT	Prior to the laying of the cables, the Contractor shall submit to the Engineer-in-Charge detailed layout plan of the cable and get it approved. The layout plan shall contain particulars regarding size and routes of cables, number of pipes carried and the inspection chambers provided, if any, along the routes of these cables.	Request CIAL to share layout of entire airport for the planning of routes of cables, pipes, inspection chambers.	Layout will be shared after award of work
				We understand that ROW (Right of way) demand note to be paid by CIAL, if any raised by local authority with respect to trenching work for HDPE duct laying. Kindly confirm ?	All the work are being carried out in CIAL premises.
217	100	Space and the Warehouse	The Contractor shall stock the material at the site of work strictly as per the instructions of Engineer-in-charge keeping in view of the operational requirements of CIAL.	Please confirm if the space and the warehouse for the same will be provided by CIAL for stocking the material at the Site or not during the complete project duration of 8 years.	CIAL will provided general open space. Contractor shall arrange their own provision for storing the materials during the project execution.
218			If the Contractor fails to maintain the required progress in terms of condition 13 or to complete the work and clear the site on or before the contract or extended date-period of completion, he shall, without prejudice to any other right or remedy of CIAL on account of such breach, pay as agreed compensation amount calculated as stipulated below or such smaller amount as be fixed by the Accepting Authority on the contract value of the work for every week that the progress remains below that specified in condition 13 or that the work remains incomplete.	Please specify the maximum compensation capping in the Delay clause.	Pls refer tender clause no 32 in General Conditions of Contract
219			The Contractor comply with the provision of Indian Contract Labour (Regulation and Abolition) Act of 1970, Indian Contract Labours (Regulation and Abolition) Central Rules 1971 and Minimum wages & Rules thereof and other related labour laws of Central and State Governments. You are also required to observe all statutory and legal requirements of Central and State Governments and other agencies applicable to the work as well as any local regulations applying to the site. Contractor shall submit details of the employees deployed for this work at CIAL. Only after receiving the proof of compliance of PF, ESI & Minimum wage Act, for all the staff posted under this contract CIAL would be processing the payment for the works executed in the corresponding month. CIAL would have the right to share these details with the statutory agents if required	It mentioned that "The Contractor comply with the provision of Indian Contract Labour (Regulation and Abolition) Act of 1970, Indian Contract Labours (Regulation and Abolition) Central Rules 1971 and Minimum wages & Rules thereof and other related labour laws of Central and State Governments." Please confirm whether contractor has to follow Central or State Governments for minimum wages.	Contractor shall follow Central and State Governments Regulations, whichever is applicable.
220	6	Scope and Specifications	Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by CIAL and local conditions and other factors bearing on the execution of the works.	Request to share the information with our representative during the site visit regarding the rates at which stores , tools and plant etc. will be issued to us by CIAL.	
				In case of delay in completion period beyond 8 months due to reasons not attributable to bidder, we request CIAL to release payments for portion of work which is already executed including the full portion of Supply. Also variation order with escalated rates will be applicable for the unexecuted portion of the project based on mutual agreement between CIAL and bidder. Hope the same is acceptable.	As per Tender

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221	96	PHASING OF WORKS	35.PHASING OF WORKS The total period for completion of works under this contract is 08 months. The work has to be carried out in phases as approved by the Engineer-in-charge from time to time so that the total project work can progress smoothly with least obstruction to the operations of the airport and also works of other Contractors/agencies. The detailed phasing provided in the particular specifications of contract.	Several line items, such as the Network Switch, have significant lead times. Considering the phased implementation approach and working imitations inside an operative airport, we kindly request that the total completion period be extended to 12 months. Additionally, we would appreciate receiving the tentative schedule of execution phases for better clarity and planning	Permission as per the regulatory guidelines need to taken by the contractor. Bidder shall submit their execution plan as per Clause 4 in the Particular Conditions of Contract.
				Request to change the total period of completion of works under this contract to 12 months considering the quantity of cameras and the phasing of works under the operational airport premises.	
				As the project site is a brown Field site, Request to provide necessary permission for workers/Materials/ Downtime from CIAL side. We are planning to start in the order as 1. Pole erections/Civil 2. Earthing pits 3. Laying of Conduits, Cables. 4. Deployment of JB's/Racks, UP's 5. Deployment of Servers, Desktop's, Videowall 6. Deployment of Cameras. 7. Testing and commissioning Your inputs or suggestion will be highly appreciated	
				Kindly provide the phase wise project completion schedule, including timelines for completing each phase with BOQ and their quantities.	
222	124	TECHNICAL SPECIFICATIONS	The system shall be compliant with regulations and guidelines of Bureau of Civil Aviation Security.	Request to share the specific guidelines if any for the same.	BCAS approval is a regulatory requirement and hence mandatory.
				We will propose as per the Tender specifications & BOQ. Hope the given specification is in line with BCAS guidelines. Please confirm if anything additional needs to be considered.	
				Could you please confirm whether BCAS approval is a mandatory requirement? Obtaining BCAS approval is known to be a cumbersome process.	
				Are AEP passes required while execution.	Yes
223	119	Penalty for noncompliance with SLA	For equipment failures/complaints/changes that fails to meet the tender terms and conditions during the warranty period, CIAL will be charging suitable penalty @ 0.1% of the Security Deposit per unresolved additional hour of the failure, provided that the total amount of penalty to be paid during the warranty period under this condition shall not exceed the Security Deposit. If the security deposit is in the form of bank guarantee, CIAL reserves the right to encash the bank guarantee and return the balance amount, without any interest amount, after deducting the penalty amount. The unresolved day will be calculated on the basis of calendar date, including holidays, from the time of reporting of complaint rather than 24 hours from the time of reporting	Requesting to remove encashing the security deposit clause, instead please deduct the penalty from the billing amount, so requesting to modify the penalty clause as "For equipment failures/complaints/changes that fail to meet the tender terms and conditions during the warranty period, CIAL will be charging a suitable penalty of INR 500. "	
224	90	HANDING OVER THE SITE	4.HANDING OVER THE SITE The site shall be handed over in phases. Contractor shall plan the work as per the phasing decided by the Accepting Authority and no claim will be entertained for not handing over the entire area in one stretch. In case there are small patches, which could not be handed over due to legal and technical reasons, this will not be considered as obstructions and no claim will be entertained for delays for such reasons.	In case of delay in handing over due to reasons not attributable to bidder, we request CIAL to release payments for portion of work which is already executed including the full portion of Supply.	As Per Tender
225	107	Spares, Accessories and Consumables	All spares, accessories and consumables (except paper consumables, printer cartridges etc) required for maintaining the whole system in good condition shall be supplied by the firm at no extra cost to CIAL. All necessary spares & consumables should be kept in the custody of the Contractor at his own responsibility at CIAL for easy availability. The store and spares should be available for checking by CIAL Engineer-in-Charge. Any spare item used during maintenance works shall be replenished within a maximum period of 1 week.	This is to be kindly noted that bidder cannot provide spares for cables, cable trays and other passive items which are not electrically/electronically active. Kindly requesting acceptance of the same.	
226	114	Training	6.Training The contractor has to prepare a detailed presentation regarding the solution implemented and conduct a training session for the CIAL IT team. The training session shall be conducted in multiple sessions based on availability of the staff on shift duty. The training shall cover the following: • Final layout & architecture of the system, • Features and specifications of each and every equipment. •Configuration of different equipments. •How the system operates. •Troubleshooting methodologies.	This is to be noted that bidder proposes to conduct multiple training sessions within 1st two months of the project handover.	
227	29	Training	The project management team shall train the operational & maintenance team before handing over the system to the maintenance team	Request to please specify the training is to be provided to the O & M team in terms of numbers of batches/sessions and the numbers of persons/ batch and for how many days.	Training shall be provided to the IT technical team and CISF operational team. Batches shall be decided mutually as per the availability of staff.
228	90	TURNOVER TAXES/WORKS CONTRACT TAXES	Deductions will be made from the bills towards Income tax under Income Tax Act 1961, tax on works contract as per the KVAT Act 2003 and other taxes if applicable.	Kindly provide the applicable tax percentage to be factored into our cost calculation. Please confirm if a deduction towards CESS is applicable to this project.	As per tender

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229	121	Agreement with OEMs	The contractor should have back-to-back agreement with each OEMs individually,to ensure that support for implementation, operations, maintenance, spares and upgrades are available to CIAL, from the respective OEM, for a minimum period of 8 years from the date of commissioning of the system. Each of the product OEMs should also certify direct support of its respective product supplied to CIAL for the period specified above under the same terms and conditions of this tender without any additional cost implication to CIAL.	The agreement in this clause is asking for 8 years support whereas the Form -III (CERTIFICATE OF UNDERTAKING FROM ORIGINAL EQUIPMENT MANUFACTURER/S) is mentioning for 7 years support. Please confirm the same.	The contractor should have back-to-back agreement with each OEMs individually,to ensure that support for implementation, operations, maintenance, spares and upgrades are available to CIAL, from the respective OEM, for a minimum period of 7 years from the date of commissioning of the system. Each of the product OEMs should also certify direct support of its respective product supplied to CIAL for the period specified above under the same terms and conditions of this tender without any additional cost implication to CIAL.
231	96	SPECIAL CONDITIONS OF CONTRACT (SCC) WORKS TO BE DONE BY THE CONTRACTOR	1. Suspenders and brackets for suspending/supporting cables, as required. 2. Suspenders for cable trays for laying the cables where required	Please Specify the quantity if any for the following 1. Suspenders and brackets for suspending/supporting cables, as required. 2. Suspenders for cable trays for laying the cables where required.	Bidder shall quote for MS items in the miscellaneous items for a quantity of 1000 KG (supply + fabrication and installation including painting)
Buyback List					
SL	Item	Count	Make	Model	Year Of Purchase
1	Camera	1050	Samsung	SND-6083P-Indoor Dome	10-Jan-16
2		550		SNV-6084P -Outdoor Dome	10-Jan-16
3		1060		SNO-6084RP -Bullet camera	10-Jan-16
4		215		SNP 6230H -Indoor PTZ	10-Jan-16
5		210		SNP 6370 h Outdoor PTZ	10-Jan-16
6		130	Hanwa	QNO-7080 RP -Bullet	20-Feb-19
7	Server	25		QNV-7080 RP- O/D	20-Feb-19
8		25		QND-7080 RP I/D	20-Feb-19
9		45		QNP-6230H Indoor PTZ	20-Feb-19
10		2		XNP-6370 OutDoor PTZ	22-Feb-19
11		6	Dell	Chassis Power edge M1000	25-Feb-16
12	Storage	64	Dell	Power edge M630/640	25-Feb-16
13		4	Dell	Power edge R720	25-Feb-16
14		2	Dell	Power Edge R320	25-Feb-16
15		9	Dell	Power Edge R430	25-Feb-16
16		3	Dell EMC Controller (6.5 PB Storage)	VNX 7600 Block	30-Feb-2016

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POWER OF ATTORNEY					
		POWER OF ATTORNEY		<p>POWER OF ATTORNEY</p> <p>BY THIS POWER OF ATTORNEY executed on.....,we....., a Company incorporated under the provisions of Companies Act, 1956 having its Registered Office at (hereinafter referred to as the 'Company') do hereby appoint, constitute and nominate Mr....., Official of the Company, (hereinafter referred to as the 'Attorney') to sign and execute the agreements and documents with "Cochin International Airport Limited, Kochi Airport, Cochin 683111" vide tender no. at Cochin International Airport, Nedumbassery and to do all other acts, deeds and things the said Attorney may consider expedient to enforce and secure fulfilment of any such agreements in the name and on behalf of the Company.</p> <p>AND THE COMPANY hereby agrees to ratify and confirm all acts, deeds and things the said Attorney shall lawfully do by virtue of these authorities hereby conferred.</p> <p>IN WITNESS WHEREOF, this deed has been signed and delivered on the day, month and year first above written by Mr. authorised signatory of the Company, duly authorized by the Board of Directors of the Company vide it's resolution passed in this regard and delegation on him.</p> <p>Witness: 1..... 2.....</p> <p>Signature of: Mr. By order of the Board For.....</p> <p>Authorised Signatory (Attested)</p> <p>Authorised Signatory</p>	