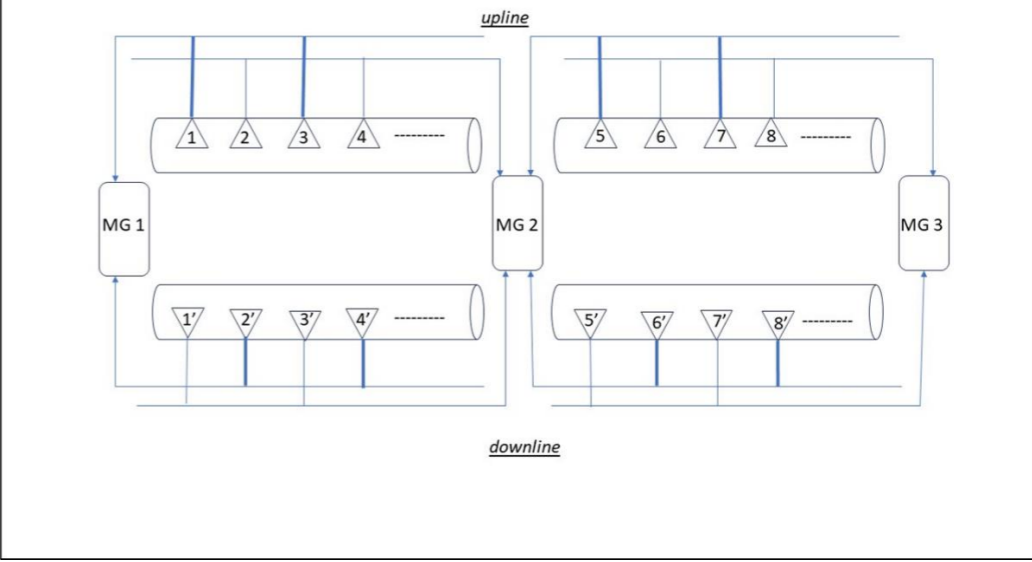


Addendum-02
CMRL/PHASE-II/SYS/ C3&5 ASA06/2023
16-06-2023

SN	Part	Section	Clause	Original Bidcondition	Revised bidcondition
1.	NIT	NIT	Bid Submission Date, Corrigendum-02	Bid Submission Start Date: 13 June2023 till 18:00 hrs. Last Date and Time of submission/uploading of Bid: 20 June 2023 till 15:00 hrs. Date and Time of opening of Bid (Technical Bid): 20 June 2023 till 17:00 hrs.	Refer Corrigendum-03.
2.	Part 2	Section-VI B	1.7.1	1.7.1 Redundancy Configuration	Refer Annexure-A.
3.	Part 2	Section-VI B	6.1.2.22 (C)	Additional Clause	(C) The cameras shall support end to end encryption.
4.	Part 2	Section-VI B	9.1.1.17	Additional Clause	The Contractor shall integrate with existing Communication Backbone Network of Phase 1 and Phase 1 Ext for seamless communication via standard protocols.
5.	Part 2	Section-VI B	9.2.9.1.11	The Layer 3 switch in OCC & BCC shall be modular chassis-based switch with swappable cards/power supply /Fan etc. while WAN switch at stations ,depots ,and Headquarters shall be modular based with hot swappable minimum PSU&SFP's. Bidders shall provide FCAPS certified NMS Solution which can support & manage multiple vendor devices.	The Layer 3 switch in OCC & BCC shall be modular switch or chassis-based switch with swappable cards/power supply /Fan etc. while WAN switch at stations ,depots ,and Headquarters shall be modular based with hot swappable minimum PSU&SFP's. Bidders shall provide FCAPS certified NMS Solution which can support & manage multiple vendor devices.
6.	Part 2	Section-VI B	9.9.3.2	Redundant Core Switches shall be provided in each OCC and BCC. These Core switches at OCC & BCC shall be chassis based and shall have redundant critical modules like supervisor/control/management card & power supply card etc.	Redundant Core Switches shall be provided in each OCC and BCC. These Core switches at OCC & BCC shall be chassis based and shall have redundant critical modules like supervisor/control/management card & power supply card etc. In case modular switches are proposed for core switches, the equivalent redundancy arrangement as envisaged in chassis-based core switch shall be provided.
7.	Part 2	Section-VI B	10.1.3	Telephone System user shall have voice mail facility for users. Bidder may assume minimum 50 concurrent request for voice mail facility.	Telephone System user shall have voice mail facility for users. Bidder may assume minimum 24 concurrent request for voice mail facility.
8.	Part 2	Section-VI B	10.3.1.8	Each Phone should support minimum 02 SIP User Accounts.	Deleted
9.	Part 2	Section-VI B	10.3.2.4.2	Emergency Phone with Blue Light (as per NFPA 130-2007) a) Analog phone connected to SCR and OCC Emergency Telephones at in Tunnels shall be provided by other designated contractors having underground sections in their scope. ASA- 06 Contractor shall provide media gateways in 1+1 redundancy with a minimum of 24 long line cards in each to interface with Emergency phones in tunnels. Call originated from Emergency Telephones from tunnel area shall be landed in nearest station's SCR phone, in case phone in SCR gets unattended in defined and configurable time duration then same call will be re-routed to controller's phone in OCC /BCC. These phones shall be able to auto-attend incoming call in speaker mode without any manual intervention. The distance between two Emergency phones should not exceed 250 meters.	Emergency Phone with Blue Light (as per NFPA 130-2007) (a) Analog phone connected to SCR and OCC Emergency Telephones at in Tunnels shall be provided by other designated contractors having underground sections in their scope. The distance between two Emergency phones shall not exceed 250meters. ASA- 06 Contractor shall provide media gateways to interface with Emergency phones in tunnels. Media gateways shall be planned to support the architecture shown below.

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SN	Part	Section	Clause	Original Bidcondition	Revised bidcondition
					 <p>Call originated from Emergency Telephones from tunnel area shall be landed in nearest station's SCR phone, in case phone in SCR gets unattended in defined and configurable time duration then same call will be re-routed to controller's phone in OCC /BCC. These phones shall be able to auto-attend incoming call in speakers mode (external speakers) without any manual intervention .</p>
10.	Part 2	Section-VI B	11.4.8	Additional Clause	The Contractor shall integrate with existing Corporate LAN network of Phase 1 and Phase 1 Ext for seamless communication via standard protocols.
11.	Part 2	Section-VI B	15.1.1.2	All the cables (power cables, data cables, optical fiber cables and pigtails etc. should be LSZH (low smoke zero halogen) type cable at all underground stations.	All the cables (power cables, data cables, optical fiber cables and pigtails etc. should be LSZH (low smoke zero halogen) type cable at all underground stations/elevated stations/tunnels.
12.	Part 2	Section-VI B	15.1.2.1.3	The cables for installation in elevated/at-grade section shall be manufactured as per Indian Railways RDSO/TEC specifications, wherever available in TEC/RDSO specifications for a particular cable type. Wherein the RDSO/TEC specifications are not available then the specifications as laid down herein shall be complied with.	The cables for installation in elevated/at-grade section shall be manufactured as per Indian Railways RDSO/IEC specifications, wherever available in IEC/RDSO specifications for a particular cable type. Wherein the RDSO/IEC specifications are not available then the specifications as laid down herein shall be complied with.
13.	Part 2	Section-VI B	15.1.2.3	Fire Resistance Unless otherwise specified for the fire-resistant requirements, all cables shall comply with reduced fire and flame propagation requirements of IEC 60332-1 & 60332-3 Cat C for single and bunched cables respectively. Loudspeaker cables in addition shall be of fire survival type to ensure circuit integrity for three hours during fire as per IEC60331.	Fire Resistance Unless otherwise specified for the fire-resistant requirements, all cables shall comply with reduced fire and flame propagation requirements of IEC 60332-1 for single cables. All Power cables shall comply with reduced fire and flame propagation requirements of IEC 60332-3 Cat C for bunched cables. Loudspeaker cables in addition shall be of fire survival type to ensure circuit integrity for three hours during fire as per IEC 60331.
14.	Part 2	Section-VI B	15.2.1.1	In addition to the requirements specified in FOTS chapter of this PS, the following specifications shall be complied with by Optical Fiber Cables for Underground Section used inside the tunnel, if any. The Contractor shall get these cables inspected from Employer representative and all cost of inspection shall be borne by the Contractor.	In addition to the requirements specified in FOTS chapter of this PS, the following specifications shall be complied with by Optical Fiber Cables for Underground/Elevated/At-grad Section used inside the tunnel, if any. The Contractor shall get these cables inspected from Employer representative and all cost of inspection shall be borne by the Contractor.

Addendum-02
CMRL/PHASE-II/SYS/ C3&5 ASA06/2023
16-06-2023

SN	Part	Section	Clause	Original Bidcondition	Revised bidcondition
15.	Part 2	Section-VI B	16.9.48	Must be capable of uninstalling and replacing existing client antivirus software (Provide the detailed list)	Deleted.
16.	Part 2	Section-VI B	16.13.6	The solution should support Email DLP in on premise for the Email Exchange, All licenses required for the same should be included and management should be from the same centralized management platform.	Deleted.

Enclosed:
1. Annexure A – Redundancy Configuration

Annexure - A

1.7.1 Redundancy Architecture shall be followed as per the below requirement.

Location	Subsystem	Redundancy Configuration
OCC	CPIS (PIDS and PAS part of CPIS)	1+1
	ISMS (CCTV and ACID part of ISMS)	1+1
	MCS	1
	FOTS	1 (for Chassis Based) 1+1 (for Modular Switch)
	Telephone	1
	OAIT	1 (for Chassis Based) 1+1 (for Modular Switch)
	CDRS	1
	T-SCADA	1
BCC	CPIS (PIDS and PAS part of CPIS)	1+1
	ISMS (CCTV and ACID part of ISMS)	1+1
	MCS	1
	FOTS	1 (for Chassis Based) 1+1 (for Modular Switch)
	Telephone	1
	OAIT	1 (for Chassis Based) 1+1 (for Modular Switch)
	CDRS	1
	T-SCADA	1

Note:

1. The requirement mentioned in this table supersedes redundant architectures mentioned in remaining all other chapters in Technical Specifications.