

Corrigendum Details

Corrigendum No	3	Corrigendum Publish Date	19/11/2021 18:48
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Tender Details

Tender No	SG-SWR-P-MPLS-VSS-EX-TCCS (Open Tender)	Closing Date/Time	07/12/2021 15:00
Name Of Work	Design, Planning, Supply, installation,fixing,configuration, integration and commissioning of a secure, reliable, scalable, manageable and converged communication system for 230+ stations over SWR consisting of IP based communication network with an IP- MPLS (Internet Protocol-MultiProtocol label Switching) backbone interconnecting VoIP (Voice over Internet Protocol) based Train Control Communication System (TCCS), SIP(Session Initiation Protocol) based Exchange Communication and VSS (Video Surveillance System) and integrating with Existing SIP Exchanges, VoIP based TCCS and VSS as per description and specifications enclosed.		

Items Modified

NIT Header

Field Name	Existing Value	Modified Value
Advertised Value (INR)	805407068.35	805406496.15

New Items Added

Documents

S.No	Document Description	File Name
1	SPECIAL CONDITIONS OF CONTRACT	SpecialConditionofContract.pdf
2	PRE BID QUESTIONS ANSWERS	PreBidQuestionsAnswers.pdf
3	TECHNICAL SPEC CHAPTER 1	TechnicalspecChapter1.pdf
4	TECHNICAL SPEC CHAPTER 2	TechnicalspecChapter2.pdf
5	TECHNICAL SPEC CHAPTER 3	TechnicalspecChapter34.pdf

Item Breakup

Schedule-A2 NON SOR ITEMS Sub-Work A - IP MPLS , Routers, Manageable Switches and Accessories					
Item-1 Sub-Work A - IP MPLS , Routers,Manageable Switches and Accessories					
#	Item No	Description of Item	Qty	Rate	Amount
1	01	Supply of Standard 19" Rack Mountable LER(Label Edge Router) , IP- MPLS Router with Redundant DC power feed -48V DC nominal, equipped with interfaces: 2 x 10G (optical) SFP+ Ports along with 2 Nos of 40 Kms 10G SFP+ LC Modules, 4 x 1GbE (Optical) interface along with 4 Nos of 1GbE Single Mode Bi-directional SFP (10KMs) Modules and 4 x 1GbE (Copper) interfaces & Modules and slot for 16 x E1 (G.703), {supply of 16 E1 card is not included in this item and is catered in item number A2 (4)}, Mounting kit with all necessary accessories & Software, Perpetual Licenses. As Per RDSO Document No. STT/TAN/IP-MPLS/2020 Version 01 or latest. Inspection : RDSO	267.00	369963.00	98780121.00
2	010	1G SFP Module with 10 Km range for above Routers. Inspection RDSO.	15.00	1180.00	17700.00
3	011	Supply of STM-1 SFP Module with 15 Km range with all accessories for above Routers. Inspection RDSO.	3.00	8832.30	26496.90
4	012	Supply of 10/100/1000 Base-T Copper Ethernet Transceiver SFP Module with all accessories. Inspection RDSO	3.00	5581.40	16744.20
5	02	Supply of Standard 19" Rack Mountable LER(Label Edge Router) , IP- MPLS Router with Redundant DC power feed -48V DC nominal, equipped with interfaces: 2 x 10G (optical) SFP+ Ports along with 2 Nos of 40 Kms 10G SFP+ LC Modules, 4 x 1GbE (Optical) interface Module along with 4 Nos of 1GbE Single Mode Bi-directional SFP (10KMs) Modules and 4 x 1GbE (Copper) based interfaces & Modules, 2x STM-1 (Channelised) interface along with 2 Nos of SFP(S.1.1) Modules Compatible with Existing STM-1 and slot for 16 x E1 (G.703), {supply of 16 E1 card is not included in this item and is catered in item number A2 (4)} . Mounting kit with all necessary accessories & Software,Perpetual	24.00	369963.00	8879112.00

		Licenses. As Per RDSO Document No. STT/TAN/IP-MPLS/2020 Version 01 or latest. Inspection RDSO			
6	03	Supply of Standard 19" Rack Mountable Modular Chassis LSR (Label Switch Router) IP- MPLS Router with Redundant DC power feed -48V DC nominal Redundant Controller Card, equipped with interfaces: 8 x 10G (optical) SFP+ Ports along with 8 Nos of 40 Kms 10 G SFP+ Modules, Mounting Kit with all necessary accessories & Software, Perpetual Licenses. As Per RDSO Document No. STT/TAN/IP-MPLS/2020 Version 01 or latest. Inspection RDSO.	28.00	1676273.00	46935644.00
7	04	Installation, Commissioning & Testing of LER & LSR IP MPLS Routers including supply & Installation of all the accessories like Power cable, Earthing Cable, Optical Patch Cords of 3 mtr- 4 Nos for LER & 8 Nos for LSR s, Cat 6 Patch Cords of 1 mtr -4 Nos ,one 6A MCB for each LSR and LSR ,wiring etc. as required for Routers	319.00	12161.00	3879359.00
8	05	Supply and installation of 16 port E1 Card along with Patch panel/Krone Module and wiring for Routers with all accessories etc. Inspection RDSO.	291.00	101480.00	29530680.00
9	06	2 x 10G Adapter Interface without 10G SFP+ Modules for LER Routers. Inspection RDSO.	3.00	56640.00	169920.00
10	07	8 x 1G Adapter Interface (any combination: one nos of 8 x 1G or two nos of 4 x 1G) without SFP for LER Routers. Inspection RDSO.	6.00	59472.00	356832.00
11	08	2 x STM 1 Adapter Interface with 2 Nos. of STM-1, 15 km, SFP modules for LER Routers. Inspection RDSO.	3.00	261550.54	784651.62
12	09	10G SFP+ Module with 40 Km range for above Routers. Inspection RDSO.	3.00	97989.56	293968.68
Schedule-A3 Non SOR Items, Sub-Work A IP MPLS- Servers, NMS and Work Stations					
Item-1 Non SOR Items, Sub-Work A IP MPLS- Servers, NMS and Work Stations					
#	Item No	Description of Item	Qty	Rate	Amount
13	01	Supply, installation, Testing and Commissioning of Network Management System (NMS) inclusive of Software, Hardware and Perpetual Licenses for Minimum 5400 Network Elements including IP MPLS Router, L3 Switches, L2 Switches, UPS, Gateways and other network elements with SNMP support [Detailed Specification in Technical Document] Inspection RDSO.	1.00	35400000.00	35400000.00
14	02	Supply and Installation of Server Based Network Management System inclusive of Hardware and Software for Network Elements including Switches , Servers, etc. of Multiple makes at Data Centre(DC & DR). Inspection RDSO. This item shall be operated along with item No.1 above. Detailed Specification in Technical Document enclosed.	1.00	7088127.81	7088127.81
15	03	Supply & installation of PC Workstation/Maintenance Console and it shall comply with Para no. G of RDSO Document No. STT/TAN/IP-MPLS/2020 Ver 1.0 or latest. [Detailed Specification in Technical Document]. Inspection RDSO	3.00	69700.00	209100.00
16	04	Supply and installation 55-inch UHD Monitor 4K . [Detailed Specification in Technical Document]Inspection: Consignee	6.00	54579.20	327475.20
Schedule-A4 NON SOR Items Sub-Work A IP MPLS- Switches					
Item-1 NON SOR Items Sub-Work A IP MPLS- Switches					
#	Item No	Description of Item	Qty	Rate	Amount
17	01	Supply and Installation of Standard 19-inch Rack Mountable Layer 3, 24 Port Managed Switch with 24 Nos of 10/100/1000 Ethernet Ports with POE + Support and Redundant AC Power Supply, Dedicated Stacking Module 4 x 10 GE SFP+ Ports for uplink including 4 Nos of 10 GE BX SM SFP+ Modules, as per para number 4.0 of RDSO SPECIFICATION NO. RDSO/SPN/TC/83/2020 Rev 2 or latest. Mounting Kit with all necessary accessories to be supplied. [Detailed Specification in Technical Document]Inspection RDSO.	266.00	109386.00	29096676.00
Schedule-A5 Non SOR Items, Sub-Work A IP MPLS -FDMS , Cables and U Rack					
Item-1 Non SOR Items, Sub-Work A IP MPLS -FDMS , Cables and U Rack					
#	Item No	Description of Item	Qty	Rate	Amount
18	12	Splicing /Dropping/Termination of each Fiber /Pigtail in the LIU/FDMS/Termination Joints through fusion Splicing of the termination of OFC Cables.[Detailed Specification in Technical Document] .	8024.00	45.44	364610.56
Schedule-A6 Non SOR Items, Sub-Work A IP MPLS-Labour and Training					
Item-1 Non SOR Items, Sub-Work A IP MPLS-Labour and Training					
#	Item No	Description of Item	Qty	Rate	Amount

19	11	Opening of existing Joint enclosure and Splicing 2/4 additional fiber Inside already prepared jointing pit and Providing anti termites/ant Powder. Closing of Existing Joint and Backfilling is included. This does not Include provision of joint chambers, top plates.	289.00	3000.00	867000.00
20	12	Blowing / Drawing of OFC 24F/12F/6F Power Cable and CAT Cable (including crimping) through PVC Conduit/Duct/DWC/GI Pipe already installed.	39700.00	4.72	187384.00
21	13	Training of personnel over and above the on-site/ OEM/OEM authorized training partner premises training, during the installation, maintenance and supervision period as detailed in the tender document. Defined in Man-Week i.e. One week training for one personnel or as desired by the Railway.	18.00	23600.00	424800.00

Schedule-B3 Non SOR Items, Sub-Work B VSS - Servers and Work Station
Item-1 Non SOR Items, Sub-Work B VSS - Servers and Work Station

#	Item No	Description of Item	Qty	Rate	Amount
22	01	Supply, installation, Testing, Integration and Commissioning of Command & Control Center Software, Perpetual Licenses & Hardware and all accessories required for their Installations and Integration. It includes Video Management/GUI Software and Video Analytics/FRS licences of cameras required for integration) as per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Detailed Specification in Technical Document. Inspection RDSO	3.00	1780327.37	5340982.11
23	02	Supply Installation, Testing and Commissioning of Software for VMS and Video Recording software. (Per camera Licence means Video Management and Video Recording at multiple locations such as Station, RPF Post & DC Server room covered by the same license) as per technical spec and functional requirement as per RDSO Spec No RDSO/SPN/TC/65/2021 Rev.6 or latest. Inspection RDSO.	2782.00	2147.60	5974623.20
24	03	Supply, Installation, Testing and Commissioning of VMS Server with all the accessories required for the installation for VSS project, including one 17 inch FHD Monitor with Keyboard, Mouse, KVM Switch, As per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Inspection RDSO.	25.00	437963.37	10949084.25
25	04	Supply, Installation, Testing & Commissioning of Video Analytic Hardware and all accessories required for installation purpose As per Clause No. 10.1.1.3 RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Inspection RDSO.	27.00	437963.37	11825010.99
26	05	Supply Installation, Testing and Commissioning of Server Hardware for Face Recognition Complete with all accessories as per Clause No. 10.1.1.3 Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Inspection RDSO	22.00	437963.37	9635194.14
27	06	Supply of Video Analytic Server software complete with all accessories (License per camera means Video analytic at multiple locations such as Station, RPF Post & Security control by same license) as per RDSO Spec No RDSO/SPN/TC/65/2021 Rev.6 or latest. Inspection RDSO.	2452.00	2360.00	5786720.00
28	18	Supply Installation Testing and Commissioning of Next Generation Firewall NGFW 1+1 (High Availability) along with Management software Hardware Perpetual licence and all accessories required their installation in the Data Center. it includes Network Security appliance 4x10G SFP Ports and 4x1G SFP Ports loaded Rack Mountable UTM Firewall with features like Next Generation Firewall, Intrusion Prevention System, Gateway Anti-Spam Prevention, Bandwidth Management, Traffic Discovery, Application Visibility and Control Hardware etc should have 1 Console port, 2 USB Management Port for Explorer. The product should have a license for 5 years subscription with 3000 users, for above features including warranty for UTM Hardware and all accessories required for their installation in the Data Center. [Detailed Specification in Technical Document]. Inspection RITES	3.00	1355448.30	4066344.90
29	19	Supply Installation of Full HD Large Format Display Monitor (55 inch) as per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest with HDMI and DVI Ports complete with all accessories [Detailed Specification in Technical Document] Inspection by RITES	108.00	64531.25	6969375.00

Schedule-B4 Non SOR Items, Sub-Work B VSS -Switches with accessories
Item-1 Non SOR Items, Sub-Work B VSS -Switches with accessories

#	Item No	Description of Item	Qty	Rate	Amount
30	10	Supply of Single Mode 10G SFP+ Fiber for above Switches. Inspection : RDSO	100.00	2984.22	298422.00
31	11	Spares @ 8% for Supply of Switches a) Field SWITCH 8 PORT	37.00	23922.14	885119.18

		Inspection: RDSO			
32	12	Spares @ 8% for Supply of Switches b) Field SWITCH 24 PORT. Inspection: RDSO	15.00	31486.88	472303.20
Schedule-B5 Non SOR Items, Sub-Work B , VSS - FDMS, U RACK, and CABLES					
Item-1 Non SOR Items, Sub-Work B , VSS - FDMS, U RACK, and CABLES					
#	Item No	Description of Item	Qty	Rate	Amount
33	17	Supply of STP CAT- 6 Cable compliant with latest EIA/TIA-568-C.2 Standard for CAT 6 Cable 305 Mtrs Roll /Bundle.[Detailed Specification in Technical Document]Inspection : RITES	155700.00	33.20	5169240.00
34	18	Supply of PVC insulated armored 3 Core 2.5 Sqmm, 14 AWG,1.1 KV Grade Outdoor Strengthen Copper for UPS Power Supply Distributions per BIS/ISI Standards and all accessories required for installation.[Detailed Specification in Technical Document]Confirming to IS:1554 Part-1.Inspection : RITES	128600.00	88.50	11381100.00
35	19	Supply & Installation of 19"42 U 1200mm Depth Telecom Rack with Standard Accessories (Closed type) with front door Glass type, all doors should be removable type [Detailed Specification in Technical Document] Inspection RITES.	40.00	43979.78	1759191.20
36	20	Supply and Installation of Server and Network Smart Rack (Server Rack-3 Nos) with accessories and 2 Nos PDU along with Cooling Unit (2 Nos) with Piping and Low Side works, Environment Monitoring system, cooling unit accessories, related electrical work and Rack based Fire detection, Extinguishing System, Rodent repellent system and other accessories as per specification enclosed.[Detailed Specification in Technical Document] Inspection: RITES	3.00	3611154.00	10833462.00
Schedule-B6 Non SOR Items, Sub-Work B VSS- Power Supply					
Item-1 Non SOR Items, Sub-Work B VSS- Power Supply					
#	Item No	Description of Item	Qty	Rate	Amount
37	01	Supply, Installation and Commissioning of 2x10 KVA UPS at least 2 Hour Back up in full load condition ,connected in parallel redundant mode. Complete with all accessories as per specification attached This also includes supply of two set MF batteries of suitable AH capacity ,rack, one set compatible MCBs complete with cover & fixing materials, one earth leakage circuit breaker arrangement . [Detailed Specification in Technical Document] Inspection : RITES	21.00	424682.00	8918322.00
Schedule-B7 Non SOR Items, Sub-Work B, VSS - TOOLS					
Item-1 Non SOR Items, Sub-Work B, VSS - TOOLS					
#	Item No	Description of Item	Qty	Rate	Amount
38	01	Tool Kit consisting of Optical power meter(Fibershot9990V),Multimeter(Fluke 101),Ethernet Crimping Tool(Standard Make)Console cable(Cisco=RJ45-DB9),Wrist ripper(Standard Make),Universal Spanner Set (Taparia), Screw Driver Set (Taparia-7Pieces set), Cutting plier(Taparia), Wire Stripper, Industrial grade USB to Serial cable with all accessories or Similar.[Detailed Specification in Technical Document]. Inspection: Consignee	18.00	24207.20	435729.60
Schedule-B8 Non SOR Items, Sub-Work B, VSS- Labour and Training					
Item-1 Non SOR Items, Sub-Work B, VSS- Labour and Training					
#	Item No	Description of Item	Qty	Rate	Amount
39	016	Blowing/Drawing of OFC 24F/12F/6F Power Cable and CAT Cable (including crimping) through PVC Conduit already installed. [Detailed Specification in Technical Document].	454700.00	4.72	2146184.00
40	026	Training of personnel over and above the on-site/OEM/OEM authorised training partner training, during the installation, maintenance and supervision period as detailed in the tender document. Defined in Man-Week i.e. One week training for one personnel or as desired by the Railway.	60.00	23600.00	1416000.00
41	09	Supply of Computer Table (Model Stylo of Godrej Make or Similar of Featherlite make) & Chair (Godrej make Model Spyder PCH 5602 or Similar Model of Featherlite Make).[Detailed Specification in Technical Document] Inspection: Consignee	50.00	13439.10	671955.00
Schedule-C2 NON SOR Item Sub-Work C, TCCS & SIP- IP Phones					
Item-1 NON SOR Item Sub-Work C, TCCS & SIP- IP Phones					
#	Item No	Description of Item	Qty	Rate	Amount
42	01	Supply and installation of SIP Based Basic IP Phone with 128x64 Pixel Graphical LCD as per Specification. Inspection RITES	370.00	5500.00	2035000.00

Schedule-C3 Non SOR Items, Sub-Work C, TCCS&SIP - Servers, Consoles, and Licenses**Item-1 Non SOR Items, Sub-Work C, TCCS&SIP - Servers, Consoles, and Licenses**

#	Item No	Description of Item	Qty	Rate	Amount
43	38	Supply and Installation of Mobile Application for Event Notification Gateway and NMS as per scope of work as Per RDSO/SPN/TC/99/2012 Rev.2.(Detailed Spec in Tender Document). Inspection RDSO	25.00	13700.98	342524.50
44	39	Supply of Call/Communication (SIP) Server dual DC power supply [Detailed Specification in Technical Document] Inspection RITES	2.00	512356.00	1024712.00
45	40	Gateway User Licenses (Analog users). Inspection RITES.	10.00	1932.84	19328.40
46	41	Supply of call/Communication (SIP) Server For HQ, UBL and MYS. Inspection RITES.	6.00	206500.00	1239000.00
47	42	Installation and Commissioning Charges as per Site requirement at Bengaluru and Bengaluru Cant(Upgrading the existing server/Integration with new one)	2.00	59000.00	118000.00
48	43	Upgrading of Existing Aeonix Server/Integration of new server with old server at Bengaluru with Additional SIP Licenses-80, Sip Trunk License-30 for DRM Intercom to cater for Bengaluru Cant CAO Office. IP Endpoint Licenses to Existing Server/ new server including Technical Support Charges. Inspection Consignee	80.00	5557.00	444560.00

Schedule-C4 NON SOR Items, Sub-Work C, TCCS & SIP- Gateways and Switches**Item-1 NON SOR Items, Sub-Work C, TCCS&SIP- Gateways and Switches**

#	Item No	Description of Item	Qty	Rate	Amount
49	01	Supply & installation of PC WorkStation/Maintenance Console 24-inch FHD Resolution LED for Viewing, Monitoring and System Management including all required Licenced Software, like, MS Client Software, OS MS-office, Anti-Virus 600 VA UPS etc at UBL HQ, UBL, SBC, MYS). Inspection Consignee.	4.00	69700.00	278800.00
50	02	Supply and Installation of Layer 3,24 Port Managed Switch with 24 Nos of 10/100/1000 Ethernet Ports SFP + Support with Redundant AC Power Supply, Dedicated Stacking Module 4 x 10 GE SFP+ Ports for uplink including 4 Nos of 10 GE SFP+ BX SM Modules, as per para number 4.0 of RDSO SPECIFICATION NO. RDSO/SPN/TC/83/2020 Rev 2 or Latest.. Mounting Kit with all necessary accessories. [Detailed Specification in Technical Document] Inspection : RDSO	5.00	109386.00	546930.00
51	03	Supply Installation & Commissioning of Standard 19-inch Rack Mountable 24 Port managed POE switch , 24 GE 10/100/1000 BaseX Ethernet port with POE+ support and 4x1GE SFP Port for uplink with 4 nos of 1GE SFP BX SM modules included as per Clause no 14.0(II) RDSO/SPN/TC/65/2021, Rev.6.0 or Latest. (Inspection Clause- RDSO)	47.00	31486.88	1479883.36

Schedule-C5 NON SOR Items, Sub-Work C, TCCS&SIP - FDMS,U Rack , Cables , and Accessories**Item-1 NON SOR Items, Sub-Work C, TCCS&SIP - FDMS,U Rack , Cables , and Accessories**

#	Item No	Description of Item	Qty	Rate	Amount
52	22	Supply of STP CAT- 6 Cable compliant with latest EIA/TIA-568-C.2 Standard for CAT 6 Cable 305 Mtrs Roll /Bundle. [Detailed Specification in Technical Document] Inspection RITES	43895.00	33.20	1457314.00
53	23	Supply of PVC insulated armored 3 Core 2.5 Sqmm, 14 AWG,1.1 KV Grade Outdoor Strengthen Copper for UPS Power Supply Distributions per BIS/ISI Standards and all accessories required for installation. [Detailed Specification in Technical Document]Confirming to IS:1554 Part-1.Inspection : RITES	1900.00	88.50	168150.00
54	24	Blowing / Drawing of OFC 24F/12F/6F Power Cable and CAT Cable (including crimping) through PVC Conduit/Duct/DWC/GI Pipe already installed	24800.00	4.72	117056.00

Schedule-C6 NON SOR Items , Sub-Work C, TCCS&SIP - Power Supply**Item-1 NON SOR Items , Sub-Work C, TCCS&SIP - Power Supply**

#	Item No	Description of Item	Qty	Rate	Amount
55	01	Supply, Installation and Commissioning of 2x10 KVA UPS at least 1 Hour Back up in full load condition, connected in parallel redundant mode. Complete with all accessories as per specification attached [Detailed Specification in Technical Document] Inspection RITES	3.00	424682.00	1274046.00

Schedule-C8 NON SOR Items, Sub-Work C, TCCS & SIP - Labour and Training**Item-1 NON SOR Items, Sub-Work C, TCCS&SIP - Labour and Training**

#	Item No	Description of Item	Qty	Rate	Amount

56	12	Supply of Desk /workstation furniture, 2 table & 4 Chairs [Detailed Specification in Technical Document] Inspection Consignee	6.00	14760.00	88560.00
57	13	Blowing / drawing of OFC 24F/12F/6F Power Cable and CAT Cable (including crimping) through Duct, DWC, PVC Conduit/Casing Caping, Trough already installed.	36495.00	4.72	172256.40

Items Deleted

Item Breakup

S.No	Code	Item Description
1	Schedule - 1 Item - 1	Supply of Standard 19" Rack Mountable LER(Label Edge Router) , IP- MPLS Router with Redundant -48V DC Power Supply, 2 x 10G SFP+ Ports along with 2 Nos of 40 Kms 10G SF P+ LC Modules, 4 x 1Gbe Optical interface Module along with 4 Nos of 1Gbe SM BX SFP(10KMs) Modules and 4 x 1Gbe Copper WAN based interfaces & Modules , with Minimum 1 or more Additional Slot to add any one of the following interfaces : 16 x E1, 32 x E1 , 2 x STM1 (Channelised). Non Blocking throughput Mounting kit with all necessary accessories & Software/Perpetual Licenses. As Per RDSO Document No. STT/TAN/IP-MPLS/2020.Inspection RDSO
2	Schedule - 1 Item - 2	Supply of Standard 19" Rack Mountable Modular Chassis LSR (Label Switch Router) IP-MPLS Router with Redundant -48V DC Power Supply, Redundant Controller Card, 8 x 10G SFP+ Ports along with 8 Nos of 40 Kms 10G SFP+ Modules, 32 E1 card with Adapter and modules along with patch panels, 4x1G Optical SFP Ports with BX SM Modules and 4 x 1Gbe Copper WAN based interfaces & Modules, 2x STM-1(Channelised) along with 2 Nos of SFP(S.1.1) Modules Compatible with Existing STM-1.Non Blocking throughput .Mounting Kit with all necessary accessories & Software/Perpetual Licenses. As Per RDSO Document No. STT/TAN/IP-MPLS/2020. Inspection RDSO
3	Schedule - 1 Item - 3	Installation, Commissioning & Testing of LER & LSR IP MPLS Routers including supply & Installation of all the accessories like Power cable, Earthing Cable,6 Nos for LER & 8 Nos for LSR Optical Patch Cords of 3 mtrs, 4 Nos Cat 6 Patch Cords of 1 mtrs, 6A MCBs, wiring etc required for Routers). Detailed Specification in Technical Document
4	Schedule - 1 Item - 4	Supply and installation and Commissioning of 16 port E1 Card along with Patch panel/Krone Module for above Routers with all accessories etc.Detailed Specification in Technical Document. Inspection RDSO.
5	Schedule - 1 Item - 5	2 x 10G Adapter Module with 2 Nos. of 10G SFP+ Modules for above Routers. Inspection RDSO
6	Schedule - 1 Item - 6	8 x1G Adapter Module without SFP for above Routers. Inspection RDSO.
7	Schedule - 1 Item - 7	2x STM 1 Adapter Module with 2 Nos. of STM-1, 15 km, SFP modules for above Routers. Inspection RDSO.
8	Schedule - 1 Item - 8	10G SFP+ Module with 40 Km range for above Routers. Inspection RDSO
9	Schedule - 1 Item - 9	1G SFP Module with 10 Km range for above Routers.Inspection RDSO
10	Schedule - 1 Item - 10	Supply of STM-1 SFP Module with 15 Km range with all accessories for above Routers. Inspection RDSO.
11	Schedule - 1 Item - 11	Supply of 10/100/1000 Base-T Copper Ethernet Transceiver SFP Module with all accessories. Inspection RDSO
12	Schedule - 1 Item - 1	Supply, installation, Testing and Commissioning o f Network Management System(NMS) inclusive of Software and Perpetual Licenses for Minimum 4500 Network Elements includingL3 switches, L2 Switches, UPS, Gateways and other Network Elements with SNMP Support.[Detailed Specification in Technical Document] Inspection RITES
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14	Schedule - 1 Item - 3	Supply & installation of PC Workstation/Maintenance Console and it shall comply withPara no. G of RDSO Document No. STT/TAN/IP-MPLS/2020 Ver 1.0 or latest. [DetailedSpecification in Technical Document]. Inspection RDSO
15	Schedule - 1 Item - 4	Supply and Installation 55-inch full UHD Monitor 4K . [Detailed Specification inTechnical Document]. Inspection:Consignee
16	Schedule - 1 Item - 1	Supply and Installation of Standard 19-inch Rack Mountable Layer 3, 24 PortManaged Switch with 24 Nos of 10/100/1000 Ethernet Ports POE + Support with Redundant AC Power Supply, Dedicated Stacking Module 4 x 1 GE SFP Ports form uplink including 4 Nos of 1 GE BX SM SFP Modules loaded, as Per specification given. Mounting Kit with all necessary accessories. Inspection RDSO
17	Schedule - 1 Item - 3	Splicing /Dropping/Termination of each Fiber /Pigtail in the LU/FDMS/IOBox/Termination Joints through fusion Splicing of the termination of OFC Cables. [DetailedSpecification in Technical Document]

18	Schedule - 1 Item - 6	Opening of existing Joint enclosure and Splicing 2/4 additional fiber Inside already prepared jointing pit and Providing anti termites/ant Powder. Closing of Existing Joint and Back filling is included. This does not Include provision of joint chambers, top plates.
19	Schedule - 1 Item - 9	Blowing & Drawing of OFC 24F/12F/6F Power Cable, Switch Board Cable and CATCable (including crimping) through PVC Conduit/Duct/DWC/GI Pipe already installed
20	Schedule - 1 Item - 10	Training of personnel over and above the on-site/OEM premises training, during the installation, maintenance and supervision period as detailed in the tender document. Defined in Man-Week i.e. One week training for one personnel or as desired by the Railway.
21	Schedule - 1 Item - 1	Supply, installation, Testing, Integration and Commissioning of Command & Control Center Software, Perpetual Licenses & Hardware and all accessories required for their Installations and Integration. It includes Video Management/GUI Software and Video Analytics/FRS licences of cameras required for integration) as per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Detailed Specification in Technical Document. Inspection RDSO
22	Schedule - 1 Item - 2	Supply Installation, Testing and Commissioning of Software (License per camera basis means Video Management Viewing at multiple locations and by same license for VMS and Video Recording such as at Station, RPF Post, DC Server room and Security control) Detailed Specification in Technical Document. Inspection RDSO
23	Schedule - 1 Item - 3	Supply, Installation, Testing and Commissioning of VMS Server with all the accessories required for the installation for VSS project, one 17 inch Monitor with Keyboard, Mouse, KVM Switch, as per Clause No. 10.1.1.3 of RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Inspection RDSO
24	Schedule - 1 Item - 4	Supply, Installation, Testing & Commissioning of Video Recording Server cum Video Analytic Hardware and all accessories required for installation purpose as per Clause No. 10.1.1.3 Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Inspection RDSO
25	Schedule - 1 Item - 5	Supply Installation, Testing and Commissioning of Server Hardware for Face Recognition Complete with all accessories as per Clause No. 10.1.1.3 Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Inspection RDSO
26	Schedule - 1 Item - 6	Supply, Installation ,Testing and Commissioning of Video Analytic Server software complete with all accessories(License per camera means Video analytic at multiple locations such as Station, RPF Post & Security control by same license) as per Spec No RDSO/SPN/TC/65/2021 Rev.6 or latest. Inspection RDSO.
27	Schedule - 1 Item - 13	Supply Installation Testing and Commissioning of Next Generation Firewall (NGFW) in 1+1 High Availability (HA) along with Management software Hardware Perpetual licence and all accessories required their installation in the Data Center. it includes Network Security appliance 4x10G SFP Ports and 4x1G SFP Ports loaded Rack Mountable UTM Firewall with features like Next Generation Firewall, Intrusion Prevention System ,Gateway Anti-Spam Prevention ,Bandwidth Management ,Traffic Discovery, Application Visibility and Control Hardware etc should have 1 Console port ,2 USB Management Port for Explorer. The product should have licensed for 3 years for above features including warranty for UTM Hardware and all accessories required for their installation in the Data Centre. [Detailed Specification in Technical Document]. Inspection RITES.
28	Schedule - 1 Item - 16	Supply Installation of Full HD Large Format Display Monitor (55 inch) as per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest with HDMI and DVI Ports complete with all accessories [Detailed Specification in Technical Document] Inspection by RDSO
29	Schedule - 1 Item - 5	Supply of Single Mode 10G SFP+ Fiber for above Switches. Inspection : RDSO
30	Schedule - 1 Item - 7	Spares @ 8% for Supply of Switches. a) FIELD SWITCH 8 PORT. Inspection: RDSO
31	Schedule - 1 Item - 8	Spares @ 8% for Supply of Switches. b) FIELD SWITCH 24 PORT. Inspection: RDSO
32	Schedule - 1 Item - 6	Supply and Installation of 19 inch 42U 600mm Depth Telecom Rack with Standard Accessories (Closed type) Front Door Glass type, all doors should be removable type [Detailed Specification in Technical Document] Inspection RITES
33	Schedule - 1 Item - 9	Supply and Installation of Server and Network Smart Rack (Server Rack-3 Nos) with accessories and 2 Nos PDU along with Zero U Cooling Unit (2 Nos) with Piping and Low Sideworks, CMC Monitoring system, cooling unit accessories, related electrical work and Rack based Fire detection, Extinguishing System, Rodent repellent system and other accessories as per specification enclosed. [Detailed Specification in Technical Document] Inspection: RITES
34	Schedule - 1 Item - 10	Supply of STP CAT- 6 Cable compliant with latest EIA/TIA-568-B-2-1 Standard for CAT 6 Cable 305 Mtrs Roll /Bundle. [Detailed Specification in Technical Document] Inspection : RITES
35	Schedule - 1 Item - 12	Supply of PVC insulated armored 3 Core 4 Sqmm, 12 AWG, 1.1 KV Grade Outdoor Strengthen Copper for UPS Power Supply Distributions per BIS/ISI Standards and all accessories required for installation. [Detailed Specification in Technical Document] Confirming to IS:1554 Part-1. Inspection : RITES
36	Schedule - 1 Item - 1	Supply, Installation and Commissioning of 2x10 KVA UPS at least 2 Hour Back up in full

		load condition ,connected in parallel redundant mode in separate chassis. Complete with all accessories as per specification attached for VSS/Data Centre/Exchange at various Railway stations of Indian Railways .This also includes supply of two set MF battery of suitable AH capacity,rack, one set compatible MCBs complete with cover & fixing materials, one earth leakage circuit breaker arrangement .[Detailed Specification in Technical Document] Inspection : RITES
37	Schedule - 1 Item - 4	Tool Kit consisting of Optical power meter(Fibershot9990V),Multimeter(Fluke101),Ethernet Crimping Tool(Standard Make)Console cable(Cisco=RJ45-DB9),Wristripper(Standard Make),Universal Spanner Set (Taparia),Screw Driver Set(Taparia-7Pieceset),Cutting plier(Taparia), Wire Stripper, Industrial grade USB to Serial cable with all accessories or Similar.[Detailed Specification in Technical Document]. Inspection: Consignee
38	Schedule - 1 Item - 9	Supply and installation of Desk Cubical work station furniture along-with Chairs and all the accessories.[Detailed Specification in Technical Document] Inspection: Consignee
39	Schedule - 1 Item - 16	Blowing & Drawing of OFC 24F/12F/6F Power Cable and CAT Cable (including crimping) through PVC Conduit already installed.[Detailed Specification in Technical Document].
40	Schedule - 1 Item - 26	Training of personnel over and above the on-site/OEM training, during the installation, maintenance and supervision period as detailed in the tender document. Defined in Man-Week i.e. One week training for one personnel or as desired by the Railway
41	Schedule - 1 Item - 2	Supply and installation of SIP Based Basic IP Phone 132 X 64 Pixel Graphical LCD as per Specification. Inspection RITES
42	Schedule - 1 Item - 19	Supply and Installation of Mobile Application along with 06 Nos of Tablets for Event Notification Gateway and NMS as per scope of work with Apps loaded, as Per RDSO/SPN/TC/99/2012 Rev.2.(Detailed Spec in Tender Document). Inspection RDSO
43	Schedule - 1 Item - 27	Supply of Call/Communication Server dual AC and DC power supply [Detailed Specification in Technical Document] Inspection RITES
44	Schedule - 1 Item - 31	Supply of Perpetual license for STAND BY server of above MAIN server. Inspection: RITES
45	Schedule - 1 Item - 33	Upgrading of Existing Bengaluru Aeonix Server with Additional SIP Licenses- 80,DRM Intercom to cater for Bengaluru Cant CAO Office. IP Endpoint Licenses to Existing Server including Technical Support Charges. Inspection Consignee
46	Schedule - 1 Item - 35	of call/Communication (SIP) Server For HQ, UBL and MYS. Inspection RITES
47	Schedule - 1 Item - 37	Installation and Commissioning Charges as per Site requirement at Bengaluru and Bengaluru Cant(Upgrading the existing server)
48	Schedule - 1 Item - 3	Supply Installation & Commissioning of Standard 19-inch Rack Mountable 24 Port managed POE switch , 24 GE 10/100/1000 BaseX Ethernet port with POE+ support and 4x1GE SFP Port for uplink with 4 nos of 1GE SFP BX SM modules loaded, including mounting kit and all the accessories as per RDSO SPECIFICATION NO. RDSO/SPN/TC/83/2020 Rev 2 or Latest.(Inspection Clause- RDSO)
49	Schedule - 1 Item - 11	Supply, installations and commissioning of NMS(Network Monitoring Server) and Emergency Room Communication Console detail specification enclosed. Model Reputed make Inspection RITES
50	Schedule - 1 Item - 13	Supply and Installation of Layer 3,24 Port Managed Switch with 24 Nos of 10/100/1000 Ethernet Ports SFP + Support with Redundant AC Power Supply, Dedicated Stacking Module 4 x 1 GE SFP Ports for uplink including 4 Nos of 1 GE SFP BX SM Modules loaded, as per Specification given. Mounting Kit with all necessary accessories. Inspection RDSO
51	Schedule - 1 Item - 10	Supply of STP CAT- 6 Cable compliant with latest EIA/TIA-568-B-2-1 Standard for CAT 6 Cable 305 Mtrs Roll /Bundle. [Detailed Specification in Technical Document] Inspection RITES
52	Schedule - 1 Item - 14	Blowing & drawing of OFC 24F/12F/6F , Power Cable, Switch Board Cable and CAT Cable (including crimping) through PVC Conduit/Duct/DWC/GI Pipe already installed
53	Schedule - 1 Item - 18	Supply of PVC insulated armored 3 Core 4 Sqmm,12 AWG,1.1 KV Grade Outdoor Strengthen Copper for UPS Power Supply Distributions per BIS/ISI Standards and all accessories required for installation. Confirming to IS:1554 Part-1. Inspection Consignee.
54	Schedule - 1 Item - 2	Supply, Installation and Commissioning of 2x10 KVA UPS at least 1 Hour Back up in full load condition, connected in parallel redundant mode in separate chassis. Complete with all accessories as per specification attached [Detailed Specification in Technical Document] Inspection RITES
55	Schedule - 1 Item - 6	Supply of Desk work station furniture, 2 table & 4 Chairs [Detailed Specification in Technical Document] Inspection Consignee
56	Schedule - 1 Item - 8	Blowing & drawing of OFC 24F/12F/6F Power Cable, Switch Board Cable and CAT Cable (including crimping) through Duct, DWC, PVC Conduit/Casing Capping, Trough already installed.

Tender Documents

S.No	File Name	Document Description
1	DetailedTechnicalSpec.pdf	Detailed Technical Specifications
2	SpecialConditions.docx_1.pdf	Special Conditions of Contract

Close