

**Prebid Queries and Responses – Lot 2**  
**CMRL/PHASE-II/SYS/ C3&5 ASA08/2023**  
**17-07-2023**

S. No.	Part	Section	Clause	Original Bid Condition	Bidder's Query	Response
1	General (No specific Part/ Section)			This job constitutes of only supply of end equipment's, design of engineering drawings & documents for stations, depot and other location, Installation of end equipment's, testing & commissioning (Dependent on ASA-06 contractor), DLP for stipulated time in contract. Big dependency on ASA-06 (OCC & BCC) & ASA-07(Radio) as interface requirements asked are similar to other metro contracts and all telecom system work on centralized architecture.	Kindly note that supply done under ASA08 tender cannot be commissioned and handed over till the time all the centralized hardwares and softwares for OCC & BCC under tender ASA06 is not implemented. Hence in case there is substantial delay in execution of requirements under tender ASA06 due to which contractor under ASA08 is not able to commission and handover system for trials and subsequent milestones, DLP will be allowed to be started for materials supplied under ASA08 as per milestones mentioned in the tender RFQ and also any payment milestones held up on account of SAT will also be released for the completed work.	Please follow tender conditions and refer (GCC 2.1, PCC 16) and (GCC 10.2, PCC 42).
2	Part-1	Section - I	ITB 21.7	The Bid Security of a JV shall be in the name of the JV that submits the Bid. If the JV has not been legally constituted into a legally enforceable JV at the time of bidding, the Bid Security shall be in the names of all future members as named in the letter of intent referred to in ITB 4.1 and ITB 11.2.	Request to amend as " If the Joint Venture has not been legally constituted at the time of bidding, the bid security shall be in the name of any or all of the Joint Venture partners". Since same has been approved in the earlier published tender from CMRL for Telecommunication Systems.	Please refer revised bid condition in Addednum-2.
3	Part-1	Section - II	1.2	ITB 1.2 Add the following at the end of Sub-clause 1.2: (d) "firm" means a private entity, a state-owned enterprise or institution; and (e) "Joint Venture" or "JV" means any combination of two or three firms in the form of a joint venture, consortium, association or other unincorporated grouping under an existing agreement or with the intention to enter into such an agreement supported by a formal Letter of Intent.	We understand JV can be a "consortium only", please confirm	Definition of "Joint Venture" is self-explanatory. Tender condition prevails.
4	Part-1	Section - III	1.2.1	1.2.1 Personnel The Bidder must demonstrate that it has the personnel for the key positions that meet the following requirements	We understand personnel can be on Bidder/ consortium/ Manufacturer/ subcontractor payroll, please confirm	Tender condition prevails
5	Part-1	Section - III	2.4.1	General Experience Experience under Engineering contracts in the role of prime contractor (single entity or JV member), Subcontractor, or Specialist Sub contractor(i) for at least the last SEVEN (07) years starting from 1st January 2016.	We understand Supply, Installation, Testing, Commissioning contracts of safe city/ smart city/ Airports/ Metros/ Any Govt project shall be acceptable, please confirm	The referred projects are acceptable under general experience.
6	Part-1	Section - III	2.4.2 (a)	2.4.2 (a) Specific Experience 1. Experience in the capacity of Telecom System Integrator (without Specialist subcontractor) either as Single entity or JV member(iv)) OR 2. Experience in the capacity of Telecom System Integrator as Specialist Subcontractor(i) must have been substantially(iii) completed in the last 10 (ten) years, prior to the 'last date for bid submission.' A minimum number of. 1. One Telecommunication work involving Design, Supply, Installation, Testing and commissioning in Metro Rail / Mono Rail/ Mainline Railway projects/Large infra Projects; of value INR 186Cr,(ii, v,vi) or above; with at least 4 (four) subsystems out of FOTS/MAN, Tetra, PABX, CCTV, PAS, PIDS, ACIDS, Master Clock in the scope of the work Or 2. Two Telecommunication works involving Design, Supply, Installation, Testing and commissioning in Metro Rail / Mono Rail/ Mainline Railway projects/ Large Infra Projects; each of value INR 124	We understand all smart city/ safe city/ Airports/ any government projects having scope as Supply, Installation, Testing, Commissioning shall be acceptable as Large Infra projects/ Telecom system Integrator, please confirm.  We understand the value of 186 Cr INR/ 124 Cr/ 93 Cr is the overall project value to be considered & not summation of value of individual systems mentioned, please confirm.  We understand Fibre Optic Cable Network city-wide/ Airports/ etc., Access control system for control rooms/ Airports/etc., Public address system, Displays shall be acceptable for FOTS, ACIDS, PAS, PIDS resp., please confirm	1&3.Large infrastructure projects which meets the telecommunication works (with at least 4 (four) subsystems out of FOTS/MAN, Tetra, PABX, CCTV, PAS, PIDS, ACIDS, Master Clock in the scope of the work) criteria as listed under 2.4.2(a) are acceptable.  2.Please refer EQC 2.4 Experience, Note(ii,vi).

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				Cr.(ii,v,vi) or above; with at least 4 (four) subsystems out of FOTS/MAN, Tetra, PABX, CCTV, PAS, PIDS, ACIDS, Master Clock in the scope of the work. Or 3. Three Telecommunication works involving Design, Supply, Installation, Testing and commissioning in Metro Rail / Mono Rail/ Mainline Railway projects/ Large Infra Projects; each of value INR 93 Cr.(ii,v,vi) or above; with at least 4 (four) subsystems out of FOTS/MAN, Tetra, PABX, CCTV, PAS, PIDS, ACIDS, Master Clock in the scope of the work. (All documentary evidence shall be from the client in case of Single entity/JV; or from the Project integrator (except satisfactory performance for 6 months after the time of commissioning) in case of Specialist Subcontractor) Must have substantially(iii) completed, in the last 10 years, prior to the 'last datefor bid submission.' minimum of one Telecommunication work involving Design, Supply, Installation, Testing and commissioning in Metro Rail /Mono Rail/Mainline Railway projects/Large Infra Projects; of value INR 93Cr.(ii,v,vi) or above; with at least 4 (four).		
7	Part-1	Section - III	2.4.2 (a)	(iv) For contracts under which the Bidder participated as a JV member or as a Specialist Subcontractor, only the Telecom portion of the works executed by him, as a member of JV or as a Specialist Sub-contractor, by value, shall be considered to meet this requirement.	We understand this clause is not applicable to Lead Bidder/ Prime contractor in case of project references with consortiums as 100% scope of project shall be in Lead bidder/ prime contractor scope, please confirm.	Tender condition is self-explanatory. Tender condition prevails.
8	Part-1	Section - III	2.4.2 (a)	(vi) In the case of a turnkey project/Large Infra Projects, the value of the telecommunication portion/work alone shall be considered to meet this requirement. The value of the work shall be converted into Indian Rupees (INR) if other currencies are used as per the respective exchange rate on the date of award of the Contract. Upon converting into INR, 5% inflation per year (annual compounding) shall be applied on the INR equivalent value of the work for updating to the price level as on 31-05-2023.  (v) In case of a JV, the value of Contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single Contract has been met. In determining whether the JV meets the requirement of total number of Contracts, only the number of Contracts completed by each member, each of value equal or more than the minimum value required shall be aggregated.	We understand the value of 186 Cr INR/ 124 Cr/ 93 Cr is the overall total project value to be considered & not summation of value of individual systems in one project mentioned, please confirm.	The entire requirement is self-explanatory. Tender specification shall prevail
9	Part-1	Section - III	2.4.2 (a)	(iii) Substantial completion shall be based on 80% (Financial progress) or more works completed under the Contract. Completion shall be evidenced by submission of end-user certificates such as Taking-over Certificates and Completion Certificates as	We understand client project completion mentioning 80% completion shall be acceptable for 80% financial progress, please confirm	Tender specification shall prevail

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				required to be submitted as attachment to Form EXP-2(a) of Section IV - Bidding Forms. The completed work shall be in satisfactory service for six months and shall be evidenced by submission of end-user certificates.		
10	Part-1	Section - III	2.4.2 (a)	(iii) Substantial completion shall be based on 80% (Financial progress) or more works completed under the Contract. Completion shall be evidenced by submission of end-user certificates such as Taking-over Certificates and Completion Certificates as required to be submitted as attachment to Form EXP-2(a) of Section IV - Bidding Forms. The completed work shall be in satisfactory service for six months and shall be evidenced by submission of end-user certificates.	Request to modify: (iii) Substantial completion shall be based on 80% <del>(Financial progress)</del> or more works completed under the Contract. Completion shall be evidenced by submission of end-user certificates such as Taking-over Certificates and Completion Certificates as required to be submitted as attachment to Form EXP-2(a) of Section IV - Bidding Forms. <del>The completed work shall be in satisfactory service for six months and shall be evidenced by submission of end-user certificates.</del>	Tender specification prevails
11	Part-1	Section - III	2.4.2 (a)	(All documentary evidence shall be from the client in case of Single entity/JV; or from the Project integrator (except satisfactory performance for 6 months after the time of commissioning) in case of Specialist Subcontractor)	Request to modify: (All documentary evidence shall be from the client in case of Single entity/JV; or from the Project integrator <del>(except satisfactory performance for 6 months after the time of commissioning)</del> in case of Specialist Subcontractor)	Tender specification prevails
12	Part-1	Section - III	2.4.2 (a)	Specific Experience 1. Experience in the capacity of Telecom System Integrator (without Specialist subcontractor) either as Single entity or JV member(iv)) OR 2. Experience in the capacity of Telecom System Integrator as Specialist Subcontractor(i) must have been substantially(iii) completed in the last 10 (ten) years, prior to the 'last date for bid submission.' A minimum number of. 1. One Telecommunication work involving Design, Supply, Installation, Testing and commissioning in Metro Rail / Mono Rail/Mainline Railway projects/Large infra Projects; of value INR 186Cr,(ii, v,vi) or above; with at least 4 (four) subsystems out of FOTS/MAN, Tetra, PABX, CCTV, PAS, PIDS, ACIDS, Master Clock in the scope of the work Or 2. Two Telecommunication works involving Design, Supply, Installation, Testing and commissioning in Metro Rail / Mono Rail/ Mainline Railway projects/ Large Infra Projects; each of value INR 124 Cr.(ii,v,vi) or above; with at least 4 (four) subsystems out of FOTS/MAN, Tetra, PABX, CCTV, PAS, PIDS, ACIDS, Master Clock in the scope of the work. Or 3. Three Telecommunication works involving Design, Supply, Installation, Testing and commissioning in Metro Rail / Mono	We understand if in consortium, if any one party - Lead Bidder/ consortium partner project individual value as per clause, can comply alone, then qualification from other consortium partner is not required, please confirm as clause mentions "All parties combined must meet requirement".  We understand if Lead Bidder having 1 project credential of 93 Cr, then lead bidder & consortium member is together required to meet only one additional project credential of 186 Cr/ 2 projects of 124 Cr/ 3 projects 93 Cr INR, please confirm.	Tender Specification is clear and self-explanatory.  Tender specification shall prevail

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				<p>Rail/Mainline Railway projects/ Large Infra Projects; each of value INR 93 Cr.(ii,v,vi) or above; with at least 4 (four) subsystems out of FOTS/MAN, Tetra, PABX, CCTV, PAS, PIDS, ACIDS, Master Clock in the scope of the work.</p> <p>(All documentary evidence shall be from the client in case of Single entity/JV; or from the Project integrator (except satisfactory performance for 6 months after the time of commissioning) in case of Specialist Subcontractor)</p> <p>Must have substantially(iii) completed, in the last 10 years, prior to the 'last date for bid submission.' minimum of one Telecommunication work involving Design, Supply, Installation, Testing and commissioning in Metro Rail /Mono Rail/ Mainline Railway projects/Large Infra Projects; of value INR 93Cr.(ii,v,vi) or above; with at least 4 (four)</p>		
13	Part-1	Section - IV	Form 10, Form 11	<p>10. UNDERTAKING FOR MINIMUM LOCAL CONTENT (Undertaking as per Section V of DPIIT Order)</p> <p>11. UNDERTAKING REGARDING RESTRICTIONS ON PROCUREMENT FROM A BIDDER OF A COUNTRY WHICH SHARES A LAND BORDER WITH INDIA</p>	We understand, these forms are required to be submitted from Bidder/ Lead Bidder & Consortium only & not from Manufacturers, please confirm	<p>Tender Specification is clear and self-explanatory.</p> <p>Tender specification shall prevail</p>
14	Part-1	Section - IV	Form CON	Form CON: HISTORICAL CONTRACT NON-PERFORMANCE AND LITIGATION	Request to allow Bidder to submit their standard format details.	Tender condition prevails.
15	Part-2	Section VI-A	12.5.2	<p>Quality Plan:  The plan shall be complied to the relevant International and Indian standards. The plan shall be annexed with the Statutory and Regulatory Requirements Tracking Register, that shall be treated as a live document, identify all the relevant codes and standards, RDSO, EIG like Metro specific regulatory requirements are to be identified along with the specific time frame and tracked. The Monthly Progress Report shall be annexed the status of the compliance specific to the scope the project under execution.</p>	Kindly need clarity on what codes and standards need to be followed as per RDSO, EIG like metro specific requirements.	The referred clause belongs to General Specification. Bidder may refer specific references in technical specification where compliance to RDSO specifications is required for products like Cables.
16	Part-2	Section VI-A	6.1.5	The contractor for each package will have to share proportionate cost for PMIS. The recovery of 0.05% of Accepted Contract Amount shall be made from all the Contractors' running bills on account of PMIS cost which includes software, implementation, service, training and maintenance, etc.	Kindly need to understand whether this cost recovery of 0.05% against PMIS will be done within a year or till end of final payment milestone.	<p>Clause is self-explanatory.</p> <p>Recovery of 0.05% of Accepted Contract Amount shall be made from <b>all the Contractors' running bills</b></p>

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17	Part-2	Section VI-A	6.2	2) Drawings (including As build drawings), BIM Models and designs created by the Contractor as per the construction asset (classification) and on the software platform defined in the Contract, 5) Geo-referencing of the alignment, 7) Geo-referencing co-ordinates of assets into a geographic information system (GIS) which the Contractor's Monthly Progress Report has utilised,	Does the bidder need to submit BIM model drawings as a part of the as-built submission.	Please refer Appendix-B .BIM Models are to be updated progressively during the project execution.
18	Part-2	Section VI-B	1.13.7.36 & 1.13.7.37	All the Cables & Pipes passing through the walls, Cable Trenches, Ducts or entering in the installation, Control Buildings, CER, SCR, TER, SSR, equipment racks, Loop Box, ACDB, Enclosures, Junction Boxes, Location Box/Apparatus Case etc. shall be sealed through EPDM Modular based Cable & Pipe Sealing System based on multidiameter technology. EPDM shall be used for more than 2 cable entering any equipment/opening etc.  Cable & Pipes transit entries Sealing & full proof Protection System with EPDM Modules shall comply following Technical Specifications to prevent in/out cables entries against "Water, Dust, Humidity, Fire, Vibrations, Temperature Variations, Cable Insulation damages, Pull Tension, Noise, EMI/EMC as well as Rodents etc.	Kindly need clarity on the specific areas/rooms within stations wherein EPDM sealing system is required to be implemented.	This tender is based on Design and Built. Bidders need to propose quantities for complying all tender requirements
19	Part-2	Section VI-B	1.5.2.5	Factory integration tests Some interfaces between subsystems need to be tested under factory conditions (signaling and telecommunication, rolling stock and on-board signaling equipment...). During this phase the different sub-system will be connected together in order to test the functions achieved by the group of equipment. This platform (group of equipment) will enable notably to test the compliance with operational criteria, ergonomic criteria of the man machine interfaces. Those tests are essential as they shall prove the capacity of the subsystem to operate as an integrated system prior to be delivered to the site, and shall prevent each contractor to spend unnecessary time and resources on site to correct design / manufacture based defects.	Testings of sub-systems will not be possible under factory conditions as different components of the sub-systems may be from different OEMs and bringing the same under a single factory will be very difficult. Also, kindly note that central implementation softwares are under a different tender ASA06. Hence requesting FAT for products only to be supplied under ASA08 not for sub-systems.	ASA-08 Telecom contractor should perform POC ,FAT to demonstrate open protocols as per tender scope to interface & integrate with ASA-06 telecom contractor.
20	Part-2	Section VI-B	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 Network ring. Compatible hardware for recording shall be supplied by the ASA-08 contractor duly complying the Interface requirements from OCC/BCC Contractor. Primary recording shall be done for 15 days at full resolution of the Camera with 20 FPS and secondary recording for 90 days at a resolution of 1920 x 1080 with 20 FPS. Secondary recording infrastructure may use modern Virtualization technologies to optimize the Hardware. In addition, Contractor shall provide additional storage space required to store 100 Camera footages for 90 days in the secondary recording device to keep the Archive /backup of important events.	The mentioned two clauses are contradictory to each other. Kindly confirm the scope of Recording Server & storage hardware will be in ASA-08 or it will be provided by other designated contractor. If ASA-08 contractor need to consider the Recording Server & storage hardware in their scope, hardware configuration will be required from the ASA-06 contractor as per the ISMS software requirement. Kindly requesting details for the same.	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 Addendum-2 for clause 4.1.5.1.8. Also refer 4.1.2.7, 4.1.3.2.1(17) and 4.1.5.1.3 in Addendum-1

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21	Part-2	Section VI-B	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	The mentioned two clauses specify different recording topology for CCTV system  Kindly confirm if recording is to be done at Four place i.e. stations/depot, OCC, BCC & at any location of respective FOTS network ring.	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 addendum-2 for clause 4.1.5.1.8. Also refer clause 4.1.2.7,4.1.3.2.1(17) and 4.1.5.1.3 in Addendum-1 for details.
22	Part-2	Section VI-B	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.	The mentioned two clauses are contradictory to each other. Kindly confirm the scope of Recording Server & storage hardware will be in ASA-08 or it will be provided by other designated contractor. If ASA-08 contractor need to consider the Recording Server & storage hardware in their scope, hardware configuration will be required from the ASA-06 contractor as per the ISMS software requirement. Kindly requesting details for the same.	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 clause 4.1.2.7,4.1.3.2.1(17) and 4.1.5.1.3 in Addendum-1 for details. Also refer Scope of allocation matrix S.NO 1.
23	Part-2	Section VI-B	4.1.3.2.1 (1)	CCTV control equipment at Stations, Depot, RSSs	CCTV control equipment refers to CCTV MMI here. Kindly confirm if our understanding is correct.	CCTV Control equipment referred at various locations in the tender can be read as CCTV MMI.
24	Part-2	Section VI-B	4.1.3.2.1 (13)	Laptops pre-loaded with CCTV system software	We assume that bidder need supply Laptop only as CCTV software is not part of this package. Kindly confirm. Also Laptop minimum configuration need to be provided by the ISMS OEM.	Integrated Security Management system (ISMS) and Video Management system are not under the scope of this tender. however, any related application if applicable regarding CCTV & ACIDS equipment required for configuration and maintenance shall be preloaded by ASA08 Contractor also. Also please refer Chapter 10,clause 10.7.2 and Appendix-D.
25	Part-2	Section VI-B	4.1.3.2.1 (4)	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 depot and RSS outdoor installations	Kindly confirm if we can propose Bullet cameras in these locations which comes with inbuilt IR, motorized varifocal lens, weatherproof & vandal resistant body.	Please refer revised bid condition in Addednum-2.
26	Part-2	Section VI-B	4.1.4.2	The Contractor shall ensure that the CCTV system equipment supplied under the Contract shall comply with the reliability figures here in: CCTV System Equipment MTBF(Hours) per unit Station and central equipment > 60,000 IP Fixed Cameras > 60,000 PTZ cameras > 60,000 Video Display Units (monitors) > 55,000	Request approval for cameras with MTBF of 59952 hrs.	+/- 1% variation can be accepted subject to meet the overall availability requirements.
27	Part-2	Section VI-B	4.1.5.1.11	Some of the cameras in depot, RSS, parking's specifically identified theft prone areas etc. are required to be installed outdoor i.e. outside the building with no covering shed. For all outdoor installation a proper rust and weather proof mounting arrangement complying with IP 65 or better along with wiper arrangement shall be provided for housing these cameras	Wiper requirement is not given in the cameras specifications. Kindly confirm if all the outdoor cameras need to be provided with wiper arrangement.  If wiper arrangement need to be provided, water supply need to be provided by client near each camera for spraying water on the camera lens & clean it using wipe. Kindly confirm the same.	Please refer addendum-2

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				including junction box and any other accessories / equipment required shall also be provided as part of this contract.		
28	Part-2	Section VI-B	4.1.5.1.5	Video Management software shall be working on open protocol (i.e. ONVIF,OPC etc.) and shall be capable to interface with different OEM's all type of Camera's (Fixed, Fixed Dome, PTZ, panoramic, Bullet type etc) by receiving video streams and Alarms and controls	As we understand Video management software is not part of this package. Hence request removal of this clause.	Cameras supplied as part of this contract should interface & integrate with VMS supplied by ASA-06 Contractor on open protocol (i.e. ONVIF,OPC etc.)
29	Part-2	Section VI-B	4.1.5.1.8	Network Video Recording system shall provide local recording at OCC itself and mirrored recording (at any location of respective FOTS network ring) for all CMRL Corridor 3&5 stations.	The mentioned two clauses specify different recording topology for CCTV system  Kindly confirm if recording is to be done at Four place i.e. stations/depot, OCC, BCC & at any location of respective FOTS network ring.	Please refer addendum 2.
30	Part-2	Section VI-B	4.1.6.4	Operation of help point facilities shall automatically initiate CCTV Coverage with pop up alarm of the associated area	CCTV interface with telephone system is not required as per the interface matrix given in Chapter-12. Kindly update the interface matrix if CCTV needs to be interfaced with Telephone. Also confirm if it will be hardwired integration or software level integration.	Please refer addendum-2 for revised clause 12.1 Subsystem Interface. Bidder can propose suitable solution for Telephone and CCTV integration based on other interfaces. Contractor shall interface with ASA-06 Contractor for suitable integration of Telephone and CCTV.
31	Part-2	Section VI-B	4.1.6.5	In event of Fire, trigger from Fire Alarm shall automatically initiate CCTV Coverage of the associated area and pop-up alarm shall be available in CCTV MMI.	CCTV interface with telephone system is not required as per the interface matrix given in Chapter-12. Kindly update the interface matrix if CCTV needs to be interfaced with Fire alarm. Also confirm if it will be hardwired integration or software level integration.	Please refer addendum-2 for revised clause 12.1 Subsystem Interface. Bidder can propose suitable solution for Telephone and CCTV integration based on other interfaces. Contractor shall interface with ASA-06 Contractor for suitable integration of Telephone and CCTV.  Bidder shall interface with MEP contractor for the Fire alarm interface as per the interface requirements. Please refer Interface between MEP and Telecom Contractor in 13.14, MEP-COMM-7.
32	Part-2	Section VI-B	4.2.1.2	All control equipments e.g. servers / workstation (CPU), storage devices etc. shall be placed in TER of stations and depot in standard racks	Kindly confirm if Desktop/Tower type CCTV workstation can be placed in the SCR, SSCR itself for ease of connecting the monitors. If workstation is placed in TER rack KVM will be required for connecting the monitors, keyboards & mouse, this will increase the point of failure.	Bidder can consider based on their design and supplied systems.

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33	Part-2	Section VI-B	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. <b>Request To amend:</b> 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 95% non-condensing	Please refer Addendum-1																																										
34	Part-2	Section VI-B	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	As per cameras specification section 4.2.6, cameras should be suitable to work up to 90% RH non-condensing. Hence request amendment of RH requirement in this section accordingly.	Please refer Addendum-1																																										
35	Part-2	Section VI-B	4.2.3	Varifocal Lenses  <table border="1"> <caption>Table 4.2</caption> <thead> <tr> <th>SN</th> <th>Parameter</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Focal length</td> <td>9 mm – 40 mm</td> </tr> <tr> <td>2</td> <td>Iris range</td> <td>F 1.5 to F 8</td> </tr> <tr> <td>3</td> <td>Format</td> <td>1/3" or better, Full HD, 3 MP, IR corrected.</td> </tr> <tr> <td>4</td> <td>Lens mount</td> <td>C / C S - mount</td> </tr> <tr> <td>5</td> <td>Angle view wide (1/3")</td> <td>30° x 22° or better</td> </tr> <tr> <td>6</td> <td>Angle view tele (1/3")</td> <td>7.1° x 5.3° or better</td> </tr> <tr> <td>7</td> <td>Iris Control</td> <td>Auto / D C control</td> </tr> <tr> <td>8</td> <td>focus Control</td> <td>Auto focus</td> </tr> <tr> <td>9</td> <td>Zoom Control</td> <td>Motorized</td> </tr> <tr> <td>10</td> <td>Operating Temperature</td> <td>0°C to +50°C</td> </tr> <tr> <td>11</td> <td>Storage Temperature</td> <td>0°C to +70°C</td> </tr> <tr> <td>12</td> <td>Operating Humidity with camera and housing</td> <td>Up to 90%, non-condensing</td> </tr> <tr> <td>13</td> <td>Approval (Safety &amp; EMC Immunity, Emission)</td> <td>CE or equivalent.</td> </tr> </tbody> </table>	SN	Parameter	Specification	1	Focal length	9 mm – 40 mm	2	Iris range	F 1.5 to F 8	3	Format	1/3" or better, Full HD, 3 MP, IR corrected.	4	Lens mount	C / C S - mount	5	Angle view wide (1/3")	30° x 22° or better	6	Angle view tele (1/3")	7.1° x 5.3° or better	7	Iris Control	Auto / D C control	8	focus Control	Auto focus	9	Zoom Control	Motorized	10	Operating Temperature	0°C to +50°C	11	Storage Temperature	0°C to +70°C	12	Operating Humidity with camera and housing	Up to 90%, non-condensing	13	Approval (Safety & EMC Immunity, Emission)	CE or equivalent.	Kindly approve Bullet cameras with inbuilt varifocal motorized lens. The camera will have better focal length of 5-50mm. Iris range will be F1.9.  C/CS mount lens for box cameras does not support motorized zoom.	Please refer addendum 2
SN	Parameter	Specification																																														
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36	Part-2	Section VI-B	4.2.3 Varifocal Lenses	Lens mount:C / C S - mount focus Control: Auto focus Zoom Control: Motorized	The specifications asked is of Box Camera with C/CS Mount lens 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. Request to amend: If C/CS Mount then focus Control-Manual Zoom Control - Manual OR If M12 Mount or equivalent then Focus Control: Auto focus Zoom Control: Motorized <b>Request to amend:</b> If C/CS Mount then	Please refer addendum 2																																										

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37	Part-2	Section VI-B	4.2.4	Housing Arrangement for Fixed IP Box type camera <table border="1"> <caption>Table 4.3</caption> <thead> <tr> <th>SN</th> <th>Item / Asset</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Window</td> <td>3 mm (0.12 inch) glass</td> </tr> <tr> <td>2.</td> <td>Camera Mounting</td> <td>Removable camera/lens tray, mounted with minimum two screws.</td> </tr> <tr> <td>3.</td> <td>Cable Entry</td> <td>Internal cable management</td> </tr> <tr> <td>4.</td> <td>Construction</td> <td>Aluminum housing &amp; casing, neoprene gaskets, UV – resistant polymer end caps. All anchor- fasteners, nuts, washers shall be of stainless steel material</td> </tr> <tr> <td>5.</td> <td>Tamper resistance</td> <td>– Tamper - resistant screws for locking clasps</td> </tr> <tr> <td>6.</td> <td>Enclosure Protection</td> <td>IP66 / NEMA - 4x or better</td> </tr> <tr> <td>7.</td> <td>Approvals (Safety)</td> <td>CE,FCC and UL/BIS Certified standards for Safety, EMC &amp; Immunity</td> </tr> </tbody> </table>	SN	Item / Asset	Specification	1.	Window	3 mm (0.12 inch) glass	2.	Camera Mounting	Removable camera/lens tray, mounted with minimum two screws.	3.	Cable Entry	Internal cable management	4.	Construction	Aluminum housing & casing, neoprene gaskets, UV – resistant polymer end caps. All anchor- fasteners, nuts, washers shall be of stainless steel material	5.	Tamper resistance	– Tamper - resistant screws for locking clasps	6.	Enclosure Protection	IP66 / NEMA - 4x or better	7.	Approvals (Safety)	CE,FCC and UL/BIS Certified standards for Safety, EMC & Immunity	Since Bullet cameras comes with inbuilt enclosure, removable camera/lens tray, UV resistant end caps, anchor fasteners, nuts, washers of SS will not be applicable. Kindly provide approval accordingly.	Please refer addendum 2
SN	Item / Asset	Specification																												
1.	Window	3 mm (0.12 inch) glass																												
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38	Part-2	Section VI-B	4.2.4	Housing Arrangement for Fixed IP Box type camera:	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. <b>Request to amend:</b> Approvals (Safety):CE,FCC	Please refer addendum 2																								
39	Part-2	Section VI-B	4.2.5.1	Mounts shall be suitable for indoor and outdoor mounting units designed for fixed cameras or camera housing installations. The mount shall be of the same make as housing.	The Bullet/PTZ cameras comes with standard wall mountings. Necessary mounting arrangement need to be fabricated as per site requirement. Kindly allow bidder to consider locally fabricated mountings.	Bidder can consider suitable mount fixtures and approved it by the Engineer.																								
40	Part-2	Section VI-B	4.2.6	High-Definition IP Fixed Box Camera (IR Camera)	Kindly approve IP Bullet camera with inbuilt housing, IR & lens. Bullet cameras will be better compared to Box cameras as it come as a single unit & has motorized focus & zoom adjustment.	Please refer addendum 2																								
41	Part-2	Section VI-B	4.2.6	High-Definition IP Fixed Box Camera (IR Camera) Sensitivity: @ F1.2, 30 IRE or better	Kindly approve IP Bullet camera with sensitivity @F1.9 to F2.1 with better IR range of 100m	Tender condition prevails.																								
42	Part-2	Section VI-B	4.2.6	Supported protocols: FTP,TCP/IP,UDP/IP(Unicast, Multicast IGMP), IPv4/IPv6, SNMP, SNT, RTSP ,ONVIF etc. or as required to fulfill the functional requirement of project.	FTP is not a secure protocol. Also SNT protocol is not mandatory for CCTV cameras. Hence request removal of these two protocols.	FTP and SNT can be optional. However, contractor needs to fulfil the functional requirements																								
43	Part-2	Section VI-B	4.2.6.1/4.2.6.2	High Definition IP Fixed Dome Camera (IR Camera )/High Definition IP Fixed Bullet Camera (IR Camera) Sensitivity: @F1.2, 30 IRE or better	Kindly approve IP Fixed dome/bullet camera with sensitivity @F1.6 with better IR range of up to 50m	Tender condition prevails.																								

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44	Part-2	Section VI-B	4.2.6.1/4.2.6.2/4.2.6.3	High Definition IP Fixed Dome Camera (IR Camera )/High Definition IP Fixed Bullet Camera (IR Camera)/High Speed, High Definition IP PTZ Dome Camera (IR Camera)  Supported protocols: FTP,TCP/IP,UDP/IP(Unicast, Multicast IGMP), IPv4/IPv6, SNMP, SNT, RTSP ,ONVIF etc. or as required to fulfill the functional requirement of project.	FTP is not a secure protocol. Also SNT protocol is not mandatory for CCTV cameras. Hence request removal of these two protocols.	FTP and SNT can be optional. However contractor needs to fulfil the functional requirements
45	Part-2	Section VI-B	4.2.6.3	High Definition IP PTZ Dome Camera (IR Camera)  POE: As per IEEE 802.3af compliant and 12V/24V AC dual power options	Kindly approve PTZ cameras with Power input of AC 24 V~, 3 A, 50-60 Hz ; or UPoE 42.5-57 V	PTZ camera with suitable power supply can be provided.
46	Part-2	Section VI-B	4.2.6.3	High Speed, High Definition IP PTZ Dome Came ra (IR Camera)	IP66 electrical enclosures are equivalent to NEMA 4 enclosures, So request you kindly accept either IP66 or NEMA. <b>Request to amend:</b> Housing Arrangement: IP 66/ NEMA 4 or better	Please refer addendum 2
47	Part-2	Section VI-B	7.1.1.6	The FOTS shall provide LAN connectivity between telecom subsystems and Non- telecom subsystems of the rail project	Please note that bidder has not received any details of non-telecom subsystems like IP ports required, position of those end devices/ switches which are to be connected through FOTS of the telecom package.  Kindly requesting to share the station wise, depot wise, RSS wise exact requirement details along with drawings if any to consider the same. Else this requirement of non-telecom system connectivity needs to be removed from scope.	This tender is based on Design and Built. Bidders need to propose quantities for complying all tender requirements
48	Part-2	Section VI-B	7.1.3 (d)	Telecom Contractor shall Interface with Network Management system at OCC/BCC which shall be provided by other designated Telecom Contractor. If contractor fails to interface, a separate NMS can be provided, which will be interface with OCC/BCC NMS	We understand that Centralized NMS is a part of tender ASA06, and it will be a responsibility of contractor executing tender ASA06 to do the necessary integration. Under the scope of ASA08, if separate NMS needs to be provided then integration of the same to centralized NMS will also be under the scope of contractor executing ASA06 tender. Kindly confirm.	Telecom Contractor shall Interface with Network Management system at OCC/BCC which shall be provided by other designated Telecom Contractor. If contractor fails to interface, a separate NMS can be provided by ASA-08 contractor which will be interface with OCC/BCC NMS supplied by ASA-06 contractor. Please refer scope of allocation matrix S.NO(5)-FOTS, Remarks under NMS.
49	Part-2	Section VI-B	7.1.4.1	Prior to the detailed design phase, the Contractor shall compile and submit a loading report to the Engineer/Employer that includes details of the required FOTS capabilities, the network throughput associated with the different levels of service, the worst-case transmission delay times, latency, packet drop, traffic, utilization the availability including MTTR and recommendations for minimum equipped reserved capacity and additional spare capacity. The Contractor shall submit the proposed network diagram along with system configuration for approval of the Engineer/Employer.	The network parameters including the bandwidth availability, delays, utilization will have a huge dependency on the Core switches under tender ASA06. Hence the network parameter controls, availability to OCC/BCC and transmission between corridors will be under scope of Contractor executing ASA06 tender. Only the network related parameters within the stations & depot under the scope of ASA08 tender will take care by contractor executing the same. Kindly need confirmation.	All network design parameters will be decided during detail design with ASA-06,ASA-08 Contractor. Please refer Scope of allocation matrix S.No(5) FOTS, also refer 7.2.5.10 and 7.2.5.11 for details.
50	Part-2	Section VI-B	7.2.1.10 & 7.2.1.12	The operating system software and configuration data shall be stored in non-volatile memory. In the event of a power supply failure, the operating system shall automatically revert to the last stored or activated user programmed configuration without any manual intervention once the power has been restored.  The FOTS network shall incorporate on-line automatic, self-diagnostic maintenance facilities that shall enable fault, configuration and performance management. All equipment shall be monitored to ensure that a failure, as a	As major data of configuration and FOTS management will be at the OCC level under tender ASA06 scope and centralized NMS will be deployed, it may not be possible to detect card level fault for switches under tender ASA08. In case it is required, details would be required of centralized NMS and core switches that are going to be deployed under ASA06 and what parameters are to be considered while selecting switches for ASA08. Kindly need clarity here.	ASA-08 Supplied switches need to be interfaced &integrated to ASA-06 with Open protocols for all types of monitoring. This will be discussed during detail design. Please refer Scope of allocation matrix S.No(5) FOTS, also refer 7.2.5.10 and 7.2.5.11 for details.

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				minimum down to an electronic card/module level, can be detected and be reported to the internal fault diagnostics system, which shall provide such fault information to the FOTS Management System		
51	Part-2	Section VI-B	7.2.1.14	All active electronic equipment and Fiber optic cable terminations shall be located in the telecommunication equipment rooms.	As per this clause all equipments should be inside the TER rooms. Does this mean, we cannot consider switches in the platform area or anywhere outside SCR/TER rooms? Kindly confirm.	Outdoor industrial grade switches can be placed based on the design at concourse, platform or any other outdoor locations.
52	Part-2	Section VI-B	7.2.2.4	FOTS Network shall allow the AFC Traffic for any third-party certification testing such as PCI-DSS	We understand that the third party certification testing such as PCI-DSS will be in ASA06 tender scope. Please confirm.	AFC will front end the testing, however FOTS network shall allow AFC traffic transparently. Please refer interface between AFC contractor and Telecom contractor S.no (1).The network configuration(like Network Segregation, Routing requirements),etc.) required for PCI-DSS Compliance will be given by the AFC contractor TO ASA-08 Contractor for implementation. The PCI-DSS certification testing is under the scope of ASA-08 contractor. Nevertheless ASA-08 contractor shall incorporate the Network configuration parameters as directed by the AFC team as part of PCI-DSS certification process.
53	Part-2	Section VI-B	7.2.5.4	All IP elements in the network shall support/be compliant to IPv6 addressing scheme	We understand that IP scheme for entire project will be in ASA06 contractor scope as Core switches are in ASA06 tender scope and will not be a responsibility under this tender. Kindly confirm	IP scheme will be decided during detail design duly meeting the interface requirements with ASA-06,ASA-08 Contractor. Please refer interface between ASA-06 and ASA-08 S.NO(7),Scope of allocation matrix S.No(5) FOTS.
54	Part-2	Section VI-B	7.2.5.9	Switch at OCC and BCC shall be Common for all 3 Corridors of CMRL phase II and Which shall be provided by other designated Telecom Contractor Core.	We understand that Core Switches that will be provided under tender ASA06 will be designed & provisioned with sufficient scalability to accommodate the network requirements under Tender ASA05 & tender ASA08 along with any future enhancements. Also, the ownership of connecting the entire network of ASA08 and creating the necessary Vlans, setting the network parameters will be in scope of contractor for ASA06. Contractor for ASA08 can only assist with any network connectivities, checks and trouble shootings for equipments supplied under ASA08. Kindly requesting confirmation here.	Please refer Scope of allocation matrix for FOTS S.no(5) remarks under testing & Commissioning . Also refer 7.2.5.10 and 7.2.5.11 for details.
55	Part-2	Section VI-B	7.2.9.1.4	NMS at OCC and BCC shall be Common for all 3 Corridors of CMRL phase II and shall be in other Corridor Telecom RFP Scope Which shall be provided by other designated Telecom Contractor -	We understand that all integrational requirements with centralized NMS at OCC & BCC will be in scope of tender ASA06 and not under the purview of ASA08. However, only assistance can be provided by contractor for ASA08 to ensure connectivity across all stations in this tender and also share the equipment details with contractor for ASA06 scope.	Please refer scope of allocation matrix S.NO(5)-FOTS, Remarks under NMS.
56	Part-2	Section VI-B	7.2.9.2	Two Laptop Service Terminals loaded with Network Management Software for maintenance access to the Network elements at various Node locations shall be provided.	We understand that only laptops to be provided under the provisions of this tender scope. Any NMS software for maintenance purposes will be provided by contractor under ASA06. Kindly confirm	Laptop shall be provided with required applicable software for system maintenance activities which shall be provided by this Contractor. Software applications which are under scope of other (OCC/BCC) Contractor need not to be provided by this contractor. Please follow tender conditions and for more details, please refer 13.21, Scope of allocation matrix and Appendix-D.

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57	Part-2	Section VI-B	7.3.2.2	The Operational status and performance of all the network elements shall be indicated using GUI functionality on a real-time basis by the FOTS Network Management system. The status monitoring shall be down to the card level as a minimum.	Please note that common NMS may not be able to detect card level fault. Switch level details may only be available.  Kindly confirm that the same is acceptable.	ASA-08 Supplied switches need to be interfaced &integrated to ASA-06 .Please refer scope of allocation matrix S.NO(5) -FOTS, Remarks under NMS.
58	Part-2	Section VI-B	7.7.1.2	In addition to the design requirements given in this Technical Specification, the Contractor shall submit the following information to the Engineer for review / approval: (a) Optical link budget calculations for all the transmission links.	Bidder/Contractor to provide optical link budget calculations only for ASA08 scope. The calculations pertaining to links originating from OCC and BCC will be ASA06 scope. Kindly need confirmation.	Telecom contractor needs to design optical link budget for their scope as per clause Scope of allocation matrix S.NO(5).Also refer 7.2.5.10 and 7.2.5.11 for details.
59	Part-2	Section VI-B	7.8.1.4	The maximum traffic interruption time on any circuit due to link, node or any other failure shall be less than 150 ms by using suitable open standard Ring protection protocols	Ensuring this interruptive time from OCC and BCC will not be in current tender scope. Under the provisions of this tender ASA08, this traffic interruption time can be ensured only at the station level or between stations connected without the OCC & BCC. Kindly need confirmation accordingly.	Please refer Scope of allocation matrix S.NO (5) FOTS - Remarks under Back End Equipment (Distribution Switch).
60	Part-2	Section VI-B	7.9.14.5	Prior to the design of the FOTS, the Contractor shall assess the data rates, bandwidth requirements and level of usage of each individual system that the FOTS is required to support and shall estimate total loading and submit such details for approval by the Engineer.	Bandwidth requirement and level of usage can done from OCC & BCC to estimate the loading. Hence contractor executing ASA06 to share these details and support to design the network to support the 53 stations and 1 depot.	Tender conditions prevail. Please refer Scope of allocation matrix S.No(5) FOTS. Also refer 7.2.5.10 and 7.2.5.11 for details.
61	Part-2	Section VI-B	7.9.14.7	Notwithstanding the RAMS target mentioned in the contract, the Contractor shall compile a traffic report of the FOTS for the approval of the Engineer after the 3 months trial run period to demonstrate that to all possible extent the system is able to achieve the grade of service requirements. Subsequently, a further report after 6 months of Revenue Service shall also be provided which will also detail the ability of the FOTS to satisfy the grade of service requirements. If the FOTS fails to meet the grade of service requirements, the Contractor shall re-configure the system and wherever necessary provide additional hardware, to ensure that the specified minimum equipped reserve capacity and additional spare capacity are maintained at no extra cost to the Engineer, and that the specified grade of service is achieved.	RAMS target mentioned in tis tender will be applicable only till the station level and between stations which are not connected via OCC/BCC. RAMS target for overall project will be in scope of contractor who will be executing ASA06. Kindly need confirmation.	ASA-08 Telecom contractor needs to consider RAMS for their scope. However, interface and integration has to be done with ASA-06 as per the Scope of allocation matrix.
62	Part-2	Section VI-B	7.9.4.4 & 7.9.13	The Security features shall support port filtering, enabling of individual ports to access only selected nodes, IP permit lists to prevent unauthorized access to the switch, Access Control Lists (ACL) to secure networks from unauthorized users, strong authentication and secure communications over un-secure channels for access to the network.  Security Features (a) Port based and policy based VLAN & Spanning tree (b) IP broadcast forwarding control. (c) Wire rate Access Control Lists - (d) Standard/Extended (e) IP permit lists (f) MAC address filtering based on Source and Destination Address (g) Private VLAN support/Port Isolation or equivalent (h) 802.1x Network Security and Authentication. Support for the 802.1x standard allows users to be authenticated regardless of which LAN port they are accessing, (i) IP Access Lists to limit telnet and SNMP access. (j) Local Command Accounting and logging	All these features are of Core switches and/or Central NMS functionality and hence the same will not be applicable for this tender ASA08. Kindly confirm accordingly.	Tender conditions prevail. Please refer Scope of allocation matrix S.No(5) FOTS. Also refer 7.2.5.10 and 7.2.5.11 for details

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63	Part-2	Section VI-B	Clause 4.2.2.1.7	<p>4.2.2.1.7 Vendor to indicate the focal length range for both wide &amp; 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> <p><b>Request to amend:</b></p> <p>4.2.2.1.7 Vendor to indicate the focal length range for both wide &amp; 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 - 1 potential free dry inputs, Outputs - 1 NO/NC changeover contact.</p>	Tender condition prevails.