

Addendum-05
CMRL/PHASE-II/SYS/ C3&5 ASA08/2023
05-09-2023

SN	Part	Section	Clause	Original Bidcondition	Revised bidcondition																								
1.	Part-2	Section – VI B	5.5.8.4 (f)	Additional Clause:	(f) Doors providing access to various zones in Depot (minimum 10 Nos)																								
2.	Part-2	Section – VI B	7.9.3.3	<p>The WAN (Distribution Switch) switches should be equipped for the interfaces given below as a minimum:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>SN</th> <th>Interface</th> <th>Stations/depot ports per switch (Layer-3) as minimum</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10G optical uplink interface(Distribution Switch)</td> <td>2</td> </tr> <tr> <td>2</td> <td>1G optical uplink interface(Access switch)</td> <td>4</td> </tr> <tr> <td>3</td> <td>10/100/1000 Base T port</td> <td>20</td> </tr> </tbody> </table>	SN	Interface	Stations/depot ports per switch (Layer-3) as minimum	1	10G optical uplink interface(Distribution Switch)	2	2	1G optical uplink interface(Access switch)	4	3	10/100/1000 Base T port	20	<p>The WAN (Distribution Switch) switches should be equipped for the interfaces given below as a minimum:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>SN</th> <th>Interface</th> <th>Stations/depot ports per switch (Layer-3) as minimum</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10G optical uplink interface(Distribution Switch)</td> <td>2</td> </tr> <tr> <td>2</td> <td>1G optical uplink interface(Access switch)</td> <td>Ports as per design. Bidder to consider 25% of Populated ports as spare ports</td> </tr> <tr> <td>3</td> <td>10/100/1000 Base T port</td> <td></td> </tr> </tbody> </table>	SN	Interface	Stations/depot ports per switch (Layer-3) as minimum	1	10G optical uplink interface(Distribution Switch)	2	2	1G optical uplink interface(Access switch)	Ports as per design. Bidder to consider 25% of Populated ports as spare ports	3	10/100/1000 Base T port	
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3.	Part-2	Section- VI B	7.9.8	<p>Switch Architecture Distribution Switch should have Redundant Power supply. Dedicated stacking Ports supporting 40 Gbps.</p>	<p>Switch Architecture Distribution Switch should have Redundant Power supply. Dedicated stacking or any other suitable methods.</p>																								
4.	Part-2	Section- VI B	7.9.9	<p>Performance Specifications Backplane Bandwidth: minimum 200 Gbps non-blocking Layer 2/3 Forwarding Performance: minimum 100 Mpps. The availability requirement of FOTS GE equipment shall better than 99.999%. The reliability requirement described under General requirements chapter of this document.</p>	<p>Performance Specifications Backplane Bandwidth: minimum 110 Gbps non-blocking Layer 2/3 Forwarding Performance: minimum 80 Mpps. Backplane Bandwidth and Forwarding performance shall not affect the overall functional and audio/video/data performances. The availability requirement of FOTS GE equipment shall better than 99.999%. The reliability requirement described under General requirements chapter of this document.</p>																								
5.	Part-2	Section- VI B	9.2.3	The communication Contractor shall provide the local LAN and the connectivity of this network on the OFC backbone between stations, DCCs and other O&M offices at Stations and other locations inside depot.	The communication Contractor shall provide the local LAN and the connectivity of this network on the OFC backbone between stations, DCCs and other O&M offices at Stations and all the buildings inside depot.																								
6.	Part-2	Section-VIC	Employer's Drawings	Additional: OCC Building at Madhavaram	Please click the link to download: ASA08 OCC Building at Madhavaram.rar																								
7.	Part-3	Section-VIII	Particular Conditions (Part A :Contract Data)	Table 1: Summary of Key dates:	Please refer revised Summary of Key Dates in Annexure A.																								

Enclosed:

- Annexure-A : Summary of Key Dates

Annexure-A
Table 1: Summary of Key dates:

Key Date No.	Key Date Description (Sub-clause 1.1.5.6)	Time for Completion (Calendar days from date of Commencement) (Sub-clause 1.1.3.3)	Associated Price Centres for the purposes of Liquidated Damages (For LD amount, refer to Contract Data 8.7)
ELEVATED SECTION (C3-EV 01,DPT-02,C5-EV 03) - DESIGN			
KD-DES-001	Submission of Preliminary design for all stages and Obtaining Notice of No Objection (NONO) for Preliminary Design	120	Total of Price Centres – A1 & A2 (Proportionate cost)
KD-DES-002	Submission of Final design for C5-EV03 and DPT-02 package and Obtaining Notice of No objection (NONO) for Final Design	270	Total of Price Centres – C.S4B.1.1
KD-DES-003	Submission of Final design for C3-EV01 Obtaining Notice of No objection (NONO) for Final Design	310	Total of Price Centres – B.S3A.1
UNDER GROUND SECTION (C3-UG 01, UG 02,UG 03,UG 04,UG 05,C5-UG06)-DESIGN			
KD-DES-004	Submission of Preliminary design for all stages and Obtaining Notice of No Objection (NONO) for Preliminary Design.	230	Total of Price Centres – A2 (Proportionate cost)
KD-DES-005	Submission of Final design for Stage UG 01&02 and Obtaining Notice of No objection (NONO) for Final Design	825	Total of Price Centres – E.S5.1,
KD-DES-006	Submission of Final design for Stage UG -03 and Obtaining Notice of No objection (NONO) for Final Design	825	Total of Price Centres –F.S6.1
KD-DES-007	Submission of Final design for Stage UG 04&05 and Obtaining Notice of No objection (NONO) for Final Design	1040	Total of Price Centres – G.S7.1
KD-DES-008	Submission of Final design for Stage UG 06 and Obtaining Notice of No objection (NONO) for Final Design	770	Total of Price Centres – D.S4B.2.1
STAGE 3 – REVENUE SERVICE			
	C3-EV01		
KD-S3-001	Delivery of all Telecom Cables, Racks & Fixtures for C3-EV-01 package according to the access dates	490	Total Price Centres B.S3A.2.5 & B.S3A.2.9
KD-S3-002	Manufacture and Delivery of all remaining Telecommunication sub systems at Site for C3-EV01 package according to the access dates	580	Total of Price Centres B.S3A.2 excluding (B.S3A.2.5 & B.S3.2.9)
KD-S3-003	Completion of Installation Works at Site and testing (IAT and PAT) at site for C3-EV01 stations	790	Total of Price Centres B.S3A.3

Key Date No.	Key Date Description (Sub-clause 1.1.5.6)	Time for Completion (Calendar days from date of Commencement) (Sub-clause 1.1.3.3)	Associated Price Centres for the purposes of Liquidated Damages (For LD amount, refer to Contract Data 8.7)
KD-S3-004	System Acceptance Test and integrated Testing and commissioning of equipment for Stage 3	910	Price Centre B.S3A.4.1 & B.S3A.4.2
KD-S3-005	Service trials and System Readiness for CMRS Inspection and ROD Clearance for Stage 3	940	Total of Price Centres B.S3A.4.3 & B.S3A.4.5
KD-S3-006	Issuance of Completion Certificate for Stage 3	947	Total of Price Centres B.S3A.4.
KD-S3-007	Achieve Operational Acceptance for respective Stage's Revenue Service	1487	Price Centre B.S3A.4.6
STAGE 4B.1 – REVENUE SERVICE			
	C5-EV03 & DPT-02		
KD-S4-001	Delivery of all Telecom Cables, Racks & Fixtures for C5-EV-03 & DPT-02 packages according to the access dates	490	Total of Price Centres C.S4B.1.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S4-002	Manufacture and Delivery of all remaining Telecommunication sub systems at Site for C3-EV03 & DPT-02 packages according to the access dates	580	Total of Price Centres C.S4B.1.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S4-003	Completion of Installation Works at Site and testing (IAT and PAT) at site for C5-EV03 & DPT-02 stations	790	Total of Price Centres C.S4B.1.3
KD-S4-004	System Acceptance Test and integrated Testing and commissioning of equipment for Stage 4B.1	910	Price Centre C.S4B.1.4
KD-S4-005	Service trials and System Readiness for CMRS Inspection and ROD Clearance for Stage 4B.1	940	Total of Price Centres C.S4B.1.4
KD-S4-006	Issuance of Completion Certificate for Stage 4B.1	947	Total of Price Centres & C.S4B.1.4
KD-S4-007	Achieve Operational Acceptance for respective Stage's Revenue Service	1487	Total of Price Centres C.S4B.1.4
STAGE 4B.2 – REVENUE SERVICE			
	C5-UG 06		
KD-S4-001	Manufacture and Delivery of all Telecom OFC, Data and power Cables at Contractor's premises in Chennai and Manufacture & Delivery of Racks, cabinets & Fixtures and associated accessories for stations at Contractor's premises in Chennai for C5-UG-06 Stations	950	Total of Price Centres D.S4B.2.2 (based on corresponding sub cost centre inline with cost centre B)

Key Date No.	Key Date Description (Sub-clause 1.1.5.6)	Time for Completion (Calendar days from date of Commencement) (Sub-clause 1.1.3.3)	Associated Price Centres for the purposes of Liquidated Damages (For LD amount, refer to Contract Data 8.7)
KD-S4-002	Manufacture and Delivery of all remaining Telecommunication sub systems at Contractor's Premises in Chennai	1040	Total of Price Centres D.S4B.2.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S4-003	Completion of Installation and testing (IAT and PAT)works at Site C5-UG-06 package	1250	Total of Price Centres D.S4B.2.3
KD-S4-004	System Acceptance Test and integrated Testing and Commissioning of Equipment for Stage 4B.2	1340	Price Centre D.S4B.2.4
KD-S4-005	Service trails ,System readiness for CMRS inspection and ROD clearance for Stage 4B.2	1370	Total of Price Centres D.S4B.2.4
KD-S4-006	Issuance of Completion certificate for Stage 4B.2	1377	Total of Price Centres D.S4B.2.4
KD-S4-007	Achieve Operational Acceptance for respective Stage's Revenue Service	1917	Total of Price Centres D.S4B.2.4
STAGE 5 – REVENUE SERVICE			
C3-UG 01& C3-TU01			
KD-S5-001	Manufacture and Delivery of all Telecom OFC ,Data and power cables at contractor's premises in Chennai and Manufacture &Delivery of Racks ,cabinets and fixtures and associated accessories for stations at Contractor's premises in Chennai for C3-UG01	1005	Total of Price centres E.S5.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S5-002	Manufacture and Delivery of all remaining Telecommunication sub systems at Contractor's premises in Chennai	1095	Total of Price centres E.S5.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S5-003	Completion of Installation and testing (IAT and PAT) Works at Site for C3-UG01	1305	Total of Price centre E.S5.3 (based on corresponding sub cost centre inline with cost centre B)
C3-UG 02& C3-TU01			
KD-S5-004	Manufacture and Delivery of all Telecom OFC ,Data and power cables at contractor's premises in Chennai and Manufacture &Delivery of Racks ,cabinets and fixtures and associated accessories for stations at Contractor's premises in Chennai for C3-UG02	1085	Total of Price centres E.S5.2 based on corresponding sub cost centre inline with cost centre B

Key Date No.	Key Date Description (Sub-clause 1.1.5.6)	Time for Completion (Calendar days from date of Commencement) (Sub-clause 1.1.3.3)	Associated Price Centres for the purposes of Liquidated Damages (For LD amount, refer to Contract Data 8.7)
KD-S5-005	Manufacture and Delivery of all remaining Telecom Equipments at Contractor's premises in Chennai	1175	Total of Price centres E.S5.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S5-006	Completion of Installation and testing (IAT and PAT) Works at Site for C3-UG02	1385	Total of Price centre E.S5.3 (based on corresponding sub cost centre inline with cost centre B)
	C3-UG 01, C3 –UG 02		
KD-S5-007	System Acceptance Test and Integrated Testing and commissioning of Equipment for Stage 5	1475	Total of Price centres E.S5.4
KD-S5-008	Service trails, System readiness for CMRS inspection and ROD clearance for Stage 5	1505	Total of Price centre E.S5.4
KD-S5-009	Issuance of Completion Certificate for Stage 5	1512	Total of Price centre E.S5.4
KD-S5-010	Achieve Operational Acceptance for respective Stage's Revenue Service	2052	Total of Price centre E.S5.4
STAGE 6 – REVENUE SERVICE			
	C3-UG 03 & C3-TU 02		
KD-S6-001	Manufacture and Delivery of Telecom OFC, Data and Power cables at Contractor's premises in Chennai and Manufacture & Delivery of Racks, cabinet and fixtures and associated accessories for stations at Contractor's premises in Chennai for C3-UG03 Stations according to the access dates	1220	Total of Price centre F.S6.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S6-002	Manufacture & Delivery of all remaining Telecom equipments at Contractor's premises in Chennai	1310	Total of Price centre F.S6.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S6-003	Completion of Installation and testing (IAT and PAT) Works at Site for C3-UG03 package	1440	Total of Price centres F.S6.3
KD-S6-004	System Acceptance Test and Integrated Testing and commissioning of Equipment for Stage 6	1560	Total of Price centre F.S6.4
KD-S6-005	Service trials, System readiness for CMRS Inspection and ROD Clearance-Signaling requirement for Stage 6	1590	Total of Price centre F.S6.4
KD-S6-006	Issuance of Completion Certificate for Stage 6	1597	Total of Price centre F.S6.4

Key Date No.	Key Date Description (Sub-clause 1.1.5.6)	Time for Completion (Calendar days from date of Commencement) (Sub-clause 1.1.3.3)	Associated Price Centres for the purposes of Liquidated Damages (For LD amount, refer to Contract Data 8.7)
KD-S6-007	Achieve Operational Acceptance for respective Stage's Revenue Service	2137	Total of Price centre F.S6.4
STAGE 7 – REVENUE SERVICE			
	C3-UG 04 & C3-TU 02		
KD-S7-001	Manufacture and Delivery of Telecom OFC, Data and Power cables at Contractor's premises in Chennai and Manufacture & Delivery of Racks, cabinet and fixtures and associated accessories for stations at Contractor's premises in Chennai for C3-UG04 Stations	1220	Total of Price centre G.S7.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S7-002	Manufacture & Delivery of all Telecom Telecommunication sub systems at Contractor's premises in Chennai	1310	Total of Price centre G.S7.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S7-003	Completion of Installation and testing (IAT and PAT) Works at Site for C3-UG-04 package	1570	Total of Price centre G.S7.3 (based on corresponding sub cost centre inline with cost centre B)
	C3-UG 05 & C3-TU 02		
KD-S7-004	Manufacture and Delivery of Telecom OFC, Data and Power cables at Contractor's premises in Chennai and Manufacture & Delivery of Racks, cabinet and fixtures and associated accessories for stations at Contractor's premises in Chennai for C3-UG05 Stations	1220	Total of Price centre G.S7.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S7-005	Manufacture & Delivery of all Telecommunication sub systems at Contractor's premises in Chennai	1310	Total of Price centre G.S7.2 (based on corresponding sub cost centre inline with cost centre B)
KD-S7-006	Completion of Installation and testing (IAT and PAT) Works at Site for C3-UG-05 package	1550	Total of Price centre G.S7.3 (based on corresponding sub cost centre inline with cost centre B)
	C3-UG 04, C3 –UG 05		
KD-S7-007	System Acceptance Test and Integrated Testing and	1660	Total of Price

Key Date No.	Key Date Description (Sub-clause 1.1.5.6)	Time for Completion (Calendar days from date of Commencement) (Sub-clause 1.1.3.3)	Associated Price Centres for the purposes of Liquidated Damages (For LD amount, refer to Contract Data 8.7)
	commissioning of Equipment for Stage 7		centre G.S7.4
KD-S7-008	Service trials, System readiness for CMRS Inspection and ROD Clearance for Stage 7	1690	Total of Price centre G.S7.4
KD-S7-009	Issuance of Completion Certificate for Stage 7	1727	Total of Price centre G.S7.4
KD-S7-010	Achieve Operational Acceptance for respective Stage's Revenue Service	2267	Total of Price centre G.S7.4

Table 2: Station Access Dates (After Degree 3 Completion)

Access Date Reference	Description	Calendar Days from date of Commencement
C3 UG01		
AD-001	Access Date to Telecom Contractor in all stations in Corridor 3 UG 01 package	970
C3 UG02		
AD-002	Access Date to Telecom Contractor in all stations in Corridor 3 UG 02 package	1150
C3 UG03		
AD-003	Access Date to Telecom Contractor in all stations in Corridor 3 UG 03 package	1150
C3 UG04		
AD-004	Access Date to Telecom Contractor in all stations in Corridor 3 UG 04 package	1240
C3 UG05		
AD-005	Access Date to Telecom Contractor in all stations in Corridor 3 UG 05 package	1260
C5 UG06		
AD-006	Access Date to Telecom Contractor in all stations in Corridor 5 UG 06 package	1100
C3 EV01		
AD-007	Access Date to Telecom Contractor in all stations in Corridor 3 EV 01 package	550
C5 EV03		
AD-008	Access Date to Telecom Contractor in all stations in Corridor 5 EV 03 package	550
Madhavaram Depot DPT2		
AD-009	Access Date to Telecom Contractor in all stations in Madhavaram Depot package	450
AD-010	Access date for OCC Building	550

Tunnel / Viaduct / Depot Access Dates (After Track Work Completion)

Access Date Reference	Description	Calendar Days from date of Commencement	
		1 st Access (a)	Last Access (b)
AD-011	Access Date for Corridor 3 – UG 01 to UG 05 Stretch	1100	1370
AD-012	Access Date for Corridor 5 – UG 06 Stretch	980	1050
AD-013	Access Date for Corridor 3 – C3-EV01 Stretch	470	580
AD-014	Access Date for Corridor 5 – C5-EV03 Stretch	430	490
AD-015	Access Date for Madhavaram Depot	400	460

UPS Power ON Dates from E&M Contractor

Power On Date Reference	Description	Calendar Days from date of Commencement
PO-UG-001	UPS Power ON Date for Corridor 3 – UG 01 & UG 02	1295
PO-UG-002	UPS Power ON Date for Corridor 3 – UG 03, UG 04 & UG 05	1410
PO-UG-003	UPS Power ON Date for Corridor 5 – C5-UG 06	1270
PO-EV-004	UPS Power ON Date for Corridor 3 – C3-EV 01	800
PO-EV-005	UPS Power ON Date for Corridor 5 – C3-EV 03	830
PO-DPT-006	UPS Power ON Date for Madhavaram Depot	600

Table 4: Access Date for OCC

Access Date Reference	Description	Calendar Days from date of Commencement
AD-DP-016	Access dates for theatre and all equipment rooms, complete with all MEP works & all architectural finishes	600

Access date' is the date on which the Contractor will be provided an access to the specific portion of the works to perform specific Contractual obligations. Number of days specified under access dates columns are to be reckoned from the date of commencement of this Contract and this calculated date will be the access date to the Contractor for the specific portion of works.

Degree 3 Finishes Details:

- Complete Wall Plastering and painting
- Complete raised floor, and false flooring except for locations where panels have to be installed after completion of works by the Interfacing contractor.
- Complete internal glazing
- Permanent doors and ironmongery installed.
- Plumbing and Sanitary fittings complete and ready for testing
- Degree 3 (D-3) finish includes Cable tray connectivity from Viaduct/Tunnel side to the Equipment rooms as also cable tray connectivity between rooms in various levels (concourse/platform/street levels) and between public areas in these levels, as applicable.
- Access date to the Viaduct & Tunnel sections to include Access to all S&T Cable trays , finished track complete with welding and hand over of all turn-outs (as per mutually agreed acceptance criteria)
- Earthing provisions and Aircon installations are completed.