

Prebid Queries and Responses - Lot 01
CMRL / PHASE – II / SYS / ASA05 / 2022
10-08-2022

SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
1	P1	I		CMRL invites digitally signed open e-tender through e-procurement portal from reputed, experienced, financially sound, eligible applicants, who fulfill the qualification criteria as mentioned in the tender through International Competitive Bidding (ICB) under Single Stage two Envelope (Technical & Financial) system for the works as detailed below which is proposed to be funded by New Development Bank (NDB):	These clause states about applied / proposed loan from NDB. Hope the referred loan has been sanctioned now. Please confirm.	Necessary loan arrangement for the subject tender is already sanctioned and will be handled by the Employer appropriately.
2	P1	I	2.1	The Borrower specified in the BDS has applied for or received a Loan from New Development Bank (hereinafter referred to as NDB), towards part of the cost for the project specified in the BDS. The Borrower intends to apply a portion of the proceeds of the Loan to eligible payments under the Contract(s) for which these Bidding Documents are issued.	These clause states about applied / proposed loan from NDB. Hope the referred loan has been sanctioned now. Please confirm.	Necessary loan arrangement for the subject tender is already sanctioned and will be handled by the Employer appropriately.
3	P1	I	20.3	(a) In the case of Fixed Price Contracts, the Contract Price shall be the Bid Price adjusted by the factor specified in the BDS. (b) In the case of Adjustable Price Contracts, to determine the Contract Price, the fixed portion of the Bid Price shall be adjusted by the factor specified in the BDS.	As per our understanding - 1) This is a Fixed Price Contract. 2) There are no separate Fixed and adjustable portion of the Bid Price. Please elaborate if any.	BDS 18.5 and Cl. 3.2 (Price Variation / Price adjustment) of Section IV - Bidding Forms are self-explanatory. Price adjustment is applicable as per above referred conditions. Non-adjustable (Fixed) component as defined in 'Schedule of Adjustment data' is the fixed component.
4	P1	I	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.	We request you to please amend this clause as follows - 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 name of any member of the JV as named in the letter of intent referred to in ITB 4.1 and ITB 11.2	In case of JV/Consortium, bid security can be submitted by Lead member of JV/Consortium. However, the Lead member of JV/Consortium shall be suitably authorized by all the members of JV/Consortium in this regard.
5	P1	I	General		As per our understanding- Power of Attorney is required to be submitted by each member for signing JV/Consortium Agreement and other Bid related documents. Please confirm if our understanding is correct.	In case the Bidder is a JV, the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives. The documentary evidence (power of attorney or Board resolution or equivalent) for legally authorized representative shall be submitted for each member.

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6	P1	I	ITB 21	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.	In case of a consortium, the Bid security shall be in the name of the Lead Bidder only, please confirm	In case of JV/Consortium, Bid Security can be submitted by Lead member of the JV/Consortium, and the lead member shall be suitably authorized by all the members of the JV/Consortium.
7	P1	II	1.2 (e.)	“Joint Venture” or “JV” means any combination of two or more 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.	As per our understanding, JV/ Consortium agreement need to be executed (duly notarized) on Non judicial Stamp Paper of Rs 100/- Please confirm if our understanding is correct.	Please refer Form SOB: Structure of the Bidder (Only for JV/Consortium).
8	P1	II	23.1	Bidders may submit their Bids by mail or by hand. Procedures for submission, sealing and marking are as follows: Bidders shall enclose the original of the Technical Bid, the original of the Price Bid, and each copy of the Technical Bid and of the Price Bid, including alternative Bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as “TECHNICAL BID - ORIGINAL”, “PRICE BID - ORIGINAL”, “TECHNICAL BID - COPY”, “PRICE BID - COPY”, and “ALTERNATIVE” as appropriate. These envelopes containing the original, the copies and the alternative(s), if any, shall then be enclosed in one single envelope. The rest of the procedure shall be in accordance with ITB 23.2 through 23.5	Referring to BDS, we understand 'TECHNICAL BID' and 'PRICE BID' need to be submitted online only on the website http://eprocure.gov.in/eprocure/app . Only the Original Demand Draft of Tender Fees and Bank Guarantee against Bid Security need to be submitted in person/post/courier on or before the bid submission due date to the office of Deputy Advisor (Signalling & Telecom). Please confirm if our understanding is correct.	Please refer BDS 11.2, BDS 21.2, BDS 22, BDS 23. Tender condition prevails.
9	P1	II	4.7 (d)	Authorized Representative of the JV shall be authorized to receive instructions for and on behalf of any or all Members of the Joint Venture.	As per our understanding- Only Authorised Signatory of Lead member of JV can sign and submit the Bid on behalf of JV/ Consortium. Please confirm.	In case of JV/Consortium, Bid can be signed and submitted by Lead member of JV/Consortium. However, the Lead member of JV/Consortium shall be suitably authorised by all the members of JV/Consortium in this regard.
10	P1	II	6. SUBMISSION OF BIDS	6. SUBMISSION OF BIDS a) Bidder should log into the CPP Portal site well in advance for bid submission so that they can upload the bid in time i.e. on or before the last date and time of bid submission. Attempting to upload the bid in the last minute, may result in JAVA or other related software failures and internet connectivity failures. Bidder will be solely responsible for any delay due to such issues or other related issues and CMRL does not take any responsibility towards bid submission failure in such circumstances.	Request to confirm uploading format for submission & size of each files. Request to increase size limit for submission documents to 100 MB.	Tender Condition Prevails.
11	P1	II	ITB 22	23. Submission, Sealing and Marking of Bids 23.1 Bidders may submit their Bids by mail or by hand. Procedures for submission, sealing and marking are as follows:	We understand these clauses are not applicable as bid submission is online only, please confirm.	Please refer BDS 23 which replaces ITB23. Tender Condition Prevails.

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				<p>Bidders shall enclose the original of the Technical Bid, the original of the Price Bid, and each copy of the Technical Bid and of the Price Bid, including alternative Bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as “TECHNICAL BID - ORIGINAL”, “PRICE BID - ORIGINAL”, “TECHNICAL BID - COPY”, “PRICE BID - COPY”, and “ALTERNATIVE” as appropriate. These envelopes containing the original, the copies and the alternative(s), if any, shall then be enclosed in one single envelope. The rest of the procedure shall be in accordance with ITB 23.2 through 23.5</p> <p>23.2 The inner and outer envelopes shall:</p> <p>(a) bear the name and address of the Bidder;</p> <p>(b) be addressed to the Employer in accordance with ITB 24.1; and</p> <p>(c) bear the specific identification of this bidding process specified in BDS 1.1</p> <p>23.3 The outer envelopes and the inner envelopes containing the Technical Bid shall bear a warning not to open before the time and date for the opening of Technical Bids, in accordance with ITB 27.1.</p> <p>23.4 The inner envelopes containing the Price Bid shall bear a warning not to open until advised by the Employer in accordance with ITB 27.7.</p> <p>23.5 If all envelopes are not sealed and marked as required, the Employer will assume no responsibility for the misplacement or premature opening of the Bid.</p> <p>24. Deadline for Submission of Bids</p> <p>24.1 Bids must be received by the Employer at the address and no later than the date and time specified in the BDS.</p> <p>24.2 The Employer may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with ITB 8, in which case all rights and obligations of the Employer and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.</p> <p>22. Format and Signing of Bid</p> <p>22.1 The Bidder shall prepare one original of the Technical Bid and one original of the Price Bid as described in ITB 11 and clearly mark it “TECHNICAL BID - ORIGINAL” and “PRICE BID - ORIGINAL”. Alternative Bids, if permitted in accordance with ITB 13, shall be clearly marked “ALTERNATIVE”. In addition, the Bidder shall submit copies of the Technical and Price Bids, in the</p>		

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				<p>number specified in the BDS and clearly mark them “COPY”. In the event of any discrepancy between the original and the copies, the original shall prevail.</p> <p>22.2 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid where entries or amendments have been made shall be signed or initialed by the person signing the Bid.</p> <p>22.3 In case the Bidder is a JV, the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.</p> <p>22.4 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.</p>		
12	P1	II	ITB 11.2 (C)	Technical Package: To be submitted at appropriate place i.e. Technical Envelope on CPP portal	We understand , bidder need to submit the Bid submittals through Online Submission and no hard copy submission is required except EMD BG. Kindly Confirm.	Please refer BDS 11.2 and BDS 22.1 which are self-explanatory.
13	P1	II	ITB 11.2 (B)	The original Bank Guarantee shall be from an Indian Scheduled Commercial Bank as defined in Section 2(e) of RBI Act 1934. Original Bid Security shall be submitted within the bid submission due date mentioned in the NIT at the address of CMRL given above.	Considering the Post Pandemic Scenario and the current recovery situation, kindly request you to Waive the Bid Security / EMD for this bid.	Tender Condition Prevails.
14	P1	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.
15	P1	II	ITB 2.1	The Borrower specified in the BDS has applied for or received a Loan from New Development Bank (hereinafter referred to as NDB), towards part of the cost for the project specified in the BDS	We would like to know whether the Loan is approved and received by New Development Bank for CMRL Package C4-ASA05	Necessary loan arrangement for the subject tender is already sanctioned and will be handled by the Employer appropriately.
16	P1	II	ITB 20.3 (b)	The fixed portion of the Bid Price shall not be adjusted.	As per our understanding - 1) This is a Fixed Price Contract. 2) There are no separate Fixed and adjustable portion of the Bid Price. Please elaborate if any.	BDS 18.5 and Cl. 3.2 (Price Variation / Price adjustment) of Section IV - Bidding Forms are self-explanatory. Price adjustment is applicable as per above referred conditions. Non-adjustable (Fixed) component as defined in 'Schedule of Adjustment data' is the fixed component.

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17	P1	II	ITB 21.1	The amount and currency of the Bid Security shall be INR 1,58,08,000 (Indian Rupees, One Crore Fifty Eight Lakhs and Eight Thousand Only) or USD 210,051 (US Dollars, Two Hundred Ten Thousand and Fifty One Only)	As per Notification No. F.9/4/2020-PPD from the Ministry of Finance, we request you to kindly accept EMD declaration instead of Bank Guarantee/Online Payment. We would like to inform you that recent tenders are issued with this EMD exemption clause.	Tender Condition Prevails.
18	P1	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.	Please refer BDS 11.2, 21.2, 22, 23.
19	P1	II	ITB 37.1	The date for the exchange rate shall be: 28 days prior to the stipulated date of submission of the Bid.	We understand the "Stipulated Date" of submission of the Bid is "06 Jul 2022" irrespective of the change in the submission date. Kindly Confirm.	Stipulated date of submission of bid means, the last date for submission of bid as indicated in NIT and as amended vide Corrigendum if any.
20	P1	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 "	This tender is based on Single Stage Two Envelope Bidding System. Initially the Technical Evaluation will be performed and the Results of the same will be published in CPP portal. Financial bids of the qualified/technically responsive bidders shall only be opened as per conditions of Contract. Tender Condition Prevails.
21	P1	II	ITB 4.7 ITB 1.2	Add a new Sub-Clause 4.7: Where the Bidder is a Joint Venture (JV), the Bidder shall submit the following additional information to meet the qualification criteria for eligibility: (a) A Memorandum of Understanding / JV Agreement shall be provided. (b) Nomination of one of the Members of the Joint Venture to be in-charge ("Lead member"); and this authorization shall be covered in the Power of Attorney signed by the legally authorized signatories of all Members of Joint Venture. (c) Details of the intended percentage participation by each member shall be furnished with complete details of the work distribution of project execution responsibilities. (d) Authorized Representative of the JV shall be authorized to receive instructions for and on behalf of any or all Members of the Joint Venture. (e) All members of the Joint Venture shall be jointly and severally responsible for the execution of the Contract in accordance with the terms and conditions of the Contract. (f) The Letter of Technical Bid and the Letter of Price Bid and other forms wherever required shall be stamped & signed by the authorized representative of the JV and shall be legally binding on all the Members of the JV. (e) "Joint Venture" or "JV" means any combination of	We understand Bidder can be a JV or a consortium please confirm.	Bidder can be a Single Entity or a JV or a Consortium.

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				two or more 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.		
22	P1	II	ITB 6.3	Failure to comply with the requirements of the Bidding Documents and failure to furnish all information required by the Bidding Documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect will be at the Bidder's risk and may result in rejection of its Bid.	We understand any clarification post submission with reference to the Documents submitted shall be obtained from the Bidder for further clarity. Kindly Confirm.	Tender Conditions in this regard are self-explanatory.
23	P1	III	1.1.1	Evaluation and Qualification Criteria (Without Prequalification) 1.1.1 Personnel The Bidder must demonstrate that it has the personnel for the key positions that meet the following requirements	Please confirm Personnel to be deployed for the project can be on Bidder/ Consortium/ Subcontractor/ OEM payroll.	Tender Condition Prevails.
24	P1	III	1.1.1	Evaluation and Qualification Criteria (Without Prequalification) 1.1.1 Personnel The Bidder must demonstrate that it has the personnel for the key positions that meet the following requirements Project Manager (to be Contractor's Representative under GC 4.3) -Experience in Similar Works (Minimum number of years)-12 Deputy Project Manager - Experience in Similar Works (Minimum number of years)-7	Request to modify as follows: Project Manager (to be Contractor's Representative under GC 4.3) -Experience in Similar Works (Minimum number of years)-5 Deputy Project Manager - Experience in Similar Works (Minimum number of years)-5	Tender Condition Prevails.

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25	P1	III	2.2.1 History of non-performing Contracts 2.2.2 Pending Litigation 2.2.3 Litigation History	<p>Non-performance of a Contract(i) did not occur as a result of Contractor's default since 1st January 2020.</p> <p>Form CON</p> <p>All pending litigation shall in total not represent more than Hundred percent (100%) of the Bidder's net worth and shall be treated as resolved against the Bidder.</p> <p>No consistent history of court/arbitral award decisions against the Bidder(iii) since 1st January 2017.</p> <p>Notes for the Bidder (i) Non-performance, as decided by the Employer, shall include all Contracts: (a) where non performance was not challenged by the Contractor, including through referral to the dispute resolution mechanism under the respective Contract, and (b) that were so challenged but fully settled against the Contractor. Non-performance shall not include Contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective Contract and where all appeal instances available to the Applicant have been exhausted. (ii) This requirement also applies to Contracts executed by the Bidder as a JV member. (iii) The Bidder shall provide accurate information on the related Bidding Form about any litigation or arbitration resulting from Contracts completed or ongoing under its execution over the last five (5) years. A consistent history of awards against the Bidder or any member of a joint venture may result in rejection of the Bid.</p>	Request to allow Bidder to furnish details as per Bidder Standard format.	Tender Condition Prevails.
26	P1	III	2.2.2	<p>All pending litigation shall in total not represent more than Hundred percent (100%) of the Bidder's net worth and shall be treated as resolved against the Bidder.</p>	Our understanding is that the pending litigations to be considered for Section III Evaluation and Qualification criteria, sub factor 2.2.2 pertain to those litigations where the Employer/End Customer/Main Contractor has filed a claim against the bidder or where the bidder has filed a claim against the Employer/End Customer/ Main Contractor. Please confirm.	Pending litigations which will impact the Bidder's Net worth shall be listed by the Bidder in the designated Form.

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27	P1	III	2.3.1	The audited balance sheets or, if not required by the law of the Bidder's country, other financial statements acceptable to the Employer, for the last (5) FIVE years shall be submitted and must demonstrate the current soundness of the Bidder's financial position and its prospective long term profitability.	As per our understanding any Bidder(Single/ Member of JV or Consortium) must have been established 5 years before the date of issue of NIT. Please confirm.	Bidder (Either Single bidder or each member of JV/Consortium) shall submit the annual financial statements of last five years duly complying to the condition stated in EQC. Tender condition is self-explanatory.
28	P1	III	2.3.2	2.3.2 Average Annual Turnover Minimum average annual turnover of INR 82 crores calculated as total certified payments received for Contracts in progress and/or completed, within the last FIVE (5) years divided by FIVE (5) years. Form FIN – 2	Request to allow Bidder to furnish turnover details as per Bidder Standard Financial formats.	Tender condition shall prevail
29	P1	III	2.4 Expereince	Expereince : Notes for the Bidder - (iii) Substantial completion shall be based on 80% (Financial progress) or more works completed under the Contract.	We request you to condier 80% of CAPEX value as substantial work completion ceriteria with the consideration of on-going projects in terms of general & similar expereince criterias. A duly signed certificate from the Client may be submitted mentioning that 80% CAPEX or more of the Project is complete. In such a case the completed project value must not be less than the minimum qualifying value of the stipulated project as has been asked in the tender.	Tender Condition Prevails.
30	P1	III	2.4.1	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 1st January 2015.	We understand projects with scope of Supply, Installation, Testing, commissioning can be considered for this criteria, please confirm.	Clause is self-explanatory.
31	P1	III	2.4.2 a	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 between 1st January 2012 and the bid submission deadline, 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 126 Cr.(ii) 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 79 Cr.(ii) or above; with at least 4 (four) subsystems out of FOTS/MAN, Tetra, PABX,	We understand projects with scope of Safe Cities/Smart cities/City-wide deployments consisting of Supply, Installation, Testing, commissioning can be considered for this criteria, please confirm.	Clause is self-explanatory.

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				<p>CCTV, PAS, PIDS, ACIDS, Master Clock in the scope of the work.</p> <p>Or</p> <p>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 63 Cr.(ii) 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>Notes for the Bidder</p> <p>(i) A Specialist Sub-contractor is the one who has executed Design, Supply, Installation, Testing and commissioning of telecommunications works with at least 4 (four) subsystems out of FOTS/MAN, Tetra, PABX, CCTV, PAS, PIDS, ACIDS as a turnkey Project.</p>		
32	P1	III	2.4.2 a	<p>1. Experience in the capacity of Telecom System Integrator (without Specialist subcontractor) either as Single entity or JV member(iv))</p> <p>OR</p> <p>2. Experience in the capacity of Telecom System Integrator as Specialist Subcontractor(i) must have been substantially(iii) completed between 1st January 2012 and the bid submission deadline, A minimum number of;</p> <p>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 126 Cr.(ii) 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>Or</p> <p>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 79 Cr.(ii) 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>Or</p> <p>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 63 Cr.(ii) or above; with at least 4 (four) subsystems out of FOTS/MAN, Tetra, PABX,</p>	<p>We understand for ACIDS, Access Control System deployed in Integrated Command Control Centre/ Data Centre/ Industrial Sites can be considered, please confirm.</p>	<p>Access Control System deployed in Metro Rail / Mono rail/ Mainline Railway projects/ Large Infra Projects shall be considered</p>

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33	P1	III	2.4.2 a	<p>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 between 1st January 2012 and the bid submission deadline, A minimum number of;</p> <p>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 126 Cr.(ii) 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 79 Cr.(ii) 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</p>	We understand for PABX criteria, EPABX System deployed in Integrated Command Control Centre/ Data Centre/ Industrial Sites or Emergency Call BoxSystem deployed in city wide projects can be considered, please confirm.	EPABX System deployed in Metro Rail / Mono Rail/ Mainline Railway projects/ Large Infra Projects shall be considered

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				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 63 Cr.(ii) 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.		
34	P1	III	2.4.2 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.	Bidder understanding is correct. 2.4.2(b) is not used hence this form is not applicable for bidder.
35	P1	III	2.4.2 Notes	Notes: (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) or Form EXP-2(b) 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.	We understand Client Go-live or Client partial Go live or client letter mentioning work in progress of more than 80% project scope completion shall be acceptable & no additional document shall be required for this criteria & for "The completed work shall be in satisfactory service for six months and shall be evidenced by submission of end-user certificates.", please confirm.	Tender condition is self-explanatory.
36	P1	III	2.4.2 Notes	Notes: (iv) For contracts under which the Bidder participated as a JV member or as a Specialist Subcontractor, only the Bidder's share, by value, shall be considered to meet this requirement. A JV entity, if bids for this work with the same arrangement as that of its any previous work, shall be evaluated as a Single Entity with respect to the Eligibility and Qualification criteria.	We understand where Projects executed as a Lead Bidder in consortium, then 100% scope & contract value to be considered for Lead Bidder, please confirm.	Tender condition is self-explanatory.

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37	P1	III	2.4.2 Notes for the Bidder	(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) or Form EXP-2(b) 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.	We understand that in Large Infra Projects Substantial completion means 80% completion of implementation phase. Kindly clarify	Tender Condition is self-explanatory.
38	P1	III	3.1.2	The Bidder shall quote his Lump Sum Price towards individual Price centers inclusive of all taxes, levies, duties, cess, insurance as per GST / Custom tariff act etc., and other charges leviable and payable to the authorities, including GST and customs duty. The Contractor shall be solely responsible for payment of all royalties, custom duties, custom clearances, port handling charges, freight and fees etc., for all imports. The Contractor shall be solely responsible for all statutory clearances, including customs, excise, taxes, levies, octroi, transportation etc. required for successful execution of this Contract. However, 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 & Table 4.3.2 below and as per associated terms & conditions therein	Please confirm BOCW is applicable at 1 % of total contract price	Statutory deductions including IT TDS, GST TDS, BOCW Cess etc., as applicable as per prevailing law shall be deducted from Contractor's running bills as part of statutory compliances.
39	P1	III	3.1.5	As single rate of custom duty is available under project imports scheme under heading 98.01 of Custom Tariff Act 1975 for import of capital goods, the advantage of the same may be considered under project import scheme. After award of the Contract, Employer at the written request of a contractor shall facilitate the contractor for obtaining sponsoring / recommendation letter from the Ministry of Urban Development (MoUD)/ GOI for getting themselves registered for availing Project Import benefits. However, the responsibility to avail the concessional benefits under Project Import or otherwise as extended in accordance with the law of the land shall solely rest with the Contractor.	We understand that , Employer will issue necessary documents for imports at concessional rate under projects imports (98.01) by contractor and sub-contractor . Please confirm	Concessional duty benefit under Project Import scheme is available for this project. The successful bidder is required to take ownership of availing of this benefit. Employer will provide necessary assistance including sponsorship certificate in this regard. Tender condition prevails.
40	P1	III	EQC 2.i (b)	Value of single Contract - Exchange rate prevailing on the date of the Contract	Kindly request you to consider the exchange Rate as "28 days prior to the stipulated date of submission of the Bid" for arriving at the Value of Single Contract.	Tender Condition Prevails.

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41	P1	IV	3.1.2	The Bidder shall quote his Lump Sum Price towards individual Price centers inclusive of all taxes, levies, duties, cess, insurance as per GST / Custom tariff act etc., and other charges leviable and payable to the authorities, including GST and customs duty. The Contractor shall be solely responsible for payment of all royalties, custom duties, custom clearances, port handling charges, freight and fees etc., for all imports. The Contractor shall be solely responsible for all statutory clearances, including customs, excise, taxes, levies, octroi, transportation etc. required for successful execution of this Contract. However, 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 & Table 4.3.2 below and as per associated terms & conditions therein.	There may be a scenario where duties may get amended/revised as per Govt. norms. Please confirm whether the customer(CMRL) will reimburse /charge that applicable Custom duty at actuals or not. Please confirm.	Note No. 6 provided under Table 4.3.2 of Part 1 - Section IV - Bidding Forms is self-explanatory. Tender condition prevails.
42	P1	IV	3.1.2 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 & Table 4.3.2 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 & Table 4.3.2	Tender conditions in this regard are self-explanatory.
43	P1	IV	4.1.11	4.1.11 The 'Manufacturing and Delivery for Telecommunication systems' for all the stages of Corridor 4 involves substantially the obligations and ongoing activities including but not limited to the following: g) Delivery of CDRS equipment including softwares and associated accessories at Contractor's premises in Chennai.	Request is being made to clarify whether servers for CDRS shall be the scope of ASA-05 Contractor. if yes, kindly amend the requirement as g) Delivery of CDRS equipment including hardwares, softwares and associated accessories at Contractor's premises in Chennai.	Supply of CDRS servers is not part of ASA05 Contractor. Please refer revised bid condition in Addendum 1
44	P1	IV	4.1.11	4.1.11 The 'Manufacturing and Delivery for Telecommunication systems' for all the stages of Corridor 4 involves substantially the obligations and ongoing activities including but not limited to the following: j) All controller work stations, furniture, cabinets and all necessary inter-connecting cables & switches.	Kindly confirm if controller workstations at OCC, BCC for C4 shall be part of ASA-05 Contractor scope.	It shall be provided by ASA06 Contractor
45	P1	IV	4.1.11 PDF pg.No 83	The 'Manufacturing and Delivery for Telecommunication systems' for all the stages of Corridor 4 involves substantially the obligations and ongoing activities including but not limited to the following: i) Delivery of Telecom SCADA equipment including software and associated accessories at Contractor's premises in Chennai.	Request to remove this clause as per Part-2, Section – VI B (Technical Specifications), CHAPTER 12, 12. INTERFACES, 12.11 Interface with T-SCADA System, 12.11.1.2 Telecom SCADA system shall not be part of this RFP and shall be provided by other designated OCC/BCC contractor as part of other corridor Telecom contract.	Please refer revised bid condition in Addendum 1

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46	P1	IV	4.1.14 (xv) 4.1.14 (xvi)	1.The Deployment of the Experts under the Price Centre ‘Training’ (30 Manweeks) may not be continuous, and they may be required to supervise the maintenance /on the job training in short periods at a time as required by the Employer. 2.The manweeks specified in Price Centre / BOQ for ‘Maintenance Assistance’ (52 Manweeks) and Training (30 Manweeks) are tentative and will be considered for bid evaluation.	There are two different scenarios given in tender doc regarding training of employer's personnel. Please confirm which one to be followed by Bidder / Contractors.	Man months for Training shall be 30 weeks and for Maintenance assistance shall be 52 weeks.
47	P1	IV	4.1.7 Bidding Forms	Payment of the Contract Price shall be made in the currency or currencies in which the Bid Price is expressed in the Bid of the successful Bidder.	Kindly request you to consider the payment of the contract Price as mentioned in the Currency or its corresponding Equivalent to INR / USD / EURO . This would allow the bidders to plan the supply payment during the project execution.	Tender Condition Prevails.
48	P1	IV	4.2.1	BOQ for Price Centre ‘E’ – Contract Spares, Special tools, Testing Equipments, Measuring Instruments and Furnitures, Maintenance assistance:	Please elaborate on Number of supervisory maintenance staff required along with qualifications and required man months during operations and maintenance period.	Required Man months is already mentioned in Section IV
49	P1	IV	4.2.2	BOQ for Price Centre ‘F’ – Training and Operation & Maintenance Manual:	Please elaborate on Number of supervisory maintenance staff required along with qualifications and required man months during operations and maintenance period.	Required Man months is already mentioned in Section IV
50	P1	IV	4.3.2.6 Bidding Forms	If any rates of tax are increased or decreased, a new tax is introduced, an existing tax is abolished in the course of performance of contract, an equitable adjustment of the contract price shall be made to fully take into account any such change by addition to the contract price or deduction therefrom, as the case may be.	We understand that any rates of Tax or Custom Duties are increased or decreased, an equitable adjustment of the contract price shall be made to fully take into account any such change by addition to the contract price or deduction therefrom. Kindly Confirm.	Tender conditions in this regard are self-explanatory.
51	P1	IV	4.3.2: Overview of Contract Price:	If any rates of tax are increased or decreased, a new tax is introduced, an existing tax is abolished in the course of performance of contract, an equitable adjustment of the contract price shall be made to fully take into account any such change by addition to the contract price or deduction therefrom, as the case may be.	Please confirm whether this is applicable for taxes, duties , levies. Removal of exemption if any , please provide clarity	Tender condition is self-explanatory.
52	P1	IV	9. Form of Bid Security (Bank Guarantee)	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	Tender Condition Prevails.

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					or demand for payment under this Bid Guarantee on or before _____ (DD/MM/YYYY). failing which our liability under the guarantee will automatically cease.	
53	P1	IV	Form FIN-2: AVERAGE ANNUAL TURNOVER	Form FIN-2: AVERAGE ANNUAL TURNOVER	Average Annual Construction Turnover- We understand Average Annual Turnover shall be of ICT/ IT system integration Services / ITES/ Datacentres/ Smart Cities, please confirm	Tender condition is self-explanatory.
54	P1	IV	Form FIR -1: Financial Resources	Notes for the Bidders 1. Sources of financing may include working capital (to be taken from FIN-1), Credit Line (to be substantiated by a letter from the bank issuing the line of credit), etc.	Request to allow Bank letter to be as per Bidder/ Bank standard format	Tender Condition Prevails.
55	P1	IV	General	General	Please provide clarity. though Labour Cess is included in the price, the compliance under BOCW and payment of labour cess to be done by customer.	Contractor is solely responsible for all the statutory compliances.
56	P1	IV	General	General	Please confirm whether customer has any concession / exemption available in applicable in GST being Metro. Whether customer requires any specific SAC code, please confirm.	Cl. 3.1.5 of Section IV - Bidding Forms is self-explanatory.
57	P1	IV	General	General	Please confirm whether Customer expects to bid with concession rate of customs duty under project import license under heading 98.01. Please provide clarity who will be importer on record in this case.	Cl. 3.1.5 of Section IV - Bidding Forms is self-explanatory.
58	P1	IV	General	General	Please confirm whether customer will reimburse customs duty at actuals if Bidder is unable to get registered under 98.01 due to lack of documents, change in rule before we start execution or during tenor of contract.	Note No. 6 provided under Table 4.3.2 of Part 1 - Section IV - Bidding Forms is self-explanatory. Tender condition prevails.
59	P1	IV	General	General	Please confirm which all documents need to be provided to claim GST & customs duty reimbursement.	Note No. 6 provided under Table 4.3.2 of Part 1 - Section IV - Bidding Forms is self-explanatory. Tender condition prevails.
60	P1	IV	General	General	Please confirm whether customer shall place separate order on HAIL Jebel Ali or HAIL India in foreign currency.	LOA will be issued to the Successful Bidder, in the same arrangement (Single Entity / JV / Consortium) on which it has participated in the Bid.
61	P1	IV	General	General	Please provide clarity on applicability of foreign exchange variation. Do Bidder need to pay difference to customer for this regards, please confirm	Cl. 4.1.7 of Part 1 - Section IV - Bidding Forms is self-explanatory.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
62	P1	IV	General	General	Kindly provide clarity on Make In India Policy.	Since the subject tender is funded by NDB, Make in India condition is not applicable.
63	P2	VI A	1.2 Appendix-15	The Spare Parts to be supplied by the Contractor shall consist of: a) Contract Spares (as hereinafter defined); b) Commissioning Spares (as hereinafter defined); and c) Defects Liability Spares (as hereinafter defined).	Please confirm if the left out spares from contract & commissioning portion can be carried forward to DLP spares which will facilitate better cost optimization.	It can be. (Only if it is unused and in packed condition)
64	P2	VI A	2.4	The Contractor shall be required to provide appropriate training to all personnel in the operation of the Quality Management System and maintain records to demonstrate competence in its application.	Please clarify about the Audience / no. of trainees and no. of batches to whom training to be provided.	Required details shall be finalised as per O&M plan of CMRL and shall be communicated to contractor before training.
65	P2	VI A	6.1.4	"3 nos user licenses cost for Primavera P6 Enterprise Project Portfolio Management Cloud Service (1 No. each to be used by the Contractor, the Engineer and the Employer. Please note that the Contractor can ask for more licenses if he wish to but strictly on his cost	We understand client already has a PMIS software and bidder do not have to provide any lic. fo the PMIS . Please confirm if our understanding is correct.	Clause is self-explanatory. Cost shall be borne by Contractor for required licenses.
66	P2	VI A	6.1.5	"Min. 15 nos user licenses cost for Primavera P6 Enterprise Project Portfolio Management Web Services Cloud Service (5 No. each to be used by the Contractor, the Engineer and the Employer. Please note that the Contractor can ask for more licenses if he wish to but strictly on his cost"	We understand client already has a PMIS software and bidder do not have to provide any lic. fo the PMIS . Please confirm if our understanding is correct.	CMRL has implemented PMIS software already but required no's of licenses cost as per tender condition shall be borne by Contractor for required licenses.
67	P2	VI A	8.1.4.1	(1) Cloud based server (The Employer will be acquiring the common cloud based server for all contract packages of phase 2 and back charge the proportionate cost of the Server, Cloud services and the manage services of the cloud server to each contractor	Requesting to clarify if the Cloud Based Server, Cloud Services to be provided and managed by the Contractor and back charged to the Employer/Customer	This is regarding PMIS solution which shall be in place for overall CMRL phase 2 project management. Telecom Contractor shall be required to purchase license as per the requirement given in clauses.
68	P2	VI A	General Query		Our design assumptions will be based upon drawing provided in the bid and hence in case there is any variance between As built drawing and the drawing provided in bid, Contractor shall be entitled to such EOT and Payments due to increase in Cost adjustments to the Contract Price for each Variation due to change in Design/ Drawings of the Stations. Kindly confirm	This shall be based on change in design analysis and impact on Telecom requirement. Contractor shall submit the impact analysis to Engineer and Employer for review. Employer decision shall be final.
69	P2	VI B		General	Request to kindly provide a minimum BOQ quantity required in the project.	Tender is based on Design and built requirement. Please follow the tender conditions.
70	P2	VI B		General	Kindly provide details with respect to Receiving Sub Station RSS for ASA-05 Scope.	Two RSS's are provided in Corridor 4 One is at Alwarthiru Nagar, Other at Poonamalle Depot
71	P2	VI B		General	Kindly provide detail with respect to number of elevated and underground stations.	Total Number of stations are 27 in Corridor 4 ,in which 18 stations are elevated ,9 stations are underground along with One depot at Poonamalle
72	P2	VI B		General	FOTS: There is no requirment of Industrial grade switches in the RFP so we understand commercial garde switches can be offerd in the project. Kindly confirm if our understanding is correct.	Industrial switch requirement has been given in clause no 7.1.3 , 7.2.6.2 & 8.3 etc.

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73	P2	VI B		General	Kindly provide details with respect to station that has parking	Parking details are provided in Stations drawings. Kindly refer station drawings
74	P2	VI B		General	We understand contractor of ASA05 scope is limited to provide only telephone sets and do cabling only for the supplied telephone. While all other equipments such as EPBX, and front end software shall be provided by other contractor. Please confirm if our understanding is correct.	EPBX, Analogue Gateways and software shall be provided by other contractors. Rest of the items required at stations, Tunnels and depot shall be under scope of this RFP.
75	P2	VI B	APPENDIX – A 1. CENTRALISED PASSENGER INFORMATION SYSTEM 1.1.8 (3.)	The output of the PAS Amplifier should be tapped and recorded automatically either locally or remotely at OCC / BCC, so that record of the actual announcement made can be analyzed at a later date. The record to be kept for 2 weeks.	Request to modify as follows: The output of the PA Amplifier or controller should be tapped and recorded automatically at local and remote level at OCC/BCC, so that record of actual announcement made can be analysed later. The records shall be kept for 15 days. Justification:- Recording output may be available at amplifier or controller separately for available individual channels	Please refer revised bid condition in Addendum 1
76	P2	VI B	1.11	Integrated test lab at employer site	Integrated test lab can it be setup apart from employer site , as there will be lot of resources	Lab set up shall be required at employer site. Tender condition shall prevail.
77	P2	VI B	1.11 ACIDS	4. In addition to Access Control System there shall be a provision of attendance system using bio-metric (thumb or facial) access point reader at station, depot, OCC & BCC and RSS.. There should be provision for the generation and integration of attendance report to HR Systems through the network.	We understand this shall be taken care by Other designated Contractor including supply of such bio-metric readers, kindly confirm.	Please refer revised bid condition addendum 1
78	P2	VI B	1.11 ACIDS	1.16 Fault and Alarm Monitoring (a) The system shall be equipped with a self-diagnostic fault management system which shall monitor, display and time-stamp the events, alarm and equipment fault status on a real-time basis at each site. (b) The central servers in the OCC & BCC shall also display the operational state of the entire Access Control and Intrusion Detection system at all sites. i. The system shall store alarms in the database for future analyses. ii. High level alarms shall be shown on the Central Telecomm. Fault Reporting System Workstations.	OCC, BCC, Fault Reporting system workstations shall be scope of which contractor? Fault reporting system workstation refers T-SCADA system? Please confirm.	Fault reporting system refers to T-SCADA system which shall be provided by OCC/BCC contractor.
79	P2	VI B	1.14.1.27	During installation contractor to keep following furniture at each site, preferably at TER through out project execution	Since the same kind of furniture in SER is provided by a furniture vendor, the same vendor shall provide in TER / SCR as well for aesthetics point of view. Hence request to remove from our scope of works & kindly confirm.	Tender Condition shall prevail.

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80	P2	VI B	1.14.4.3.a	Specifications, sample of all the mounting brackets, Base frame, False floor and accessories	We shall not be providing the Base Frame, False flooring, etc. The same shall be in Civil Contractor's scope. Kindly confirm.	Please refer revised bid condition in Addendum 1
81	P2	VI B	1.14.7.18	No cable joint should be allow on track	some area technically wont be possible to NO joints , please clarify the if the stituation arises	Please follow tender conditions.
82	P2	VI B	1.14.7.6	The Contractor shall make any wall and slab openings, including the temporary removal of architectural finishes that shall be required for his cabling. After cabling is completed, the Contractor shall seal these openings with fire resistant materials and restore the architectural finishes and fire resistance to their original state.	This clause is contradicting with the Clause No. 1.14.6.1, the same shall be in Civil contractor's scope. Kindly remove from our scope.	Please refer revised bid condition in Addendum 1
83	P2	VI B	1.14.7.7	Local and statutory body involvement and approval is contrators responsibilty	local and statutory approval how contractor can take on the behalf of employers , its should be in employers domain please clarify	All processes, liaison, identification of required certification etc shall be done by contractor. Contractor shall obtain authorised signatory from employer wherever applicable. Rest of all process, cost and responsibilities shall be borne by Contractor.
84	P2	VI B	1.16g	Telecom contractor shall interface access control system with Access point controllers and card/biometric readers of other OEM's for other upcoming corridors of CMRL Phase 2.	<p>The respective OEM for ACIDS should provide respective programming software with APIs to integrate with the OCC/BCC software. Kindly confirm.</p> <p>Hecne please include the below clause in order to exceute the functional requirement of interface between the stations & OCC/BCC smoothly.</p> <p>"The contractor shall provide the programming/configuration software for the respective systems & the integration with OCC/BCC Software shall happen through the open interfaces such as API/SDK.</p> <p>The above clause shall be applicable for all similar sub-systems of the Telecommunication System."</p>	Please refer revised Bid condition in Addendum 1
85	P2	VI B	1.17.5.4	The Installation Test shall not be started unless the test procedures have been reviewed with NOC/NOSC by the Engineer .	We presume that NOC ,mentioned in this clause is "No Objection Certificate". Please confirm & also clarify on what is NOSC.	Please refer revised bid condition in Addendum 1

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86	P2	VI B	1.18.3.3	The training shall be organized both on shore & off shore at Contractors / sub Contractor's / OEM Works (a) Training of Employer's personnel (300 man-days) overseas in OEM premises (b) 100 days for training of Employer's Operating personnel in India (c) 100 days for training of Employer's Maintenance personnel in India. Above mentioned training days will be further break down into stages/batches and training plan along with schedule will be submitted by Telecom Contractor for Engineer's review and approval	There are two different scenarios given in tender doc regarding training of employer's personnel. Please confirm which one to be followed by Bidder / Contractors.	Please refer revised bid condition in Addendum 1
87	P2	VI B	1.18.3.4	Involvement of employer	Please clarify level of employers involvement for knowledge sharing	Tender condition shall prevail
88	P2	VI B	1.3	"Maintenance Laptop with accessories fully loaded with PAS/PIDS OEM application"	We understand contractor of ASA05 scope do not include provision of PAS/PIDS OEM application. So we have to only provide laptop while the PAS/PIDS OEM application shall be installed and provided by others. Please confirm if our understanding is correct.	Laptop shall be provided with required applicable softwares 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.
89	P2	VI B	1.4	"CCTV laptop with preloaded software"	We understand contractor of ASA05 scope do not include provision of CCTV application. So we have to only provide laptop while the CCTV Application shall be installed and provided by others. Please confirm if our understanding is correct.	Integrated Security Management system (ISMS) and Video Management system are not under the scope of this RFP, however any related application if applicable regarding CCTV & ACIDS equipment required for configuration and maintenance shall be preloaded by ASA05 Contractor also.
90	P2	VI B	1.4.1	28 Stations are present with names only.	Need details with type of stations like elevated, underground.	Total 27 Stations are there in Corridor 4, in which 18 Stations are Elevated ,and 9 stations are Underground along with one depot at Poonamalle
91	P2	VI B	1.4.1.d	d. Power Supply and Electrification There are 12 Receiving Sub Stations for all the 3 corridors of Phase-2.	Kindly let us know, how many RSS [Receiving Sub Station] are there in the Corridor 4 and at which locations.	Two RSS's are in Corridor 4 One is at Alwarthiru Nagar, Other one is at Poonamalle Depot
92	P2	VI B	1.4.2.6	System Manufacturer expert (other than system integrator expert) minimum man days required per Section / Stage at site	Need Clarity on Minimum days requirement at site whether OEM/SI/Sub-Contractor	Referred clause is self-explanatory. All requirement in this clause is meant for Manufacturer (OEM) only for various activities.
93	P2	VI B	1.4.4.1	Standard to be follow	standard shared may not be applicable fully can employer share list of revelvent standard causes out of standards	Clause is self-explanatory. Please follow bid conditions.
94	P2	VI B	1.5.1	To achieve a completely integrated system, there is a need for the integration of Telecom subsystems and the IBMS in each of the stations and at the OCC & BCC level. To achieve this, it would be important that each of the NMS of Telecom subsystems should possess a framework, to be able to integrate with a third party centralized IBMS/SCADA system and its applications for enabling the relaying of its status and alarm information	In Detail scope of System Integrator.	Please refer revised bid condition in Addendum 1

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95	P2	VI B	1.5.3	The Contractor / SI shall provide DB (Distribution Board) in rooms like SCR, DCC and any other major equipment room for further distribution of UPS power to HTMLs & other equipment pertaining to Communication System shall be extended from TER by the Contractor/SI. The DB shall be fed from the main UPS MCCB provided by designated contractor in UPS Room.	Please clarify, what is HTMLs.	Please refer revised bid condition in Addendum 1.
96	P2	VI B	1.6.3.2(b) and Appendix H	As per 1.6.3.2(b):Design, Supply, and Installation of Base Frame, under False Floor Cable Trays with required risers for wall mounted units in TER of Stations / Depot and under false floor cable trays in SCR. As per Appendix H: BASE FRAME, FALSE FLOOR AND UNDER FALSE FLOOR CABLE TRAYS WITH REQUIRED RISERS FOR WALL MOUNTED UNITS IN TER/CER	The bidder have to do Under false floor cable work only or Cable tray as well as False Flooring work in TER room .Please confirm	Please refer revised bid condition in Addendum 1
97	P2	VI B	1.6 Scope of the Works	1.6.3.4 In The Priority Section, Telecom Contractor shall interface with OCC/BCC designated contractor to establish temporary OCC (with full functionality) and associated central control sub systems / servers, work station, client terminals ,consoles, MS , dispatchers , control panels and interfaces along with stations' Telecom Sub systems as mentioned in relevant GS & PS . Telecom contractor to install, commission and configure all functionalities as per specifications and offer acceptance tests for validation as per approved test procedures. Once Permanent OCC is made available for installation and commissioning of systems, Telecom Contractor shall interface with designated OCC/BCC Contractor for remobilizing all equipment from temporary OCC to permanent OCC without any disruption to services in priority section and without any extra cost to CMRL.	Kindly mention the location for temporary OCC and final OCC or the distance between them.	Please refer Addendum 1 for revised bid condition.
98	P2	VI B	1.6.3.4	In The Priority Section, Telecom Contractor shall interface with OCC/BCC designated contractor to establish temporary OCC (with full functionality) and associated central control sub systems / servers, work station, client terminals ,consoles, MS , dispatchers , control panels and interfaces along with stations' Telecom Sub systems as mentioned in relevant GS & PS.	As per requirement, Telecom contractor will install, commission and configure the system with all functionalities as per specifications in temporary OCC. Please confirm the location of temporary OCC.	Please refer Addendum 1 for revised bid condition
99	P2	VI B	1.6.3.4	In The Priority Section, Telecom Contractor shall interface with OCC/BCC designated contractor to establish temporary OCC (with full functionality) and associated central control sub systems / servers, work station, client terminals ,consoles, MS , dispatchers ,	Kindly mention which section is considered as 'priority section'.	Stage 1 is considered as "Priority Section"

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
				control panels and interfaces along with stations' Telecom Sub systems as mentioned in relevant GS & PS.		
100	P2	VI B	1.6.3.4	In The Priority Section, Telecom Contractor shall interface with OCC/BCC designated contractor to establish temporary OCC (with full functionality) and associated central control sub systems / servers, work station, client terminals ,consoles, MS , dispatchers, control panels and interfaces along with stations' Telecom Sub systems as mentioned in relevant GS & PS	This is a contradictory clause compared to various statements in Employer Requirements. This clause state that bidder has to provision for all Central Control equipment including hardware and software whereas it has been mentioned that OCC/BCC hardware & software is not in scope of Bidder. Pls clarify. Also provide the locations for temporary OCC & BCC	Please refer Addendum 1 for revised bid condition
101	P2	VI B	1.6.3.4	In The Priority Section, Telecom Contractor shall interface with OCC/BCC designated contractor to establish temporary OCC (with full functionality) and associated central control sub systems / servers, work station, client terminals ,consoles, MS , dispatchers , control panels and interfaces along with stations' Telecom Sub systems as mentioned in relevant GS & PS	Kindly clarify the location of the temporary OCC along with relevant technical details and distance between the temporary & permanent OCC.	Please refer revised bid condition in Addendum1
102	P2	VI B	1.6.3.4	"In The Priority Section, Telecom Contractor shall interface with OCC/BCC designated contractor to establish temporary OCC (with full functionality) and associated central control sub systems / servers, work station, client terminals ,consoles, MS , dispatchers , control panels and interfaces along with stations' Telecom Sub systems as mentioned in relevant GS & PS"	We understand the OCC and BCC is not part of this project scope. So temporary OCC is also not part of this project scope. Please confirm if our understanding is correct. In a case Temporary OCC is part of the bidder/contractor of ASA-05 kindly provide detailed scope for the same. Also kindly provide detailed scope for the Priority section	Please refer Addendum 1 for revised bid condition.
103	P2	VI B	1.6.3.4 & 13.21.1.2	Telecom Contractor shall interface with OCC/BCC designated contractor to establish temporary OCC (with full functionality) and associated central control sub systems / servers, work station, client terminals ,consoles, MS , dispatchers, control panels and interfaces along with stations' Telecom Sub systems as mentioned in relevant GS & PS Shall interface for Corridor 4 FOTS to OCC/BCC Core switch by providing desired open standard to ASA 06 Telecom Contractor for successful integration. Shall prepare interface document jointly with ASA 06 and provide required open standard based interface for successful integration.	As per understanding both core switches (primary and secondary) in temporary OCC will be provided by other contractor as part of ASA06. Kindly confirm.	Please refer revised bid condition for clause 1.6.3.4 in addendum 1
104	P2	VI B	1.6.4 Work excluded from this Contract	1.6.4.2 Train-borne System (except train born radio subsystem and accessories) shall not be supplied as part of this contract	Request is being made to kindly amend the clause as 1.6.4.2 Train-borne System including train borne radio subsystem and accessories shall not be supplied as part of this contract.	Please refer revised Bid condition Addendum 1

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
105	P2	VI B	1.6.4.2	Train-borne System (except train born radio subsystem and accessories) shall not be supplied as part of this contract	Need Clarity on Train borne system	Please refer revised bid condition in Addendum 1
106	P2	VI B	1.7.4.12	Train-borne System (except train born radio subsystem and accessories) shall not be supplied as part of this contract	We think this is a typographic error. Train-borne system including train born radio subsystem and accessories shall not be supplied as part of this contract. Pls update the clause	Please refer revised bid condition in Addendum 1
107	P2	VI B	1.9 Video Wall Application	c. , clauses i to xi.	The described incident management system (i to xi) is mentioned under 1.9 Video Wall application. Kindly clarify if this shall be read as a separate sub-section under APPENDIX – B, INTEGRATED SECURITY MANAGEMENT SYSTEM (ISMS), to be supplied by other designated OCC/BCC contractor as part of ISMS solution, whereas Video Wall application shall be provided by S&TC Contractor. Please confirm.	Integrated Security Management system (ISMS) and Video Management system are not under the scope of this RFP. Contractor shall interface with OCC/BCC CCTV Contractor for seamless integration of Station and Depot CCTV system. Video wall application shall be provided by S&TC Contractor.
108	P2	VI B	1.9.1.4	contractor key staff should be located in chennai	Key design resources location need relaxesion	Please follow tender conditions.
109	P2	VI B	10.3.6.2	10.3.6.2 Shall be integrated with OCC/BCC Management software which shall be provided by other Designated Telecom Contractor. Contractor shall interface on open API's for successful integration.	No scope of integration clear from this statement as OCC/BCC not part of ASA 05 and integration system servers will be installed at OCC/BCC for most of the cases	Referred clause is for NMS interface requirement which is clarified in tender already.
110	P2	VI B	10.3.10	PIDS management software	Please note RFP part 2 section VI B 3.3.15.24.1 where is mention PIDS central server is not part of the RFP , Please clarify 10.3.10 section whoes responsibility ?	Please refer Addendum 1 for revised bid condition
111	P2	VI B	10.3.8 , 10.3.8.1 to 10.3.8.8	ACID management software	Please note RFP part 2 section VI B 5.5.1where is mention central access server is not part of the RFP , Please clarify 10.3.8 section whoes responsibility ?	Please refer Addendum 1 for revised bid condition
112	P2	VI B	10.3.9	PAS management software		Query not available
113	P2	VI B	11.1.1.7	The Contractor shall satisfy the Engineer by producing certificate from a recognized testing laboratory or otherwise that the materials used and the cable itself is of the highest possible standards and complies with all relevant specifications. In case of no relevant test certificates being available tests shall be carried out by the Contractor (manufacturer) as those laid down with relevant specification but this shall not preclude any test desired by the Engineer to determine the quality of the cable. For Cables as per RDSO/TEC specifications, the Contractor shall have to get the cables inspected by RDSO /TEC and all cost therein has to be borne by the Contractor.	We understand that if offered cables are not as per RDSO/TEC specs, the bidder shall satisfy the Engineer by producing certificate from a recognized testing laboratory. In such case inspection by RDSO/TEC is not mandatory. However inspection shall be done by third party inspection agency. Kindly confirm if understaing is correct.	Tender condition shall prevail.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
114	P2	VI B	11.1.1.8	CMRL may select five random samples for each type of cable and send it for Independent Testing from a Government approved testing Lab. The Contractor shall coordinate the testing and bear all the costs therein.	To estimate the testing cost and its implication, kindly specify the tests which are to be conducted on cable in Independent lab.	Required testing parameter list as per the Tender condition shall be finalised during design stage based on the proposed cables by Contractor.
115	P2	VI B	11.2.1.3 and 11.2.1.4	Opticle fiber requirement	Please reconfirm requirement as single mode fiber and multimode fiber requirement are same	Please refer revised bid condition in Addendum 1.
116	P2	VI B	11.2.1.4	Optical Requirements–Multi Mode Fiber Type Single Mode Mode Field Diameter(nominal) depressed clad Fiber 9.5µm ±10% matched clad Fiber9µm ±10% Mode field concentricity error<1.0µm Cladding Diameter 125µm ±2µm	The Required Specifications mentioned for multi Mode -Fiber are same as for Single mode which is not possible to meet. Hence request to change the required specs for multi mode -Fiber	Please refer revised bid condition in Addendum 1.
117	P2	VI B	11.6.1	The mounting brackets, Secondary Fixtures for CCTV, PIDS, PAS, Clocks and other Telecom equipment and mounting accessories should be manufactured from AISI316L stainless steel, these accessories shall be designed to meet every mounting requirements in the most severe and corrosive environments along with aesthetics requirement of station / building architecture	Need Clarity on Stainless Steel fixture make.	There is no specific make. Bidder shall follow the provided specifications and shall submit for approval during design stage.
118	P2	VI B	11.7.3	Viewing Area 60.0 x 58.4	Request to generalize the clause for wider OEM participation	Please refer revised Bid condition in Addendum 1.
119	P2	VI B	11.7.3	Cable Length via TDR 0-2000 ft.	Request to amend it to 0-1500 ft, for wider OEM participation	Please refer revised bid condition addendum 1
120	P2	VI B				Query not clear
121	P2	VI B	12.1	Subsystem Interfaces	Please confirm the functionality requirement of PIDS interface with the CCTV system.	Please refer revised bid condition in Addendum 1
122	P2	VI B	12.3.3.3	Timetable data and real-time data shall be provided to the PIDS central server from Signalling System in the SER to enable the PIDS to carry out the required analysis and present on each PIDS display the correct train running information.	Please explain briefly on how it is received to the PIDS Central Server / Stations.	Please refer Chapter 12 ,13 & Appendix A of Technical specification.
123	P2	VI B	12.8.5.1	The CCTV System has interfaces to the following telecommunications systems: (a) Access Control and Intrusion Detection System (ACIDS). (b) Telephone System (Help Point). (c) Fault Reporting system (FRS).	Request to explain briefly on the application of interface between CCTV & PIDS	Please refer Addendum 1 for revised bid condition

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
				(d) Master Clock System. (e) Passenger Information Display System (PIDS).		
124	P2	VI B	2. Network Video Recording Server	r. The CCTV information of rolling stock shall also be recorded in the same server provided by Telecom Contractor.	Kindly clarify i) Does this mean all the cameras on the rolling stock need to be recorded on station CCTV system servers or OCC servers? ii) Will these cameras be getting recorded on NVR within rolling stock? iii) OCC server shall have integration with rolling stock NVRs for provisioning of live video and playback from OCC only, or actual recording is expected in OCC? We understand the scope of transferring the feed from train to recording site shall not be the scope of ASA-05 contractor, please confirm.	Please refer revised bid condition addendum 1
125	P2	VI B	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 Signalling 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.	As we understood from clause no 2.1.6 & 2.17 , PAS& PIDS integrated software in not part of this RFP scope. So S&TC interface with PIDSPAS system should be the responsibility of the PIDSPAS software provider. Please clarify.	PAS/PIDS integrated software and respective S& TC interface shall not be under scope of ASA 05 tender and shall be provided by other designated OCC/BCC Contractor This clause is included to provide overall PAS/PIDS functional overview.
126	P2	VI B	2.1.6	OCC & BCC PAS/PIDS and its application software shall not be in scope of this RFP and shall be provided by other Contractor.	Our understanding that the PAS/PIDS application software will be provided by other contractor not in the part of this tender . Please confirm	PAS/PIDS integrated software including station HMI Client application shall not be under scope of ASA 05 tender and shall be provided by other designated OCC/BCC Contractor.
127	P2	VI B	2.1.6	OCC & BCC PAS/PIDS and its application software shall not be in scope of this RFP and shall be provided by other Contractor.	PIDS & PAS Equipment need to interface with application software therefore protocol level details are required.	Please refer Appendix A, Chapter 13 and Addendum 1 for details
128	P2	VI B	2.1.6	OCC & BCC PAS/PIDS and its application software shall not be in scope of this RFP and shall be provided by other Contractor.	Please provide the details of OCC/BCC PA/PIDS and its application software for integration.	Please refer Appendix A for details
129	P2	VI B	2.1.7	PAS/PIDS system at stations shall be interfaced for integration with Centralised Management	Our understanding that the PAS/PIDS application software will be provided by other contractor not in the part of this tender . Please confirm	PAS/PIDS integrated software including station HMI Client application shall not be under scope of ASA 05 tender and

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
				Software and station client application, which shall be provided by Other Designated contractor.		shall be provided by other designated OCC/BCC Contractor.
130	P2	VI B	2.1.7	PAS/PIDS system at stations shall be interfaced for integration with Centralised Management Software and station client application, which shall be provided by Other Designated contractor.	Please provide the details of OCC/BCC PA/PIDS and its application software for integration.	Please refer Appendix A for details
131	P2	VI B	2.2	OCC & BCC PAS/PIDS and its application software shall not be in scope of this RFP and shall be provided by other Contractor PIDS/PAS central server for all 3 Corridors of CMRL phase 2 shall be located in the OCC & BCC TER, which shall be connected to the PIDS/PAS Corridor server (for each corridor) and further to PAS/PIDS work station at station via the data transmission system. Details of Centralised Passenger Information System is given for reference in Appendix A of this TS.	1.We understand that the HMI such as PC / Workstation for station level & its application software shall not be in scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm. 2.Without knowing the hardware specifications for the HMI, which is required for the OCC/BCC contractor. If it is going to be provided as a part of this RFP, we will have reliability issues between two different contractors. 3.Alternativley please provide the hardware specifications requirement for the same.	1. The hardware for Corridor server, HMI such as PC / Workstation and the Passenger information Displays for Stations and Depot for hosting the PIDS applications including licensed windows OS shall be under scope of this contract. PIDS application software shall be under scope of OCC/BCC Contractor. 2. Please follow the tender conditions for HMI hardware. 3. Please refer Chapter 10 'HMI, Servers & Workstations' for detailed HMI specifications.
132	P2	VI B	2.2	"OCC & BCC PAS/PIDS and its application software shall not be in scope of this RFP and shall be provided by other Contractor PIDS/PAS central server for all 3 Corridors of CMRL phase 2 shall be located in the OCC & BCC TER, which shall be connected to the PIDS/PAS Corridor server (for each corridor) and further to PAS/PIDS work station at station via the data transmission system..Details of Centralised Passenger Information System is given for reference in Appendix A of this TS.	For the statement we understand the corridor servers and application software shall also be -provided by others .Please confirm if our understanding is correct.	The hardware for Corridor server, HMI such as PC / Workstation and the Passenger information Displays for Stations and Depot for hosting the PIDS applications including licensed windows OS shall be under scope of this contract. PIDS application software shall be under scope of OCC/BCC Contractor.
133	P2	VI B	2.2.	OCC & BCC PAS/PIDS and its application software shall not be in scope of this RFP and shall be provided by other Contractor PIDS/PAS central server for all 3 Corridors of CMRL phase 2 shall be located in the OCC & BCC TER, which shall be connected to the PIDS/PAS Corridor server (for each corridor) and further to PAS/PIDS work station at station via the data transmission system. Details of Centralised Passenger Information System is given for reference in Appendix A of this Tender	Please provide the details of OCC/BCC PA/PIDS and its application software for integration.	Please refer Appendix A for details
134	P2	VI B	2.2.1	Corridor Server shall be capable to provide redundancy for minimum three stations in case of station HMI fails.	Since OCC/BCC Contractor is providing the Servers, the redundancy in the Stations of Corridor 4 shall also be taken care by the same OCC/BCC Contractor. Please confirm.	Please refer Addendum 1 for revised bid condition
135	P2	VI B	2.2.1	2.2.1 Corridor Server shall be capable to provide redundancy for minimum three stations in case of station HMI fails.	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 centralised announcement to all stations of	Hardware for Corridor server shall be provided under the scope of this tender. Corridor server shall be able to act as redundant of OCC & BCC server and as well as redundant to station HMI (Minimum 3 stations) for station standalone

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
					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."	operation in case of OCC/BCC link failure. Please refer revised Bid condition
136	P2	VI B	2.2.2 Pag	PAS/PIDS central server shall be interfaced to the S&TC system as the source of train timetable data.	We understand that the interface of PAS/PIDS central server to the S&TC system shall not be part of scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm.	PAS/PIDS integrated software and respective S& TC interface shall not be under scope of ASA 05 tender and shall be provided by other designated OCC/BCC Contractor This clause is included to provide overall PAS/PIDS functional overview.
137	P2	VI B	2.3.1.1	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 structures, road side, nearby areas etc.) Technical Rooms, SCR, Security Room, ASS, Walk Ways, Station Manager Room, Cross passage in tunnel area, TOM etc.	RSS is not mentioned in this clause. Therefore it has been considered that PA System is not required in RSS. Please confirm.	PA System shall be provided at RSS. Please refer 2.7.2.12.6 clause for clarification
138	P2	VI B	2.5.2.1	All Intelligibility elements of the PAS shall comply with the requirements of BS 5839-8 to achieve a final system that is certified BSEN 60849 compliant.	BSEN 60849 is now not active and superseded by BS EN 50849. Kindly modify the clause accordingly.	Please refer Addendum 1 for revised bid condition
139	P2	VI B	2.5.6.5	Loudspeakers shall be of same make/OEM as that of Control & Amplifier make/OEM. Loudspeakers with different brand & Electronics i.e. Amplifiers & Matrix of different brand will not be accepted.	There are other loudspeaker manufacturers available who have experience in supplying loudspeakers for many metro projects. It is requested to kindly allow Loudspeakers from the other OEMs as well who comply with all applicable loudspeaker EN standards and have credential in supplying for metro or any other passenger carrying transportation projects.	Please refer Addendum 1 for revised bid condition

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
140	P2	VI B	2.5.7.5	As normal mode of operation, in response to PA service the Matrix switch/ controller-A will feed to amplifiers driving Even numbered speakers of respective PA Zones &matrix switch/controller-B will feed to amplifiers driving Odd numbered speakers of the respective PA Zones. In normal mode, all even numbered & odd numbered speakers of any zone, combination of zones or all zones shall broadcast message simultaneously without causing any distortion or throughput synchronisation issue.	Controller are to be considered as redundant to each other which is a contradiction as stated in clause, Please confirm.	Active -Active redundant controller may also be provided without any time lag between switchover of services from main to redundant.
141	P2	VI B	2.6.12.1.10	Each MMI position shall be equipped with a PAS control panel including a microphone to enable live broadcast messages to be made even when the MMI and DVA equipment fail. Hence PAS control panel shall work as a manual backup to MMI (including the DVA) at all stations.	As we understood from clause, In case of MMI faliure at particular location, PAS Control panel shall work as manual backup of MMI at all locations i.e stations and OCC/BCC to control their respective locations PA Zones only. Please confirm.	clause is self-explanatory.
142	P2	VI B	2.6.12.1.10	Each MMI position shall be equipped with a PAS control panel including a microphone to enable live broadcast messages to be made even when the MMI and DVA equipment fail. Hence PAS control panel shall work as a manual backup to MMI (including the DVA) at all stations.	As we understood from clause. In case of MMI faliure at particular location PAS Control panel shall work as manual backup of MMI at all locations i.e stations and OCC/BCC to control their respective locations PA Zones only. Please confirm.	clause is self-explanatory.
143	P2	VI B	2.6.12.1.2	Both PAS MMI and PIDS MMI shall be implemented on a common Terminal/Workstation with the same look and feel. MMI at Station Control Room should be either an Integrated PC cum Monitor Unit.....	1.We understand that the MMI such as PC / Workstation for station level & its application software shall not be in scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm. 2.Without knowing the hardware specifications for the HMI, which is required for the OCC/BCC contractor. If it is going to be provided as a part of this RFP, we will have reliability issuesbetween two different contractors. 3.Alternativley please provide the hardware specifications requirement for the same.	1. The hardware for Corridor server, HMI such as PC / Workstation and the Passenger information Displays for Stations and Depot for hosting the PIDS applications including licensed windows OS shall be under scope of this contract. PIDS application software shall be under scope of OCC/BCC Contractor. 2. Please follow the tender conditions for HMI hardware. 3. Please refer Chapter 10 'HMI, Servers & Workstations' for detailed HMI specifications.
144	P2	VI B	2.6.12.8	The PAS/PIDS hardware MMI at Stations shall be provided with minimum 32" monitor & PAS Back up Console shall have touchscreen suitable for public announcements in metro rail environments. Back up PAS Control shall have zone selection capabilities and shall allow operator to select and make announcement to any particular or all PAS zones of the designated location.	Please confirm the Monitor screen shall be of size 32" or 22" ? In accordance of chapter-3 PIDS, Monitor screen size requiriement mentioned is of 22" and shall be an integrated Monitor screen for both PAS and PIDS. Kindly revisit the clauses and modify accordingly.	Please refer other revised bid condition in Addendum 1

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
145	P2	VI B	2.6.12.8	The PAS/PIDS hardware MMI at Stations shall be provided with minimum 32" monitor & PAS Back up Console shall have touchscreen suitable for public announcements in metro rail environments. Back up PAS Control shall have zone selection capabilities and shall allow operator to select and make announcement to any particular or all PAS zones of the designated location.	Kindly modify the clause with PAS Backup console with zone selection buttons instead of touch screen backup console. Touch screen backup console not recommended for the system requirement because in case of failure of touch screen it may impact all the announcement either in any individual or in any combination or in all zones, which is not the case in backup console with zone selection buttons in reference to clause 2.7.2.4.1 and 2.7.2.4.2 where each individual zone will have independent zone selection buttons and PTT buton. Therefor kindly modify the highlighted clause as below: PAS Back up Console with zone selection buttons.	Kindly refer revised bid condition
146	P2	VI B	2.6.12.8	The PAS/PIDS hardware MMI at Stations shall be provided with minimum 32" monitor & PAS Back up Console shall have touchscreen suitable for public announcements in metro rail environments. Back up PAS Control shall have zone selection capabilities and shall allow operator to select and make announcement to any particular or all PAS zones of the designated location.	32" / 22" monitor shall be considered based on the space availability in the specific areas. Kindly confirm	Tender condition shall prevail. Contractor shall interface with respective project contractor for space requirement and placement.
147	P2	VI B	2.6.12.8 to 2.6.12.13	The PAS/PIDS hardware MMI at Stations shall be provided with.....	1.We understand that the MMI such as PC / Workstation for station level & its application software shall not be in scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm. 2.Without knowing the hardware specifications for the HMI, which is required for the OCC/BCC contractor. If it is going to be provided as a part of this RFP, we will have reliability issues between two different contractors. 3.Alternativley please provide the hardware specifications requirement for the same.	1. The hardware for Corridor server, HMI such as PC / Workstation and the Passenger information Displays for Stations and Depot for hosting the PIDS applications including licensed windows OS shall be under scope of this contract. PIDS application software shall be under scope of OCC/BCC Contractor. 2. Please follow the tender conditions for HMI hardware. 3. Please refer Chapter 10 'HMI, Servers & Workstations' for detailed HMI specifications.
148	P2	VI B	2.6.14	Fault and Alarm Management	As we understood fault management system to be provided at OCC /BCC for PIDSPAS system and this not the part of this RFP requirement . PAS vendor to provide API / alarm detail for integration . Kindly clarify	Fault management system for PAS/PIDS at OCC/BCC shall not be under scope of this tender. ASA 05 Contractor shall transfer alarms by providing API and Alarm details of Station PAS/PIDS system.
149	P2	VI B	2.6.3.1	PAS Coverage : All common areas in between property development and station area used for passenger movement.	Kindly confirm the locations of property development in the station drawings.	Please refer Nandanam Station(UG),Boat club(UG) ,Panagal Park(UG),Alwarpet(UG) and Vadapalini(Elevated) shows examples for these locations.
150	P2	VI B	2.6.6.3	Messages initiated from the S&TC System	This entire section, we understand that these works [necessary PC / Workstation & its application software] are not in scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm.	The hardware for Corridor server, HMI such as PC / Workstation and the Passenger information Displays for Stations and Depot for hosting the PIDS applications including licensed windows OS shall be under scope of this contract. PIDS application software shall be under scope of OCC/BCC Contractor.

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151	P2	VI B	2.6.6.5.1 and 2.6.12.16.1	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. 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 we understand from these clauses, only hardwired PAS control panel needs to be provided at DCC but, the "PAS Workstation" to be considered for DCC, kindly clarify the requirement.	clause is self-explanatory.
152	P2	VI B	2.6.6.5.1 and 2.6.12.16.1	clause 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. clause 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 we understand from these clauses, only hardwired PAS control panel needs to be provided at DCC but as per our understanding the "PAS Workstation" is also to be considered for DCC. Kindly clarify either only hardwired PAS control panel is required or both.	clause is self-explanatory.
153	P2	VI B	2.7.2.1.1	The hardware and software of the PAS shall use modular design to allow for easy expansion of the system. Addition of input and output ports for the switching equipment shall be achieved by simple addition of plug in cards or inputs or input output modules including amplifiers which should be of a hot swappable card type.	The hardware and software of the PAS shall use modular design to allow for easy expansion of the system. Addition of input and output ports for the switching equipment shall be achieved by simple addition of IP Devices. Please do consider the changes accordingly.	Tender condition shall prevail.
154	P2	VI B	2.7.2.12.15	Contractor shall submit the specified UL certifications whenever asked for by Engineer or Employer	Please modify the clause as below: 2.7.2.12.15 Contractor shall submit the specified EN54/UL certifications whenever asked for by Engineer or Employer	Please refer Addendum 1 for revised bid condition
155	P2	VI B	2.7.2.12.15	Contractor shall submit the specified UL certifications whenever asked for by Engineer or Employer	Referring to clause 2.7.2.12.13, 2.7.2.12.14, 2.7.2.12.17, please modify the clause as below: 2.7.2.12.15 Contractor shall submit the specified EN54/UL certifications whenever asked for by Engineer or Employer	Please refer revised bid condition in Addendum 1
156	P2	VI B	2.7.2.12.18	2.7.2.12.18 All speakers should be from same OEM as that of PAS System Supplier.	It is a OEM specific requirement. There are other loudspeaker manufacturers available who have experience in supplying loudspeakers for many metro projects. It is requested to kindly allow Loudspeakers from the other OEMs as well who comply with all applicable loudspeaker EN standards and have credential in supplying for metro or any other passenger carrying transportation projects.	Please refer Addendum 1 for revised bid condition

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157	P2	VI B	2.7.2.13	Management System	<p>1.We understand that the Management System such as PC / Workstation for station level & its application software shall not be in scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm.</p> <p>2.Without knowing the hardware specifications for the HMI, which is required for the OCC/BCC contractor. If it is going to be provided as a part of this RFP, we will have reliability issuesbetween two different contractors.</p> <p>3.Alternativley please provide the hardware specifications requirement for the same.</p>	<p>1. The hardware for Corridor server, HMI such as PC / Workstation and the Passenger information Displays for Stations and Depot for hosting the PIDS applications including licensed windows OS shall be under scope of this contract. PIDS application software shall be under scope of OCC/BCC Contractor.</p> <p>2. Please follow the tender conditions for HMI hardware.</p> <p>3. Please refer Chapter 10 'HMI, Servers & Workstations' for detailed HMI specifications.</p>
158	P2	VI B	2.7.2.13.1	The management system shall be equipped with a proven operating system to support the specified management functions. The NMS at OCC & BCC shall have jurisdiction over entire station – depot station line. NMS should be available for access in other than CSS / CER. The PAS and PIDS NMS shall be on the same server / workstation.	In refernce to clause 2.6.14.1.1 of Chapter-2 PAS, The NMS should not be available for access in other than CSS / CER. Kindly modify this clause as generally NMS remains in CSS/CER only and not been accessed from any other location.	Please refer revised bid condition in Addendum 1
159	P2	VI B	2.7.2.13.1	2.7.2.13.1 The management system shall be equipped with a proven operating system to support the specified management functions. The NMS at OCC & BCC shall have jurisdiction over entire station – depot station line. NMS should be available for access in other than CSS / CER. The PAS and PIDS NMS shall be on the same server / workstation.	In reference to clause 2.6.14.1.1 of Chapter-2 PAS, The NMS should not be available for access in other than CSS / CER. Kindly modify this clause as generally NMS remains in CSS/CER only and not been accessed from any other location.	Please refer Addendum 1 for revised bid condition
160	P2	VI B	2.7.2.13.3	Notebook computers loaded with appropriate software for field maintenance shall be supplied as given in BOQ. The notebook computer shall be powered by an internal rechargeable battery supporting more than 4 hours continuous operation without recharging. Appropriate software shall be pre-loaded onto the notebook computers to access full management facilities though the local maintenance port.	Kindly provide the PAS BOQ for better understanding and consideration.	This is design and built tender. Required PAS details are given in Chapter 2. Bidder will propose the design accordingly.
161	P2	VI B	2.7.2.2.1	The Digital Voice Announcer (DVA) equipment shall be of solid state type or hard disk with sufficient memory backup to store fixed, pre- formatted and instantly recorded messages.	Fixed digital recording; Pre-formatted with data to be added and Instantly recorded; messages are generally Stored in CENTRAL PAS PIDS Server for various Train Related and other Announcements. Please confirm.	DVA shall be provided at each station under the scope of this tender. Various audio files shall be provided by OCC/BCC Contractor which shall be stored in DVA.
162	P2	VI B	2.7.2.2.1	The Digital Voice Announcer (DVA) equipment shall be of solid state type or hard disk with sufficient memory backup to store fixed, pre-formatted and instantly recorded messages.	As central PAS and PIDS application software are provided by other contractor though other RFP/Tender, hence this DVA may not be required to be supplied through this RFP (C4-ASA05). Therefore this clause should be deleted.	DVA shall be provided at each station under the scope of this tender. Various audio files shall be provided by OCC/BCC Contractor which shall be stored in DVA.

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163	P2	VI B	2.7.2.2.1	The Digital Voice Announcer (DVA) equipment shall be of solid state type or hard disk with sufficient memory backup to store fixed, pre-formatted and instantly recorded messages.	Fixed digital recording; Pre-formatted with data to be added and Instantly recorded; messages are generally Stored in CENTRAL PAS PIDS Server for various Train Related and other Announcements. Please confirm.	DVA shall be provided at each station under the scope of this tender. Various audio files shall be provided by OCC/BCC Contractor which shall be stored in DVA.
164	P2	VI B	2.7.2.6.2	The microphone shall have the following minimum performance: (b) Sensitivity : > 73 dB (0.22 mV)	0.22mV = -73dB, Hence requested to kindly modify the requirement accordingly.	Please refer revised bid condition in Addendum 1
165	P2	VI B	2.7.2.8.1	A minimum of two Class-D power amplifiers of appropriate wattage capacity shall be provided for each zone at each station.	Please confirm if a single amplifier with multiple channels can be used for each zone.	Tender condition shall prevail.
166	P2	VI B	2.7.2.8.3	Adequate standby arrangements shall be provided to achieve system availability. At each station 2 Sets of amplifiers each shall be provided, set 1 shall feed Even Numbered speakers & Set 2 Shall feed Odd numbered speaker circuits, Failure of Set 1 will not affect Set 2 & hence maintain system availability. Electric Power supply for Set 1 & Set 2 should be separately Routed with different cable to avoid single point of failure.	Adequate standby arrangements shall be provided to achieve system availability. At least one power amplifier shall be provided for every 04 working amplifiers. Hot standby amplifier shall be switched into operation automatically by the PAS supervisory functions. The switch over to the standby amplifier should be automatic Please do consider the changes accordingly .	Please refer clause 2.5.7.8 for standby amplifier requirement.
167	P2	VI B		General	Request you to kindly remove clauses which are not relevant to current contract and has to be provided by OCC/BCC Contractor such as Application Software, NMS, Functional Requirements etc	Clauses are present for providing complete understanding of solution which will help to design Station and depot system accordingly.
168	P2	VI B	3.1.5	The integrated PAS / PIDS HMI at each station shall be able to monitor and, if required override the information presented on the PIDS Displays and shall provide the SCR operators with the facility to display text messages, monitor system alarms and manage the local display facilities. Preview functions of the editing messages shall be provided for different display boards via the "What You See Is What You Get (WYSIWYG)" facilities of the HMI.	1.Kindly confirm the scope of HMI for monitoring the display boards as the software is under the scope of OCC / BCC Contractor. 2.Without knowing the hardware specifications for the HMI, which is required for the OCC/BCC contractor. If it is going to be provided as a part of this RFP, we will have reliability issues between two different contractors. 3.Alternativley please provide the hardware specifications requirement for the same.	1. The hardware for Corridor server, HMI such as PC / Workstation and the Passenger information Displays for Stations and Depot for hosting the PIDS applications including licensed windows OS shall be under scope of this contract. PIDS application software shall be under scope of OCC/BCC Contractor. 2. Please follow the tender conditions for HMI hardware. 3. Please refer Chapter 10 'HMI, Servers & Workstations' for detailed HMI specifications.
169	P2	VI B	3.3	System Architecture and Functional Requirements The major PIDS components shall include, as a minimum, the following elements and can be customized as appropriate for each type of site.	Since these are software features and software is not part of this contract (shall be part of OCC contract) we recommend that the said clause be removed	Tender condition shall prevail.
170	P2	VI B	3.3.1.1	OCC & BCC PAS/PIDS and its application software shall not be in scope of this RFP and shall be provided by other Contractor	Kindly provide the details of OCC & BCC PAS/PIDS application software provider. If any upgradation / modification / re-configuration is required for interfacing with other supplier, kindly confirm it will be other supplier's responsibility. If intregation is not possible with other system, then bidder be allowed to supply new PAS/PIDS Central application software for this scope of work at additional cost.	Please refer Chapter 13, Chapter 4 & 5 and Appendix A for details about PIS software application and interfacing and integration requirement. Also refer for revised bid condition in Addendum 1 for further details. Contractor shall be required to integrate with OCC/BCC software application only. Any additional PAS/PIDS Central application software shall not be accepted.

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171	P2	VI B	3.3.1.1	"OCC & BCC PAS/PIDS and its application software shall not be in scope of this RFP and shall be provided by other Contractor"	"From the clause given in the RFP we understand bidders scope for the PIDS is limited to supply and installation of "Display + Cabling required at the station " While all front end application software and related hardware such as servers , OS, DB workstation at station & depot and any other related equipments shall be provided by other contractors. " Also the application software and and servers required at the Corridor levl shall be provided by other contractor please confirm if our understanding is correct.	Application software shall be provided by OCC/BCC Contractor at stations. All other required items for commissioning at stations including Display, Cabling, Corridor server and HMI workstation ,OS etc without application software shall be provided under the scope of this contract.
172	P2	VI B	3.3.1.3	The PAS/PIDS central server shall be interfaced to the S&TC system as the source of train timetable data.	Central PAS/PIDS server is being provided by other supplier. Bidder assumes that it will be the other supplier's responsibility to interface with S&TC system. Kindly confirm.	PAS/PIDS integrated software and respective S& TC interface shall not be under scope of ASA 05 tender and shall be provided by other designated OCC/BCC Contractor This clause is included to provide overall PAS/PIDS functional overview.
173	P2	VI B	3.3.1.6	Corridor server shall act as redundant machine for station HMI and capable to provide redundancy for minimum 3 stations in case of station HMI fails PIDS/PAS Station Work Station/Client Terminal	Kindly confirm how many corridor server to be consider as per PIDSPAS application requirement.	One corridor server shall be provided for ASA-05 Package
174	P2	VI B	3.3.14.3	(i)Indicative quantity of Display Boards to be provided at stations is as under: (a) 01 no double sided 52 " TFT/LED Backlit LCD Full HD of IP65rating per Platform (ii) Interchange/Double stack Station:	kindly provide the length of platform and what is the no. of interchange stations	Length of the platform is 135 m for 6 Cars . 'Following stations are Double stack stations in the Corridor 4 1.Alwarthiru Nagar(Elevated) 2.Valasaravakkam(Elevated) 3.Karambakkam(Elevated) 4.Alappakam(Elevated) 5.Thirumayilai Metro(UG)
175	P2	VI B	3.3.14.3.ii	Interchange/Double stack Station:	Please mention the station names which are with Interchange/Double stack provision in the Corridor 4.	following stations are Double stack /Interchange stations in the Corridor 4 1.Alwarthiru Nagar(Elevated) 2.Valasaravakkam(Elevated) 3.Karambakkam(Elevated) 4.Alappakam(Elevated) 5.Thirumayilai Metro(UG)
176	P2	VI B	3.3.15.11	Operational Modes	1.We understand that these functions are just for our reference and the related MMI such as PC / Workstation for station level & its application software shall not be in scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm. 2.Without knowing the hardware specifications for the Corridore Server / HMI, which is required for the OCC/BCC contractor. If it is going to be provided as a part of this RFP, we will have reliability issues between two different contractors. 3.Alternativley please provide the hardware specifications requirement for the same.	The hardware for Corridor server, HMI such as PC / Workstation and the Passenger information Displays for Stations and Depot for hosting the PIDS applications including licensed windows OS shall be under scope of this contract. PIDS application software shall be under scope of OCC/BCC Contractor.

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177	P2	VI B	3.3.15.19	Station Generated Emergency Messages & OCC & BCC Generated Non-Emergency Messages	We understand that these functions are just for our reference and the related MMI such as PC / Workstation for station level & its application software shall not be in scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm	Centralised Management Software and station client application for station HMI shall be provided by other designated OCC/BCC Contractor and shall not be under scope of this RFP however HMI hardware at all stations including Depot shall be provided by ASA 05 Contractor.
178	P2	VI B	3.3.15.24	PIDS Interfaces to Signalling / Train Control System	PIDS supplier will provide the PIDS API for integration with PIDSPAS Software. Remaining integration related function and coordination with third party vendor has to be ensure by PIDSPAS software provider. Please clarify.	OCC & BCC central , Corridor PAS/PIDS , Interfaces with Signalling contractor and its HMI application, NMS software shall not be in scope of this RFP. ASA-05 contractor shall supply the hardware for the PIDS displays and PIDS/PA HMI which shall host the PIDS software from ASA-06. ASA-05 contractor shall supply PIDS hardware with capability to store, record and dispatch the commands from PIDS/PAS HMI. ASA-05 contractor along with ASA-06 contractor shall integrate the PIDS hardware with PIDS/PA HMI. For further details please refer Chapter 12 ,Chapter 13 of Technical specification for detailed functional and interface requirements
179	P2	VI B	3.3.15.24.1	PIDS central server is not part of this RFP	PIDS server configuration needed for PIDS is whoes responsibility if PIDS central server not in scope of this RFP	Please refer Appendix A for required details of Centralised PIS system which is provided with TS for bidder's reference and understanding.
180	P2	VI B	3.3.15.31.5	PIDS shall offer 15 different levels of priority as a minimum. The following table presents, as an example, different PIDS message priorities, in descending order: Table 3.1: Typical Message Priorities	PIDS supplier will provide the API for integration with PIDSPAS Software. Remaining integration related function and different message types , priority configuration etc. , functionality and coordination with third party vendor has to be ensure by PIDSPAS software provider. Please clarify.	OCC & BCC central , Corridor PAS/PIDS , Interfaces with Signalling contractor and its HMI application, NMS software shall not be in scope of this RFP. ASA-05 contractor shall supply the hardware for the PIDS displays and PIDS/PA HMI which shall host the PIDS software from ASA-06. ASA-05 contractor shall supply PIDS hardware with capability to store, record and dispatch the commands from PIDS/PAS HMI. ASA-05 contractor along with ASA-06 contractor shall integrate the PIDS hardware with PIDS/PA HMI. For further details please refer Chapter 12 ,Chapter 13 of Technical specification for detailed functional and interface requirements
181	P2	VI B	3.3.2.2	Each platform shall be equipped with a minimum of one double sided LED Backlit LCD/TFT Full HD Display Panels. Display Panels shall be installed at suitable locations (as per the approved design) . The cabling lay-out along with enclosures and mounting arrangements shall be designed to facilitate the station aesthetics.	In General, all metro's platforms are equipped with minimum two double sided display panels (one at rear end of platform and another at front end of platform). Therefore, kindly modify the respective clause as below: "Each platform shall be equipped with a minimum of two double sided LED Backlit LCD/TFT Full HD Display Panels. Display Panels shall be installed at suitable locations (as per the approved design) . The cabling lay-out along with enclosures and mounting arrangements shall be designed to facilitate the station aesthetics."	Please follow tender condition.

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182	P2	VI B	3.3.2.6	Each single sided display shall be fully visible to a normal sighted individual, from a minimum distance of 35 meters or better from the display.	Please confirm where the single sided display shall be used on platforms ?	Please refer Addendum 1 for revised bid condition
183	P2	VI B	3.3.2.6	Each single sided display shall be fully visible to a normal sighted individual, from a minimum distance of 35 meters or better from the display.	What is the length of platform as viewing distance expected as 35 meters	Length of the platform is 135m for 6 Car Train. Presently Viewing distance is required within 3 Car length area of platform.
184	P2	VI B	3.3.3.1	TFT/LED Backlit LCD Full HD Display Panel shall be installed within each station concourse for the presentation of the following data: (a) Concourse display boards shall predominantly display information on train arrivals for the corresponding platform. (b) Relevant service and passenger information shall also be displayed if required on the destination station field	We understand that the display information are just for our reference and the related application software works shall not be in scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm	Loading medium to add further to PIDS management system shall not be under scope of this tender and shall be provided by other designated OCC/BCC contractor.
185	P2	VI B	3.3.4.2	PIDS displays shall be of robust construction and manufactured from either high quality mild steel or aluminum overlaid with a durable paint finish, the RAL color of which shall be agreed with the Employer;	Due to the high humidity levels and proximity to the sea, we shall consider Galvanised Mild Steel enclosure, instead of high quality mild steel to prevent corrosion, kindly confirm.	Please refer Addendum 1 for revised bid condition
186	P2	VI B	3.3.4.2	PIDS displays shall be of robust construction and manufactured from either high quality mild steel or aluminum overlaid with a durable paint finish, the RAL color of which shall be agreed with the Employer;	Due to the high humidity levels and proximity to the sea, to prevent corrosion, we recommends Galvanised Steel enclosure instead of high quality mild steel. Request to please review.	Please refer Addendum 1 for revised bid condition
187	P2	VI B	3.3.6.2	A loading medium in the form of compact disc or other means subject to notice of no objection by the Employer shall be provided to the PIDS management system to allow maintenance staff to add new characters, graphics or symbols into the PIDS in the future. These new additions shall be downloaded to all message database of the PIDS both in real-time and during the non-traffic hours.	Kindly confirm that this requirement will be met by OCC/BCC contractor and is not in scope of current tender.	Loading medium to add further to PIDS management system shall not be under scope of this tender and shall be provided by other designated OCC/BCC contractor.
188	P2	VI B	3.3.6.3	"Notebook Computers loaded with appropriate software for field maintenance shall be supplied as per Appendix D. The notebook computers shall be powered by an internal rechargeable battery supporting more than 4 hours continuous operation without recharging."	Since all the software application will be provided by other contractor so the notebook computer loaded with appropriate application shall also be provided by other contractor please And the bidder do not have to offer the same as part of there proposal confirm if our understanding is correct .	Notebook computer shall be provided as per Appendix D of TS with application software but with OS and other applicable softwares required for maintenance purpose as per provided system requirements.
189	P2	VI B	3.3.6.3	Notebook Computers loaded with appropriate software for field maintenance shall be supplied as per Appendix D. The notebook computers shall be powered by an internal rechargeable battery supporting more than 4 hours continuous operation without recharging.	Kindly provide the PIDS BOQ for better understanding and consideration.	Please refer Chapter 3 for understanding the PIDS requirements. Tender is based on Design and built requirement. Please follow the tender conditions.

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190	P2	VI B	3.3.7	System Administration and Management	<p>1.We understand that these functions are just for our reference and the related MMI such as PC / Workstation for station level & its application software shall not be in scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm.</p> <p>2.Without knowing the hardware specifications for the Corridore Server / HMI, which is required for the OCC/BCC contractor. If it is going to be provided as a part of this RFP, we will have reliability issues between two different contractors.</p> <p>3.Alternativley please provide the hardware specifications requirement for the same.</p>	<p>1. The hardware for Corridor server, HMI such as PC / Workstation and the Passenger information Displays for Stations and Depot for hosting the PIDS applications including licensed windows OS shall be under scope of this contract. PIDS application software shall be under scope of OCC/BCC Contractor.</p> <p>2. Please follow the tender conditions for HMI hardware.</p> <p>3. Please refer Chapter 10 'HMI, Servers & Workstations' for detailed HMI specifications.</p>
191	P2	VI B	3.3.8 to 3.3.11	Fault and Alarm Monitoring to Event Logging	<p>1.We understand that these functions are just for our reference and the related MMI such as PC / Workstation for station level & its application software shall not be in scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm.</p> <p>2.Without knowing the hardware specifications for the Corridore Server / HMI, which is required for the OCC/BCC contractor. If it is going to be provided as a part of this RFP, we will have reliability issues between two different contractors.</p> <p>3.Alternativley please provide the hardware specifications requirement for the same.</p>	<p>1. The hardware for Corridor server, HMI such as PC / Workstation and the Passenger information Displays for Stations and Depot for hosting the PIDS applications including licensed windows OS shall be under scope of this contract. PIDS application software shall be under scope of OCC/BCC Contractor.</p> <p>2. Please follow the tender conditions for HMI hardware.</p> <p>3. Please refer Chapter 10 'HMI, Servers & Workstations' for detailed HMI specifications.</p>
192	P2	VI B	3.3.8.3	<p>The following alarm conditions shall be provided to the PIDS management system as a minimum (all alarms shall be stamped with time and date):</p> <p>(a) Loss of communication link.</p> <p>(b) Loss of the entire PIDS facilities at a location</p> <p>(c) Failure of a display board</p> <p>(d) Failure of PIDS Control Equipment and/or PAS/PIDS Workstation</p> <p>(e) Failure of changeover of PIDS Control Equipment</p> <p>(f) Loss of master clock time-of-day</p> <p>(g) Loss of interface link with PAS.</p> <p>(h) Loss of interface link with PIDS- NMS.</p> <p>(i) Loss of interface with ATS (S&TC)</p> <p>(j) Power supply unit failure</p> <p>(k) Loss of one side of a display board</p> <p>(l) Loss of both sides of a display board and</p> <p>(m) Message priority conflict, Loss of interface link with Fire Management System.</p>	<p>Kindly clarify if we need to consider the hardware / software for monitoring of</p> <p>1. Enclosure Internal Temperature</p> <p>2. Enclosure Internal Humidity</p> <p>3. Fan Function</p>	Please refer Addendum 1 for revised bid condition

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193	P2	VI B	3.3.8.3	<p>The following alarm conditions shall be provided to the PIDS management system as a minimum (all alarms shall be stamped with time and date):</p> <p>(a) Loss of communication link.</p> <p>(b) Loss of the entire PIDS facilities at a location</p> <p>(c) Failure of a display board</p> <p>(d) Failure of PIDS Control Equipment and/or PAS/PIDS Workstation</p> <p>(e) Failure of changeover of PIDS Control Equipment</p> <p>(f) Loss of master clock time-of-day</p> <p>(g) Loss of interface link with PAS.</p> <p>(h) Loss of interface link with PIDS- NMS.</p> <p>(i) Loss of interface with ATS (S&TC)</p> <p>(j) Power supply unit failure</p> <p>(k) Loss of one side of a display board</p> <p>(l) Loss of both sides of a display board and</p> <p>(m) Message priority conflict, Loss of interface link with Fire Management System.</p>	<p>PIDS supplier will provide the PIDS API to integrate the PIDS alarms with PIDSPAS Software. Remaining integration related function and coordination with third party vendor has to be ensure by PIDSPAS software provider. Please clarify.</p>	<p>OCC & BCC central , Corridor PAS/PIDS , Interfaces with Signalling contractor and its HMI application, NMS software shall not be in scope of this RFP. ASA-05 contractor shall supply the hardware for the PIDS displays and PIDS/PA HMI which shall host the PIDS software from ASA-06. ASA-05 contractor shall supply PIDS hardware with capability to store, record and dispatch the commands from PIDS/PAS HMI. ASA-05 contractor along with ASA-06 contractor shall integrate the PIDS hardware with PIDS/PA HMI. For further details please refer Chapter 12 ,Chapter 13 of Technical specification for detailed functional and interface requirements</p>
194	P2	VI B	3.4.1	<p>Display Board</p> <p>Display Boards shall have following features.</p> <p>(a) Brightness in Nits: Minimum 500Nits for indoor and minimum 1000 Nits for elevated platforms</p>	<p>Mentioned brightness is too low for better visibility in a LCD/TFT display panels, request to modify the clause as below:</p> <p>(a) Brightness in Nits: Minimum 700Nits for indoor and minimum 2500 Nits for elevated platforms or higher</p>	<p>Please refer Addendum 1 for revised bid condition</p>
195	P2	VI B	3.4.2 PIDS Management System	<p>3.4.2.3 The mass storage device shall be provided with a storage capacity for at least 3 months of alarm data, system configuration data, alarm history, and system event logging data.</p>	<p>As per 3.3.11 Event Logging</p> <p>The PIDS management system shall be provided with the necessary facilities to retrieve centrally all message logs that are captured with time and date tags by the local control equipment. This shall be independent of the logging of equipment faults. The logs shall be stored at the local control equipment for a minimum duration of 4 weeks without carrying out any housekeeping function. The PIDS management system shall capture all log-on activities with time and date tags.</p> <p>Kindly confirm if the logs to be stored for 4 weeks as per 3.3.11 or 3 months as per 3.4.2.3</p>	<p>Please refer revised bid condition addendum 1</p>
196	P2	VI B	3.4.2.1	<p>The PIDS management system shall be equipped with Linux/ WINDOWS based operating system to support the specified management functions. This is contractor's responsibility to commission., test and handover (after DLP) the system with latest Operating system, firm wares and software versions as scope of work</p>	<p>As the PIDS management system in not in the scope of current RFP and to be procured through different RFP, so hardware required to run the application software should not be in the scope of current RFP. Please confirm</p>	<p>1. The hardware for Corridor server, HMI such as PC / Workstation and the Passenger information Displays for Stations and Depot for hosting the PIDS applications including licensed windows OS shall be under scope of this contract. PIDS application software shall be under scope of OCC/BCC Contractor.</p> <p>2.Please refer revised bid condition</p>

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197	P2	VI B	3.4.2.2	Each management Workstation shall be equipped with a 22" inches color TFT display with at least "1920 x 1024" pixels resolution or latest specifications to provide graphical presentation and display of the PIDS.	Kindly confirm whether bidder has to provision for NMS Workstation or will it be in scope of OCC/BCC Contractor	NMS shall be provided by OCC/BCC Contractor.
198	P2	VI B	3.5.11	Built-intest routines shall be initiated by the following means as a minimum: c) automatically as a result of the on-line error detection;	Line error detection is not possible for a TFT/LCD display as LCD/TFT display runs templates on PIDS Screens. Line error detection functionality is a row wise LED boards feature. Kindly revisit the clause and modify accordingly.	Please refer Addendum 1 for revised bid condition
199	P2	VI B	3.5.12	The PC-based control equipment shall be industrial grade PC model. The PC- based control equipment shall function normally from - 5°C to +55°C (ambient) and with relative humidity ranging up to 99%.	Relative humidity of 99% is too high for any hardware equipment. Request to kindly modify this clause for RH of 95%.	Please refer Addendum 1 for revised bid condition
200	P2	VI B	3.5.12	The PC-based control equipment shall be industrial grade PC model. The PC- based control equipment shall function normally from -5°C to +55°C (ambient) and with relative humidity ranging up to 99%.	Relative humidity of 99% is too high for any hardware equipment as per normal Telecom standards. Request to kindly modify this caluse for RH of 95%.	Please refer Addendum 1 for revised bid condition
201	P2	VI B	3.5.5	The PIDS shall support multimedia functions to display video information in MPEG2/4 format, while supporting both SD and HD resolutions, H.264, AVCHD, full-duplex and stereo effects for audio signal, as a minimum.	Does the PIDS display need to have inbuilt speakers? Kindly clarify	Please refer Addendum 1 for revised bid condition
202	P2	VI B	3.5.5	The PIDS shall support multimedia functions to display video information in MPEG2/4format, while supporting both SD and HD resolutions, H.264, AVCHD, full-duplex and stereo effects for audio signal, as a minimum.	Does the PIDS display need to have inbuilt speakers?	Please refer Addendum 1 for revised bid condition
203	P2	VI B	4. Software Management and Control	<p>4.2 Software Obligations</p> <p>4.2.1 Within 14 days of the installation of any software by the Contractor, the Contractor shall submit to the Engineer for retention by the Employer and the Engineer, two backup copies of the software, which shall include, without limitation:</p> <p>a) all licenses in favour of the Employer for their use.</p> <p>b) all source and executable codes.</p> <p>c) all design documentation relating to the software; and</p> <p>d) any specified development tools required for maintenance of the software, including, but not limited to, editors, compilers and linkers.</p>	Request to remove the requirement of submitting b) source and executable codes, as this may concern the intellectual property of Telecom OEM concerned.	Please refer revised bid condition in addendum 1

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204	P2	VI B		BOX camera, Dome Camera, PTZ Camera , Fisheye Camera , Bullet Camera , IR Illuminator, Housing for Box camera, Joystick	<p>Justification: Foreign Certification is a restrictive clause for domestic manufacturer's.</p> <p>Justification: 1. As per Department for Promotion of Industry and Internal Trade (DPIIT) Office Memorandum Dated 03.2022 Page 1 Clause 2 which also says that ".....Ministries/Departments should ensure that their procurement entites do not incorporate any such restrictive and discriminatory eligibity criteria regarding turnover, specification, testing and other standard in there tender document to exclude class I local suppliers/classII local suppliers".</p> <p>2. As per Department for Promotion of Industry and Internal Trade (DPIIT) Office Memorandum Dated 28.03.2022, Bureau of Indian Standard (BIS) has confirmed that " Indian Standard IS:13252 available for CCTV Cameras is equivalent to UL/CE certification..."</p> <p>Both OM Copies attached for your reference. Therefore we request you to kindly waive off such criteria for the domestic manufacturer's.</p> <p>Amendment: CE, FCC, UL/BIS Certified,</p>	Please refer revised bid condition in Addendum 1
205	P2	VI B		BOX camera, Dome Camera, PTZ Camera , Fisheye Camera , Bullet Camera , IR Illuminator, Housing for Box camera, Joystick	<p>CCTV Camera and NVR/VMS should support ONVIF. Respective model should be listed on respective device list for camera and client list for NVR/VMS on ONVIF website at the time of bidding.</p> <p>CCTV OEM should be full member of ONVIF and same will cross check online in ONVIF website. OEM should give the declaration about full membership at the time of bidding.</p> <p>No OEM should be banned or suspended by ONVIF within the last five years at the time of bidding</p>	Please refer Addendum 1 for revised bid condition

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206	P2	VI B		BOX camera, Dome Camera, PTZ Camera , Fisheye Camera , Bullet Camera , IR Illuminator, Housing for Box camera, Joystick	Bidder shall ensure compliance to the Office Memorandum for insertion of Rule 144 (xi) in the General Finance Rules (GFR)-2017 bearing reference number F.No. 6/18/2019-PPD dated 23 July 2020 or latest, by the Public Procurement Division, Department of Expenditure, Ministry of Finance. Non- compliant bid(s) will be summarily rejected. The OEM should not have any common directors who are also on the board of companies having beneficiaries from land border countries. The camera OEM must submit declaration regarding their own manufacturing setups and IPR for the hardware and shall not have 3rd party manufacturing from any company blacklisted in India or any company sharing land border with India. The IPR of final product and source code of firmware/software etc. should not reside in countries sharing land borders with India. OEM should submit supporting document to establish proof of this eligibility criteria	Since the subject tender is funded by NDB, Make in India condition is not applicable.
207	P2	VI B		BOX camera, Dome Camera, PTZ Camera , Fisheye Camera , Bullet Camera , IR Illuminator, Housing for Box camera, Joystick	OEM is defined as a company that has its own manufacturing setup for the production of equipment (not assembly) required in this tender and is currently manufacturing the offered models under its own brand in its own manufacturing setup. The OEM should either have a TOT (Transfer of Technology) agreement or should have the Design and IPR (Source code in case of software) registered in its company name. OEM holding Design and IPR of the products and getting manufacturing on a contract basis from 3rd party manufacturers may be considered eligible for participation in this tender provided it is the ODM (Original Design manufacturer) for the product that has designed the offered product and holds the IPR for the offered model(s) as per DOT Notification dated 29- August-2018 and as per notifications below: (i) Department of Industrial Policy & Promotion (DIPP) Order No. P-45021/2/2017-B.E.-II dated 15.06.2017.	Tender Condition Prevails.
208	P2	VI B		BOX camera, Dome Camera, PTZ Camera , Fisheye Camera , Bullet Camera , IR Illuminator, Housing for Box camera, Joystick	Bid should be compliant to the Policy and Make in India makes shall be given preference as per Order 2017- Revision vide the Department of Industrial Policy and Promotion (DIPP) Order No. P-45021/2/2017-PP(BE-II) dated 16th September,2020 or latest. OEMs under make in India must submit Undertaking and supporting documents	Since the subject tender is funded by NDB, Make in India condition is not applicable.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
209	P2	VI B		List of total no. of interlocking stations.	Details required as list of total number of interlocking stations is not mentioned.	Interlocking stations shall be provided during signalling detailed design stage
210	P2	VI B		List of total no. of platform supervisory booth at all stations.	Details required as list of total number of PSB is not mentioned.	One PSB shall be provided at each platform. Please refer clause no 2.6.12.15 for the same.
211	P2	VI B		List of total no. of parking at each stations.	Details required as list of total number of Parking at each station is not mentioned.	Parking Details are provided in the drawings. Please refer drawings
212	P2	VI B		List of total no. of signal crossing points at each stations.	Details required as list of total number of signal point crossing at each station is not mentioned.	Following stations are Signal Point crossing stations 1.Poonamalle bypass metro & Poonamalle metro 2.Teliyagaram & Porur Bypass 3.Karambakkam& Valasaravakkam 4.Avichi School & Saligramam 5.Panagala Park& Kodambakkam 6.kutchery Road & Light House
213	P2	VI B		List of total no. of RAMP at each stations/Depot.	Details required as list of total number of RAMP at each station/Depot is not mentioned.	One RAMP at Kodambakkam Power House and other is at Poonamalle Depot
214	P2	VI B		Add	VMS must suport Occupancy Dashboard Utility allows you to track the number of people entered or exited from a specific area or premises or pathway. This utility helps to manage the space in commercial buildings to take appropriate actions based on the number of people entered or exited.	VMS is not under scope of this tender. Appendix B is included for reference purpose.
215	P2	VI B		Add	VMS Must supports SIRA compliance with Video Guard Agent. This is to meet the specifications defined as part of the City wide Surveillance initiative by the Security Industry Regulatory Agency (SIRA) of Dubai, UAE, and being adopted across Middle-East countries.	VMS is not under scope of this tender. Appendix B is included for reference purpose.
216	P2	VI B		Add	VMS must support Inter NVR sync playback features helps user to synchronize the playback video feed across multiple cameras and recorders.	VMS is not under scope of this tender. Appendix B is included for reference purpose.
217	P2	VI B		Add	The Anonymization feature must supports the following type of masking: <ul style="list-style-type: none"> Blur: Blurs the Identifiable object Pixelize: Pixelizes the Identifiable object 	Please follow tender conditions.
218	P2	VI B		Add	This feature is also part of Privacy Protection setting and to meet the EU GDPR compliance standards easily. This is to restrict all users in a surveillance system to perform Playback operation. While performing playback operation at least two people from different roles should authenticate.	Query is not clear. Please follow tender conditions.
219	P2	VI B		Min BOQ not found in RFP document.	Please share min BOQ.	Tender is based on Design and built requirement. Please follow the tender conditions.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
220	P2	VI B	4.1 Introduction	4.1.2.3 The CCTV Field Equipment shall be installed throughout selected areas within all sites including Stations, RSSs, Depots, Broadly the CCTV system shall cover the following but not limited to: (a) Stations: Platforms, Concourses (both Paid & Unpaid), Commercial Areas, Ticket Gates, Gate Lines, Elevators, Escalator Landings, Staircases, Help Points, Entrances, Exits, Sky walks (wherever applicable), Security Checking Machines, Parking areas, Back of House Rooms/ corridor, Station Control Room, Ticket Office Machine (TOM) Room, Ticket Vending Machine (TVM), Cash Room, Cash Transfer Route, Pump Room, Technical Room Corridor, DG Set, Entry to via-duct and Via-duct (overview), vicinity of station area (entry I exit structures , etc.)	How many stations would have parking areas/skyways?	Please refer drawings for parking details
221	P2	VI B	4.1. Introduction	4.1.5.1.9 The video signal output of all the cameras in various locations at stations shall be fed to the TER at OCC & BCC and through Ethernet switch network distribute these video signals to the following: ▪ Network Video Recorders at OCC & BCC ▪ Video Signal for Video Analytics. ▪ The MMIs hardware with OS at SCR. SSR (station Security Room) (where available) and at the security booth(s) at the relevant station ▪ Any other location to be decided by the Engineer at the time of detailed design.	Kindly provide the list of stations with SSR (Station Security Room)	Please refer stations drawings list
222	P2	VI B	4.1. Introduction	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 scope of hardware to be factored by ASA-05 contractor for CCTV Management System, NMS, and ISMS system, or shall the same be supplied by Other designated Contractor as sizing of required hardware shall not be possible without knowledge of the proposed applications.	CCTV Management System, NMS, and ISMS system shall be supplied by Other designated Contractor (ASA-06).
223	P2	VI B	4.1.2.10	In emergencies or as required it shall, however, be possible, without any additional resources, to view images from any / all cameras and / or record any dynamically selected location on the system.	Kindly elaborate.	Clause is self-explanatory. This clause is related to viewing client and recording system which shall be under scope of OCC/BCC Contractor however ASA 05 Contractor shall interface as per tender requirements, For further details Please refer Chapter 4, 5, Chapter 12 ,Chapter 13 and reference Appendix B of Technical specification for detailed functional and interface requirements

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
224	P2	VI B	4.1.2.10	4.1.2.10 In emergencies or as required it shall, however, be possible, without any additional resources, to view images from any / all cameras and / or record any dynamically selected location on the system.	We understand that this requirement is only at Central Management Server location. Please confirm.	Integrated Security Management system (ISMS) and Video Management system are not under the scope of this RFP. Contractor shall interface with OCC/BCC CCTV Contractor for seamless integration of Station and Depot CCTV system. Please refer clause 4.1.2.7 in Addendum 1.
225	P2	VI B	4.1.2.16	4.1.2.16 All offered camera models should be UL/NDAA Compliant Products as per cybersecurity prospective.	please change to All offered camera models should be NDAA Compliant Products .	Please refer Addendum 1 for revised bid condition
226	P2	VI B	4.1.2.3	The CCTV Field Equipment shall be installed throughout selected areas.....	The provisions for cable laying in all camera mounting locations, like DWC pipe / conduits laying & related wall chipping, plastering or any civil related works shall be in Civil Contractor's scope. Please confirm.	Please refer Chapter 13 for demarcation of works between different project contractors
227	P2	VI B	4.1.2.3(e)	Minimum 3 nos. cameras shall be provided at each parking area/skyways in P & C area at stations and shall be connected to the associated station CCTV server. Wherever required number of cameras shall be increased based on the parking area size.	Please provide the list of total no. of parking area/skyways in P&C at stations.	Parking Details are provided in the drawings. Please refer drawings
228	P2	VI B	4.1.2.3(e)	Minimum 3 nos. cameras shall be provided at each parking area/skyways in P & C area at stations and shall be connected to the associated station CCTV server. Wherever required number of cameras shall be increased based on the parking area size.	Please provide the list of total no. of parking area/skyways in P&C at stations.	Parking Details are provided in the drawings. Please refer drawings
229	P2	VI B	4.1.2.3.b	Depots: Operational & Administrative rooms, DCC room, Back of House Rooms/ corridor, Equipment Rooms, Entrances, Exits, Security Checking Machines, Parking areas, Depot boundaries (Perimeter), Train Entry /Exit from main line (via-duct) and/or at grid, Level Crossings, Workshops, Plant rooms, Stabling Lines, Inspection lines, Assembly points, Tunnel area coverage (Cross Passage etc.).	Please provide the list of total no. of Level Crossings, Inspection lines, Stabling lines, Cross passages & Ramps at the Depot of Corridor 4.	i) One RAMP is at Kodambakkam Metro and Other at Poonamalle Depot. ii) Total 7 Cross passages are provided in Corridor 4 iii) Total 9 inspection lines are available in the Poonamalle Depot iv)14 Stabling lines are provided at Poonamalle Depot V) No level crossings
230	P2	VI B	4.1.2.4	The station (including RSS, Parking & specifically identified theft prone track area)surveillance CCTV system.....	Please provide the list of RSS in Corridor 4, parking areas & specially identified theft prone area at stations.	Two RSS's are Provided in Corridor 4 One is at Alwarthiru Nagar and Other is at Poonamalle Depot
231	P2	VI B	4.1.2.4	The station (including RSS, Parking & specifically identified theft prone track area) surveillance CCTV system both live and recorded videos shall be accessed simultaneously from the following locations as a minimum.	Please provide the list of RSS, parking & specially identified theft prone area at stations.	Two RSS's are Provided in Corridor 4 One is at Alwarthiru Nagar and Other is at Poonamalle Depot
232	P2	VI B	4.1.2.4	The station (including RSS, Parking & specifically identified theft prone track area) surveillance CCTV system both live and recorded videos shall be accessed simultaneously from the following locations as a minimum.	Please provide the list of RSS, parking & specially identified theft prone area at stations.	i)Parking details are provided in the drawings. ii)Two RSS's are Provided in Corridor 4 One is at Alwarthiru Nagar and Other is at Poonamalle Depot

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
233	P2	VI B	4.1.2.7	Video recording system shall provide primary recording at the OCC and mirror recording at BCC for all, CMRL corridor 4 stations. The local recording shall be provided in the depots itself and mirror recording at the OCC or any other suitable location. The primary recording of OCC shall be done at OCC and the mirror recording shall be at BCC	As per our understanding primary recording location for all stations is OCC and mirror recording location is BCC, which requires high network bandwidth from stations to OCC/BCC. We suggest to consider the primary recording at respective station itself and mirror recording at the adjacent station. The same architecture is implemented in previous Chennai Metro projects. Kindly confirm.	Please refer revised Bid condition in Addendum 1
234	P2	VI B	4.1.2.7	Video recording system shall provide primary recording at the OCC and mirror recording at BCC for all, CMRL corridor 4 stations. The local recording shall be provided in the depots itself and mirror recording at the OCC or any other suitable location. The primary recording of OCC shall be done at OCC and the mirror recording shall be at BCC.	In general the Camera feeds are stored locally at station NVRs only to optimize the network bandwidth as sending all the streams to OCC might lead to network congestion. Kindly reconsider.	Please refer revised bid condition in Addendum 1
235	P2	VI B	4.1.2.7		Does local recording required at depot.	Please refer revised Bid condition in addendum 1
236	P2	VI B	4.1.2.8	"Video Recording system provision shall not be in scope of this RFP and shall be provided by other designated OCC/BCC contractor"	"From the clause given in the RFP we understand bidders scope for the CCTV video surveillance system is limited to supply and installation of "Camera + Cabling required at the station " While all front end application software and related hardware such as servers , OS, DB workstation at station & depot and any other related equipments shall be provided by other contactors. please confirm if our understanding is correct.	Please refer Chapter 4, Chapter 12 ,Chapter 13 and reference Appendix B of Technical specification for detailed functional and interface requirements
237	P2	VI B	4.1.2.9	"Contractor shall interface with OCC/BCC CCTV Contractor for seamless integration of Station and Depot CCTV system with Integrated Security Management system (ISMS). Details of ISMS is given as Appendix B of this document. Contractor shall refer Appendix B for seamless integration with ISMS for Video management recording."	From the clause given in RFP we understand the ISMS system along with the video management/recording system shall be provided by other contractor. Please confirm if our understanding is correct.	Integrated Security Management system (ISMS) and Video Management system are not under the scope of this RFP. Contractor shall interface with OCC/BCC CCTV Contractor for seamless integration of Station and Depot CCTV system. Please refer clause 4.1.2.7 in Addendum 1.
238	P2	VI B	4.1.2.9	Contractor shall interface with OCC/BCC CCTV Contractor for seamless integration of Station and Depot CCTV system with Integrated Security Management system (ISMS). Details of ISMS is given as Appendix B of this document. Contractor shall refer Appendix B for seamle	Suggest to Keep VMS system only integrated with ACCESS Control	Tender condition shall prevail.
239	P2	VI B	4.1.4.3 & 4.1.4.5	The CCTV system shall have a system availability of better than 99.977%. & The availability requirement of CCTV equipment shall better than 99.95%	Both the clauses are contradictory. Kindly amend	Please refer revised bid condition in addendum1

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
240	P2	VI B	4.1.5.1.3	VMS and recording not port of this RFP , shall be provided by other designated OCC.BCC contractor	camera compatibility need to check at design phase , can OCC/BCC contrator proposed VMS shared to check the compatibility	Please refer Chapter 4, 5,Chapter 12 ,Chapter 13 and reference Appendix B of Technical specification for detailed functional and interface requirements
241	P2	VI B	4.1.5.1.8	System shall use video signals from various types of indoor / outdoor IP cameras installed at different locations, process them for viewing on workstations / monitors simultaneously at Central Control Room (OCC & BCC) and local control rooms (SCR and at Station Security room) at each station. Network Video Recording system shall provide local recording at OCC itself and mirrored recording (at BCC) for all CMRL Corridor 4 stations. Joystick and mouse-keyboard controllers shall be used for Pan, Tilt, Zoom and other functions of desired PTZ cameras. The configuration of the cameras, monitors / workstations shall be provided from the OCC, BCC and any other locations simultaneously.	We infer that this system processing for viewing, Network Video Recording System, the Joystick & mouse-keyboard controllers for PTZ, shall be part of the ISMS vendor / contractor's scope of works, hence not part of this RFP. Kindly confirm.	Integrated Security Management system (ISMS) and Video Management system are not under the scope of this RFP, however hardware for viewing client shall be under scope of ASA 05 Contractor.
242	P2	VI B	4.2.1.5	4.2.1.5 Laptop Computers with preloaded CCTV system software shall be supplied as part of Telecom contract as per Appendix D, so that the technician can connect and do the maintenance.	Laptop computers with preloaded CCTV system software shall be supplied as part of Telecom Contract as per Appendix D, so that the Technician can connect on same secure network and do the maintenance. This will ensure that the system is not misused	Tender condition shall prevail.
243	P2	VI B	4.2.1.7	Central system should have management of all devices	central systemis overall management of devices and application or its integrated to central system please clarify	Central ISMS system is not in scope of this tender. Please refer reference ISMS specification as Appendix B of Technical specification.
244	P2	VI B	4.2.2.1	Add	All Cameras Must be Secured by Default certified	Please follow tender conditions.
245	P2	VI B	4.2.2.1	Add	All Cameras must Support edge analytics People counting, Loitering,Tripwire/Intrusion , SMD	Please follow tender conditions.
246	P2	VI B	4.2.2.1	Add	All Cameras must support Audio Line In /Out	Please follow tender conditions.
247	P2	VI B	4.2.2.1	Add	All Cameras must have Alarm In/Out	Please refer Addendum 1 for revised bid condition.
248	P2	VI B	4.2.2.1	Add	All Camera must support 256Bit encryption	Tender condition shall prevail
249	P2	VI B	4.2.2.1	Add	All Cameras support 256 GB SD card Slot	Please refer Addendum 1 for revised bid condition.
250	P2	VI B	4.2.2.1.7	Focal Length should be of following as minimum. Lens 2.8-12mm, Lens 3-50mm & Lens 8-80mm. 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.	The lens range vary from OEM to OEM. The lens selection will be done based on the area of coverage required in the design brief.	Tender condition shall prevail.
251	P2	VI B	4.2.6 High Definition IP Fixed Box Camera (Day / Night):	4.2.6 High Definition IP Fixed Box Camera (Day / Night):	Please allow for Box/ Bullet Cameras	Tender condition shall prevail.

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252	P2	VI B	4.2.6 High Definition IP Fixed Box Camera (Day / Night):	Sensitivity @ F1.2, 30 IRE or better Color Mode 0.35 lux or better Night Mode (Black & White) 0.08 lux or better	Please allow sensitivity @ F2.0, 30 IRE or better	Tender condition shall prevail.
253	P2	VI B	4.2.6(d)	CompressionTechnology: 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	Request you to please change the compression technique to H.264 as it is commonly used technique in all metro projects.	Tender condition shall prevail.
254	P2	VI B	4.2.6.1 High Definition IP Fixed Dome Camera (Day/Night)	Sensitivity @F1.2, 30 IRE or better Color Mode 0.35 lux or better Night Mode (Black & White) 0.05 lux or better	Please allow sensitivity @ F1.6, 30 IRE or better	Tender condition shall prevail.
255	P2	VI B	4.2.6.2 High Definition IP Fixed Bullet Camera (Day / Night):	Sensitivity @ F1.2, 30 IRE or better Color Mode 0.07 lux or better Night Mode (Black & White) 0.06 lux or better	Please allow sensitivity @ F1.6, 30 IRE or better	Tender condition shall prevail.
256	P2	VI B	4.2.6.3 High Speed, High Definition IP PTZ Dome Camera (Day / Night)	Preset Speed Pan 200° per second, Tilt 100° per second	Please allow for Preset Speed Pan 180° per second, Tilt 90° per second	Please refer Addendum 1 for revised bid condition.
257	P2	VI B	4.3	CCTV Video analytics - Table 4.8		Query is not clear
258	P2	VI B	4.4 Brief Description of Stages	3) BOCC Integration at Nandanam Metro Bhavan.	Kindly clarify whether BOCC/BCC shall be located at Metro Bhavan/HQ.	BOCC/OCC locations are networked via FOTS and hence the integration shall not depend on location. The BOCC/OCC locations may/may not change in future.
259	P2	VI B	5.1.1.2	The ACIDS shall be provided at Stations, Depots, RSS & Administrative Building. The ACIDS in stations, as a minimum, shall be provided in important rooms like SCR, Ticket Offices, EFO's, Service gates (near AFC gate array), Technical rooms (Power Supply, Signalling and Low Voltage technical rooms), ASS, Crew control rooms and other important rooms. In Depots, ACIDS shall, as a minimum, be provided in technical rooms (Power Supply, Signalling, Telecom, AFC and Low	Please provide the list of number of station and depots.	Please refer chapter 1 of Section VIB Technical Specifications

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				Voltage technical rooms), DCC including main entry & exit gates to control access into important equipment rooms and critical areas. Location of the ACIDS system shall be finalized during detailed design stage.		
260	P2	VI B	5.1.2 General Requirements for Security Access Control System	5.1.2.2 Management of Authentication The Security Access Control System shall provide the authentication function with IC card and biometrics such as finger vein authentication.	Kindly confirm the requirement is finger vein authentication or finger print authentication?	Please refer revised clause 5.1.2.2
261	P2	VI B	5.1.2.2	Management \of Authentication The Security Access Control System shall provide the authentication function with IC card and biometrics such as finger vein authentication.	Please provide us the specification of card reader and Biometric reader as this information is missing	Please refer Chapter 5,Chapter 12 ,Chapter 13 and reference Appendix B of Technical specification for detailed functional and interface requirements
262	P2	VI B	5.2.1.3	Exit from an ACS controlled room shall be provided by means of pushing an exit button under normal conditions.	All the doors shall be one side access controlled with push button exit?	All the doors shall be one side access controlled with push button exit under normal conditions.
263	P2	VI B	5.2.4.1	Sensor Controller 5.2.4.1 It shall be able to display all the operational status and send the alarm signals to the ACS server and HMI. It shall also be able to detect sensor failure and the damage of connection wire.	Please confirm that the requirement is regarding sensor controller is door sensor	Referred Clause is regarding Sensor Controller which is a part of Intrusion detection system.
264	P2	VI B	5.2.4.1	It shall be able to display all the operational status and send the alarm signals to the ACS server and HMI. It shall also be able to detect sensor failure and the damage of connection wire.	The system detects the sensor failure not the cable damage. It is recommended to remove the cable damage detection.	Please refer Addendum 1 for revised bid condition.
265	P2	VI B	5.3.1	Centralised Access Management System including OCC/BCC Software application and Station HMI client software application shall not be in scope of this RFP and shall be provided by other designated OCC/BCC contractor as Integrated Security Management System(ISMS).	Need more clarification on the same. Integrated Security Management System(ISMS) is it going to be a separate RFP ?	Integrated Security Management system (ISMS) is not under the scope of this RFP.
266	P2	VI B	5.3.1.c	(c) Centralised Access Management System including OCC/BCC Software application and Station HMI client software application shall not be in scope of this RFP and shall be provided by other designated OCC/BCC	Please confirm Integrated Security Management System(ISMS) will be provided by other contractor	Integrated Security Management system (ISMS) is not under the scope of this RFP. Contractor shall interface with OCC/BCC CCTV Contractor for seamless integration.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
				contractor as Integrated Security Management System (ISMS).		
267	P2	VI B	5.4 Functional Overview	5.4.8 Similar card issuing and cancellation facilities through a Workstation shall be provided.	We understand the requirement is for workstation client connected to metro network. Kindly provide number of such clients/workstations required.	Two number of card issuing and cancellation facilities shall be hosted in workstations provided by ASA-06 in CSS room at OCC.
268	P2	VI B	5.4.10	The system shall be able to import the data into standard format as pdf,xls ,xlsx,html and csv etc.	Kindly consider pdf and csv format and that can be converted xls,xlsx and html.	Tender condition shall prevail.
269	P2	VI B	5.4.4.(h)Status of Door closed/ Open shall be monitored at ACIDS HMI at the nearest station's SCR and OCC/BCC. It shall be monitor and record information of entry/exit at the doors of the cross passages and shall be interface with CCTV camera.	We shall provide NO/NC status from the Door Sensor to the Door Controller. The information shall be provided from the Door Controller to the HMI [which is not part of scope of this RFP]. Kindly confirm.	The information shall be provided from the Door Controller to the HMI. Hardware for viewing client shall be under scope of ASA 05 Contractor
270	P2	VI B	5.4.4.f	It shall be possible to configure alarm / pop up to get displayed locally (SCR – HMI) or centrally at OCC / BCC CER.	We understand that all ACID events and alarms will be only pou up on local stations and depot workstations and OCC/BCC. Please clarify.	All ACIDS events and alarms will be popped up on Station & depot HMI and at OCC/BCC. It shall be possible for the user to configure alarm pop-up to get displayed.
271	P2	VI B	5.4.5(i)	Access control reader unit shall have four states monitoring capability	Kindly elaborate the requirement	Four states monitoring capability shall be 4 states alarm monitoring including detection of Cable short circuit and open circuit etc.
272	P2	VI B	5.4.6	Smart Cards used for the Access control System shall be compatible with the Automatic Fare Collection system and shall be provided by AFC contractor such that the card can serve the dual purpose of Access control as well as Employee Pass for travel on the metro System.	Need specification of the smart card going to be used for the Access control system.	ISO 14443 Type A & Felica Type C Cards shall be used. Please refer Chapter 5 and Chapter 13 of Technical Specification for details.
273	P2	VI B	5.4.6	Smart Cards used for the Access control System shall be compatible with the Automatic Fare Collection system and shall be provided by AFC contractor such that the card can serve the dual purpose of Access control as well as Employee Pass for travel on the metro System.	Kindly share the specification of the smart cards going to be used for the Access control system / AFC System	ISO 14443 Type A & Felica Type C Cards shall be used. Please refer Chapter 5 and Chapter 13 of Technical Specification for details.
274	P2	VI B	5.4.6	5.4.6 Smart Cards used for the Access control System shall be compatible with the Automatic Fare Collection system and shall be provided by AFC contractor such that the card can serve the dual purpose of Access control as well as Employee Pass for travel on the metro System.	Please provide the details of the AFC readers.	ISO 14443 Type A & Felica Type C Cards shall be used.
275	P2	VI B	5.4.8	Similar card issuing and cancellation facilities through a Workstation shall be provided.	We understand centrally the dedicated workstation for card issuing and cancellation at OCC/BCC. Please clarify.	Two number of card issuing and cancellation facilities shall be hosted in workstations provided by ASA-06 in CSS room at OCC.
276	P2	VI B	5.4.9	The employee master database of CMRL shall be synchronized online with the ACIDS system data base for authentication.	We understand that all employee details will be synchronized and store in ACIDS application database at centrally OCC/BCC. Please clarify.	All employee details will be synchronized and stored centrally and locally.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
277	P2	VI B	5.5.2.1	5.5.2.1 Access Point Controllers shall be IP based and installed at entry side of access point (door, barrier) either individually for each door/barrier or for a group of doors/barriers (as per detailed design of the Contractor, in such a way so as to meet all prescribed functional & performance requirements	The access controller installed on the entry side of the door is security threat. It is recommended that the access controller to be installed insider/secured area.	Please refer Addendum 1 for revised bid condition.
278	P2	VI B	5.5.2.2	Temperature range shall be 0 to 50°C for indoor installation, and same shall be 0 to 70°C outdoor installation.	Outdoor temperature range is very high. 0 to 60°C is suitable for the outdoor readers. Please allow 0 to 60°C outdoor installation.	Please refer Addendum 1 for revised bid condition.
279	P2	VI B	5.5.2.2	Operate in conjunction with the access point electrical lock to allow or prohibit access.	At access point generally electromagnetic locks are used. So kindly consider EM lock instead electrical lock and update the clause	Please refer clause 5.5.3.2 (a)
280	P2	VI B	5.5.2.2	Temperature range shall be 0 to 50°C for indoor installation, and same shall be 0 to 70°C outdoor installation.	Outdoor temperature range is high. 0 to 60°C is suitable for the outdoor reader.	Please refer Addendum 1 for revised bid condition.
281	P2	VI B	5.5.2.2	Temperature range shall be 0 to 50°C for indoor installation, and same shall be 0 to 70°C outdoor installation.	Outdoor temperature range is high. 0 to 60°C is suitable for the outdoor reader. Expectation of 70°C looks to be available only with one or two OEM and choice of reader are very limited.	Please refer Addendum 1 for revised bid condition.
282	P2	VI B	5.5.2.2.f	Temperature range shall be 0 to 50°C for indoor installation, and same shall be 0 to 70°C outdoor installation.	Outdoor temperature range is high. 0 to 60°C is suitable for the outdoor reader. The range 0 to 70°C is limited to less OEMs & the cost of the readers are very high. [Typically used in Furnace based industrial applications]	Please refer Addendum 1 for revised bid condition.
283	P2	VI B	5.5.3.1	(f) System shall be able to detect and provide alarm in case of attempt to remove or tamper in reader.	This insisting for a OSDP reader.	Clause requirement to be complied. OSDP reader shall be provided. Please refer revised Bid condition
284	P2	VI B	5.5.3.2	5.5.3.2 Electrical Locks (d) The electrical locks may be configured as either ‘fail open’ or ‘fail close’, as appropriate to the access point location, on lock failure, power failure, fire alarm or emergency site evacuation	The Electromechanical locks are powered locks. The fail close mode can not be achieved in case of power failure.	Please refer Addendum 1 for revised bid condition.
285	P2	VI B	5.5.4.2	The contractor shall provide electrical pulsed fences at RSS Building.	Please confirm for which location of RSS building in Corridor 4 to consider Power fencing. Also, kindly provide us the external perimeter drawing of RSS Building, for the design of Power fencing.	Two RSS's are provided in Corridor 4 1.Poonamalle Depot 2.Alwarthirunagar For Poonamallee RSS length is 74 metre , Perimeter is 234m and area 31.82 Sq.m For Alwartirunagar RSS length is 90 metre , Perimeter is 248m and area 30.60 Sq.m .Contractor shall accommodate minor changes occurs during the construction of RSS. Please refer addendum for RSS layout attached as Annexure A

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
286	P2	VI B	5.5.4.2	An assessment shall be undertaken during the Detailed Design phase to determine the category of risk level to be applied, in accordance with EN 50131. Initially, the risk level shall be assumed to be high-risk which is classified as Grade 3.	Please clarify this requirement	This clause is regarding Grade of risk as per EN 50131. Please refer EN 50131 for further details.
287	P2	VI B	5.5.4.3	An assessment shall be undertaken during the Detailed Design phase to determine the category of risk level to be applied, in accordance with EN 50131. Initially, the risk level shall be assumed to be high-risk which is classified as Grade 3.	Please clarify this requirement	This clause is regarding Grade of risk as per EN 50131. Please refer EN 50131 for further details.
288	P2	VI B	5.5.4.8,5.5.4.9, 5.5.4.10, 5.5.4.11 & 5.5.4.12	The HMI for the ACIDS system shall be....	We understand that these functions are just for our reference and the related MMI such as PC / Workstation for station level & its application software shall not be in scope of this RFP and shall be provided by OCC/BCC Contractor. Please confirm. 2.Without knowing the hardware specifications for the Corridore Server / HMI, which is required for the OCC/BCC contractor. If it is going to be provided as a part of this RFP, we will have reliability issues between two different contractors. 3.Alternativley please provide the hardware specifications requirement for the same.	Functions shall be provided by HMI application which shall be under scope of OCC/BCC Contractor, however required information shall be provided from the Door Controller to the HMI Client through interfacing. Hardware for viewing client shall be under scope of ASA 05 Contractor. Please refer Chapter 10 for detailed specifications of HMI hardware.
289	P2	VI B	5.5.9.1	All Access Control sites shall be connected/networked via FOTS system. The mode of networking i.e. either through Fiber or IP interface shall be decided during detailed design stage. The data base shall be centralized at the OCC and BCC containing the data of all the personnel authorized and issued with access control cards through OCC, BCC & Depots system. All changes pertaining to an area shall be synchronized from the central data base. Configuration of new card shall be done from Card Work station, which shall be part of ACS network.	Card issue station to be considered at all stations ? Please clarify the locations for this requirement.	Two number of card issuing and cancellation facilities shall be hosted in workstations provided by ASA-06 in CSS room at OCC.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
290	P2	VI B	5.7 (2)	<p>System Expansion and Spare Capacity</p> <p>a) In addition to the requirements given in this Chapter of this Technical Specification, requirements on expandability of the ACS are described in the following clauses.</p> <p>b) Telecom contractor shall interface with ISMS for integration of Access point controllers and card/biometric readers with ISMS.</p> <p>c) It shall be possible to expand ACS by additional 30% into the Access Control System / network without affecting the performance of the Access Control System / network. Any limits on this requirement, shall be specified by the Contractor for review by the Employer.</p> <p>d) Software databases working in an off-line or on-line mode of operation shall be designed to allow for ease of expansion. Where new database structures are implemented with fixed sizes, at least 30% spare capacity of each entry type and attribute shall be provided.</p> <p>e) The Contractor shall submit details of the spare capacity and expansion capacity for approval of the Employer.</p>	Any spare capacity to be considered during design? Is it to be on total capacity or station wise ?	Spare capacity shall be based on final approved design. It shall be total capacity
291	P2	VI B		<p>Façade Clock at CMRL HQ/Metro Bhawan.</p>	<p>Please share BoQ / specification for façade clock. We understand that the façade clock design shall be as per station architecture and aesthetics, as such we request below technical specification for facade clock:</p> <ol style="list-style-type: none"> 1. Synchronised Motor Movement 2. Illumination tube or LED in background 3. Hands driven by power supply 240V AC, consumption less than 25VA. 4. Temperature Range: -30 to +55 deg. C 5. Internal battery to keep internal time. 6. Skeleton dials. 8. 1-2 mar Dia of Dial. 9. Should be from same OEM Make as Master Clock System. <p>Please confirm our understanding as well as provide the actually required quantity for station locations / HQ / Metro Bhawan.</p>	<p>Facade clock scope is under ASA06 Tender(OCC/BCC Contractor).</p> <p>Please refer revised bid condition in Addendum 1.</p>

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
292	P2	VI B		c) Display digital clock at various locations shall display 4 characters viz.time in HH:MM format and date in DD:MM format.	<p>We understand that the Display digital clock at various locations shall display 4 characters viz.time in HH:MM format and date in DD.MM format alternatively.</p> <p>In addition for value addition at negligible cost, the display digital may also featured to display temperature alternatively in °C or °F format.</p> <p>Please confirm our understanding.</p>	Please follow the tender conditions.
293	P2	VI B			<p>We observed that there are no display clocks for passengers in platform area or for train operator in platform end-to-end for smooth & timely operation of metro trains.</p> <p>Requesting your kind attention for addition of outdoor clocks at Platform as per following suggestion.</p> <p>Suggestion: As there are a lot of development made according to latest technology & trend where analog clocks are available with auto turn on/off illumination, centrally managed using NMS, low power consumption & controlled by PoE on single cable saving cost of cabling, OEM recommends to the following type of clocks at station platform:</p> <ul style="list-style-type: none"> - Double sided analogue display clocks of 60 cm dial diameter with automatic turn on / turn off LED illumination features at selected (configurable) hours or Double sided digital display clocks (100 mm digit height) in the middle of the platform for passengers to be visible in all lightening conditions - Single sided digital display clocks (170mm digit height) in Platform end-to-end diagonally for train operators. 	Clocks for Train operator shall not be required for UTO operation. For Passengers, Clock shall be associated with PIDS display.
294	P2	VI B		General	We understand only clocks at station needs to be provided by telecom bidder while all the other systems at the OCC and BCC shall be provided by other contractor . Please confirm if our understanding is correct.	Master Clock at OCC/BCC shall not be under scope of this RFP and shall be provided by other designated OCC/BCC contractor. Slave clocks at stations,depot ,RSS etc including cabiling,fixtures,Surge protection devices etc shall be under scope of ASA 05 Contractor.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
295	P2	VI B		Additional clause	<p>We observed that there are no display clocks for passengers in platform area or for train operator in platform end-to-end for smooth & timely operation of metro trains.</p> <p>Requesting your kind attention for addition of outdoor clocks at Platform as per following suggestion.</p> <p>Suggestion: As there are a lot of development made according to latest technology & trend where analog clocks are available with auto turn on/off illumination, centrally managed using NMS, low power consumption & controlled by PoE on single cable saving cost of cabling, OEM recommends to the following type of clocks at station platform:</p> <ul style="list-style-type: none"> - Double sided analogue display clocks of 60 cm dial diameter with automatic turn on / turn off LED illumination features at selected (configurable) hours or Double sided digital display clocks (100 mm digit height) in the middle of the platform for passengers to be visible in all lightening conditions - Single sided digital display clocks (170mm digit height) in Platform end-to-end diagonally for train operators. 	<p>Please follow the tender conditions.</p> <p>Clocks for Train operator shall not be required for UTO operation. For Passengers, Clock shall be associated with PIDS display.</p>
296	P2	VI B	6.2	<p>Overview of Clock System</p> <p>At OCC & BCC, Master Clock system to be provided under Telecom Contract shall consist of following major components:</p> <ul style="list-style-type: none"> (a) A GPS Master Clock Unit. (In redundancy) (b) Interface to GPS. (In main and redundant Unit) (c) Digital Slave clocks, at all stations / depot / OCC / BCC / Selected locations of CMRL HQ (d) Façade Clock at CMRL HQ/Metro Bhawan. (e) All power and signal cables, external surge protection devices etc. (f) Both primary and secondary fixtures for installation. 	Please confirm whether this scope of works is required under this Corridor 4 Telecom package works.	Master Clock (MCLKS) system is under scope of ASA06 Contractor. Please refer revised bid condition in Addendum 1.
297	P2	VI B	6.2	c) Digital Slave clocks, at all stations / depot / OCC / BCC / Selected locations of CMRL HQ	Kindly mention selected locations of CMRL HQ.	Provision of clocks at OCC/BCC & CMRL HQ shall not be under scope of this tender. Please refer Addendum 1 for revised bid condition.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
298	P2	VI B	6.2 (a)	At OCC & BCC, Master Clock system to be provided under Telecom Contract shall consist of following major components: A GPS Master Clock Unit. (In redundancy)	<p>We understand that the redundant Masterclock system in 1+1 configuration optically linked to each other shall be kept at OCC as a main unit and another hot standby unit in same configuration shall be kept at BCC so that Master Clock services are uninterruptible available and survive during any one failure of hardware, cabling or software.</p> <p>Please confirm if our understanding is correct.</p> <p>Further, we observed that, the NMS / MMI is missing in specification which is required to be provided at OCC/BCC for supervision and maintenance of Master Clock System including stations / depot / HQ / OCC / BCC clocks.</p> <p>Requesting your kind attention for addition of MMI at OCC/BCC for supervision and maintenance of all stations / depot / OCC / BCC clocks.</p>	GPS Master clock unit is not under scope this tender
299	P2	VI B	6.2 (d)	Façade Clock at CMRL HQ/Metro Bhawan.	<p>Please share BoQ / specification for façade clock.</p> <p>We undertand that the façade clock design shall be as per station architecture and aesthetics, as such we request below technical specification for facade clock:</p> <ol style="list-style-type: none"> 1. Synchronised Motor Movement 2. Illumination tube or LED in background 3. Hands driven by power supply 240V AC, consumption less than 25VA. 4. Temperature Range: -30 to +55 deg. C 5. Internal battery to keep internal time. 6. Skeleton dials. 8. 1-2 mtr Dia of Dial. 9. Should be from same OEM Make as Master Clock System. <p>Please confirm and provide the actuaal quantity required for station locations / HQ / Metro Bhawan.</p>	Facade clock scope is under ASA06 (OCC/BCC) Contractor. Please refer revised bid condition in Addendum 1.
300	P2	VI B	6.2 (d)	Façade Clock at CMRL HQ/Metro Bhawan.	please provide the specification of façade clock (i.e. size, dia lightening etc.)	Facade clock specifications are under scope of OCC/BCC Contractor. Kindly refer revised bid condition in Addendum 1.
301	P2	VI B	6.2 Overview of Clock System	In addition of above, MMI shall also be provided at CSS OCC & BCC for supervision and maintenance of all stations / depot / OCC & BCC clocks provided under Telecom.	Kindly confirm if the MMI at OCC and BCC shall be the scope of ASA-05 or Other designated Contractor Can this be integrated with other Workstation, or requirement is for standalone workstation, please confirm.	MMI at OCC and BCC shall be the scope of ASA-06. Please refer revised Bid condition in Addendum 1.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
302	P2	VI B	6.2(a)	A GPS Master clock Unit.(in redundancy)	<p>We understand that the redundant Master clock system in 1+1 configuration optically linked to each other shall be kept at OCC as a main unit and another hot standby unit in same configuration shall be kept at BCC so that Master Clock services are uninterruptible available and survive during any one failure of hardware, cabling and software.</p> <p>Please confirm our understanding.</p> <p>Further, we observed that, the NMS / MMI is missing in specification which is required to be provided at OCC/BCC for supervision and maintenance of Master Clock System including stations / depot / HQ / OCC / BCC clocks. Requesting your kind attention for addition of MMI at OCC/BCC for supervision and maintenance of all stations / depot / OCC / BCC clocks.</p>	Provision of GPS Master clock is not under scope of this tender.
303	P2	VI B	6.2(d)	Façade Clock at CMRL HQ/Metro Bhawan.	<p>Please share BoQ / specification for façade clock.</p> <p>We understand that the façade clock design shall be as per station architecture and aesthetics, as such we request below technical specification for facade clock:</p> <ol style="list-style-type: none"> 1. Synchronised Motor Movement 2. Illumination tube or LED in background 3. Hands driven by power supply 240V AC, consumption less than 25VA. 4. Temperature Range: -30 to +55 deg. C 5. Internal battery to keep internal time. 6. Skeleton dials. 8. 1-2 mtr Dia of Dial. 9. Should be from same OEM Make as Master Clock System. <p>Please confirm our understanding as well as provide the actually required quantity for station locations / HQ / Metro Bhawan.</p>	Facade Clock scope is under OCC/BCC Contractor and shall not be under scope of this tender. Please refer revised Bid condition in Addendum 1.
304	P2	VI B	6.2(d)	Façade Clock at CMRL HQ/Metro Bhawan.	<p>Please share BoQ / specification for façade clock.</p> <p>We undertand that the façade clock design shall be as per station architecture and aesthetics, as such we request below technical specification for facade clock:</p> <ol style="list-style-type: none"> 1. Synchronised Motor Movement 2. Illumination tube or LED in background 3. Hands driven by power supply 240V AC, consumption less than 25VA. 4. Temperature Range: -30 to +55 deg. C 5. Internal battery to keep internal time. 6. Skeleton dials. 8. 1-2 mtr Dia of Dial. 	Facade clock scope is under ASA06 Contractor. Please refer revised bid condition addendum 1.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
					9. Should be from same OEM Make as Master Clock System. Please confirm our understanding as well as provide the actually required quantity for station locations / HQ / Metro Bhawan.	
305	P2	VI B	6.2.2.	The MCS shall provide time-of-day display clocks at OCC & BCC, SCO, DCC etc.	Kindly elaborate SCO.	Master clock is not under scope of this tender.
306	P2	VI B	6.3.1	Master clock not in scope of RFP	Master clock is not in scope of this tender but all active , passive and redendent component mention are part of this tender please clarify	Para 6.3.1 have provided in this chapter for reference and understanding to the bidder for integration station and clock system with Master clock.
307	P2	VI B	6.3.1	Master Clock (Not in scope of this tender)	Please confirm, whether master clock supply is part of this RFP or not.	Master Clock System shall not be under scope of this RFP and shall be under ASA06 Scope (OCC/BCC Contractor).
308	P2	VI B	6.3.2.2	Digital Display large Clocks–Depot lobby, Depot main workshop,Operational areas and maintenance areas total quantity shall be minimum 6no's	Kindly elaborate 'operational areas & maintenance areas'.	Total quantity shall be minimum 6no's. Location shall be finalized during design.
309	P2	VI B	6.7.2.3 (c)		2) We observed that there are no display clocks for passengers in platform area or for train operator in platform end-to-end for smooth & timely operation of metro trains. Requesting your kind attention for addition of outdoor clocks at Platform as per following suggestion. Suggestion: As there are a lot of development made according to latest technology & trend where analog clocks are available with auto turn on/off illumniation, centrally managed using NMS, low power consumption & controlled by PoE on single cable saving cost of cabling, OEM recommends to the following type of clocks at station platform: - Double sided analogue display clocks of 60 cm dial diameter with automatic turn on / turn off LED illumination features at selected (configurable) hours or Double sided digital display clocks (100 mm digit height) in the middle of the platform for passengers to be visible in all lightening conditions - Single sided digital display clocks (170mm digit height) in Platform end-to-end diagonally for train operators.	Tender condition shall prevail. Clocks for Train operator shall not be required for UTO operation. For Passengers, Clock shall be associated with PIDS display.
310	P2	VI B	7.1.1.10	The FOTS equipment shall be located at every station, depot, OCC, BCC and RSS and connected to the	Kindly share the minimum BOQ requirement of Distribution and Access switches of both types i.e. Enterprise & Industrial Grade for the project.	This is design and built tender. Required FOTS details are given in Chapter 7. Bidder shall propose the design accordingly.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
				backbone fibers in a ring configuration to constitute the fiber backbone network.		
311	P2	VI B	7.1.1.2	This specification specifies the technical and performance requirements of the Fiber Optic Transmission System (FOTS) of the Telecom System and Subsystem for Corridor 4 of CMRL Phase II including Stations, Depot, RSSs, Etc.	As per requirement, FOTS equipment will be located at every station, depot, OCC, BCC and RSS. Please confirm the locations of RSS.	Two RSS's are Provided in Corridor 4 One is at Alwarthiru Nagar and Other is at Poonamalle Depot
312	P2	VI B	7.1.1.5	The FOTS backbone infrastructure shall have dedicated dark fibers which shall be provided by Signalling Contractor of CMRL Phase II as required for telecom subsystems and non- telecom subsystems of the rail project.	As per this clause we require minimum of 24 fiber for Telecom Subsystems both UP Track & DOWN Track.	Please refer Addendum 1 for revised bid condition.
313	P2	VI B	7.1.1.5	the FOTS backbone infrastruture shall dedicated drk fiber which shall be provided by signalling contrator of CMRL phase II as required for telecom subsystems and non telecom subsystems of rail project	Scope is just fiber connectivty till sub system interface connectivity is not is scope please clarify	Please refer revised bid condition in Addendum 1
314	P2	VI B	7.1.1.5	The FOTS backbone infrastructure shall have dedicated dark fibers which shall be provided by Signalling Contractor of CMRL Phase II as required for telecom subsystems and non-telecom subsystems of the rail project.	As understood from RFP OFC infrastructure will be executed by Signalling contractor, kindly confirm.	Please refer Addendum 1 revised bid condition
315	P2	VI B	7.1.1.6	The FOTS shall provide LAN connectivity between telecom subsystems and non-telecom subsystems of the rail project.	Please share the list of NON-Telecom interfacing contractors which are to be connected via FOTS.	Please refer interface chapter 14 of Section VIB Technical Specifications
316	P2	VI B	7.1.1.9	Provision should be there to avoid split brain problem.	We infer from this clause that the proposed FOTS should have the provision for Redundancy / Hot standby. Kindly confirm.	Tender clause is self-explanatory. Split brain cannot be termed as redundancy/hot standby. For redundancy requirement please refer Chapter 7 of TS.
317	P2	VI B	7.1.3 Scope of Supply 7.2.6.1 WAN Nodes	7.1.3 Scope of Supply Network equipment to provide LAN connectivity for OA/IT at Stations , Depots, RSS, ASS 7.2.6.1 WAN Nodes (a) The WAN shall connect all sites in ring topologies via WAN Nodes which shall be provided at all main sites including stations, OCC & BCC /HQ and depots.	Please share details for ASS & HQ locations and port/interface requirement	ASS shall be available at every station. Please Refer revised bid condition for clause 7.2.6.1 in addendum 1
318	P2	VI B	7.1.3(d)	Interface of Network Management system with OCC NMS which shall by provided by other designated Telecom Contractor.	Request to provide the NMS architecture for the FOTS.	Contractor shall interface with OCC/BCC Contractor for finalisation of NMS architecture during design stage. Also Please refer clause 7.2.9.1.7 regarding this.
319	P2	VI B	7.1.3(f)	Multi-Mode Optical Fiber Cables, connectors andODF for LANs	There is no requirement for Multi-mode optical fiber cables in our systems, hence the same will be Single-mode optical fiber cables. Kindly confirm.	Please refer Addendum 1 for revised bid condition.
320	P2	VI B	7.1.3(j)	Equipment cabinets, racks and cubicles	To maintain the aesthetics of the furniture, we request you to consider the same furniture contractor	Tender condition shall prevail.

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					to provide the CER cubicles also. Please remove from our scope of works.	
321	P2	VI B	7.1.4.2	After 6 month of revenue operation contractor shall compile and submitt performance report contractor responsible for necessary re-configuration and additional hardware requirement	performance accepted at time of acceptance of deliverables need to be comply pl conform	Tender condition shall prevail.
322	P2	VI B	7.1.4.3	Branching outdoor optical Fiber cables shall be provided for equipments in all RSSs, and other locations, requiring optical access from the nearest station Telecom Equipment Room (TER). Connectivity of OFC to all RSSs, and other locations will be responsibility of the Telecom contractor.	This requirement shall be in the scope of the Signalling Contractor, who is providing the dark fiber cables.	Clause is self-explanatory. Please refer revised other bid condition Addendum 1
323	P2	VI B	7.1.4.3	Branching outdoor optical Fiber cables shall be provided for equipments in all RSSs, and other locations, requiring optical access from the nearest station Telecom Equipment Room (TER). Connectivity of OFC to all RSSs, , and other locations will be responsibility of the Telecom contractor. The core count of the branching optical Fiber cables to RSSs shall be of min 24 Fibers, determined from the design of the related Subsystems or interfacing requirements with relevant Designated Contractors.	Please define the no. of RSS and distance from nearest station in Corridor 4.	Two RSS's are Provided in Corridor 4 One is at Alwarthiru Nagar and Other is at Poonamalle Depot Distance between Poonamalle RSS to Poonamalle Bypass metro station is approximately 700m Distance between Alwartirunagar RSS to Alwartirunagar metro station is approximately 650m
324	P2	VI B	7.1.4.5	The Contractor shall note that work of commissioning of the lines, depots and RSSs shall be carried out in stages.	Please clarify the stages of the works as mentioned in this clause.	Please refer Section 4 of Part 1 Tender document.
325	P2	VI B	7.1.4.6	The Contractor shall do all the cabling work for any third party interfaces.	What are the 3rd party interfaces and how many ports are required for these interfaces to be made available in the TER.	3rd party interfaces are such as interface with ASA 06 & ASA 08 Telecom contractor and other interface can be referred in Chapter 12 & 13 of technical specification.
326	P2	VI B	7.1.4.6	contractor shall do all the cabling work for any third party interfaces	very generic statement please clarify third party interfaces and locations	3rd party interfaces are such as interface with ASA 06 & ASA 08 Telecom contractor and other interface can be referred in Chapter 12 & 13 of technical specification.
327	P2	VI B	7.2.1.15.b	(b) Operational Telephones, and along with all terminations and accessories for Dark Fibers required up to RSS building provided by Telecom Contractor	This requirement shall be in the scope of the Signalling Contractor, who is providing the dark fiber cables.	Clause is self-explanatory. Please refer Addendum 1 for revised bid condition
328	P2	VI B	7.2.12 & clause 7.2.13	Layer 2 Features & Layer 3 Features	Since Layer 2 & layer 3 features are mentioned 2 times in PS documents. So, features mentioned in specified clause are for Access switches only since respective heading is missing as in some features it is mentioned that "this features is for core and distribution switch only" so remaning will be for access layer switch. Please clarify / confirm if separate access switches specification will be shared or our understanding is correct.	Please refer revised bid condition in Addendum1
329	P2	VI B	7.2.4.10	Armored OFC Cable to be used for indoor purpose also. Optical Patch Cords running inside the racks shall be housed in LSZH PVC flexible.	Does this Indoor Armored OFC Cable also has to be LSZH , Please confirm	Indoor Armourd OFC Cable shall be LSZH.

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330	P2	VI B	7.2.4.12	Concerning the list of fiber optic parameters, it shall include, but not be limited, to the following values: (a) Connector Loss <= 0.3 dB Each (b) Splice Loss < 0.1 dB Each (c) Reflectance <= -55 dB	As Per ANSI/TIA 568.3-D, the loss values should be as following:- (a) Connector Loss (Insertion Loss) <= 0.75 dB Each (b) Splice Loss <= 0.3 dB Each (c) Reflectance <= -35 dB (For Singlemode), <= -20 dB (For Multimode)	Tender condition shall prevail.
331	P2	VI B	7.2.4.2	The Optic Fiber Cable (OFC) infrastructure shall be formed and provided by Contractor by laying 144 core FO and two single mode optical Fiber cables, laid along two physically distinct routes, one alongside the up-track and the other alongside the down-track for entire Corridor 4 Stations and Depot.	This requirement shall be in the scope of the Signalling Contractor, who is providing the dark fiber cables.	Clause is self-explanatory. This requirement shall be under scope of ASA 05 Telecom Contractor.
332	P2	VI B	7.2.4.2	OFC infrastructure shall be formed and provided by contractro by laying 144 core FO and two single mode optice fiber cable	statement is confusing, understanding is 144 core Two single mode FO one for down stream and one for up stream , please clarify same	Tender clause is self-explanatory.
333	P2	VI B	7.2.4.2	The Optic Fiber Cable (OFC) infrastructure shall be formed and provided by Contractor by laying 144 core FO and two single mode optical Fiber cables, laid along two physically distinct routes, one alongside the up-track and the other alongside the down-track for entire Corridor 4 Stations and Depot.	Does all Outdoor Armored Fiber Cable has to be with HDPE jacket?	Please refer Clause no 7.2.4.9 for detailed HDPE requirements.
334	P2	VI B	7.2.4.2	The Optic Fiber Cable (OFC) infrastructure shall be formed and provided by Contractor by laying 144 core FO and two single mode optical Fiber cables, laid along two physically distinct routes, one alongside the up-track and the other alongside the down-track for entire Corridor 4 Stations and Depot. Contract Spare FOTS: OFC 144 Fiber Armoured Cable for Elevated/ Underground/At Grade section as per RDSO TEC Specifications 4 km	As understood from RFP OFC infrastructure will be executed by Signalling contractor, kindly confirm.	This shall be provided by Telecom Contractor under the scope of this tender. Please refer Addendum 1 for revised bid condition.
335	P2	VI B	7.2.5.6	Ethernet network should comply for following as minimum: (a) QinQ configuration of VLANs. (b) Multicast protocols (c) PIM Protocols (d) MVR Protocols (e) MLAG (f) IPv4 Mcast	MLAG is legacy and pure layer 2 protocol between two independent hardwares, we use IEEE802.1AX protocol across the stack members in HA and with full layer 3 capability. Kindy change it to "MLAG/LAG/IEEE802.1AX"	Please refer revised bid condition in Addendum 1
336	P2	VI B	7.2.5.6	Ethernet network should comply for following as minimum: (g) ERPV2 or other equivalent protocol	Request to change the clause to support open standard protocol "ERPSv2 or other equivalent open protocol"	Please refer Addendum 1 for revised bid condition

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337	P2	VI B	7.2.5.6 Ethernet network should comply for following as minimum:	(I) CFM Measurements,	Request to modify "(I) CFM Measurements or equivalent " "Connectivity fault management (CFM) generally achieved in WAN network like Metro Ethernet environment. not in the LAN network	Please refer revised bid condition in addendum 1
338	P2	VI B	7.2.5.8	Core Switch 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.	As per our understanding the core switch will be provide by other RFP and Phase 2 Corridors 4 switches need to be integrated with core switch in the ring topology with open standard protocol such as ERPSv2. please confirm that core switch shall not be provided under Corridor 4 RFP.	Please refer clause 7.2.5.9 & 7.2.5.10 for details.
339	P2	VI B	7.2.5.8 Giga Ethernet Backbone Network	7.2.5.8 - Core Switch 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.	As per our understanding all SFPs and redundant card for station ring termination at OCC/BCC Core switch will be provided by Other (ASA06) telecom contractor. Clarification only Request to provide the make and model of existing OEM and provide the RFP Scope.	Clause is self-explanatory. Model & OEM cannot be finalised and provided at this stage.
340	P2	VI B	7.2.5.9	Contractor shall be responsible to interface with Other designated Telecom Contractor for successful integration of station Gigabit Backbone network with OCC & BCC Common Core switches by using open standards without affecting any required performance and functionalities.	As per our understanding the core switches at OCC and BCC will be procured by customer through other RFP. The Distribution and Access switches to be supplied in Phase II Corridors 4 need to be integrated with these core switches in the ring topology with open standard protocol such as ERPSv2 or equivalent. please confirm whether our understanding is correct or not?	Core switches at OCC and BCC are not under the scope of this RFP. Contractor shall integrate it distribution and access switches with core switches provided by OCC/BCC contractor. For integration with Core switch network, open standard protocol including ERPSv2 (if meeting all tender requirements) shall be used which will be finalised during design stage.
341	P2	VI B	7.2.6.2	Ethernet Switches (d) The switches to be deployed in the outdoor environment must be gigabit Industrial Grade switches with seamless capability to integrate the FOTS WAN backbone on open standards and the Centralized SDN provisioning controller of the Core OCC & BCC FOTS WAN	SDN Features are mainly used in Enterprise grade switches and not applicable for Industrial grade Switches. Request you to remove the SDN feature requirement for Industrial Grade Switches. However the Central provisioning for Industrial Grade switches can be done through other open standard protocols	Please refer Addendum 1 for revised bid condition
342	P2	VI B	7.2.6.2	(d) The switches to be deployed in the outdoor environment must be gigabit Industrial Grade switches with seamless capability to integrate the FOTS WAN backbone on open standards and the Centralized SDN provisioning controller of the Core OCC & BCC FOTS WAN.	For All OEMs, SDN capability for industrial grade switches might not be available. To increase the OEM participation, Request you to kindly make it optional or amend it as "The switches to be deployed in the outdoor environment must be gigabit Industrial Grade switches with seamless capability to integrate the FOTS WAN backbone on open standards and the Centralized SDN provisioning controller via. open flow / Restful API or equivalent. of the Core OCC & BCC FOTS WAN."	Please refer revised bid condition in Addendum 1.

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343	P2	VI B	7.2.6.2	Ethernet Switches (d) The switches to be deployed in the outdoor environment must be gigabit Industrial Grade switches with seamless capability to integrate the FOTS WAN backbone on open standards and the Centralized SDN provisioning controller of the Core OCC & BCC FOTS WAN	Edge device especially industrial grade not required SDN enabled features as these devices usually connected to edge devices like CCTV and other PoE enabled devices and doesn't required any control features to be handled via SDN Controller. Request to remove the SDN feature from Industrial Grade switches.	Please refer Addendum 1 for revised bid condition
344	P2	VI B	7.2.6.2 Ethernet Switches	(d) The switches to be deployed in the outdoor environment must be gigabit Industrial Grade switches with seamless capability to integrate the FOTS WAN backbone on open standards and the Centralized SDN provisioning controller of the Core OCC & BCC FOTS WAN	(d) Kindly Ammend - The switches to be deployed in the outdoor environment must be gigabit Industrial Grade switches with seamless capability to integrate the FOTS WAN backbone on open standards and the Centralized SDN provisioning controller of the Core OCC & BCC FOTS WAN Request to provide the make and model of existing OEM and WAN Backbone details for interoperability and smooth SDN integration	Please refer revised bid condition addendum 1
345	P2	VI B	7.2.7.2	Network Synchronization d) The FOTS equipment shall support Ethernet synchronization preferably SyncE to IEEE 1588v2 standard/NTP	"SyncE" is preferred in SDH network – Request to remove the same.	Please refer revised bid condition in Addendum 1
346	P2	VI B	7.2.7.2 Network Synchronization	Network Synchronization d) The FOTS equipment shall support Ethernet synchronization preferably SyncE to IEEE 1588v2 standard/NTP	Kindly amend as " The FOTS equipment shall support Ethernet synchronization preferably SyncE <u>or</u> IEEE 1588v2 standard/NTP "	Please refer revised bid condition in Addendum 1
347	P2	VI B	7.2.7.2.d	The FOTS equipment shall support Ethernet synchronization preferably SyncE to IEEE 1588v2 standard/NTP. The synchronization shall have frequency as well as phase synchronization/NTP Server and Client functionality.	"SyncE" is mainly used in circuit based switching such as SDH network. As CMRL requirement is for a pure IP Network, SyncE is not applicable. – Request to remove the same.	Please refer revised bid condition in Addendum 1
348	P2	VI B	7.2.8.1	In the event of an optical fiber cable break, the optical transmitter laser output shall shut down to a safe level as defined by IEC-825, ITUT-G 958. The shutdown mechanism shall not be software dependent.	To make it generic with related to all OEMs; request to add "equivalent" word along with the mentioned standards [IEC-825, ITUT-G958].	Please refer revised bid condition in Addendum 1
349	P2	VI B	7.2.8.1	In the event of an optical fiber cable break, the optical transmitter laser output shall shut down to a safe level as defined by IEC-825, ITUT-G 958. The shutdown mechanism shall not be software dependent.	Kindly amend the clause as " In the event of an optical Fiber cable break, the optical transmitter laser output shall shut down to a safe level as defined by IEC-825, ITUT-G958 or equivalent. The shut down mechanism shall not be software dependent."	Please refer revised bid condition in Addendum 1
350	P2	VI B	7.2.9 Technical Specification 7.2.9.1.2 7.2.9.1.7	7.2.9.1.2 - NMS for GE network, LAN and WAN shall be integrated into single network management workstation. 7.2.9.1.7 - If Contractor shall fail to interface successfully, Integration shall be done by providing his own NMS at	Request to provide the make and model of existing OEM and NMS details for interoperability and smooth integration	Tender condition shall prevail

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				OCC & BCC and interfacing at NMS level with Common NMS without any additional cost.		
351	P2	VI B	7.2.9.1.11	The Layer 3 switch in OCC & BCC, stations, depots and Head Quarters shall be modular chassis based switch. Bidders shall provide FCAPS certified NMS Solution which can support & manage multiple vendor devices.	Normally in metro environment, OCC & BCC core switches are of modular chassis based switches are placed in which multiple Network Interface cards are inserted as per requirement and these chassis are of multiple RU size. But WAN/ Distribution switches at Stations & Depots may be 1 RU fixed port chassis only and at these locations modular Network interface card chassis (Having multiple RU size) is not required. Modular chassis requirement may be excluded for Stations and Depots.	Please refer revised bid condition in Addendum 1
352	P2	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 the interface of FOTS NMS with Common NMS will be on standard interfaces. We request you to mention the open standard interfaces supported at Common NMS for smooth integration consideration by the bidder.	Please refer 7.2.9.1.6 and 7.2.9.1.7 clauses for clarification Shall be finalised during design stage.
353	P2	VI B	7.2.9.1.6	contractor shall be responsible to interface wht other designation telecom contractor for successful intergration	very generic requirement , Employers intervation needed to capture and finallised other contractor requirement for integration , contractor can't be sololy responsible for integration please clarify	Please follow tender conditions.
354	P2	VI B	7.4.1.2	In-service performance monitoring for all network elements shall include, but not be limited to, on the following performance parameters: (b) Port Frame Error Rate (c) Port In Drop Rate (d) Port Out Drop Rate	These features are specific to SDH-TDM based network therefore you are requested to remove these clauses.	Please refer revised bid condition in Addendum 1
355	P2	VI B	7.4.1.2	In-service performance monitoring for all network elements shall include, but not be limited to, on the following performance parameters: (b) Port Frame Error Rate (c) Port In Drop Rate (d) Port Out Drop Rate	These are features of EMS- which is applicable for the SDH -TDM based network , request to remove from the GE based system.	Please refer revised Bid condition in Addendum 1
356	P2	VI B	7.4.1.2	In-service performance monitoring for all network elements shall include, but not be limited to, on the following performance parameters: (b) Port Frame Error Rate (c) Port In Drop Rate (d) Port Out Drop Rate	These are features of EMS- which is applicable for the SDH -TDM based network , request to remove from the GE based system.	Please refer revised bid condition in Addendum 1

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
357	P2	VI B	7.5.1.1	The Contractor shall provide a main and standby database for storing the system hardware and software configurations. Both the working and backup configuration database shall be automatically updated for any changes in the database.	NMS is non critical component which will not create any impact on the overall network. Most of the OEM runs database in standalone mode with server level redundancy which keep all database intact. Hence kindly amend the clause as "The Contractor shall provide database for storing the system hardware and software configurations. Working configuration database shall be automatically updated for any changes in the database."	Please refer Addendum 1 for revised bid condition.
358	P2	VI B	7.5.1.2	The FOTS Network Management System shall allow the user to configure all existing and new circuits with the following functions: (a) interface port allocation. (b) logging of circuit routing data logged into configuration Database; and (c) Operator's configurations check function prior to main and backup database update	The mentioned features of FOTS NMS are specifically applicable for the SDH based provisioning software & not related / not applicable to Giga Ethernet based system, hence request to remove these clauses from the TS.	Please refer revised bid condition in Addendum 1
359	P2	VI B	7.5.1.2	The FOTS Network Management System shall allow the user to configure all existing and new circuits with the following functions: (a) interface port allocation. (b) logging of circuit routing data logged into configuration Database; and (c) Operator's configurations check function prior to main and backup database update	These features are specific to SDH-TDM based network therefore you are requested to remove these clauses.	Please refer revised bid condition in Addendum 1
360	P2	VI B	7.5.1.2	The FOTS Network Management System shall allow the user to configure all existing and new circuits with the following functions: (a) interface port allocation. (b) logging of circuit routing data logged into configuration Database; and (c) Operator's configurations check function prior to main and backup database update	It is more applicable to SDH based provisioning software . Request to remove the same.	Please refer revised Bid condition in Addendum 1
361	P2	VI B	7.5.1.2	The FOTS Network Management System shall allow the user to configure all existing and new circuits with the following functions: (a) interface port allocation. (b) logging of circuit routing data logged into configuration Database; and (c) Operator's configurations check function prior to main and backup database update	It is more applicable to SDH based provisioning software . Request to remove the same.	Please refer revised bid condition in Addendum 1

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
362	P2	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: (g) the details of the synchronization network design and a synchronization plan which describes the fall back arrangement, failure and restore criteria used to determine the switchover of synchronization sources.	This is SDH Related clauses. Request to remove the same.	Please refer revised bid condition in Addendum 1
363	P2	VI B	7.8.1.5	The system response times of the FOTS Network Management System shall be as follows:		Query not clear
364	P2	VI B	7.8.1.5.b	Real-time data presented to the FOTS Network Management Workstation from the network elements shall be processed and produce the appropriate output within 2 seconds maximum; and	This is minimum refresh time to send alerts and alams and lesser the time higher the increase in CPU processing. Which may happer the performace. Kindly amend the same as "Real-time data presented to the FOTS Network Management Workstation from the network elements shall be processed and produce the appropriate output within 5 seconds maximum; "	Tender condition shall prevail.
365	P2	VI B	7.8.1.5.c	Execution of parameter changes to GE IP Nodes initiated through the FOTS Network Management System shall be less than 2 seconds	This is minimum refresh time to send alerts and alams and lesser the time higher the increase in CPU processing. Which may happer the performace. Kindly amend the same as "Execution of parameter changes to GE IP Nodes initiated through the FOTS Network Management System shall be less than 5 seconds."	Tender Condition shall Prevail.
366	P2	VI B	7.9.12 & 7.9.13	Layer 2 Features & Layer 3 Features	Layer 2 & layer 3 features are mentioned 2 times in PS documents Therefore it is requested to categorise clearly the feature set requirement in to Distribution Switches, Access Switches and Core Switches at OCC & BCC.	Please refer revised bid condition in Addendum 1
367	P2	VI B	7.9.2.1.d	Giga Ethernet Equipment: IPv6 is required.	The to be proposed FOTS shall be compliant to IPv4 / IPv6, however the interfacing systems may connect in IPv4 version. Kindly confirm.	Please refer revised bid condition in Addendum 1
368	P2	VI B	7.9.2.11	The proposed FOTS system must support a centralized SDN management provisioning technology for centralized device provisioning, zero touch recovery of the failed field units to minimize the MTTR and increase the service up time, centralized OS management and roll out to minimize the business down time. The SDN provisioning must not be restrictive only to the FOTS WAN switches but also must be capable to extend to the	SDN features are not available with industry grade switches, request you to modify or ammend the clause compliance requirement excluding industry grade switches. This will ensure maximum participation and bidder will consider the best available options for solution designing.	Please refer revised bid condition in Addendum 1

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				local LAN switches within Stations, Depots, RSS and other locations		
369	P2	VI B	7.9.2.9 Further the NMS shall have the following features:	(c) RMON - Remote Monitoring (RMON) with 4 RMON groups (history, statistics, alarms, and events).	Support of RMON - Remote Monitoring (RMON) or SNMP or telemetry	Tender condition shall prevail
370	P2	VI B	7.9.3.2	The Core switch at OCC & BCC shall be chassis based and shall have redundant critical modules like supervisor/control/management card & power supply card etc.	We understand that these switches will be procured through another tender/RFPs Scope. Please confirm.	ASA-05 shall integrate their network seamlessly with the core switches supplied under ASA-06. If seamless integration of all functional requirements of FOTS like the ring protection/convergence/routing/etc is not possible, ASA-05 shall supply the Core switch infrastructure to handle all functional requirements of FOTS of respective stations/Depots under their scope and integrate with ASA-06 core switch for routing of traffic.
371	P2	VI B	7.9.3.3	Details of only Interface & Stations & Depot is available.	Need Specifications of Core Switch	Please refer Chapter 7 for details.
372	P2	VI B	7.9.4.3	Redundant Management Modules with stateful failover. Failure of one CPU shall not cause any disruption of Traffic.	We understand that at each station two redundant switches will be used in distribution layer which will have active/active stacking feature to ensure full redundancy. It will also have redundant PSU and FAN to make sure the network availability in case power failure, hence the management modules and redundant CPU in one switch may not be required at station and Depot level. Therefore the clause 7.9.4.3 is applicable only for Core switches to be deployed at OCC and BCC and not in the supply scope of ASA05. Please clarify	Please refer revised bid condition in Addendum 1
373	P2	VI B	7.9.4.3	Redundant Management Modules with stateful failover. Failure of one CPU shall not cause any disruption of Traffic.	Two redundant switches will be used in distribution layer which will have active/active stacking feature to ensure full redundancy. Also it will have redundant PSU and FAN to make sure further network availability in case power failure. Station level switches will be redundant and failure of one of the switch will not have any impact in backbone network hence single chassis with two management module not required.	Please refer revised bid condition in Addendum 1
374	P2	VI B	7.9.4.3	Redundant Management Modules with stateful failover. Failure of one CPU shall not cause any disruption of Traffic.	Request to remove clause. Since it is asking for modular chassis Kindly Amend - Switch support stateful failover using single or multiple switches and shall not cause any disruption of traffic	Please refer revised bid condition in Addendum 1

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
375	P2	VI B	7.9.5 & 7.9.12	Layer 2 Features :	There is a Contradiction of the features mentioned for Layer 2 switches in Two Different clauses, Kindly clarify which needs to be followed.	Please refer revised bid condition in Addendum 1
376	P2	VI B	7.9.5.a	VLANs created on the core switch shall be propagated to all the edge switches automatically. Thus, helping reduce the misconfiguration/management overhead in turn reducing troubleshooting.	In order to allow equal participation from multiple OEMs, kindly amend the clause as mentioned below Kindly amend as "VLANs created on the core switch shall be propagated to all the edge switches automatically or equivalent.Thus, helping reduce the mis-configuration/management overhead in turn reducing troubleshooting."	Tender condition shall prevail.
377	P2	VI B	7.9.6 & 7.9.13	Layer 3 Features :	There is a Contradiction of the features mentioned for Layer 3 switches in Two Different clauses, Kindly clarify which needs to be followed.	Please refer revised bid condition in Addendum 1
378	P2	VI B		Nil	Scheme-The telecom equipment(EPABX/ IPPBX) being procured comes under the purview of DOT governed by Govt. of india to ensure security of the nation and the Metro. Union Government of India has issued strict guidelines under a policy called “Preferential Market Access” (PMA)(The Notification No. 18-10/2017-IP dated 29th August 2018) , as notified by the Ministry of Communications & IT, to give preference to Domestically Manufactured Telecom products in Public procurement funded by Central Government .We request you to kindly incorporate the said notification/policy in the tender.	EPABX/IPPBX is not under scope of this tender.
379	P2	VI B		Nil	As per Telecommunications Engineering centre(TEC) Server Media Gateway based IP PBX should be TEC-GR certified product , so we requested to kindly include TEC-GR certificate should be enclosed against the bidding product.	Call sever, Media Gateway and PBX are not under scope of this tender.
380	P2	VI B		The provision of Media gateway inside depot shall be in scope of other Telecom Contractor(ASA06)	We strongly recommend that the Media Gateway inside depot to be supplied by another contractor should be standard SIP supported with self survivability and CPU, PSU redundancy	Referred clause supports bidders’ recommendation. ASA-06 (Telecom package covering OCC/BCC Contractor) shall supply the media gate way.

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381	P2	VI B		Nil	Considering metro there has to be self survilabity functionality so that in case network failure for reaching OCC/BCC, Inside the station all IP phones should work with basic functionality.	Central PABX system at OCC & BCC shall be provided with very high availability figures with geographical redundancy. Also, FOTS network shall be provided with very availability figures to ensure the working of Station system in case of failure.
382	P2	VI B		Nil	If OCC server & BCC server is not reachable in a station,adjacent 4 stations should work as group(Ring) to provide all features & facilities	Recommended feature cannot be implemented in centralised architecture. Please follow tender conditions.
383	P2	VI B		Nil	Normally in Metros OCC server with Redudant and BCC server with redudant is mandatory, so Pls. clarify	OCC Server with redundant BCC server architecture is permitted in ASA-06 contract (OCC-BCC Package) without compromising employer's availability requirement. Bidder shall plan the interfacing requirements accordingly.
384	P2	VI B		Nil	Web based 64 party Audio Conference portal with redudant mode to be added as part of Chapter 8 telephone communication system.	This is PABX /Call server feature which is not under scope of this tender.
385	P2	VI B		Nil	LDAP(Leight weight directory access protocol) to be added as part of Chapter 8 telephone communication system.	Please refer revised bid condition in Addendum 1
386	P2	VI B		TELEPHONE COMMUNICATION SYSTEM	There are total 28 stations, will all be standalone systems connected of trunk network or all these could be provided as media gateways to main systems.	PBX, Call Servers, Media Gateways are not under scope of this tender.
387	P2	VI B		TELEPHONE COMMUNICATION SYSTEM	It is requested to provide a diagram based clarification showing count of the EPABX and Media Gateways which is considered to be under the scope of this tender contractor(ASA05).	PBX, Media Gateways are not under scope of this tender.
388	P2	VI B		TELEPHONE COMMUNICATION SYSTEM	BoQ is not clear for telecom systems, please provide clear and atleast minimum BoQ in order of number of systems, media gateways, IP, ANALOG-TDM ports and licenses requirement, site wise	PBX, Call Servers, Media Gateways are not under scope of this tender. This tender is based on Design and built requirement. Contractor needs to propose design with qty complying all tender conditions.
389	P2	VI B			Web based 64 party Audio Conference portal with redudant mode to be added as part of Chapter 8 telephone communication system.	This is PABX /Call server feature which is not under scope of this tender.
390	P2	VI B			LDAP(Leight weight directory access protocol) to be added as part of Chapter 8 telephone communication system.	Please refer revised bid condition in Addendum 1
391	P2	VI B	8.1.1.1	The Telephone System shall provide the CMRL Phase II, Corridor 4 staff with voice, fax and data communications between CMRL personnel internally and also externally to the PSTN on IP PBX Exchange. Objective is to use the network infrastructure which is redundant. The infrastructure shall be used on a separate CAT 7 CAT 6A STP LSZH cable or latest.	we request you to, Kindly provide the minimum boq	Tender is based on Design and built requirement. Please follow the tender conditions.

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392	P2	VI B	8.1.1.1	The Telephone System shall provide the CMRL Phase II, Corridor 4 staff with voice, fax and data communications between CMRL personnel internally and also externally to the PSTN on IP PBX Exchange. Objective is to use the network infrastructure which is redundant. The infrastructure shall be used on a separate CAT 7 CAT 6A STP LSZH cable or latest.	Kindly provide the minimum BoQ for comprehensive estimation of requirement	Tender is based on Design and built requirement. Please follow the tender conditions.
393	P2	VI B	8.1.1.1	The Telephone System shall provide the CMRL Phase II, Corridor 4 staff with voice, fax and data communications between CMRL personnel internally and also externally to the PSTN on IP PBX Exchange. Objective is to use the network infrastructure which is redundant. The infrastructure shall be used on a separate CAT 7 CAT 6A STP LSZH cable or latest.	Request you to Kindly provide the minimum BoQ.	Tender is based on Design and built requirement. Please follow the tender conditions.
394	P2	VI B	8.1.1.4	The provision of Media gateway inside depot shall be in scope of other Telecom Contractor(ASA06)	We strongly recommend that the Media Gateway going to be supplied by another contractor (inside depot), shall be a standard SIP supported with self survivability, CPU & PSU redundancy.	Referred clause supports bidder's recommendation.
395	P2	VI B	8.1.1.4	The provision of Media gateway inside depot shall be in scope of other Telecom Contractor(ASA06)	we request you to kindly amend as gateway shall be from same OEM of IPPBX as 3rd party gateway will not work and have a challenge for the support.	Referred clause is supporting bidder's concern. Tender condition shall prevail.
396	P2	VI B	8.1.1.4	The provision of Media gateway inside depot shall be in scope of other Telecom Contractor(ASA06)	Clarity is required,how to have media gateways and main systems from two different contractors and also supply of main system under ASA05 and Media Gateways under ASA06. Systems and gateways are integral part of each other. Kindly clarify.	Bidder understanding is not correct. Main PABX system shall be at OCC & BCC which will not be under scope of ASA 05. ASA06 shall be the OCC/BCC contractor under which centralised PABX system shall be provided in OCC & BCC. Also required Media gateway for analogue phones shall be provided by PABX system provider only.
397	P2	VI B	8.1.1.4	The provision of Media gateway inside depot shall be in scope of other Telecom Contractor(ASA06)	We request you to kindly amend as gateway shall be from same OEM of IPPBX as 3rd party gateway will not work and have a challenge for the integration and support.	Referred clause is supporting bidder's concern. Tender condition shall prevail.
398	P2	VI B	8.1.1.4	The provision of Media gateway inside depot shall be in scope of other Telecom Contractor(ASA06)	Request you to kindly amend as gateway shall be from same OEM of IPPBX as 3rd party gateway will not work and have a challenge for the support.	Referred clause is supporting bidder's concern. Tender condition shall prevail.
399	P2	VI B	8.1.1.4	The provision of Media gateway inside depot shall be in scope of other Telecom Contractor(ASA06)	Please provide us the scope/Responsibility Matrix of each contractor as system wise.	Other Contractor shall supply and install only Media Gateway in depot. Rest all works for Telephone requirements shall be under scope of this contract.
400	P2	VI B	8.1.1.6.1	The Voice Over IP telephone communication system shall provide telephone lines over IP network using proven protocols such as H.323, SIP etc. for stations and depot.	Request to remove H.323 from this clause, since it is a proprietary protocol. SIP is a standard protocol and same is mentioned in TEC Certificate.	H.323 is ITU-T standard. Tender condition shall prevail.
401	P2	VI B	8.1.1.6.1	The Voice Over IP telephone communication system shall provide telephone lines over IP network using proven protocols such as H.323, SIP etc. for stations and depot.	H.323 need to be removed as it is proprietary protocol. SIP is a standard protocol and same is mentioned in TEC Certificate.	H.323 is ITU-T standard. Tender condition shall prevail.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
402	P2	VI B	8.1.1.6.2	The IP PBX network shall be equipped with VOIP SIP phones and network switches and other related hardware and software such that it shall provide sufficient bandwidth and processing speeds to allow low delay, jitter and echo free, high quality, low latency audio/video communication over IP network.	we request you to kindly amend as VOIP SIP as VOIP SIP/ IP shall be from same OEM of IPPBX as 3rd party phone will have a challenge for the support and does not provide the adequate feature as required in tender.	Tender condition shall prevail.
403	P2	VI B	8.1.1.6.2	The IP PBX network shall be equipped with VOIP SIP phones and network switches and other related hardware and software such that it shall provide sufficient bandwidth and processing speeds to allow low delay, jitter and echo free, high quality, low latency audio/video communication over IP network.	We request you to kindly amend as VOIP SIP as VOIP SIP/ IP shall be from same OEM of IPPBX as 3rd party phone will have a challenge for the support and does not provide the adequate feature as required in tender.	Tender clause shall prevail
404	P2	VI B	8.1.1.6.2	The IP PBX network shall be equipped with VOIP SIP phones and network switches and other related hardware and software such that it shall provide sufficient bandwidth and processing speeds to allow low delay, jitter and echo free, high quality, low latency audio/video communication over IP network.	Request you to kindly amend as VOIP SIP as VOIP SIP/ IP shall be from same OEM of IPPBX as 3rd party phone will have a challenge for the support and does not provide the adequate feature as required in tender.	Tender clause shall prevail
405	P2	VI B	8.1.1.8.2	It shall be possible to select any one additional PABX phone conversation for recording purposes from the HMI. CDRS shall be provided as part of the Telecom Contract and it shall be the responsibility of Telecom Contractor to coordinate, finalize the number and type of channels, interface, test and commission the recording of Telephone Communication in the CDRS. All Direct Line Telephone communication from and to all the Direct Line Consoles in the OCC & BCC, Stations and depot shall be recorded in the CDRS. The interface between Telephone system and CDRS should be on IP. The number of channels has to be accordingly finalized by Telecom Contractor.	CDRS to be supplied should do the recording for the Telephone System Phones supplied by ASA05 contractor only. Kindly confirm, if this understanding is correct or not. If not, kindly clarify	CDRS shall be supplied by other designated OCC/BCC Contractor. ASA 05 telephones and Free space recording shall be done in CDRS. ASA05 Contractor shall interface with OCC/BCC Contractor accordingly for integration.
406	P2	VI B	8.1.1.9.3	OCC/BCC Centralised IP EPABX shall be in scope of other Designated Telecom Contractor having redundancy with geographically separated places. Redundancy should be provided for Processing, call termination, call generation, Call records and archiving, Alarm Generation etc.	OCC/BCC IP EPABX shall be in the scope of other designated Telecom contractor, as per this clause, It doesn't seems that IP EPABX is in the scope of this very tender. Kindly clarify.	Main PABX system shall be at OCC & BCC which will not be under scope of ASA 05. ASA06 shall be the OCC/BCC contractor under which centralised PABX system shall be provided in OCC & BCC.
407	P2	VI B	8.1.1.9.4	Contractor shall interface with OCC/BCC Telecom Contractor for integration of Corridor 4 Telephone system and network with OCC/BCC Central IP PBX/Call Serve	OCC/BCC IP EPABX shall be in the scope of other designated Telecom contractor, as per this clause, It doesn't seems that IP EPABX is in the scope of this very tender. Kindly clarify.	Main PABX system shall be at OCC & BCC which will not be under scope of ASA 05. ASA06 shall be the OCC/BCC contractor under which centralised PABX system shall be provided in OCC & BCC.
408	P2	VI B	8.3.2.1.3	The Direct Line Communication system shall be logically independent of the IP PBX network on the CMRL Phase II network by creating separate VLAN and managing QOS in FOTS switch level	Based on this clause a clarification is required that under the "Telephone System" heading in (8.1.1.4) the sub systems Direct Line and IP PBX can be one system physically but should be logically separated. Is this understanding correct. Kindly confirm.	EPBX shall be common, however a logically independent network (separate VLAN) with high priority shall be provided for Direct Line Communication System.

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409	P2	VI B	8.3.2.1.4	The Direct Line Telephones shall be single button selection connected to OCC & BCC so that an audible alarm is sounded and the location of the calling telephones is displayed on appropriate console at OCC & BCC. At the locations other than the OCC & BCC, Direct Line Telephones shall be terminated on Digital/IP telephone sets. Consoles shall be provided with single button selection for each direct line connection.	Direct Line Telephones, OCC & BCC are part of this tender supply. Kindly verify	Tender condition shall prevail.
410	P2	VI B	8.3.2.2.1	Direct Line Consoles shall be provided by other designated Contractor at OCC & BCC for each of the controllers.	It says by other designated contractor. This is not clear to us. Kindly clarify, what would be OCC and BCC systems and how two different vendors could achieve this. What should be supplied under this and is it really PBX and DLC from different vendors? Please clarify what is expected under this clause.	Provision of DLC Console is not in scope of this tender. Clause is provided for reference and understanding the overall system arrangement of CMRL phase II.
411	P2	VI B	8.3.2.2.1	Direct Line Consoles shall be provided by other designated Contractor at OCC & BCC for each of the controllers.	It says by other designated contractor. This is not clear to us. Kindly clarify, what would be OCC and BCC systems and how two different vendors could achieve this. What should be supplied under this and is it really PBX and DLC from different vendors? Please clarify what is expected under this clause.	Provision of DLC Console is not in scope of this tender. Clause is provided for reference and understanding the overall system arrangement of CMRL phase II.
412	P2	VI B	8.3.2.4.1.c	Hands free operation with a call button, a microphone and a speaker. Considering outdoor public environment and associated background noise, Voice from speaker shall be audible to normal human ears up to 1 meter or better distance.	The Standard distance to talk is 50 cm, at 1 meter distance the surround sound shall be too high to listen by SCR/ DLC, we request you to kindly amend the same.	Please refer revised bid condition in Addendum 1
413	P2	VI B	8.3.2.5.2	Emergency phone with industrial grade components along with keypad, buzzer, circuit board.	kindly confirm that the Emergency phone is required with Hooter/ buzzer and Flasher.	Please refer clause no 8.3.2.5.2 for required details. Buzzer and Flashlight shall be provided as per clause requirement.
414	P2	VI B	8.3.2.5.2 (m)	Emergency phone with industrial grade components along with keypad, buzzer, circuit board.	kindly confirm that the Emergency phone is required with Hooter/ buzzer and Flasher or not.	Please refer clause no 8.3.2.5.2 for required details. Buzzer and Flashlight shall be provided as per clause requirement.
415	P2	VI B	8.3.2.5.3	Telecom Contractor to interface with Lift Contractor make necessary provisions in Telecom Sub System to integrate Stations / OCC / Depot / HQ Lift Help Point Phones with Telecom IP EPABX network such that call can made from Lift Help Point can be routed to SCR / OCC / BCC / Security Offices as per operational requirements	Please clarify if Lift phone is part of this tender or not. If so, what type of phone will it be i.e. a IP Phone or Analog phone?	Please refer Chapter 13.15 - Interface between L&E Contractor and ASA05 Contractor.
416	P2	VI B	8.3.2.5.3	Telecom Contractor to interface with Lift Contractor make necessary provisions in Telecom Sub System to integrate Stations / OCC / Depot / HQ Lift Help Point Phones with Telecom IP EPABX network such that call can made from Lift Help Point can be routed to SCR / OCC / BCC / Security Offices as per operational requirements	Pls clarify, Lift phone is part of this tender or not & if it is part this then whether it is a IP Phone or Analog phone.	Please refer Chapter 13.15 - Interface between L&E Contractor and ASA05 Contractor

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
417	P2	VI B	8.3.2.6.2	The IP PBX Call Management Server shall be provided by other designated Telecom Contractor, in hot redundant configuration, will be placed at OCC with the redundant part at the BCC and should be configurable in two different subnets. It shall be configured in hot standby configuration such that no single failure should affect the availability of the system. Or Bidder may propose Virtualized solution by having all services applications, Database, Management servers including other system applications in Virtualized manner to optimize the solution hardware etc. as per bidder design. In such case Subsystem/system redundant software shall be residing in separate server other than primary application server which should work in Hot standby mode.	As per this clause the "IP PBX Call Management server is to be provided by other designated contractor" which means call management software is not to be provided by bidder/OEM of this RFQ then compliance to many clauses such as 8.3.2.6.2, 8.1.1.5, 8.1.1.6.1, 8.1.1.6.5, 8.1.1.8, 8.1.1.9, 8.2.2.1, 8.2.5, 8.2.6, 8.2.7, 8.4.2.2 is not possible as these specifications can only be complied by the vendor providing IPPBX call management server/software in HOT redundant configuration.	PABX clauses have been given for bidder's reference and understanding only and shall be provided by OCC/BCC Contractor. Contractor shall refer for station and depot telephone design and interface accordingly. Please refer revised bid condition in Addendum 1.
418	P2	VI B	8.3.2.6.2	The IP PBX Call Management Server shall be provided by other designated Telecom Contractor, in hot redundant configuration, will be placed at OCC with the redundant part at the BCC and should be configurable in two different subnets. It shall be configured in hot standby configuration such that no single failure should affect the availability of the system. Or Bidder may propose Virtualized solution by having all services applications, Database, Management servers including other system applications in Virtualized manner to optimize the solution hardware etc. as per bidder design. In such case Subsystem/system redundant software shall be residing in separate server other than primary application server which should work in Hot standby mode	Not clear the meaning of this clause, IP PBX call management to be provided by other designated Telecom contractor, Kindly clarify, what is expected under this clause.	Please refer Chapter 1 for various Telecom package details of CMRL phase II
419	P2	VI B	8.3.2.6.2	The IP PBX Call Management Server shall be provided by other designated Telecom Contractor, in hot redundant configuration, will be placed at OCC with the- redundant part at the BCC and should be configurable in two different subnets. It shall be configured in hot standby configuration such that no single failure should affect the availability of the system. Or Bidder may propose Virtualized solution by having all services applications, Database, Management servers including other system applications in Virtualized manner to optimize the solution hardware etc. as per bidder design. In such case Subsystem/system redundant software shall be residing in separate server other than primary application server which should work in Hot standby mode	Not clear the meaning of this clause, IP PBX call management to be provided by other designated Telecom contractor, Kindly clarify, what is expected under this clause.	Please refer Chapter 1 for various Telecom package details of CMRL phase II
420	P2	VI B	8.4.2.2.2	The Telephone Network Management Systems shall provide facilities for users to run diagnostics on the	The Telephone system NMS shall be manage the Telephone system devices like - Call server, Media	Telephone Network Management Systems is not under the scope of this RFP.

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				control, voice and data circuitry without causing interruption to the operation of the system.	Gateway, IP phones etc. it will not manage the Data switches etc. kindly confirm.	
421	P2	VI B	8.4.3.2	All analogue telephones shall be of DTMF dialing in accordance with ITU-T Recommendations Q.23.	Pls. clarify Analog phone is required.	Analog phones are required at Depot.
422	P2	VI B	9.2	Provision of separate Layer 2 & layer 3 switch at station, RSS & depot including for OA&IT network. GE IP backbone ring shall be of minimum 1 Gbps capacity. Also maximum number of stations per ring shall not exceed 10 stations	Generally for OAIT Metro Networks Layer 3 Switch is at OCC and BCC and Stations are Provided with Layer 2 Switch. Clarification Required if Layer 3 Distribution Switch is required at Station , RSS and Depot from which Layer 2 OAIT Access switch will be connected. Clause to be Modified as : GE IP backbone ring shall be of 1 Gbps capacity. Also maximum number of stations per ring shall not exceed 10 stations.	Clause is self-explanatory. Tender condition shall prevail. However, for ring connectivity Please refer separate bid condition
423	P2	VI B	9.2.2	Networking hardware for the OA and IT system. The scope of Communication Contractor shall be provision of OA/IT System (including design, supply, installation, testing, commissioning and integration). All personal computers, printers and servers for data storage and related application software are not included in scope of the communication Contractor.	Clause 9.2.2 and Clause 9.4.1 are Contradictory	Clause 9.4.1 is about OA/IT GE network stating which equipment shall be connected to OA/IT network. Scope of supply shall be as per Clause 9.2.2.
424	P2	VI B	9.4.1OA & IT servers, OA/IT PCs, and printers, required for administration works of the Rail System shall be connected on the dedicated OA / IT GE network.	Please clarify the requirement in brief.	Referred Equipment shall be part of OA/IT Network.
425	P2	VI B	9.6 Video Conference System	9.6 Video Conference System 9.6.1 Telecom Contractor shall submit detailed design of OA&IT with link budgeting, port allocation, bandwidth details, and RAMS calculation to the employer for review Video Conference System. 9.6.2 Telecom Contractor shall provide Video conference system with all required equipment and suitable furniture facilities. Detailed specifications of VC system has been given in Appendix F of Technical Specification document. Contractor shall refer accordingly.	Kindly confirm the locations and qty of VC solution to be supplied and integrated with FOTS system.	VC Solution shall be provided at Poonamalle depot for one meeting room.
426	P2	VI B	Appendix A	General	We understand "Appendix – A: PIS Spec's" and "Appendix – B ISMS spec's" are the specifications of front end software which shall be installed at OCC/BCC . And these software shall be provided by separate contractor. So we understand bidder of ASA05 RFP do not need to provide any compliance and product for the same. Please confirm if our understanding is correct.	Appendix A (PIS) & Appendix B (ISMS) are included for reference purpose and shall be provided by other OCC/BCC designated contractor. ASA 05 Contractor shall ensure compatibility as per tender conditions for successful integration of station and depot respective systems i.e. CCTV, ACIDS, PAS & PIDS.

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427	P2	VI B	APPENDIX – B 1.4.k	k. The administrator through the relevant software shall be able to do software auditing which displays the software versions running on the CCTV equipments.	The video management system shall provide complete diagnostic feature to run system performance test and provide means collect system logs Diagnostic tool will ensure better management and ease of maintainence	VMS is not under scope of this tender. Appendix B is included for reference purpose.
428	P2	VI B	APPENDIX – B 1.4.k.b	(b) Manual backup. System logs shall not be backed up or restored when performing manual backup or restore.	Our understanding is that the manual back up shall not affect the system logs. Please confirm	ISMS is not part of this Tender RFP. ISMS details provided for reference only
429	P2	VI B	APPENDIX – B 1.2	Additional Point - PQ Qualification criteria	The OEM of VMS should have presence in India for minimum period of 7 years ending March 31, 2022 and should have supplied 200,000 licenses (VMS) in India or globally. Relevant proof for presence in India and self-declaration for 200,000 licenses of executed projects.	Appendix B has been included for reference only. VMS is not under scope of this tender.
430	P2	VI B	APPENDIX – B 1.2	Additional Point - PQ Qualification criteria	OEMs of VMS should have Presence in India since last 5 years and executed min 50 Projects Self-Declaration by OEM	Appendix B has been included for reference only. VMS is not under scope of this tender.
431	P2	VI B	APPENDIX – B 1.2	Additional Point - PQ Qualification criteria	Request to add the clause as below for good and reputed OEM: OEM should not be blacklisted or barred by any Ministry of Government of India or by Government of any other State in India or any of the Government PSUs at the time of bidding .Also the VMS Software OEM shouldn't been removed / replaced from any Govt organization like Airports , Courts , Railways etc due to performance / support/etc during Contract Period (warranty and AMC) . Self Certification on OEM Letter head to be submitted, if certification found to be wrong the OEM shall be blacklisted.	Appendix B has been included for reference only. VMS is not under scope of this tender.
432	P2	VI B	APPENDIX – B 1.2	Additional Point - PQ Qualification criteria	Software OEM should meet Preference to Make in India Order,2017 issued vide Notification No.18-10/2017-IP or latest dated 29.08.2018 by Department of Telecommunications (DoT), Ministry of Communications, Government of India	Software (VMS & ACIDS central software) is not under scope of this tender.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
433	P2	VI B	APPENDIX – B 1.2.13.13	1.2.13 13.The VMS platform must have Indian certification from agency like STQC or International agency like UL with valid Cyber Security certification under the Physical Security and emergency communication category.	<p>As UL certification is not for VMS OEM it is for hardware, Hence for VMS OEM the certification are OWASP , hence we request you add the below-mentioned clause for better quality of VMS OEM:</p> <p>1.2.13 13.The VMS platform must have Indian certification from agency like STQC or International agency like OWASP valid Cyber Security certification under the Physical Security and emergency communication category.</p> <p>The VMS Application should have undergone that Security Audit Certificate in current year 2022 as per the OWASP Guidelines before the tender submission and same model to be proposed in this tender Documentary Proof are required to be attached in the Technical bid.</p>	Appendix B has been included for reference only. VMS is not under scope of this tender.
434	P2	VI B	APPENDIX – B 1.2.25	1.2.25 The video management system shall support encryption of video for export purposes.	<p>The evidence export format is very important of any incident while exporting video hence it should be in multiple and secure format to save data as video footage is very important hence request to change the export format as below:</p> <p>1.2.25 The video management system shall support encryption of video for export purposes.</p> <p>The VMS shall provide file export tool for export of single frame of video in BMP, GIF, TIF, JPG and PNG formats and export of video files in SEF, SEF2, ASF, AVI, MP4 and MKV format</p> <p>and all the communication among the servers and clients should be secured and the VMS should support that all client to server and server to server communications and encryption during export are compressed and encrypted and connection specific key should be 256-bit AES. and data encryption should be 256-bit AES. VMS software should have the Encryption algorithm of 4096-bit RSA and hashing of SHA -384 from 3rd party DigiCert trusted G4 for tamper proof data.</p>	Appendix B has been included for reference only. VMS is not under scope of this tender.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
435	P2	VI B	APPENDIX – B 1.2.3	1.2.3 The VMS shall integrate cameras using dedicated driver or using the industry standards ONVIF Profile S, Profile G And Profile T. The VMS provider supporting the ONVIF Profile S, G & T must be validated with certification and reference documents.	Request to amend as certification is very important for seamless integration as below 1.2.3 The VMS shall integrate cameras using dedicated driver or using the industry standards ONVIF Profile S, Profile G And Profile T. The VMS provider supporting the ONVIF Profile S, G & T must be validated with certification and reference documents should be available on the ONVIF website. The OEM should be either contributor level or Full member as per Onvif Website. The OEM should have established OS certificate for last 3 years for Microsoft Windows or Linux Operation System	Appendix B has been included for reference only. VMS is not under scope of this tender.
436	P2	VI B	APPENDIX – B 1.2.31	1.2.31 The VMS shall support the generation of audit trails. Audit trails shall consist of logs of actions done by operator / administrator e.g. login / logout, additions, deletions, and modifications, etc. The VMS shall support Audit trails report generation from the audit trail database into standard reporting tools e.g. Excel.	It is mandatory to have an incident reporting for each incidents / events which have occurred in PDF format along with Audio video clip. So the following to be added as below 1.2.31 The VMS shall support the generation of audit trails. Audit trails shall consist of logs of actions done by operator / administrator e.g. login / logout, additions, deletions, and modifications, etc. The VMS shall support Audit trails report generation from the audit trail database into standard reporting tools e.g. Excel. An Incident report plugin is a tool for a formal recording of the facts related to an incident. The VMS should support inbuilt features of Incident Reporting setting to export Incident reports, Images and video clips. The retention time for Data should be unlimited, and it should export in a dedicated storage drive so that incase storage is burnt/damage/corrupt, we can keep the incident report data safe in dedicated storage of incident report. "The Incident Reporting Setting should provide facility to the users to predefine the parameters, which will be used while viewing or exporting the Incident or Daily log reports. Incident Reporting settings should minimum fields like Company Information 1. Company Name 2. Company address 3. Company logo Reporting numbering – Incident Reporting Numbering details 1. Prefix- Character, Date, Time and autoincrement digits count for daily report and incident report. Fields info- Name of Department, site, Location of incident,	Appendix B has been included for reference only. VMS is not under scope of this tender.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
					<p>Incident level, Incident type, Incident status, Category etc."</p> <p>"The dedicated storage plugin is a centralized container for the Images, video clips and camera audit reports. The retention time for the evidence data should be from minimum 1 day to unlimited time period. The VMS should give access of storage to operator –</p> <ol style="list-style-type: none">1. Search Own Data/all2. View history None/Own/all3. Search deleted files4. Access imported files5. Open – None/Own/All6. Edit- None/Own/All7. Delete- None/Own/All8. Exporting storage to local disk – None/Own/All9. Create- None/Own/All <p>The VMS should have inbuilt feature for adding evidence to the incident report by add images, video clips and camera audit reports as evidence. The VMS should have features to edit the incident report, which user have access to later</p> <ol style="list-style-type: none">1. Incident summary2. Incident Location3. Incident Details4. Add notes to the evidence5. Comment to history <p>The VMS should have features to export the incident report in PDF format, Image in JPG, BMP, GIF, TIFF, PNG and video in multiple formats, ASF, AVI, MP4, WMV, Secure Export Format (SEF) with password protection.</p> <p>The Incident Reporting should have search feature of up to 5000 incidents numbers from search list. The VMS should have features to direct export images and video clips from alerts generated in separate files and folders for images and video clips. The Incident Report should be generated in PDF format and should have the following details</p> <ol style="list-style-type: none">1. Incident Summary2. Incident Location3. Incident Details- Synopsis, Narrative, in which user can put comments.4. Attached Evidence- Image of incident5. Export Date and time of Incident Report. <p>"</p>	

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
437	P2	VI B	APPENDIX – B 1.2.36	Additional Point - VMS Point	<p>The system should have multiple levels of authentication and access control mechanisms:</p> <p>A) Role based Authentication</p> <p>B) "2-factor authentication (offline, cell phone based)</p> <p>The software should have increasing the security of the system by requiring the user to have a second authentication step besides only the user name and the password to prevent hacker to login and audit logs are specified to special person not to the user group.</p> <p>The Software should have the following basis features:</p> <p>i. When user in the group tries to log in for the first time, the user is requested to use or install the 2-factor authentication client (e.g. Authy, Google authenticator, MS Authenticator) on user's mobile device.</p> <p>ii. The VMS and the authentication client will then synchronize the software with VMS. This will happen by transferring the "secret key" generated by the VMS to the authentication software via QR code first time.</p> <p>iii. Thereafter the authentication client generates automatically new one-time passwords. The passwords should change periodically for 30 seconds and should kept in sync as the clocks of the VMS and the authentication app have same time."</p>	Appendix B has been included for reference only. VMS is not under scope of this tender.
438	P2	VI B	APPENDIX – B 1.2.36	Additional Point - VMS Point	<p>While sharing the recorded videos as an evidance for the event the privacy of humans to be maintain so below points should be required to be added.</p> <p>Face blurring & Moving object blurring</p> <p>The system should be GDPR compliant with an option to mask personal attributes of people captured in an image/Video, depending on the requirement as below features:</p> <p>1) Privacy zones,</p> <p>2) Facial blurring and</p> <p>3) Moving object blurring should be configured in the same UI under System configuration.</p> <p>4) The privacy functionalities are available also in the exported clips.</p>	Appendix B has been included for reference only. VMS is not under scope of this tender.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
439	P2	VI B	APPENDIX – B 1.4	j. The system shall support search of recorded video for motion in user- specified areas of a camera image. This intelligent post-recording motion search will work for relevant cameras connected.	Pre and post recording is most important realted to footage which is recording in storage. Hence request for amend the clause as below: j. The system shall support search of recorded video for motion based- specified areas of a camera image. This intelligent post-recording motion search will work for relevant cameras connected. VMS should support 3 motion detection methods - Comparative, Adaptive and Hermeneutic for adverse conditions and VMS can record motion based and on motion based alarm should be Pre- and post-recording up to 60 minutes of video and audio	Appendix B has been included for reference only. VMS is not under scope of this tender.
440	P2	VI B	Appendix -B	INTEGRATED SECURITY MANAGEMENT SYSTEM (ISMS)	We understand that ISMS will be part of OCC/BCC project. Is our understanding correct?	Appendix A (PIS) & Appendix B (ISMS) are included for reference purpose and shall be provided by other OCC/BCC designated contractor. ASA 05 Contractor shall ensure compatibility as per tender conditions for successful integration of station and depot respective systems i.e. CCTV, ACIDS, PAS & PIDS.
441	P2	VI B	APPENDIX B 1.2 Centralised Video Management	1.2.22 The video management system shall support high availability of recording servers. A failover option shall provide standby support for recording servers with automatic synchronization to ensure maximum uptime and minimum risk of losing data such that once Primary server goes offline then videos which are recorded at secondary server shall be automatic sync to primary server without user intervention.	Kindly confirm the requirement of NVR servers in stations, as per this clause, we understand it shall be 1 Primary Server + 1 Secondary Server + 1 Failover server.	Please refer revised bid condition for Clause 4.1.2.7 in addendum 1
442	P2	VI B	APPENDIX B 1.2.22	1.2.22 The video management system shall support high availability of recording servers. A failover option shall provide standby support for recording servers with automatic synchronization to ensure maximum uptime and minimum risk of losing data such that once Primary server goes offline then videos which are recorded at secondary server shall be automatic sync to primary server without user intervention.	The video management system shall support high availability of recording servers. A failover option shall provide standby support for recording servers and user shall have access to new recordings with or automatic synchronization to ensure maximum uptime and minimum risk of losing data such that once Primary server goes offline then videos which are recorded at secondary server shall be automatic sync to primary server without user intervention. This will ensure availability of recordings all the time	VMS is not under scope of this tender. Appendix B is included for reference purpose.
443	P2	VI B	APPENDIX B 1.2.25	1.2.25 The video management system shall support encryption of video for export purposes.	The video management system shall support encryption/ digital signature with password protection of video for export purposes. Digital signature is most widely accepted	VMS is not under scope of this tender. Appendix B is included for reference purpose.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
444	P2	VI B	APPENDIX B 1.2.26	1.2.26 The video management system shall include a standalone viewing client application to be included with video exported from the viewing client application. The standalone viewing client application shall allow recipients of the video to browse and playback the exported video without installing separate software on their computers.	We understand that the exported clip should support open media players like WMV etc.,. Please confirm	VMS is not under scope of this tender. Appendix B is included for reference purpose.
445	P2	VI B	APPENDIX B 1.2.29	1.2.29 The video management system shall include a Software Development Kit (SDK) that offers important capabilities for integrating the video management system with third party software and applications like access control, video analytics, etc.	The video management system shall include a Software Development Kit (SDK) that offers important capabilities for integrating the video management system with third party software and applications like access control, video analytics, etc. The video management system shall support third party integrations through alarm and event sharing and support open standards to integrate with third party software like access coontrol, video analytics, etc. This will ensure more choice of integration to meet functional requirement and all reduce cost	VMS is not under scope of this tender. Appendix B is included for reference purpose.
446	P2	VI B	Appendix -B 1.5	Provision shall be made for displaying a minimum of four live streams from a train at OCC/BCC.	Kindly provide more details of Train borne CCTV Cameras. Also clarify how S&TC will transmit live CCTV feed from trains to OCC/BCC	Please refer revised bid condition in addendum1
447	P2	VI B	Appendix F		Please elaborate the details of conference setup in meeting room in depot	Detailed requirement with specifications of all components have been given in Appendix F of TS. Please refer.
448	P2	VI B	APPENDIX-19 10.4 Network Security	A virtualization technology solution shall be implemented per specific core networks only.	We understand from this clause that virtualisation shall be allowed in OCC and BCC only, please confirm.	Please refer revised bid condition in addendum 1
449	P2	VI B	General		Please share the minimum BOQ for the Telecommunication systems as mentioned in this Tender RFP	Tender is based on Design and built requirement. Please follow the tender conditions.
450	P2	VI B	General	List of stations which have additional platform.	Kindly provide station names which has additional platforms.	following stations are Double stack stations in the Corridor 4 1.Alwarthiru Nagar (Elevated) 2.Valasaravakkam(Elevated) 3.Karambakkam(Elevated) 4.Alappakam(Elevated) 5.Thirumayilai Metro(UG)
451	P2	VI B	General	List of no. of locations for PA system.	Kindly provide the no of location in which PA System to be consider.	Please refer Chapter 2 of Section VIB Technical Specifications
452	P2	VI B	General	List of total no. of interlocking stations.	Details required as list of total number of interlocking stations is not mentioned.	Interlocking stations shall be provided during signalling detailed design stage
453	P2	VI B	General	List of total no. of platform supervisory booth at all stations.	Details required as list of total number of PSB is not mentioned.	One PSB shall be provided at each platform. Please refer clause no 2.6.12.15 for the same.
454	P2	VI B	General	List of total no. of parking at each stations.	Details required as list of total number of Parking at each station is not mentioned.	Parking Details are provided in the drawings. Please refer drawings

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
455	P2	VI B	General	List of total no. of RSS/TSS.	Details required as list of total number of RSS/TSS is not mentioned.	Two RSS's are Provided in Corridor 4 One is at Alwarthiru Nagar and Other is at Poonamalle Depot
456	P2	VI B	General	List of total no. of RAMP at each stations/Depot.	Details required as list of total number of RAMP at each station/Depot is not mentioned.	One RAMP at Poonamalle Depot and One at Kodambakkam Metro
457	P2	VI B	General	TELEPHONE COMMUNICATION SYSTEM	There are total 27 stations, will all be standalone systems connected of trunk network or all these could be provided as media gateways to main systems.	PBX, Call Servers, Media Gateways are not under scope of this tender.
458	P2	VI B	General	TELEPHONE COMMUNICATION SYSTEM	It is requested to provide a diagram based clarification showing count of the EPABX and Media Gateways which is considered to be under the scope of this contractor(ASA05).	PBX, Media Gateways are not under scope of this tender.
459	P2	VI B	General	TELEPHONE COMMUNICATION SYSTEM	BoQ is not clear for telecom systems, please provide clear and atleast minimum BoQ in order of number of systems, media gateways, IP, ANALOG-TDM ports and licenses requirement, site wise	PBX, Call Servers, Media Gateways are not under scope of this tender. This tender is based on Design and built requirement. Contractor needs to propose design with qty complying all tender conditions.
460	P2	VI B	General			Query not clear
461	P2	VI B	General		It is observed that there are no display clocks for passengers in platform area or for train operator in platform end-to-end for smooth & timely operation of metro trains asked. Please confirm that it is not required.	Please follow the tender conditions Clocks for Train operator shall not be required for UTO operation. For Passengers, Clock shall be associated with PIDS display.
462	P2	VI B	General	General	Please provide the minimum specification and minimum BOQ for passive infra items like Racks ,Patch Panels,FDMS etc.	Tender is based on Design and built requirement. Please follow the tender conditions.
463	P2	VI B	General	RSS/TSS	Kindly provide how many RSS are available in the corridor	Two RSS's are Provided in Corridor 4 One is at Alwarthiru Nagar and Other is at Poonamalle Depot
464	P2	VI B	General	Parking	kindly provide the details of no. of parking, sky walk, signal point crossing etc. .	Parking details are provided in the drawings. Please refer drawings
465	P2	VI B	General	Cross passage in tunnel area	Kindly provide how many cross passage in the tunnel are available in the corridor	Total 7 Cross Passages are provided in Corridor 4 tunnel area
466	P2	VI B	General	List of total no. of interlocking stations.	Details required as list of total number of interlocking stations is not mentioned.	Interlocking stations shall be provided during signalling detailed design stage
467	P2	VI B	General	General	Kindly confirm if the MMI / Workstation for Radio System shall be the scope of ASA-05 or Other designated Contractor?	Radio system is not in the scope of this tender
468	P2	VI B	General		Drawings for various facilities are required to estimate and provide a complete offer	Please refer drawings for all stations and depot which have already been provided with Tender.
469	P2	VI B	General		Please provide System Architecture drawing with the demarcation of interfaces.	Please refer interface chapter 13&14 of Section VIB Technical Specifications
470	P2	VI B	General		Scope of Laying fibre for Signalling?	Please refer clause 7.1.1.5
471	P2	VI B	General		Hope Maintenance is not incuded in this tender.	CAMC is not part of tender requirement

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472	P2	VI B	General		In Depot admin Building , there is Open Office Area. Is Telephone Required in that area?	Tender condition shall prevail
473	P2	VI B	General		Does Admin Building have CER?	OCC along with the CER/TER for Phase 2 is located at Koyambedu admin building. BCC along with the CER/TER for Phase 2 is located at Nandanam HQ building
474	P2	VI B	General	General	Please provide detail on the various type type of stations and typical stations details.eg. Elevated , double decker etc.	following stations are interchange/Double stack stations 1.Valasaravakkam 2.Alwarthiru Nagar 3.Karambakkam 4.Alappakkam 5.Thirumayilai Metro
475	P2	VI B	General Query		We understand that we can propose multiple Make and Models for major systems during the bid submission. Kindly confirm	Bidder may submit but approval shall be obtained from Engineer & Employer.
476	P3	VII	1.12 Confidential Details	1.12 Confidential Details	Request to include: CONFIDENTIALITY: "Confidentiality obligations shall apply mutatis mutandis to the Purchaser/Owner/Buyer, to the extent applicable. Confidential Information" is information that: (a) is marked as "Confidential" or "Proprietary" at the time of disclosure; or (b) is disclosed orally or visually, is identified by the Party disclosing the information ("Discloser") as confidential at the time of disclosure and is designated as confidential in a writing sent to the receiving Party ("Recipient") within 30 days after disclosure that summarizes the Confidential Information sufficiently for identification. Unless otherwise specified, each Party's obligations with respect to the Confidential Information of the other Party will continue for five years after the date of receipt. Parties agree that breach of the confidentiality obligations by the Recipient will cause irreparable damage for which money damages will not be fully adequate, and Discloser is entitled to seek injunctive relief, in addition to any other legal remedies.	Tender Condition Prevails.
477	P3	VIII	1.13 PDF pg No 105	"The Contractor shall be solely responsible for all the statutory clearances including customs, excise, taxes, levies, octroi, transportation, all import permits, licenses, technical clearances by the Government, safety audits, etc. required for the successful execution of this Contract. The Employer shall provide the reasonable assistance to the Contractor."	Kindly request you to retain the original clause (i.e..) " "However, the Contractor shall submit, in good time, the details of Goods to the Employer, who shall then promptly obtain all import permits or licenses required for these Goods"	Tender Condition Prevails.
478	P3	VII	1.14	1.14 Joint Several Liability	Request to confirm this clause shall be not applicable	Tender Condition Prevails.

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479	P3	VII	11.1	If the works or sections not available for usage by the Employer for more than 1 hour due to the Contractor's default, then the penalty of INR 25,000 shall be paid by the contractor for each hour till the works or sections made ready by him. The cumulative amount shall be deducted by the Employer from the subsequent bills submitted by contractor.	1. Request to mention the Response Time as 4 Hours & the maximum time for resolving the complaint shall be 48 to 72 hours. 2. Please cap the penalty as maximum 5% of the particular faulty equipment of the outstanding work. Excluding the travel time of service person to site & the time required for the replacement / repaired material transit time.	Tender Condition Prevails.
480	P3	VII	11.9	Performance of the Contractor's obligations shall not be considered to have been completed until the Engineer has issued the Performance Certificate to the Contractor, stating the date on which the Contractor completed his obligations under the Contract.	What is the remedial actions for the contractor, if the Performance Certificate is not issued by Employer on time. Please clarify.	The Contractor shall complete all his obligations under the Contract, shall supply all the Contractor's Documents and shall complete and test all the Works, including remedying any defects to enable the Employer to issue Performance Certificate on time. Tender condition prevails.
481	P3	VII	13.7	The Contract Price shall be adjusted to take account of any increase or decrease in Cost resulting from a change in the Laws of the Country (including the introduction of new Laws and the repeal or modification of existing Laws) or in the judicial or official governmental interpretation of such Laws, made after the Base Date, which affect the Contractor in the performance of obligations under the Contract.	We understand this is statutory variation clause, please confirm. If yes, please provide clarity whether this is applicable during entire tenor of contract (contractual completion + extended period of contract.)	Tender condition is self-explanatory.
482	P3	VII	14.1	Unless otherwise stated in the Particular Conditions: (a) the Contract Price shall be the lump sum Accepted Contract Amount and be subject to adjustments in accordance with the Contract; (b) the Contractor shall pay all taxes, duties and fees required to be paid by him under the Contract, and the Contract Price shall not be adjusted for any of these costs, except as stated in SubClause 13.7 [Adjustments for Changes in Legislation]; (c) any quantities which may be set out in a Schedule are estimated quantities and are not to be taken as the actual and correct quantities of the Works which the Contractor is required to execute; and (d) any quantities or price data which may be set out in a Schedule shall be used for the purposes stated in the Schedule and may be inapplicable for other purposes.	There is not separate or additional clause in PCC for contract price & we understand this clause is applicable for Contract Price, please confirm.	Tender condition is self-explanatory.
483	P3	VII	15.4.c	recover from the Contractor any losses and damages incurred by the Employer and any extra costs of completing the Works, after allowing for any sum due to the Contractor under Sub- Clause 15.3 [Valuation at Date of Termination]. After recovering any such losses, damages and extra	The maximum recovery shall not exceed the 100% of sale value of the pending works including any losses, damages & extra costs. Please confirm.	Tender Condition Prevails.

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				costs, the Employer shall pay any balance to the Contractor.		
484	P3	VII	18.2	(b) shall be in the joint names of the Parties, who shall be jointly entitled to receive payments from the insurers, payments being held or allocated between the Parties for the sole purpose of rectifying the loss or damage,	Policies cannot be in joint names hence request you to confirm policy to be in name of Bidder or customer.	Tender Condition Prevails.
485	P3	VII	3.5	3.5 Determinations	The obligations/responsibility/rights under this clause shall apply mutually to both parties and in case of any discussions, the matters shall be negotiated mutually and recorded, please confirm	Tender Condition Prevails.
486	P3	VII	4.2	The Contractor shall obtain (at his cost) a Performance Security for proper performance, in the amount stated in the Contract Data and denominated in the currency(ies) of the Contract or in a freely convertible currency acceptable to the Employer. If an amount is not stated in the Contract Data, this Sub-Clause shall not apply.	Kindly allow Bidder to submit BG in INR even though Bidder shall bid in INR or in Foreign currency OR orders are in INR & in Foreign currency	Tender Condition Prevails.
487	P3	VII	5.6Prior to the issue of any Taking- Over Certificate, the Contractor shall supply to the Engineer the specified numbers and types of copies of the relevant as-built drawings, in accordance with the Employer's Requirements.	Please mention the number of copies & types of copies of as-built drawings to be submitted.	Cl. 31 (SP 5.6) of Part 3 - PCC is self-explanatory.
488	P3	VII	7.4	This Sub-Clause shall apply to all tests specified in the Contract, other than the Tests after Completion (if any). Except as otherwise specified in the Contract, the Contractor shall provide all apparatus, assistance, documents and other information, electricity, equipment, fuel, consumables, instruments, labour, materials, and suitably qualified and experienced staff, as are necessary to carry out the specified tests efficiently. The Contractor shall agree, with the Engineer, the time and place for the specified testing of any Plant, Materials and other parts of the Works. The Engineer may, under Clause 13 [Variations and Adjustments], vary the location or details of specified tests, or instruct the Contractor to carry out additional tests. If these varied or additional tests show that the tested Plant, Materials or workmanship is not in accordance with the Contract, the cost of carrying out this Variation shall be borne by the Contractor, notwithstanding other provisions of the Contract.	We will undergo the testing as per specified in the Tender and in case of any additional tests other than the tests mentioned in the Tender specification, shall be charged back to Employer with an addition of 15% overhead to the actual costs incurred. Actual costs includes Freight from the manufactures location to testing center, testing charges etc.	Tender Condition Prevails.

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SN	Part	Section	Clause	Original Bid condition	Bidder's query	Response
489	P3	VII	8.11	If the suspension under Sub-Clause 8.8 [Suspension of Work] has continued for more than 84 days, the Contractor may request the Engineer's permission to proceed. If the Engineer does not give permission within 28 days after being requested to do so, the Contractor may, by giving notice to the Engineer, treat the suspension as an omission under Clause 13 [Variations and Adjustments] of the affected part of the Works. If the suspension affects the whole of the Works, the Contractor may give notice of termination under Sub-Clause 16.2 [Termination by Contractor].	If works gets suspended for more than 112 (84+28) days, what would be the contractor get as Claims? Please clarify.	Tender condition is self-explanatory.
490	P3	VII	PCC 57/ GCC 14.9	Upon the request of the Contractor, the Employer after issuance of Taking-Over certificate of every Stage commissioning (Refer Cl. 4.4 (Brief Description of Stages) of Part 1 – Section IV, Bidding Forms) may release proportionate share of the withheld retention money specific to that Stage, on submission of Bank Guarantee for an equivalent amount in respective currencies from a Public sector bank (PSB) or Scheduled Commercial Banks in India, in the format annexed to the Particular Conditions.	As Contractor is asked to submit Performance security of value 10% of total contract amount which remains valid after the end of DNP period, we suggest this additional Performance security against retention amount should not be asked. Asking additional BG will unnecessary impact the project cost. We request you to please amend the clause accordingly.	Tender Condition Prevails.

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491	P3	VIII	10. PATENT RIGHTS AND ROYALTIES:	10. PATENT RIGHTS AND ROYALTIES:	Request to add: “No right, title or interest in Intellectual Property provided by Honeywell is transferred to Buyer under the Agreement. All Intellectual Property and results of Services, including software, models, designs, drawings, documents, inventions, and know-how (“Inventions”), conceived or developed by Honeywell in connection with the Agreement, are the sole property of Honeywell and Buyer assigns any rights it may have in such Inventions to Honeywell. All Software delivered by Honeywell is subject to a software license or software subscription agreement (“License”). If Buyer does not agree to a License with Honeywell, Buyer does not have a license or right to Software. : Honeywell shall defend the suits alleging IP infringements of valid US patents and copyrights, and indemnify against the final judgment provided that Buyer (a) gives Honeywell prompt notice when Buyer becomes aware of a third-party claim, (b) gives complete authority and assistance (at Honeywell expense) for disposition of the claim, and (c) makes no prejudicial admission with respect to the claim. Honeywell has no liability for: (a) Deliverables supplied pursuant to Buyer designs, drawings or specifications, (b) Deliverables used other than for the purpose for which they were delivered, (c) claims resulting from combining any Deliverable with any product or software not supplied by Honeywell, (d) any modification of a Deliverable by other than Honeywell, (e) any compromise or settlement made without written Honeywell consent; or (f) costs or attorney fees incurred by Buyer. If infringement claim is made or is likely, Honeywell may at its option and expense: Obtain the right or license to use, or modify the deliverable as to make non-infringing, or accept return of the deliverable and credit the price (depreciated) to customer and terminate the applicable software license. This section states Honeywell’s entire liability and buyer’s sole recourse and exclusive remedies with respect to infringement.”	Tender Condition Prevails.

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492	P3	VIII	10.3	<p>If the Contractor suffers delay by a cause for which the Employer is responsible in carrying out the Tests on Completion, the Contractor shall give notice to the Engineer and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:</p> <p>(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]</p> <p>After receiving this notice, the Engineer shall proceed in accordance with SubClause 3.5 [Determinations] to agree or determine these matters.</p> <p>However, the Contractor shall be solely responsible for his scope covered in Interface tests.”</p> <p>In the event of disputes between the interfacing contractors, the Engineer / the Employer will intervene and will facilitate in resolving the issue.</p>	<p>Since Bidder will not be responsible for the delay caused by other designated contractors and/or Engineer / Employer. The bidder should be compensated for the time delay beyond 30 days. Therefore, please add below mentioned cost plus profit reimbursement point in the clause as mentioned in General Conditions of the Contract.</p> <p>(b) payment of any such Cost plus profit, arising due to the delay which shall be included in the Contract Price</p>	Tender Condition Prevails.
493	P3	VIII	10.3 PDF pg.No 115	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.
494	P3	VIII	11.1 PDF pg.No 116	If the works or sections not available for usage by the Employer for more than 1 hour due to the Contractor's default, then the penalty of INR 25,000 shall be paid by the contractor for each hour till the works or sections made ready by him. The cumulative amount shall be deducted by the Employer from the subsequent bills submitted by contractor	We understand that the Penalty levied shall be covered under the overall cap of LD. Kindly Confirm. Any fault arising due to 3rd party intervention and/or changes done to the system by any other designated contractor shall not be liable to the bidder. Kindly confirm. Request to remove this section as this is not amicable.	Tender Condition Prevails.
495	P3	VIII	11.3	<p>Para 2 :</p> <p>If defects occur on a component/sub-system due to defective material/ design/ workmanship, the Defect Notification period for that item should be reckoned from the time the defects mentioned above, is rectified.</p>	Kindly replace the clause with "If repeated defects occur on a component/sub-system due to defective material/ design/ workmanship to an extent that it is declared as a Type Failure, then the Defect Notification period for that item should be reckoned from the time the defects mentioned above, is rectified."	Tender Condition Prevails.
496	P3	VIII	11.4 PDF pg.No 116	<p>Add the following at the end of Sub-clause 11.4:</p> <p>Reasonable time for rectification of defects shall be:</p> <p>(i) Within 48 hours for recouping the materials becoming defective during DNP period.</p> <p>(ii) Within 1 month for rectification of software bugs occurring in the DNP period</p> <p>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.</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</p>	Tender Condition Prevails.

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					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.	
497	P3	VIII	13	13 Variations and Adjustments	Please note that “the Current price is valid for BOQ quantity only. In case of any quantity variation, unit prices shall need to be mutually agreed.”, please confirm	Tender Condition Prevails.
498	P3	VIII	13.9 Pg.No 118	<p><u>Add new sub-clause 13.9 (Optional Additional order):</u></p> <p><u>13.9.1 The Optional additional order for 5 Stations due to corridor extension of Phase II.</u></p> <p>13.9.1.1 The Employer may take up extension of the corridor covered by the scope of work in any directions during the contract period. In such event, the Employer/ the Engineer reserves the right to instruct the Contractor, to execute the corresponding additional Works prior to issuance of the Taking over Certificate for Last Stage of the commissioning (Refer Cl. 4.4 (Brief Description of Stages) of Part 1 – Section IV, Bidding Forms). The Works shall include but not limited to, Telecommunication works of the extension section and necessary augmentation in OCC/BOCC, respective stations and other central equipments if any.</p> <p>13.9.1.2 The variation cost for the above additional requirement, upto maximum of 5 Stations (Combined for various directions), shall be derived on prorata basis from Price Centre A1 (Preliminaries & General Requirements), Price Centre A2 (Preliminary Design), Price centre B/Price Centre D as applicable (Associated to Stage 1 / Stage 7). The total Contract Price will be adjusted accordingly and no additional payment on any other account whatsoever shall be payable to the Contractor.</p> <p>However, Price Adjustment as per Cl. 3.2 of ‘Instructions for Completing the Pricing document’ shall be applicable for this quantity variation.</p>	<p>Request you to kindly include the below mentioned points :</p> <p>1. In case the project schedule is delayed and ROD/TOC for the last section is not achieved within specified contractual duration i.e. 1450 days, then the bidder shall reserve the right to revise the prices.</p> <p>2. In case of major variations in commodity prices the bidder shall reserve the right to apply price variation claims as per provisions given in clause 13.8 Section VII. General Conditions</p>	Tender Condition Prevails.

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				13.9.1.3 In case this quantity variation exceeds beyond 5 Stations, the cost for the additional quantity (only for the portion which exceeds beyond 5 Stations) shall be mutually agreed.		
499	P3	VIII	13.Variations and Adjustments 13.9 PDF pg.No 118	Quantity Variation	Kindly request you to add the following clause "Variation of any item due to change in scope of work during execution, provided the change in Contract value is within $\pm 15\%$, shall be applied at the unit rate quoted by the Tenderer"	Tender Condition Prevails.
500	P3	VIII	14	14 Contract Price and Payment	Request to confirm : Pay when paid not acceptable.	Tender Condition Prevails.
501	P3	VIII	14.2	The First instalment of the Advance Payment may be paid after: (i) the Contract Agreement is signed; and (ii) the required Bank Guarantee in the specified format from banks as mentioned above is submitted. The Second & final instalment of the Advance Payment may be paid after: (i) the required Bank Guarantee in the specified format from banks as mentioned above is submitted (ii) the evidence for satisfactory utilization of the First instalment of mobilization is submitted; (iii) mobilization of all the Key Personnel as per contract and (iv) Completion of 60% of Preliminary design (Price Centre A2).	Kindly request you to amend the clause as follows " The mobilization advance shall be payable in two instalment at 5% in the first instalment and 5% in second instalment. The first instalment shall be paid after the award of Letter of Acceptance, submission of the Performance Security, undertaking and Guarantees ,Advance Payment Bank Guarantee and signing of the Contract Agreement. The second instalment shall be paid after satisfactory utilization of the first instalment. The Contractor shall be required to submit the 'Utilization Certificate' for all Advances received by them from the Employer under the Contract".	Tender Condition Prevails.

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502	P3	VIII	14.7 (b)	General	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. "	Tender Condition Prevails.
503	P3	VIII	14.7 (b) Pdf Pg.No 119	the amount certified in each Interim Payment Certificate within 56 days after the Engineer receives the Statement and supporting documents or, within 15 days after the Employer receives the Interim Payment Certificate from the Engineer	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.
504	P3	VIII	14.9 PDF pg.No 119	Payment of Retention Money - Upon the request of the Contractor, the Employer after issuance of Taking-Over certificate of every Stage commissioning (Refer Cl. 4.4 (Brief Description of Stages) of Part 1 – Section IV, Bidding Forms) may release proportionate share of the withheld retention money specific to that Stage, on submission of Bank Guarantee for an equivalent amount in respective currencies from a Public sector bank (PSB) or Scheduled Commercial Banks in India, in the format annexed to the Particular Conditions.	We understand any point of time / stage, Bidder has the option to submit the Bank Guarantee for an equivalent amount for release of the Retention money. Kindly confirm.	Tender Condition Prevails.
505	P3	VIII	15. Performance Security	The Performance Security shall be in the form of a Bank guarantee, in the amounts of 10% of the Accepted Contract Amount, and in the same currency(ies) of the Accepted Contract Amount.	With reference to the Notification No. F.9/4/42020-PPD with subject "Performance Security" from the Ministry of Finance, we request you to kindly limit the Performance Security to 3% of contract value.	Tender condition shall prevail

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506	P3	VIII	17.6	<p>17.6 Limitation of Liability</p> <p>Neither Party shall be liable to the other Party for loss of use of any Works, loss of profit, loss of any contract or for any indirect or consequential loss or damage which may be suffered by the other Party in connection with the Contract, other than as specifically provided in Sub-Clause 8.7 [Delay Damages]; Sub-Clause 11.2 [Cost of Remedying Defects]; Sub-Clause 15.4 [Payment after Termination]; Sub-Clause 16.4 [Payment on Termination]; Sub-Clause 17.1 [Indemnities]; Sub-Clause 17.4 (b) [Consequences of Employer's Risks] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights]. The total liability of the Contractor to the Employer, under or in connection with the Contract other than under Sub-Clause 4.19 [Electricity, Water and Gas], Sub-Clause 4.20 [Employer's Equipment and Free-Issue Material], Sub-Clause 17.1 [Indemnities] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights], shall not exceed the sum resulting from the application of a multiplier (less or greater than one) to the Accepted Contract Amount, as stated in the Contract Data, or (if such multiplier or other sum is not so stated), the Accepted Contract Amount.</p> <p>This Sub-Clause shall not limit liability in any case of fraud, deliberate default or reckless misconduct by the defaulting Party.</p>	<p>Request to modify as follows:</p> <p>17.6 Limitation of Liability</p> <p>Neither Party shall be liable to the other Party for loss of use of any Works, loss of profit, loss of any contract or for any indirect or consequential loss or damage which may be suffered by the other Party in connection with the Contract, other than as specifically provided in Sub-Clause 8.7 [Delay Damages]; Sub-Clause 11.2 [Cost of Remedying Defects]; Sub-Clause 15.4 [Payment after Termination]; Sub-Clause 16.4 [Payment on Termination]; Sub-Clause 17.1 [Indemnities]; Sub-Clause 17.4 (b) [Consequences of Employer's Risks] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights].</p> <p>The total liability of the Contractor to the Employer, under or in connection with the Contract other than under Sub-Clause 4.19 [Electricity, Water and Gas], Sub-Clause 4.20 [Employer's Equipment and Free-Issue Material], Sub-Clause 17.1 [Indemnities] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights], shall not exceed the sum resulting from the application of a multiplier (less or greater than one) to the Accepted Contract Amount, as stated in the Contract Data, or (if such multiplier or other sum is not so stated), the Accepted Contract Amount.</p> <p>This Sub-Clause shall not limit liability in any case of fraud, deliberate default or reckless misconduct by the defaulting Party.</p>	Tender Condition Prevails.
507	P3	VIII	19	19 Force Majeure	<p>Request to modify as follows:</p> <p>Insert "vandalism, pandemic" in the definition subclause.</p> <p>Covid Clause –"Notwithstanding anything to the contrary, in light of the COVID-19 pandemic, the effects of which cannot be foreseen, the parties agree that Honeywell shall be entitled to an equitable extension of time to deliver or perform its work and appropriate additional compensation to the extent Honeywell's delivery or performance, or the delivery or performance of its suppliers and/or subcontractors, is in any way delayed, hindered or otherwise affected by the COVID-19 pandemic."</p>	Tender Condition Prevails.
508	P3	VIII	2.1 PDF pg.No 105	<p>Cost compensation for the delay period</p> <p>Cost compensation for the delay period - Hardware warranty extension cost for deferment of DNP obligations, at actuals</p>	<p>Kindly request you to amend the clause as follows</p> <p>" Hardware and Software warranty extension cost for deferment of DNP obligations, at actuals"</p>	Tender Condition Prevails.

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509	P3	VIII	20 Claims, Disputes and Arbitration	20 Claims, Disputes and Arbitration	Request to propose for amicable settlement and Arbitration via mutual arbitrator.	Tender Condition Prevails.
510	P3	VIII	4.1	4.1 Contractor's General Obligations The Contractor shall design, execute and complete the Works in accordance with the Contract, and shall remedy any defects in the Works. When completed, the Works shall be fit for the purposes for which the Works are intended as defined in the Contract.	Work would be delivered as per the specifications and scope of work agreed between the parties, please confirm	Tender Condition Prevails.
511	P3	VIII	4.19 PDF pg No.109	The contractor shall coordinate with the interfacing contractors for these services as may be available on the site and may be obtained on mutually agreed terms. At the time of Power-on of the equipment's and during testing & commissioning, UPS power arrangement will be made available along with temporary/permanent Air-conditioning, as the case may be.	We understand that the Electricity , Water and Gas are already available on the site. Backup Electricity provision (UPS) is also available during the project execution stage. Post power-on of the equipments, Employer shall bear the cost of the power during testing phase. Kindly confirm.	Tender condition in this regard is self-explanatory.
512	P3	VIII	4.19- Electricity,water & Gas	The contractor shall coordinate with the interfacing contractors for these services as may be available on the site and may be obtained on mutually agreed terms. At the time of Power-on of the equipment's and during testing & commissioning, UPS power arrangement will be made available along with temporary/permanent Air-conditioning, as the case may be.	Please remove Air Conditioning.	Tender Condition Prevails.
513	P3	VIII	4.2	The Performance Security shall be in the form of a Bank guarantee, in the amounts of 10% of the Accepted Contract Amount, and in the same currency(ies) of the Accepted Contract Amount.	Please refer Office memorandum issued by Ministry of Finance, Department of Expenditure Procurment Policy Division dated: 30th December, 2021. (Amendment attached for your reference) As per memorandum, It has been stated that relaxation on the reduced performance security has been extended upto 31.03.2023. Therefore in the view of the same we request you to reduce the performance security against the LOA to 3% instead of 10%. This will ease contractor to maintain cash flow and timely completion of project.	Tender Condition Prevails.
514	P3	VIII	8.4 Extension of Time for Completion Pg.No 113	Add the following to the end of Sub-Clause 8.4: However, the Contractor shall not be entitled to any extension of time where the instructions or acts of the Employer or the Engineer are necessitated by or intended to cure any default of or breach of Contract by the Contractor or where any delay is due to: a. the failure of sub-contractor, to commence or to carry out work in due time,	Request you to kindly remove " b. inclement weather conditions, other than 1 in 50 year cycle " as from past experiences we have learnt that excessive rainfalls in Chennai lead to disruption of works which are beyond the Bidder's control.	Tender Condition Prevails.

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				b. inclement weather conditions, other than 1 in 50 year cycle and c. the Contractor not fulfilling his obligations under Sub-Clause 4.6.		
515	P3	VIII	8.7	8.7 Delay Damages	Request to add below: “Notwithstanding anything to the contrary, where Contractor is unable/delayed from adhering to the time schedule for performing its portion of the work due to delays or any events which are not attributable to the Contractor, then Authority shall compensate the Contractor for the work performed/goods delivered/obligations undertaken.” We are OK for LD subject to the foll. conditions “Notwithstanding anything to the contrary, Liquidated damages are levied @ 0.5% per week, subject to a maximum of 5% of the undelivered/unperformed portion of the contract value. Such LD shall constitute Authority’s sole and exclusive remedy, to will be levied for delay in supplies, which delays are solely attributable to Contractor.”	Tender Condition Prevails.
516	P3	VIII	8.7	Delay damages for the Works	Please provide maximum LD Percentage.	Cl. 18 (CD 8.7) of Part 3 - PCC - Contract Data is self-explanatory.
517	P3	VIII	8.8	8.8 Suspension of Work	Request to include: “Notwithstanding the foregoing, the parties will agree on an equitable adjustment to Contractor’s price and delivery schedule before Contractor resumes further work under this Order.”	Tender Condition Prevails.
518	P3	VIII	General	The insuring Party shall insure the Contractor's Equipment for not less than the full replacement value, including delivery to Site. For each item of Contractor's Equipment, the insurance shall be effective while it is being transported to the Site and until it is no longer required as Contractor's Equipment. -	Since no vehicles are envisaged to be employed for this project, then this clause should be deleted.	Tender Condition Prevails.
519	P3	VIII	General	Additional clause	Request to include: Covid Clause –“Notwithstanding anything to the contrary, in light of the COVID-19 pandemic, the effects of which cannot be foreseen, the parties agree that Honeywell shall be entitled to an equitable extension of time to deliver or perform its work and appropriate additional compensation to the extent Honeywell’s delivery or performance, or the delivery or performance of its suppliers and/or subcontractors, is	Tender Condition Prevails.

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					in any way delayed, hindered or otherwise affected by the COVID-19 pandemic.”	
520	P3	VIII	General	Additional clause	<p>Request to include: Remote Services- “Customer agrees that Honeywell may enhance system operations or perform some or all of the Work remotely using an Internet connection and may install additional software and related communication and/or diagnostic devices on Customer's applicable systems (the “Systems”) to enable such connection, enhancement and/or remote Work performance. Notwithstanding any other provision of the Agreement, such software and devices will remain the property of Honeywell and shall be removed from the Systems and returned to Honeywell promptly at Honeywell’s request. Customer agrees to fully cooperate with Honeywell’s installation and commissioning of such software and devices on the Systems. To the extent required by Honeywell, Customer will enable and consents to Internet connectivity, with appropriate protection(s), between its applicable Systems and Honeywell’s applicable computer server(s)/system(s) and/or the Honeywell cloud platform(s) throughout the term of the Agreement. Honeywell and its affiliates may, in any country in which they or their agents or suppliers conduct business, collect, transmit, receive, process, maintain and use for the purpose of performing the Work all data obtained in connection with the Agreement. Customer represents and warrants that Customer is the owner of the premises that are the subject of this Agreement or, if not, that the owner of such premises consents to the foregoing, to the extent such consent is required.</p> <p>Notwithstanding any other provision of the Agreement, (a) in no event will Honeywell be responsible or liable for protection against, or mitigation of consequences associated with, a cybersecurity incident or other similar cyber-related events and/or attacks that may affect Customer’s sites</p>	Tender Condition Prevails.

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					or systems, (b) Customer is solely responsible for ensuring that its sites and systems are protected against such a cybersecurity incident or other similar cyber-related events and/or attacks including, but not limited to, ensuring that all software is kept up to date, that all cybersecurity products used are compatible with one another and that any patches are correctly and appropriately installed, and (c) all remedial, reinstallation or update works provided by Honeywell, if any, as a result of or related to a cybersecurity incident or other similar cyber-related events and/or attacks will be performed subject to additional fees for such work, plus applicable taxes, to be paid by Customer to Honeywell (in addition to fees otherwise due under the Agreement)."	
521	P3	VIII	General	Additional clause	<p>Request to include: ECONOMIC SURCHARGE: "Honeywell may, from time to time and in its sole discretion, issue surcharges on this Agreement in order to mitigate and/or recover increased operating costs arising from or related to, without limitation: (a) foreign currency exchange variation; (b) increased cost of third-party content, labor and materials; (c) impact of duties, tariffs, and other government actions; and (d) any other circumstances that increase Honeywell's costs, including, without limitation, increases in freight, labor, material or component costs, and increased costs due to inflation (collectively, "Economic Surcharges"). Honeywell will invoice Buyer, through a revised or separate invoice, and Buyer agrees to pay for the Economic Surcharges pursuant to the standard payment terms in this Agreement. If a dispute arises with respect to Economic Surcharges, and that dispute remains open for more than fifteen (15) days, Honeywell may, in its sole discretion, withhold performance and future shipments or combine any other rights and remedies as may be provided under this Agreement or permitted by law until the dispute is resolved.</p> <p>The terms of this section shall prevail in the event of inconsistency with any other terms in this Agreement. Any Economic Surcharges, as well as the timing, effectiveness, and method of determination thereof, will be separate from and in addition to any changes to pricing that are affected by any other provisions in this Agreement."</p>	Tender Condition Prevails.

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522	P3	VIII	General	Additional clause	Request to include: CONFIDENTIALITY: “Confidentiality obligations shall apply mutatis mutandis to the Purchaser/Owner/Buyer, to the extent applicable. Confidential Information” is information that: (a) is marked as “Confidential” or “Proprietary” at the time of disclosure; or (b) is disclosed orally or visually, is identified by the Party disclosing the information (“Discloser”) as confidential at the time of disclosure and is designated as confidential in a writing sent to the receiving Party (“Recipient”) within 30 days after disclosure that summarizes the Confidential Information sufficiently for identification. Unless otherwise specified, each Party’s obligations with respect to the Confidential Information of the other Party will continue for five years after the date of receipt. Parties agree that breach of the confidentiality obligations by the Recipient will cause irreparable damage for which money damages will not be fully adequate, and Discloser is entitled to seek injunctive relief, in addition to any other legal remedies.	Tender Condition Prevails.
523	P3	VIII	General	Additional clause	Request to add below: REMEDIES OF NONPAYMENT-If Buyer pays late, Honeywell may: (a) suspend deliveries until all delinquent amounts and late interest, if any, are paid, (b) repossess Products or software for which payment has not been made, (c) charge interest for non-payment at lesser of 1.5 % per month for each full or partial month or the maximum legal rate available under governing law, (d) recover all costs of collection, including but not limited to reasonable attorneys’ fees, and (e) combine any of the above rights and remedies as may be permitted by applicable law	Tender Condition Prevails.
524	P3	VIII	1.9 Errors in the Employers requirements Pg No.105	Replace Sub-clause 1.9 with the following: Upon execution of contract agreement, the Contractor is sole responsible for the errors if any left on Employer’s Requirements. The contractor is not entitled for any extension of time or cost compensation on this account.	Since the Bidder shall not be solely responsible for the delay encountered due to Errors in Employer's Requirements, bidder shall be entitled for following : (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], and (b) payment of any such Cost plus profit, which shall be included in the Contract Price as mentioned in General Conditions of the Contract.	Tender Condition Prevails.