

Prebid Queries and Responses
CMRL/PHASE-II/SYS/ C3&5 ASA08/2023
03-07-2023

S. No.	Part	Section	Clause	Original Bid Condition	Bidder's Query	Response
1	Part-1	Section -I	ITB 4.1	A Bidder may be a firm that is a single entity or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent.	We kindly request you to clarify the total no of entities allowed for forming JV / Consortium for this bid	EQC 1.5 is self-explanatory. Tender Condition Prevails.
2	Part-1	Section -II	ITB 11.2 Add the following Sub-Clause to the end of Sub-Clause 11.2:	Copy of Power of Attorney (POA) of the bidder in case of 'Single Firm' or the 'Lead Member' in case of the Joint venture.	We understand that bidder can use their own format of Power of Attorney. Kindly confirm.	Bidder can use their own format for Power of Attorney. However, it shall legally bind the authorised signatory to commit the Bid on behalf of the Bidder.
3	Part-1	Section -II	ITB 22.1	The Bid submission is through E-tender portal of CPP only. In addition to the original of the Bid, the number of copies to be submitted is: None.	We understand the Original Bid submission in only through E-Tender Portal of CPP. No hardcopy of the Original Bid is required to be submitted. Kindly confirm.	ITB 11.2, BDS 22.1 and BDS 25.1 are self-explanatory. Bidders shall submit their bid in CPP e-procurement portal only. Any other means of Bid submission other than CPP portal (including hardcopy submission) will not be accepted by CMRL.
4	Part-1	Section -II	ITB 4.5	This bid is not subject to prequalification	We understand there is a typo error. Kindly request you to amend the clause as follows "This bid is not subject to prequalification "	Subject tender being the Single Stage Two Envelope Bidding System, Prequalification is not applicable. Tender Condition prevails.
5	Part-1	Section-III	EQC 1.1.1	The Bidder shall provide details of the proposed personnel and their experience records in Forms PER-1 and PER-2 in Section IV, Bidding Forms.	We understand, all the key personnel whose CV's will be evaluated shall be full-time employees / Contractual employee / OEM employee wherever required of the sole bidder or any member in case of a Consortium. Kindly Confirm	Tender condition prevails.
6	Part-1	Section-IV	4.2 Pricing Summary	Bidders shall quote for the above Price Centres including all taxes and duties including GST, Customs Duty, levies and fees. A self-declaration from the Contractor based on Clause 171 of GST (Anti-profiteering rule) shall be attached by the Contractor along with their invoices.	Bidder shall quote for the above Price Centres including all taxes and duties excluding GST, Customs Duty. A self-declaration from the Contractor based on Clause 171 of GST (Antiprotection rule) shall be attached by the Contractor along with their invoices. GST and Custom Duty will be reimbursed.	Note No. 06 provided under Table 4.3.1 are self-explanatory. Tender Condition Prevails.
7	Part-1	Section-IV	8.2 Schedule of Adjustment Data:	Reference index for Steel - CRUspi Asia	Request you to replace CRUspi -Asia with Platts as Platts is the commonly used index to refer the prices of steel across the industry.	Tender Condition Prevails.
8	Part-1	Section-IV	9. Form of Bid Security	Bank Guarantee Format	We request you to kindly include the below clause in the end of Bid Security format as all the bank will issue the bid security only after inclusion of this clause. NOTWITHSTANDING ANYTHING CONTAINED HEREIN: I. Our liability under this BID GUARANTEE shall not exceed insert amount in figures] ([insert amount in words]) II. This Bid Guarantee shall be valid up to DD/MM/YYYY. III. It is a condition of our liability for payment of the guaranteed amount or any part thereof arising under this Bid Guarantee that we receive a valid written claim or demand for payment under this Bid Guarantee on or before _____ (DD/MM/YYYY). failing which our liability under the guarantee will automatically cease.	Tender Condition Prevails.
9	Part-1	Section-IV	Bidding Forms	GST & Custom duty shall be reimbursed upon production of documentary evidence towards discharging of Contractor's liability upto the ceiling limit indicated in Table 4.3.1 below and as per associated terms & conditions therein.	We understand that Variation of GST & Customer Duties claimable as per clause 13.7, over and above the ceiling limit mentioned in Table 4.3.1	Note No. 06 provided under Table 4.3.1 are self-explanatory. Tender Condition Prevails.

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10	Part-1	Section-IV	Bidding Forms (BF) EXP - 2(b)	EXP - 2(b): Experience in Key Activities	We understand that as 2.4.2 (b) Specific Experience is not used under Eligibility and Qualification Criteria, hence this form is not applicable for bidder. Kindly clarify.	Form EXP-2(b) is not used in subject tender as per existing tender conditions. Tender Condition Prevails.
11	Part-2	Section-VIB		General	Kindly provide the number of Parking at each station.	Please refer Annexure-B, Addendum-1. There is no parking in C3-EV-01.
12	Part-2	Section-VIB		General	Kindly provide the total number of RSS and its location.	Following RSS /TSS are planned in this section. 1.Villivakkam MTH Road (Nadhamuni) 2.Thiruvanmiyur 3.Madhavaram Depot
13	Part-2	Section-VIB	1.9 Video Wall Application	x. In addition, when an emergency call is made by a radio hand portable device an alarm must be sent to the NMS/ OCC & BCC with the location information of the hand portable device.	Request to include this requirement under TETRA NMS handled by other designated contractor, as this feature is unrelated to video wall.	Clause 1.9 Video Wall Application is in the scope of ASA06 package. The functionalities are explained here for the information of ASA-08 bidder for suitable equipments (Camera, video analytics etc) as applicable.
14	Part-2	Section-VIB	10.7.3 Separation of duties	d. Centralized management for servers and network devices shall be implemented separately in each of the autonomous networks, based on industry recognized NMS (e.g., HP Open View, Cisco Works) and centralized monitoring system that will collect the alerts from the entire NMS system through a diode, to build integrated visibility.	Requesting to remove references to HP Open View and Cisco Works, as these are third party NMS solutions, kindly confirm that requirement is for implementing common sub-system level NMS by ASA 06 Contractor for covering the respective sub-system equipment in C-3,4,5.	NMS requirements for telecom systems are covered under Part-2 Technical specifications. Please refer scope of allocation matrix and Interface matrix 13.21.
15	Part-2	Section-VIB	2. Scope and General Provisions	2.1 The Systems and Information Technologies (IT) of the Chennai Metro Project collects and processes a variety of digital information, including safety-critical and sensitive information. throughout the Chennai Metro Project, the Bidder shall implement measures to protect information and the supporting systems from unauthorized access, modification, destruction, whether accidental or intentional, and to ensure authenticity, integrity, and availability of the information systems.	As per the RFP, The Information security systems of ASA06 cyber security scope will cover the entire Telecom infrastructure supplied under ASA-05, ASA-06, ASA-08 packages at OCC/BCC /Depot and stations. And there is no new cyber scope in ASA 08. Please confirm.	ASA-06 will supply the entire Cyber Security solution. Please refer scope of allocation matrix for more details.
16	Part-2	Section-VIB	2.1.12	This is Telecom Contractor's responsibility to interface with OCC/BCC Contractor with required APIs to realize integrated PAS / PIDS information for scenario based train movement e.g. bunching of Trains, Bi-directional Train Movement, short loop train movement, Non Stopping Trains, intermediate station as terminal station etc. Contractor shall finalize interface requirements during the design.	As per TS clause 2.1.6 and 2.1.7, if the Central and Station management software is in other contractor scope then the interface with the S&TC contractor shall also be scope of other contractor. Please confirm.	PAS/PIDS integrated software and respective S& TC interface shall not be under scope of ASA 08 tender and shall be provided by ASA-06 Contractor . This clause is included to provide overall PAS/PIDS functional overview. Please refer 13.21.1.2 Scope of allocation matrix

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17	Part-2	Section-VIB	2.1.5	The PAS and Passenger Information Display System (PIDS) shall be an integrated system and coordinated automatically to provide real time passenger audio broadcast and visual information at each station. The Integrated PAS and PIDS systems shall respond to special train running interrupt messages from the Train Control and Signaling System and also enable any PAS operator to send special announcement or emergency messages for passengers and staff. Also, it shall be the responsibility of Telecom Contractor to provide automatic announcement of exact arrival information of trains at stations platforms based on S&TC inputs.	From clause no 2.1.6 & 2.17, it is understood by bidder that PAS & PIDS integrated software is not part of this RFP scope. So S&TC interface with PIDS/PAS system should be the responsibility of the Central PIDS/PAS software provider. Kindly clarify.	PAS/PIDS integrated software and respective S& TC interface shall not be under scope of ASA 08 tender and shall be provided by ASA-06 Contractor. This clause is included to provide overall PAS/PIDS functional overview. Please refer 13.21.1.2 Scope of allocation matrix
18	Part-2	Section-VIB	2.2.1	Corridor Server is envisaged to manage the station PAS/PIDS during the failure of PAS/PIDS workstation. During the failure of PAS/PIDS workstation, Corridor servers shall handle the PAS interface and ensure broadcast of system triggered and operator (OCC/BCC) initiated announcements and messages in PAS and PIDS. Corridor server shall be capable to handle three concurrent failures of PAS/PIDS workstation. The PAS system and Corridor server hardware supplied under ASA-08 shall support implementation of this functionality. Any alternate solution, which can handle the single point failure of station PA/PIDS hardware without affecting the broadcast of system triggered and operator (OCC/BCC) initiated announcements and messages in PAS and PIDS interface is acceptable.	In general, corridor server is a second level interface point for stations (first level interface is OCC/BCC). So in case of failure of OCC/BCC servers, still it is possible to make a centralized announcement to all stations of the corridor using the corridor server but in case of station HMI failure, station operator can not make software level announcement as the HMI which operator using is in Fail condition at station. So a corridor server can not be a redundancy point for station HMI but it can be a redundancy point to make a central level announcement to all stations in case OCC/BCC servers not available. So it is requested to kindly modify the clause as "2.2.1 Corridor Server shall be capable to make broadcast at all stations in the corridor in case of OCC/BCC server fails. Corridor server and its associated HMI shall be installed at the first station of corridor." As Central servers are not included in this RFP but the corridor servers are included. It is requested to please confirm if there is any Local ATS (LATS) shall be available as part of S&TC contract to interface with the corridor servers ? or ATS shall be available to interface at OCC/BCC central level only.	Tender condition prevails. ATS interface will be at OCC/BCC only.
19	Part-2	Section-VIB	2.2.2	PAS/PIDS central server shall be interfaced to the S&TC system as the source of train timetable data.	As per TS clause 2.1.6 and 2.1.7, if the Central and Station management software in other contractor scope then the interface with the S&TC contractor shall also be scope of other contractor. Please confirm	PAS/PIDS integrated software and respective S& TC interface shall not be under scope of ASA 08 tender and shall be provided by ASA-06 Contractor. This clause is included to provide overall PAS/PIDS functional overview. Please refer 13.21.1.2 Scope of allocation matrix
20	Part-2	Section-VIB	2.3.1.1 Stations	Platforms, Concourses (both Paid & Unpaid), Commercial Areas, Ticket Gates, Gate Lines, Elevators, Escalator Landings, Staircases, Entrances, Exits, Sky walks (wherever applicable), Security Checking Machines, Cash Transfer Routes, Evacuation Routes, Parking areas, Front of the house areas, Back of House Rooms, washrooms, Equipment, Operational & Administrative rooms, Station Control Room, Station boundaries, Entry to viaduct and viaduct, vicinity of station area (entry / exit	As per the RFP, PAS system is not required in RSS. Kindly confirm.	PAS System to be deployed in RSS. Please refer 2.7.2.12.5 Following RSS /TSS are planned in this section. 1.Villivakkam MTH Road (Nadhamuni) 2.Thiruvanmiyur 3.Madhavaram Depot

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				structures, road side, nearby areas etc.) Technical Rooms, SCR, Security Room, ASS, Walk Ways, Station Manager Room, TOM etc.		
21	Part-2	Section-VIB	2.4.2.3	(b) One hard wired PA Control panel, complete with microphone and zone selections shall be provided in OCC, BCC SCR (Station Control Room) and SSR (Security Control Room) of each station for announcement in the station area so that, in case of emergency, announcement can be done in each zone / all zones. One PSB shall be provided at nominated location of each platform location. The PAS System shall provide uniform broadcast coverage throughout all areas of each site within which staff or members of the public may gain access to. The design shall be such that the speakers are so located as to ensure that there are no dead zones between adjacent speakers due to interference or any other reason.	Please confirm whether the PAS system needs to be accessed from SSR (Station Security Room).	Clause is self-explanatory.
22	Part-2	Section-VIB	2.5.7.4	The PAS shall have minimum two audio matrix switches/controller configured in redundant manner with active controller controlling PAS circuits A&B. The switch over between controllers shall not exceed 5sec. for all required functionalities.	The proposed PA controller's are configured in redundant manner and connected to network. Requesting to revise the clause as, "The PAS shall have minimum two audio matrix switches/controller configured in redundant manner with active controller controlling PAS circuits A&B. The switchover between controllers shall be dynamic and without any manual intervention for all required functionalities.	Tender condition prevails.
23	Part-2	Section-VIB	2.6.12.16.1	The PAS facilities within the depot shall be controlled from DCC and PPIO in the depot. A hard-wired control panel (PAS Console), complete with microphone and zone selections, shall be provided at each location.	As per the RFP, only hardwired PAS control panel needs to be provided at DCC, but the "PAS Workstation" to be considered for DCC, kindly clarify the requirement.	Please refer 2.6.14.1.1 clause for details.
24	Part-2	Section-VIB	2.6.14	Fault and Alarm Management	As we understood fault management system to be provided at OCC /BCC for PIDS/PAS system and this is not the part of this RFP requirement. PAS vendor to provide API / alarm detail for integration. Kindly clarify.	Please refer Scope of Allocation matrix S.NO(6) for details.
25	Part-2	Section-VIB	2.6.14.1.1	The PAS / PIDS NMS shall monitor system alarm status on real time basis; alarm data shall also be stored for future inquiries. It is envisaged that one NMS and a corresponding workstation shall be provided. <u>The NMS at OCC / BCC shall have jurisdiction over all corridors and shall extend a workstation to OCC/BCC.</u> The NMS should not be available for access in other than CSS / CER. The PAS and PIDS NMS shall be on the same server / workstation. However, monitoring or control of depot PAS system shall be done from MMI / Client terminal installed in Depot Control Center at respective Depot.	System NMS is a part of central OCC/BCC level requirement and can monitor the system alarms of there designated corridor only. A common NMS can not monitor all corridor system, where there is a possibility that different contractor may be awarded with different contractors. It is requested to please modify the clause as " <u>The NMS at OCC / BCC shall have jurisdiction over the corridor and shall extend a workstation to OCC/BCC.</u> "	Please refer 13.21.1.2 Interfaces between ASA 08 Communication (Telecom) – ASA 06 Telecom Contractor and Scope of Allocation matrix S.no (6) for details.
26	Part-2	Section-VIB	2.6.4.4	The Contractor shall note that, all stations will have minimum two platforms each. Additional PAS zones shall have to be	Please update for no. Of stations with more than 02 no. of platforms.	Please refer drawings.

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				planned and provided at such stations where number of platform are more than 2.		
27	Part-2	Section-VIB	2.6.6.1.4	Each Platform shall be provided with one Platform Announcement Device and a microphone. The PAS control panel shall have the facilities to make live broadcast to Pre-Defined Platform Zone.	Please clarify, Do we need to consider only Microphone at platform announcement device with pre-defined zone selection. Any zone selection keypad is not needed.	Please refer Addendum 1.
28	Part-2	Section-VIB	2.6.6.5.1	The Depot Control Centre (DCC) operator shall be provided with a hard wired PAS control panel and microphone to make live broadcast to any zone or group of zones or all zones selected within the depot.	As per the RFP, only hardwired PAS control panel needs to be provided at DCC, but the "PAS Workstation" to be considered for DCC, kindly clarify the requirement.	Please refer 2.6.14.1.1 clause for details.
29	Part-2	Section-VIB	2.7 Design Engineering Requirements (PAS)	The mass storage device shall be provided with a storage capacity for at least 4 weeks of alarm data, system configuration data, alarm history, event logging data. It shall be possible to copy and store such data and the live announcements on media like CDs for future retrieval.	Request to share the minimum technical specifications of mass storage device, type of storage - SAN/NAS/Unified, capacity required	Please refer scope of allocation matrix S.NO 6. ASA-08 Contractor shall consider required hardware for any other specific requirement other than the above.
30	Part-2	Section-VIB	2.7.2.12.5	For outdoor installation in Depot, stations, RSS and other locations Horn loudspeakers may be provided. Contractor shall provide acoustic study for approval of type and number of speakers to be installed.	Please update for no. of RSS locations to be considered.	Following RSS /TSS are planned in this section. 1.Villivakkam MTH Road (Nadhamuni) 2.Thiruvanmiyur 3.Madhavaram Depot
31	Part-2	Section-VIB	3. PIDS	In case ASA-05/ASA08 architecture supports seamless NMS integration, ASA-06 shall permit the integration. ASA-06 shall acquire the common NMS for ASA-05, ASA-06 and ASA-08 and back charge the proportionate cost to each contractor. If seamless integration is not possible, ASA-05 and ASA-08 shall supply individual NMS. Virtualized environment shall be provided by ASA-06 for hosting all NMS software's	Scope of NMS OCC SW may be updated to "ASA-05,ASA08/ASA-06" in line with the description.	Clause is self-explanatory
32	Part-2	Section-VIB	3.3.14.2	(ii) Interchange/Double stack Station:	Kindly provide the number of Interchange/ Double stack stations.	Location shall be finalized during detail design stage. However, as of now tentative location are mentioned below which are subject to change. Bidder shall note that number of locations may increase or decrease during design stage 1.Koyambedu 2.KMC 3.Thousand lights

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33	Part-2	Section-VIB	3.3.14.2 (ii) Interchange/ Double stack Station:	(a) other than station's each platform and each concourse as per above (i) mentioned quantities ,01 single sided minimum 40" TFT/LED Backlit LCD Full HD of IP65 Displays at each walkways, multimodal / other metro lines at interchange station	Request to provide the total number of stations with multimodal transport and walkway.	Location shall be finalized during detail design stage. However, as of now tentative location are mentioned below which are subject to change. Bidder shall note that number of locations may increase or decrease during design stage 1.Madhavarm Bus terminus (MMBT-Interchange with interstate Bus terminal) 2.Villivakkam Metro(Interchange with Suburban Railway station) 3.Villivakkam Bus terminus(Interchange with Bus terminal) 4.Perambur(Multimode) 5.Chetpet(Multimode) The bidder shall consider 05 such additional Locations over the above for Telecom facilities.
34	Part-2	Section-VIB	3.3.15.15.2	Application Software shall be provided by other designated OCC/BCC Contractor. Station PIDS system shall be interfaced with OCC/BCC PIDS Management system and Application software for smooth integration	As per understanding, PIDS hardware supplier to provide API to interface with PIDS/PAS software. Rest other functionality related to software including integration with other system to be ensure by PIDS/PAS software provider. Please clarify.	Hardware HMI's, Corridor Server and Passenger information Displays for Stations and Depot including licensed windows OS shall be under scope of this contractor. These Hardware shall support the functionalities of PIDS/PA application supplied by the ASA-06 Contractor. Please refer 13.21.1.2 Interfaces between ASA 08 Communication (Telecom) – ASA 06 Telecom Contractor and Scope of Allocation matrix for details.
35	Part-2	Section-VIB	4.1.10 CCTV System	4.1.10 Fault and Alarm Management All status of the CCTV system equipment including CCTV cameras, video recorders, and approved by the Engineer shall be monitored by CCTV Management System / NMS in the CER at the OCC / BCC and shall automatically generate an audio / visual alarm on the CCTV Management System. Contractor shall interface and provide all necessary inputs in desired format to OCC/BCC ISMS system.	Kindly confirm the requirement is for Camera health monitoring to be done by CCTV Management system, whereas Health Monitoring of Recording servers shall be done by Server NMS ? The respective makes of camera and server may be different hence not possible to monitor under common CCTV Management system / NMS.	Tender condition prevails. Please refer 4.2.1.6 clause for details.
36	Part-2	Section-VIB	4.1.2.16	Camera must comply with Cybersecurity measures and shall provide on board Cybersecurity feature inbuilt in firmware to protect the hardware against cyber threats such as Brute force, snooping etc.	Camera must comply with cybersecurity measures and shall provide on board cybersecurity feature inbuilt in signed firmware, CC EAL4++ Certified dedicated hardware chipset module with cryptographic algorithm and brute force delay protection against cyber threats. Justification/Remarks: This Cyber Security Feature will avoid installing tampered or unknown product on secured network	Tender condition prevails. Kindly refer clause 4.1.2.23 (b) and additional clause 4.1.2.23(c) in Addendum-1.

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37	Part-2	Section-VIB	4.1.2.6	Video recording system shall provide primary recording at each respective stations/Depot and Mirror (Secondary recording) for stations/Depot of any particular FOTS ring shall be combinedly done at any one location of respective FOTS Network ring.	Clause 4.1.2.6 & 4.1.2.7/4.1.3.2.1(17)/4.1.5.1.3 are contradictory as Video recording system asked in 4.1.2.6 and rest clauses says that video recording system is not in scope of this tender.	ASA-08 Telecom contractor shall supply primary and secondary recorders for this scope. ASA-08 shall finalize the exact requirements duly meeting the interface requirements as per interface matrix 13.21 and scope of allocation matrix. VMS shall be provided by ASA-06 contractor.
38	Part-2	Section-VIB	4.1.2.7	Video Recording system provision shall not be in scope of this RFP and shall be provided by other designated OCC/BCC contractor.	Clause 4.1.2.6 & 4.1.2.7/4.1.3.2.1(17)/4.1.5.1.3 are contradictory as Video recording system asked in 4.1.2.6 and rest clauses says that video recording system is not in scope of this tender.	ASA-08 Telecom contractor shall supply primary and secondary recorders for this scope. ASA-08 shall finalize the exact requirements duly meeting the interface requirements as per interface matrix 13.21 and scope of allocation matrix. VMS shall be provided by ASA-06 contractor. Please refer revised clause 4.1.2.7 Also refer Scope of allocation matrix S.NO 1.
39	Part-2	Section-VIB	4.1.3.2.1	Video Management software and Video Recording system provision shall not be in scope of this RFP and shall be provided by other designated OCC/BCC contractor.	Clause 4.1.2.6 & 4.1.2.7/4.1.3.2.1(17)/4.1.5.1.3 are contradictory as Video recording system asked in 4.1.2.6 and rest clauses says that video recording system is not in scope of this tender.	ASA-08 Telecom contractor shall supply primary and secondary recorders for this scope. ASA-08 shall finalize the exact requirements duly meeting the interface requirements as per interface matrix 13.21 and scope of allocation matrix. VMS shall be provided by ASA-06 contractor. Please refer revised clause 4.1.3.2.1(17) Also refer Scope of allocation matrix S.NO 1.
40	Part-2	Section-VIB	4.1.5.1.3	Video Management software and Video Recording system provision shall not be in scope of this RFP and shall be provided by other designated OCC/BCC contractor.	Clause 4.1.2.6 & 4.1.2.7/4.1.3.2.1(17)/4.1.5.1.3 are contradictory as Video recording system asked in 4.1.2.6 and rest clauses says that video recording system is not in scope of this tender.	ASA-08 Telecom contractor shall supply primary and secondary recorders for this scope. ASA-08 shall finalize the exact requirements duly meeting the interface requirements as per interface matrix 13.21 and scope of allocation matrix. VMS shall be provided by ASA-06 contractor. Please refer revised clause 4.1.5.1.3 Also refer Scope of allocation matrix S.NO 1.
41	Part-2	Section-VIB	4.2.2.1.4	4.2.2.1.4 Unless specified otherwise elsewhere in the TS, cameras, field switches, and other equipment meant for outdoor installation, shall be suitable to work from 0 to +50-degree C with RH up to 97% non-condensing	Seems Typing error as in detail specification 90% non-condensing Humidity is asked and in General conditions it is 97%. Kindly amend the same with 95% in all pages.	Please refer addendum 1.
42	Part-2	Section-VIB	4.2.2.1.4	Unless specified otherwise elsewhere in the TS, cameras, field switches, and other equipment meant for outdoor installation, shall be suitable to work from 0 to +50- degree C with RH up to 97% non-condensing.	Request to change RH up to 93% non-Condensing for cameras	Please refer Addendum-1.

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43	Part-2	Section-VIB	4.2.2.1.7	<p>4.2.2.1.7 Vendor to indicate the focal length range for both wide & Telephoto dynamic range, Particular lens and allocation as per coverage area shall be finalized in detailed design stage PAN Tilt Adjustment as minimum:</p> <p>(a) For Fixed Camera - Manual Pan / Tilt adjustment up to 340 / 180 Deg.</p> <p>(b) For PTZ Cameras - 360 Deg continuous Pan and 180 Deg tilt with auto flip.</p> <p>Pan and tilt units, fitted with the camera and associated equipment, shall meet the following minimum performance:</p> <p>(a) Pan Rotation: 0° to 360°</p> <p>(b) Tilt Rotation: -90° to + 90°</p> <p>(c) Pan Speed: 90°/Sec.</p> <p>(d) Tilt Speed: 90°/Sec</p> <p>Bandwidth :64 Kbps – 8 Mbps;</p> <p>Camera Inputs minimum - 2 potential free dry inputs, Outputs - 1 NO/NC changeover contact.</p>	<p>Seems favouring foreign OEMS as very few OEM have 2 Alarm Inputs at camera, so we request you to kindly amend the same with 1 Alarm Input which is generic and available with all the OEMs.</p>	Tender condition prevails.
44	Part-2	Section-VIB	4.2.3 Varifocal Lenses	<p>Lens mount:C / C S - mount</p> <p>focus Control: Auto focus</p> <p>Zoom Control: Motorized</p>	<p>The specifications asked is of Box Camera with C/CS Mount lens</p> <p>C/CS Mount Lens with motorized and auto focus is technically not feasible so we request you to kindly remove C/CS Mount from lens specification so that Auto focus motorized lens can be given with M12 mount or equivalent which is available with all the OEMs or make it with C/CS Mount with manual focus and zoom.</p> <p>Request to amend:</p> <p>If C/CS Mount then</p> <p>focus Control-Manual</p> <p>Zoom Control - Manual</p> <p>OR</p> <p>If M12 Mount or equivalent then</p> <p>Focus Control: Auto focus</p> <p>Zoom Control: Motorized</p>	Tender condition prevails.
45	Part-2	Section-VIB	4.2.3.1	<p>1) Focal length 9 mm – 40 mm</p>	<p>1) Focal length 9 mm – 40 mm±10%</p> <p>Justification/Remarks:</p> <p>The ranges of lenses offered by different OEMs for CCTV cameras can have unique matching sensor size which leads slight variation in focal length so at least 10% tolerance in both the minimum and maximum lens values should be allowed without change in functional requirement i.e. Field of view</p>	Bidder to consider Lens based on tender scope. Actual requirement will be covered based on coverage study and detail design

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46	Part-2	Section-VIB	4.2.3.1	1. Focal length 9 mm – 40 mm	Request you to change Focal length as 12-50 mm as same is widely used lens size and provide larger distance and wider angle in comparison to 9-40 mm lens.	Bidder to consider Lens based on tender scope. Actual requirement will be covered based on coverage study and detail design.
47	Part-2	Section-VIB	4.2.3.1	2. Iris range F 1.5 to F 8	Request you to change Iris range as F1.8 to T360	Tender condition prevails.
48	Part-2	Section-VIB	4.2.3.1	5 Angle view wide (1/3") 30° x 22° or better	Request you to change Angle view wide (1/3")- 24.1 x 13.5° Wide	Tender condition prevails
49	Part-2	Section-VIB	4.2.3.1	6 Angle view tele (1/3") 7.1° x 5.3° or better	Request you to change Angle view tele (1/3")- 6.1 x 3.4° Tele	Tender condition prevails
50	Part-2	Section-VIB	4.2.4.3	Approvals (Safety):CE,FCC and UL/BIS Certified standards for Safety, EMC & Immunity	Since Housing is not electrical item so BIS is not required for Housing and BIS is already asked for the Box Camera so request you to kindly remove the same.	Tender condition prevails
51	Part-2	Section-VIB	4.2.6	High-Definition IP Fixed Box Camera (IR Camera):O. Wide Dynamic Range- 120 db or better	Request you to change wdr as 100 db or better	Tender condition prevails.
52	Part-2	Section-VIB	4.2.6.1	7)Lens 3.8 mm – 8 mm	7)Lens 3.8 mm – 8 mm ±10% Justification/Remarks: The ranges of lenses offered by different OEMs for CCTV cameras can have unique matching sensor size which leads slight variation in focal length so at least 10% tolerance in both the minimum and maximum lens values should be allowed without change in functional requirement i.e. Field of view	Bidder to consider Lens based on tender scope. Actual requirement will be covered based on coverage study and detail design.
53	Part-2	Section-VIB	4.2.6.2	C) Focal Length (Zoom Ratio) 5 – 9.4 mm motorized focus/zoom lens	C) Focal Length (Zoom Ratio) 5 – 9.4 mm±10% motorized focus/zoom lens Justification/Remarks: The ranges of lenses offered by different OEMs for CCTV cameras can have unique matching sensor size which leads slight variation in focal length so at least 10% tolerance in both the minimum and maximum lens values should be allowed without change in functional requirement i.e. Field of view	Bidder to consider Lens based on tender scope. Actual requirement will be covered based on coverage study and detail design.
54	Part-2	Section-VIB	4.2.6.2	High Definition IP Fixed Bullet Camera (IR Camera):D Angular Filed of View- H : 88.~ 26° / V : 65~ 20.0°/D : 90.0~ 55°	Please amend the clause as per below: Wide: 89° x 47° (H x V) Tele: 30° x 17° (H x V)	Tender condition prevails.
55	Part-2	Section-VIB	4.2.6.3	For type of Cameras-Compression technology Two independently configurable H.264 streams: Stream 1: H.265/H.264 Maximum supported resolution @ 25 FPS Stream 2: H.265/H.264/MJPEG Standard Definition Configurable FPS Stream 3: H.265/H.264/MJPEG	3 Independently configurable H.265 streams at max resolution @ 25fps Justification/Remarks: As Camera's resolution asked in tender are 5 MP for fixed Dome Box , Bullet and 2MP for PTZ so ideally recording and viewing should also be done at full resolution. Also in this case recording and Viewing will be happening at simultaneously (2 Stream) and one stream for Analytics/Secondary recording, so minimum 3 streams are required at max resolution	Three independently configurable streams are required as per existing tender conditions clause 4.2.6.3.D. Please refer Addendum for clause 4.2.6 Table 4.4 D
56	Part-2	Section-VIB	4.2.6.3	Active Pixels 1920 x 1080 for PTZ Cameras	Please change to Active Pixels : 2688 x 1520 (4MP) Justification/Remarks: As we are taking this system for minimum 7-8 years life span so CMRL should go with Minimum 4MP which is a latest PTZ Cameras	Tender condition prevails. Bidder can propose any higher resolution.

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					resolution available in market and it available with most of reputed OEM's.	
57	Part-2	Section-VIB	4.2.6.3	C. Angular Filed View- H : 55.3 (Wide) ~ 3(Tele) / V : ~ 32.2(Wide)~ 1.8(Tele)	Please amend the clause as per below:Field of View (FOV)- 2.3° to 64.7°	Tender condition prevails. Bidder can propose any better Field of view.
58	Part-2	Section-VIB	4.2.6.3	I. Supported Protocols- Telnet, FTP, TCP/IP, UDP/IP(Unicast,Multicast IGMP), IPv4/IPv6, SNMP, Sntp, RTSP, ONVIF etc. or as required to fulfil the functional requirement of project.	Request you to remove the telnet and RSTP protocol as it is not required as per CCTV Standard applications and security reasons.	Please refer Addendum-1
59	Part-2	Section-VIB	4.2.6.3	Housing Arrangement: IP 66, NEMA 4 or better	IP66 electrical enclosures are equivalent to NEMA 4 enclosures, So request you kindly accept either IP66 or NEMA.	Please refer Addendum-1.
60	Part-2	Section-VIB	6.1.3.2.1	Fixed box type color IP, IR cameras with varifocal lens complete with housing and mount. for station entry, parking, ramp, and PF ends, cross passages, point zone and RSS outdoor installations.	Please confirm if Bidder can propose Fixed IP Bullet or Fixed IP Box Camera as per requirement which has also been considered in other recent metro tenders in India	Tender condition prevails.
61	Part-2	Section-VIB	7.1.1.10	The FOTS equipment shall be located at every station, depot, OCC, BCC and RSS and connected to the backbone fibers in a ring configuration to constitute the fiber backbone network.	Request to share the details of RSS, RAMPS & SPC	<p>i)Following RSS /TSS are planned in this section.</p> <ol style="list-style-type: none"> 1.Villivakkam MTH Road(Nadhamuni) 2.Thiruvanmiyur 3.Madhavaram Depot <p>ii) Ramp section provided between Madhavaram Depot to Assissi Nagar, Retteri junction to Kolathur junction,Villivakam MTH Road to Anna Nagar West Metro and Tharamani Metro to Nehru Nagar metro.</p> <p>iii)Signal crossing point: Location shall be finalized during signalling detail design stage. However, as of now tentative locations are mentioned below which are subject to change. Bidder shall note that number of locations may increase or decrease during design stage</p> <ol style="list-style-type: none"> 1.B/w Murari hospital & Moolakadai 2.B/W aayanavaram & Otteri 3.B/w Purasiwakkam Highroad & Kelly's junction 4.B/w Thousand Lights & Royapettah 5.Nehrunagar & Kandananchavadi 6.B/w Okkiyam Thoraipakkam & Shollingnallur 7.B/w Madhavaram Depot & Venugopal nagar 8.B/w Venugopal nagar & Assissi nagar 9.B/w MMBT & Shastri Nagar 10.B/W Retteri & Kolathur

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						11.B/w Anna Nagar to Thirumangalam 12.B/w Koyambedu to Koyambedu market metro
62	Part-2	Section-VIB	7.2.1.11	The FOTS network shall be designed and implemented in a modular structure to enable it to be further upgraded to a higher capacity system and to be capable of accommodating new technologies	Kindly elaborate on new technologies to be accommodated	Please refer Addendum-1.
63	Part-2	Section-VIB	7.9.2.9 FOTS (Network) Management System	7.9.2.9 Further the NMS shall have the following features: (a) Web based UI interface (b) Telnet and TFTP access (c) RMON - Remote Monitoring (RMON) with 4 RMON groups (history, statistics, alarms, and events). (d) SNMP agent - • SNMPv1, SNMPv2c, SNMPv3 or latest	Requesting to remove "(c) RMON - Remote Monitoring (RMON) with 4 RMON groups (history, statistics, alarms, and events." considering RMON is superseded and no longer supported by large number of NMS OEMs.	Bidder may consider RMON or equivalent protocol to fulfil the tender requirements
64	Part-2	Section-VIB	8.3.1.8	Each Phone should support minimum 02 SIP User Accounts.	This clause is already deleted in Tender ASA06, we request to remove the same here also.	Please refer addendum 1
65	Part-2	Section-VIB	8.4.2.1.8	The Telephone Network Management Systems shall support for integration with other OEM systems.	This clause also has been modify in ASA06,(As we understand the below, The telephone system shall support the same OEM NMS only, it can integrate with other OEM system as SCADA, IP phones etc) , kindly confirm.	The telephone equipments supplied under ASA-08 shall integrate with EPABX Supplied under ASA-06 using open standards.
66	Part-2	Section-VIB	APPENDIX – A 1. CENTRALISED PASSENGER INFORMATION SYSTEM	CMRL shall be operated from OCC & BCC. For implementation of PAS on this line, Telecom Contractor will be required to provide a PIDS/PAS server to interface to the ATS System. Contractor may provide integrated PAS & PIDS Server.	Request to share the minimum technical specifications of Servers for all Telecom Sub-systems like PAS/PIDS, Telephone system, FOTS, Master Clock System, ACIDS, NMS, etc. if any	Please refer Chapter-10 for details. However, bidder shall finalize the exact requirements duly meeting the interface requirements as per interface matrix 13.21 and scope of allocation matrix.
67	Part-2	Section-VIB	APPENDIX – B INTEGRATED SECURITY MANAGEMENT SYSTEM (ISMS) 2. Network Video Recording Server	2.f The NVR shall provide a status of the available recording capacity, as well as an indication of the remaining possible recording time. An alarm shall pop-up on the workstation / terminal when the storage device is nearly full.	Request to share the minimum technical specifications for NVR Server	This will be considered during detail design. Please refer scope of allocation matrix s.no (1). ASA-08 contractor shall finalize the NVR server requirements as per the inputs from ASA-06 duly following the interface process. Please refer 13.21 for details.
68	Part-2	Section-VIB	Appendix 1	REDUNDANCY CONFIGURATION OCC -Telephone system BCC - Telephone system	This clause is already Modified in Tender ASA06 as 1 call server at OCC and 1 call server at BCC in hot standby mode, we request to modify the same here also.	This scope is covered under part of ASA-06.
69	Part-2	Section-VIB	General	Minimum specification of racks & MDF/ODF/DDF is not available.	Request to share the minimum specification of racks & MDF/ODF/DDF.	This is Design and built contract. Bidder needs to propose based on design and get it approved by the Engineer.
70	Part-2	Section-VIB	General	General	We understand the edge devices (ACIDS, CCTV, PAS, PIDS, etc) of OCC located in Madhavaram Depot will be part of Depot Contractor. Kindly confirm.	All Telecom facilities in Madhavaram Depot are under scope of ASA-08 Contractor except for the Centralised telecom facilities as mentioned in clause 1.4.1. Please refer revised clause 1.4.1.2 in Addendum-1.

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S. No.	Part	Section	Clause	Original Bid Condition	Bidder's Query	Response
71	Part-2	Section-VIB	General	Spare ports count on Access and Distribution switch	Spare ports required Per switch with respect to access and distribution layer is not specified, request to share the spare ports percentage required with respect to each switch required at station.	Please refer Clause 7.9.2.7 for details
72	Part-2	Section-VIB	New point	Additional Clause	Camera should have preferably OEM's own Chipset hardware or Should not be there from "HiSilicon / Fullhan Microelectronics / Ingenic / Sigmastar" make SoC Justification/Remarks: Own chipset provide robust control over the camera's software (firmware, cyber security & patches for security vulnerabilities) and also to avoid Chinese origin cameras to gain backdoor entry access into the camera and access sensitive & crucial video footage to external spying agencies & Chinese govt. agencies.	Please follow tender conditions. Refer ITB 4, 5 and Section 5 in Part-1 tender document.
73	Part-2	Section-VIB	New point	Additional Clause	The Intellectual Property Rights (IPR) of CCTV Cameras to be supplied against this tender do not reside in China or from a country which shares a land border with India. CCTV CAMERAs to be supplied against this tender are not manufactured by an entity in which the majority shareholding (>50%) of the entity is from China or from a country which shares a land border with India. Justification/Remarks: These clauses are added and coming in most of latest Govt tenders viz. ITI, UP Police, Delhi Police, ONGC Uran etc. to avoid Chinese origin cameras to gain backdoor entry access into the camera and access sensitive & crucial video footage to external spying agencies & Chinese govt. agencies.	Please follow tender conditions. Refer ITB 4, 5 and Section 5 in Part-1 tender document
74	Part-2	Section-VIB	New point	Additional Clause	General >The OEM for CCTV system shall be registered in India with self-owned service center without joint venture from last 5 years. OEM shall provide Property Tax / Electricity / Telephone Bill / GST Registration /Lease agreement (in favor of OEM) along with an undertaking signed by OEM / OEM representative having POA on the OEMs letter head. The OEM shall have implemented end to end CCTV solution in metro environment. Justification/Remarks: For achieving faster SLA and Prompt repairing or replacement of the cameras. Also OEM's should be well established in india since long.	Please refer 4.1.4.1 clause for details.
75	Part-2	Section-VIB	New point	Additional Clause	To ensure security of CCTV surveillance system (Camera & Software) from vulnerabilities & breaches and discourage false undertaking from OEMs, security auditing and testing of equipment including source code of camera and software shall be carried out from STQC (Ministry of Electronics & Information Technology) or any other Government Agency from the list of CERT-In empaneled Information Security Auditing Government Agency from the list of CERT-In empaneled Information Security Auditing or	VMS software and Cyber security solution is from other telecom contractor(ASA-06). Camera should support ONVIF and other protocols to seamlessly integrate with ASA-06 contractor. Penetration testing to be done also by ASA06 Contractor for the entire Phase-2 telecom network. The product supplied under ASA-08 package shall compliment the Cyber security

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S. No.	Part	Section	Clause	Original Bid Condition	Bidder's Query	Response
					<p>STQC/OWASP/UL Cybersecurity Assurance Program Test Methods certified from Globally renowned laboratories complying to risk assessment criteria for security threat as par UL2900-1 or complying to penetration test report with proper defense against security vulnerabilities in devices to be submitted along with the bid.</p> <p>Justification/Remarks: This clause is very critical to ensure VAPT test certificate from any reputed third party agencies. Also this clause was there in earlier CCTV tender of Chennai Metro</p>	environment provided by ASA-06. Please refer scope of allocation matrix s.no(9) .
76	Part-3	Section-VIII	10.3 Particular Conditions	Interference with Tests completion - (a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion]	Kindly request you to amend the clause as follows " (a) an extension of time and Cost compensation for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion]	Tender Condition Prevails.
77	Part-3	Section-VIII	11.4 Particular Conditions	<p><u>Add the following at the end of Sub-clause 11.4:</u> <u>Reasonable time for rectification of defects shall be:</u> <u>(i) Within 48 hours for recouping the materials becoming defective during DNP period.</u> <u>(ii) Within 1 month for rectification of software bugs occurring in the DNP period</u> <u>If the contractor fails to attend the defects within the above specified time limit, the penalty of INR. 1,00,000 per event per day shall be levied to the Contractor.</u></p>	<p>We understand that the Penalty levied shall be covered under the overall cap of LD. Kindly Confirm.</p> <p>Further request you to please amend the clause as follows "Reasonable time for rectification of defects shall be: (i) Within 48 hours for recouping the materials becoming defective during DNP period. (ii) Within 1 month for rectification of software bugs occurring in the DNP period If the contractor fails to attend the defects within the above specified time limit and defect affects the revenue operation services, the penalty of INR. 1,00,000 per event per day shall be levied to the Contractor OR Penalty clause may be removed.</p>	<p>Penalty is not covered under LD, it will be separate. Tender condition prevails.</p>
78	Part-3	Section-VIII	14.7 (b) Particular Conditions	General	<p>Request you to add the following Clause - "Application for Interim Payment Certificate - Contractor may apply for part completion of any milestone, if the milestone activity has been at least 50% completed, along with supporting details justifying the percentage completion being requested. The Employer's Engineer shall have the full authority to accept, modify or reject any such request. The decision of the Engineer shall be final and binding. Notwithstanding early completion of the Milestones or part of milestones, the payment to the Contractor at any time shall not exceed the cumulative monthly cash flows agreed at the time of award of the Contract."</p>	<p>Tender Condition Prevails. Payment will be made as per the detailed schedule of payment to be included as part of the Contract agreement.</p>

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S. No.	Part	Section	Clause	Original Bid Condition	Bidder's Query	Response
79	Part-3	Section-VIII	14.7 (b) Particular Conditions (Part B : Specific Provisions)	the amount certified in each Interim Payment Certificate within 56 days after the Engineer receives the Statement and supporting documents or, at a time when the Bank's loan or credit (from which part of the payments to the Contractor is being made) is suspended, the amount shown on any statement submitted by the Contractor, within 14 days after such statement is submitted, any discrepancy being rectified in the next payment to the contractor including any amounts due in accordance with a decision by the DB which have been included in the Interim Payment Certificate; and	Kindly request you to release the payment after preliminary scrutiny and certification by the Engineer, payment of 80% of the certified interim amount shall be made by the Employer within 14 days. The amount certified shall account for all deductions, including statutory deductions, recoveries for advances and any amounts due from the Contractor. The balance 20% shall be paid within 28 days, from the date of the preliminary certification of the bill by the Engineer	Tender Condition Prevails.
80	Part-3	Section-VIII	7.7 Ownership of Plant and Materials	Except otherwise specified in the Contract, each item of Plant and Materials shall, to the extent consistent with the Laws of the Country, become the property of the Employer at whichever is the earlier of the following times, free from liens and other encumbrances: (a) when it is incorporated in the Works; (b) when the Contractor is paid the corresponding value of the Plant and Materials under Sub-Clause 8.10 [Payment for Plant and Materials in Event of Suspension]".	As you would be aware, in ASA 05, we had the provision of High Sea Sales. Hence, Request you to amend the clause as below: "Ownership of the Plant and Equipment (including spare parts) to be imported into the country where the Site is located shall be transferred to the Employer at high seas. Contractor shall maintain all insurance and bear all risks for safe handling and transport of the Plant and materials until delivery to Employer's depot site. Ownership of the Plant and Equipment (including spare parts) procured in the country where the Site is located shall be transferred to the Employer when the Plant and Equipment are taken over by the Employer, following the issuance of taking over certificate for that portion of the works. Ownership of the Contractor's Equipment used by the Contractor and its Subcontractors in connection with the Contract shall remain with the Contractor or its Subcontractors. Ownership of any Plant and Equipment in excess of the requirements for the Facilities shall revert to the Contractor upon Completion of the Facilities or at such earlier time when the Employer and the Contractor agree that the Plant and Equipment in question are no longer required for the Facilities. Notwithstanding the transfer of ownership of the Plant and Equipment, the responsibility for care and custody thereof together with the risk of loss or damage thereto shall remain with the Contractor pursuant to GC 17.2 [Contractor's Care of the Works]."	Tender condition prevails.
81	Part-3	Section-VIII	Part- A – Contract Data	Interest bearing mobilization advance to a maximum of 10% of the Accepted Contract Amount (Excluding Provisional Sum), Excluding Taxes & duties, is payable in INR. The rate of Interest shall be 13.5% per annum. Mobilization advance shall be paid in two equal instalments.	Request you amend the clause as " Interest free and Irrevocable Mobilization advance to a maximum of 10% of the Accepted Contract Amount (Excluding Provisional Sum), Excluding Taxes & duties, is payable in INR. Mobilization advance shall be paid in two equal instalments".	Tender Condition Prevails.