Tender No: SG-SWR-P-MPLS-VSS-EX-TCCS Closing Date/Time: 15/11/2021 15:00

Dy.CSTE/Project/Hubli acting for and on behalf of The President of India invites E-Tenders against Tender No SG-SWR-P-MPLS-VSS-EX-TCCS Closing Date/Time 15/11/2021 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

Contractors are allowed to make payments against this tender towards tender document cost and earnest money only through only payment modes available on IREPS portal like net banking, debit card, credit card etc. Manual payments through Demand draft, Banker cheque, Deposit receipts, FDR etc. are not allowed.

1. NIT HEADER

Name of Work	reliable, scalable and converge of IP based communication net Switching) backbone interconne (Session Initiation Protocol)/Vol	llation, configuration, integration and c d communication system for 230+ stat work with an IP- MPLS (Internet Protoc ecting required computing resources a P (Voice over Internet Protocol) based VSS (video surveillance system) as per	ions over SWR consisting col- MultiProtocol label and integrating SIP train control and
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	15/11/2021 15:00	Date Time Of Uploading Tender	14/10/2021 21:56
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	27/10/2021 11:00
Advertised Value	805407068.35	Tendering Section	TENDER SEC
Bidding Style	[Decision at Schedule level]	Bidding Unit	
Earnest Money /Bid Security (Rs.)	0.00	Validity of Offer (Days)	60
Obtain Bid Security Declaration	on in lieu of Bid Security	Yes	
Tender Doc. Cost (Rs.)	0.00	Period of Completion	12 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	01/11/2021	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule	A1-SOR ITE	MS, Sub-Woi	k A - IP MPL	S			19300.40	Above/ Below/Par
4	Please see I	tem Breakup	for details.		19300.40	AT Par	19300.40	
	Description	:- Sub-Work	A - IP MPLS(Multi Protoco	l Label Switching)			

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule and Acce	e A2-NON So ssories	OR ITEMS S	Switches	189671241.04	Above/ Below/Par			
4	Please see	Item Breakı	AT Par	189671241.04				
	Description	1:- Sub-Woi	rk A - IP MP	LS , Routers	,Manageable Switche	es and Access	ories	

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit				
Schedul	ule A3-Non SOR Items, Sub-Work A IP MPLS- Servers, NMS and Work Stations 43024703.01											
4	Please see	Please see Item Breakup for details. 43024703.01 AT Par 43024703.0										
1	Description	Description:- Non SOR Items, Sub-Work A IP MPLS- Servers, NMS and Work Stations										

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule	• A4-NON SO	OR Items Su		29096676.00	Above/ Below/Par			
4	Please see	Item Breaku	AT Par	29096676.00				
1	Description	n:- NON SO						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedul	e A5-Non SO	R Items, Sub	o-Work A IP	MPLS -FDMS	S , Cables and U Ra	ack	9391133.02	Above/ Below/Par

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Ī	1	Please see Item Breakup for details.	9391133.02	AT Par	9391133.02	
	'	Description:- Non SOR Items, Sub-Work A IP M	PLS -FDMS , Cable	s and U Rack		

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit				
Schedul	• A6-Non SO	R Items, Sub		9111538.00	Above/ Below/Par							
4	Please see	Item Breaku	AT Par	9111538.00								
1	Description	escription:- Non SOR Items, Sub-Work A IP MPLS-Labour and Training										

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit		
Schedule	B1-SOR ITE	MS: Sub-Wo		122913.00	Above/ Below/Par					
4	Please see I	tem Breakup	for details.		122913.00	AT Par	122913.00			
['	Description:- SOR ITEMS: Sub-Work A, Video Surveillance System (VSS)									

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit		
Schedul	e B2-NON SO	OR Items Su	IP CAMERAS	73113744.00	Above/ Below/Par					
4	Please see Item Breakup for details. 73113744.00 AT Par 73113744.00									
	Description	n:- NON SO	R Items Sub	-Work B Vide	eo Surveillance Syst	em (VSS)- IP (CAMERAS			

S.No.	Item Code	Item Qty	Qty Unit	Escl.(%)	Amount	Bidding Unit			
Schedule	e B3-Non SC	OR Items, Su		108799763.19	Above/ Below/Par				
4	Please see	Item Breakı	up for details	S.	108799763.19	AT Par	108799763.19		
I	Description:- Non SOR Items, Sub-Work B VSS - Servers and Work Station								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit		
Schedule	B4-Non SO	R Items, Su		37474523.98	Above/ Below/Par					
4	Please see	Item Breaku	AT Par	37474523.98						
I	Description:- Non SOR Items, Sub-Work B VSS -Switches with accessories									

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit		
Schedule	B5-Non SO	ES	60709565.87	Above/ Below/Par						
4	Please see	Item Breaku	p for details		60709565.87	AT Par	60709565.87			
'	Description:- Non SOR Items, Sub-Work B, VSS - FDMS, U RACK, and CABLES									

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedul	e B6-Non SO		26889460.06	Above/ Below/Par				
_	Please see Item Breakup for details. 26889460.06 AT Pa							
Description:- Non SOR Items, Sub-Work B VSS- Power Supply								

S.No	. Item Code	Item Qty	Qty Unit	Escl.(%)	Amount	Bidding Unit		
Sched	ule B7-Non SO		3431086.80	Above/ Below/Par				
4	Please see Item Breakup for details. 3431086.80 AT Pa							
1	Description:- Non SOR Items, Sub-Work B, VSS - TOOLS							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit			
Schedule	B8-Non SO		46240121.63	Above/ Below/Par							
1	Please see	AT Par	46240121.63								
ľ	Description	n:- Non SOF	R Items, Sub	-Work B, VS	S- Labour and Traini	ng					

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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule	C1-SOR ITE	199298.40	Above/ Below/Par					
4	Please see Item Breakup for details. 199298.40 AT Par							
	Description:- SOR ITEMS: VOIP Based TCCS & SIP							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit	
Schedule	C2-NON SO	OR Item Sub		27575620.00	Above/ Below/Par				
_	Please see Item Breakup for details. 27575620.00 AT Par								
I	Description:- NON SOR Item Sub-Work C, TCCS & SIP- IP Phones								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit		
Schedule	C3-Non SC	nd Licenses	61804948.08	Above/ Below/Par						
4	Please see	Item Breaku	p for details		61804948.08	AT Par	61804948.08			
ľ	Description:- Non SOR Items, Sub-Work C, TCCS&SIP - Servers, Consoles, and Licenses									

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit				
Schedule	e C4-NON S	OR Items, Si	ches	40698595.00	Above/ Below/Par							
4	Please see	Item Breaku	p for details		40698595.00	AT Par	40698595.00					
I	Description	n:- NON SO	R Items, Sul	o-Work C, TO	CCS&SIP- Gateways	and Switches						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule Accessor	e C5-NON Sories	OR Items, Si	16538774.67	Above/ Below/Par				
4	Please see	Item Breaku	AT Par	16538774.67				
Description:- NON SOR Items, Sub-Work C, TCCS&SIP - FDMS,U Rack , Cables , and Accessories								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit			
Schedule	C6-NON S		10030446.00	Above/ Below/Par							
_	Please see	Item Breaku	10030446.00								
ı	Description	n:- NON SO	R Items , Su	b-Work C, T	CCS&SIP - Power Si	upply	10030446.00				

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit	
Schedule	e C7-NON SC		2176248.00	Above/ Below/Par					
4	Please see	AT Par	2176248.00						
I	Description:- NON SOR Items, Sub-Work C, TCCS&SIP - Tools								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule	e C8-NON SC	g	9287368.20	Above/ Below/Par				
4	Please see	AT Par	9287368.20					
Description:- NON SOR Items, Sub-Work C, TCCS&SIP - Labour and Training								

3. ITEM BREAKUP

Schedule	Schedule A1-SOR ITEMS, Sub-Work A - IP MPLS							
Item- 1	Sub-Work	Sub-Work A - IP MPLS(Multi Protocol Label Switching)						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount		

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Tender No: SG-SWR-P-MPLS-VSS-EX-TCCS **Closing Date/Time:** 15/11/2021 15:00

1	10_521(a)	Transportation of S&T materials by road as per the instruction of railway representatives at site. The work also include loading and unloading of the materials upto 100KM		400.00	18.20	7280.00
2	10_521(b)	Transportation of S&T materials by Road as per the instruction of railway representatives at site. The work also include loading and unloading of the materials more than 100KM		1080.00	11.13	12020.40
					Total	19300.40
Schedule	Schedule A	A2-NON SOR ITEMS Sub-Work A - IP MPLS , Routers, I	Manageabl	e Switches a	and Accessorie	es
Item- 1		A - IP MPLS, Routers, Manageable Switches and Acces	1			
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	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		291.00		107659244.64
2	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		28.00	1676273.00	46935644.00
3	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		319.00	12161.00	3879359.00
4	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.		291.00	101480.00	29530680.00
5	5	2 x 10G Adapter Module with 2 Nos. of 10G SFP+ Modules for above Routers. Inspection RDSO	Numbers	3.00	56640.00	169920.00
6	6	8 x1G Adapter Module without SFP for above Routers. Inspection RDSO.	Numbers	6.00	59472.00	356832.00
7	7	2x STM 1 Adapter Module with 2 Nos. of STM-1, 15 km, SFP modules for above Routers. Inspection RDSO.		3.00	261550.54	784651.62
8	8	10G SFP+ Module with 40 Km range for above Routers. Inspection RDSO	Numbers	3.00	97989.56	293968.68
9	9	1G SFP Module with 10 Km range for above Routers.Inspection RDSO	Numbers	15.00	1180.00	17700.00
10	10	Supply of STM-1 SFP Module with 15 Km range with all accessories for above Routers. Inspection RDSO.	Numbers	3.00	8832.30	26496.90

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Tender No: SG-SWR-P-MPLS-VSS-EX-TCCS Closing Date/Time: 15/11/2021 15:00

		[1			
11	11	Supply of 10/100/1000 Base-T Copper Ethernet Transceiver SFP Module with all accessories. Inspection RDSO	Numbers	3.00	5581.40	16744.20
		'			Total	189671241.04
Schedule	Schedule A	A3-Non SOR Items, Sub-Work A IP MPLS- Servers, NMS	S and Work	Stations		
Item- 1	Non SOR I	tems, Sub-Work A IP MPLS- Servers, NMS and Work S	tations			
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply, installation, Testing and Commissioning of Network Management System(NMS) inclusive of		2.00	17700000.00	35400000.00
		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				
2	2	Supply and Installation of Server Based Network Management System inclusive of Hardware and Software for Network Elements including Switches, Servers, etc. of Multiple makesat Data Centre(DC & DR). Inspection RDSO. This item shall be operated along with item No.16above. Detailed Specification in Technical Document enclosed.		3.00	2362709.27	7088127.81
3	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		3.00	69700.00	209100.00
4	4	Supply and Installation 55-inch full UHD Monitor 4K. [Detailed Specification inTechnical Document]. Inspection:Consignee	Numbers	6.00	54579.20	327475.20
		, ,	1		Total	43024703.01
Schedule	Schedule A	A4-NON SOR Items Sub-Work A IP MPLS- Switches				
Item- 1	NON SOR	Items Sub-Work A IP MPLS- Switches				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	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		266.00	109386.00	29096676.00 29096676.00
Schedule	Schedule A	A5-Non SOR Items, Sub-Work A IP MPLS -FDMS, Cabl	es and U.B	ack		
		tems, Sub-Work A IP MPLS -FDMS, Cables and U Rac				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply and Termination of 12 Fiber 12 SC Type Rack Mountable FDMS loaded withSC '0' DB & Adaptor SC SM Pigtail 1.5 meters with all the accessories required for installation[Detailed Specification in Technical Document] Inspection: RITES	Numbers	692.00	9841.79	6810518.68
2	2	Supply of Single Mode Patch Cord length 3 meters (LC-SC/SC-SC/LC-LC/FC-LC) asper site requirement [Detailed Specification in Technical Document] Inspection: Consignee		1235.00	175.90	217236.50
3	3	Splicing /Dropping/Termination of each Fiber /Pigtail in the LIU/FDMS/IOBox/Termination Joints through fusion Splicing of the termination of OFC Cables. [DetailedSpecification in Technical Document]		8024.00	45.44	364610.56
4	4	Supply of STP CAT- 6 Cable compliant with latest EIA/TIA-568-B-2-1 Standard for CAT 6 Cable 305 Meters Roll /Bundle. [Detailed Specification in Technical document]Inspection:RITES		22000.00	33.20	730400.00

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5	5	Supply of 12 Core Metal Strengthened Outdoor Unarmoured Optic Fibre Cable (ITUTG-652-D) and all the accessories required for installation, as per latest TEC/BSNL Specification.[Detailed Specification in Technical Document]Inspection: RITES.		18000.00	12.98	233640.00
6	6	Supply of PVC insulated 3 Core 6 Sqmm,12 AWG 12.1 KV Grade Outdoor Strengthen Copper Cable. [Detailed Specification in Technical Document]. Inspection Consignee	Metre	300.00	203.33	60999.00
7	7	Supply of CAT 6 UTP Patch Cord-2 Meters as defined in Specification .Inspection:Consignee	Numbers	300.00	75.99	22797.00
8	8	Supply and installation/fixing of Wall Mountable RJ45 Socket and Face Plate with shutter and network module as per details in Technical document. Inspection Consignee		221.00	393.60	86985.60
9	9	Supply of RJ 45 connector suitable for STP/UTP cable [Detailed Specification inTechnical Document] Inspection: Consignee		400.00	2.85	1140.00
10	10	Supply & Installation of 19" 42U 1200mm Depth Telecom Rack with StandardAccessories (Closed type) with front door Glass type, all doors should be removable type [DetailedSpecification in Technical Document] Inspection RITES.		6.00	43979.78	263878.68
11	11	Supply and Installation of 19 inch 42U 600mm Depth Telecom Rack withStandard Accessories (Closed type)Front Door Glass type, all doors should be removable type[Detailed Specification in Technical Document]Inspection RITES		17.00	35231.00	598927.00
	•				Total	9391133.02
Cahadula						
Schedule	Schedule /	A6-Non SOR Items, Sub-Work A IP MPLS-Labour and T	raining			
Item- 1	Non SOR	tems, Sub-Work A IP MPLS-Labour and Training	raining			
		tems, Sub-Work A IP MPLS-Labour and Training Description of Item	Unit	Qty	Rate	Amount
Item- 1	Non SOR	tems, Sub-Work A IP MPLS-Labour and Training	Unit Metre	Qty 18000.00	Rate 32.38	Amount 582840.00
Item- 1	Non SOR	Description of Item Supply and Fixing of PVC Conduit Pipe minimum 35 mm Dia ISI Mark. Installation of PVC Pipe, clamping of the same on Wall, Pole etc. including with required clamps & and all theinstallation materials required. [Detailed Specification in Technical Document]	Unit Metre Metre	_		
Item- 1 S No.	Non SOR Item No	Description of Item Supply and Fixing of PVC Conduit Pipe minimum 35 mm Dia ISI Mark. Installation of PVC Pipe, clamping of the same on Wall, Pole etc. including with required clamps & and all theinstallation materials required. [Detailed Specification in Technical Document] Inspection: RITES Supply of PLB HDPE Duct of Size 40/33 mm Outer and with all Accessories,Installation on Wall or Structure HDD etc. along with all Accessories required for fixing, Clamping Cutting, as per RDSO Spec No RDSO/SPN/TC/45/2013 Rev 2 or latest. Inspection:	Unit Metre Metre	18000.00	32.38	582840.00
Item- 1 S No. 1	Non SOR Item No 1	Description of Item Supply and Fixing of PVC Conduit Pipe minimum 35 mm Dia ISI Mark. Installation of PVC Pipe, clamping of the same on Wall, Pole etc. including with required clamps & and all theinstallation materials required. [Detailed Specification in Technical Document] Inspection: RITES Supply of PLB HDPE Duct of Size 40/33 mm Outer and with all Accessories, Installation on Wall or Structure HDD etc. along with all Accessories required for fixing, Clamping Cutting, as per RDSO Spec No RDSO/SPN/TC/45/2013 Rev 2 or latest. Inspection: RDSO Trenching and laying of HDPE Duct in Normal Soil and blowing of OFC Cable[Detailed Specification in	Unit Metre Metre Metre	18000.00	32.38 89.49	582840.00 2058270.00
Item- 1 S No. 1	Non SOR Item No 1 2	Description of Item Supply and Fixing of PVC Conduit Pipe minimum 35 mm Dia ISI Mark. Installation of PVC Pipe, clamping of the same on Wall, Pole etc. including with required clamps & and all theinstallation materials required. [Detailed Specification in Technical Document] Inspection: RITES Supply of PLB HDPE Duct of Size 40/33 mm Outer and with all Accessories, Installation on Wall or Structure HDD etc. along with all Accessories required for fixing, Clamping Cutting, as per RDSO Spec No RDSO/SPN/TC/45/2013 Rev 2 or latest. Inspection: RDSO Trenching and laying of HDPE Duct in Normal Soil and blowing of OFC Cable[Detailed Specification in Technical Document] Supply and Laying of DWC Pipe 77/63 mm dia with couplers as per RDSO Spec NoRDSO/SPN/204/2011 Version 1.1 and as per the direction of site Engineer. [Detailed Specificationin Technical Document]	Unit Metre Metre Metre Metre	23000.00	32.38 89.49 172.00	582840.00 2058270.00 3956000.00

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7	7	Breaking of Pucca/Concrete Road, PF Cutting/wall cutting ,Laying of OFC/STP/Power cable etc in Trenches and through all types of protection Viz HDPE/GI/RCC/DWC/PVC Pipes as the case may be. This includes restoration of surface and stone pavement/Pavers		2000.00	437.30	874600.00
8	8	Boring & Trenching cabling along with supply and insertion of HDPE Pipe PE 80 PNof 40 mm dai with min 6.7 mm and Max 7.6 mm wall thickness as per IS 4984-95, in the bore forthe laying of Telecom/Power cable under the Track /road/HDPE Pipe is to be supplied by thecontractor.		300.00	148.20	44460.00
9	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		39700.00	4.72	187384.00
10	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.	Week	18.00	23600.00	424800.00
	I				Total	9111538.00
Item- 1		B1-SOR ITEMS: Sub-Work A, Video Surveillance Systen S: Sub-Work A, Video Surveillance System (VSS)	ı (VSS)			
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	10_521(a)	Transportation of Signaling materials by road as per the instructions of the Railway representative at site. The work also includes loading and unloading of the materials. a)Transportation up to 100 kms.		1800.00	18.20	32760.00
2	10_521(b)	Transportation of Signaling materials by road as per the instructions of the Railway representative at site. The work also includes loading and unloading of the materials. b) Transportation more than 100 kms.		8100.00	11.13	90153.00
					Total	122913.00
		32-NON SOR Items Sub-Work B Video Surveillance Sys			AS	
		Items Sub-Work B Video Surveillance System (VSS)- IF			<u> </u>	
S No.	Item No	Supply, Installation, Testing and Commissioning of Full HD Fixed Dome type IP Colour Camera along with 128 GB or Higher SD Card, Housing & Mount and all accessories required for installation purposes as per RDSO Spec No RDSO/SPN/TC/65/2021,Rev 6.0 or latest. Inspection RDSO		Qty 744.00	Rate 17464.00	12993216.00
2	2	Supply, Installation, Testing and Commissioning of Full HD Fixed Bullet type IP Colour Camera along with 128 GB or Higher SD Card, housing and mount and all accessories required for installation purposes per RDSO Spec No RDSO/SPN/TC/65/2021,Rev 6.0 or latest.Inspection RDSO		1708.00	18408.00	31440864.00
3	3	Supply, Installation, Testing and Commissioning of Full HD PTZ type IP Colour Camera along with 128 GB or Higher SD Card, housing and mount and all accessories required for installation purposes as per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Inspection RDSO		274.00	68440.00	18752560.00
4	4	Supply, Installation, Testing and Commissioning of 4K UHD Bullet type IP Colour Camera along with 128 GB or Higher SD Card, housing and mount and all accessories required for installation purposes per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0. Inspection RDSO		56.00	82600.00	4625600.00
5	5	Spares @ 8% for Supply of Cameras. a) Dome. Inspection: RDSO	Numbers	59.00	17464.00	1030376.00

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6	6	Spares @ 8% for Supply of Cameras. b) BULLET. Inspection: RDSO	Numbers	136.00	18408.00	2503488.00
7	7	Spares @ 8% for Supply of Cameras. c) PTZ. Inspection: RDSO	Numbers	21.00	68440.00	1437240.00
8	8	Spares @ 8% for Supply of Cameras. d) UHD. Inspection: RDSO	Numbers	4.00	82600.00	330400.00
		, .			Total	73113744.00
Schedule	Schedule I	B3-Non SOR Items, Sub-Work B VSS - Servers and Wor	k Station			
Item- 1	Non SOR	Items, Sub-Work B VSS - Servers and Work Station				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply, installation, Testing, Integration and Commissioning of Command & Control CenterSoftware, Perpetual Licenses & Hardware and all accessories required for their Installations andIntegration. 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
2	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	Numbers	2782.00	2147.60	5974623.20
3	3	Supply, Installation, Testing and Commissioning of VMS Server with all theaccessories 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		25.00	437963.37	10949084.25
4	4	Supply, Installation, Testing & Commissioning of Video Recording Server cum Video Analytic Hardware and all accessories required for installation purpose as per Clause No. 10.1.1.3Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Inspection RDSO		27.00	437963.37	11825010.99
5	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		22.00	437963.37	9635194.14
6	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/65/2021Rev.6 or latest. Inspection RDSO.		2452.00	2360.00	5786720.00
7	7	Supply, Installation, Testing and Commissioning of FRS software complete with allaccessories(License per camera basis), By same license, Face Recognition can be possible at multiple locations such as Station, RPF Thane and security control room as per Clause No.19.0Spec No RDSO/SPN/TC/65/2021, Rev6.0orlatest.Inspection RDSO		58.00	118000.00	6844000.00
8	8	Installation, Testing and Commissioning of Graphical User Interface based Client Software per Work Station Inspection RDSO		54.00	6726.00	363204.00

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9	9	Supply, installation Testing & Commissioning of Storage System for 30 daysrecording at Station/RPF/GRP Thane/Post/Sites for recording of Cameras from cluster of stationalong with all accessories required for installation purposes .Note Bidders are required to quote price for complete storage as a LOT at each RPF Thana of Division for all types of Cameras mentioned in the Schedule. as per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Detailed Specification in Technical Document. Inspection RDSO.		2782.00	5428.00	15100696.00
10	10	Supply, installation Testing & Commissioning of Storage System for 15 daysrecording at one Data Center each per Division for recording of Cameras from cluster of stationalong with all accessories required for installation purposes .Note Bidders are required to quote price for complete storage as a LOT for all types of Cameras mentioned in the Schedule as per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Detailed Specification in Technical Document. Inspection RDSO.		1438.00	5428.00	7805464.00
11	11	Panic Switch (IK10 and IP 66 Rated) with Mushroom Cap Push-Button in Red Color,DPDT contacts 2 Amps , Stainless Steel FacePlate with GI Junction Box of suitable size and flasher cum strobe of min. 100dB including fixing arrangements and suitable protection and all accessories required for installation on each platform at stations or as per site requirement [Detailed Specification in Technical Document].Inspection RDSO		274.00	4130.00	1131620.00
12	12	Supply, Survey and installation of Wireless Transmitter and Receiver for Video Cameras along with all accessories. As per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Inspection RDSO		14.00	28040.90	392572.60
13	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 appliance4x10G 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 1Console 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.		3.00	1355448.30	4066344.90
14	14	Supply and Installation of Digital Key Board (Joystick) and all accessories compatible with PTZ cameras. RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Inspection RDSO		20.00	21240.00	424800.00
15	15	Supply Installation Testing and Commissioning of PC WorkStation for Viewing, Monitoring and System Management [Detailed Specification in Technical Document].RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. Inspection RDSO	Numbers	54.00	153400.00	8283600.00
16	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		108.00	64531.25	6969375.00

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17	17	Supply, Calibration, Testing and Installation of 55" LED Display as per specification enclosed (QTY-4 numbers). It includes supply and installation of Matrix switch/Controller, Cables, Softwares et c and LED wall Mount/ stand and all accessories required for installation as perspecification enclosed. Inspection: RITES		4.00	1976618.00	7906472.00
					Total	108799763.19
Schedule	Schedule E	B4-Non SOR Items, Sub-Work B VSS -Switches with acc	essories			
Item- 1	Non SOR I	tems, Sub-Work B VSS -Switches with accessories				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply and installation of Layer 2 Switch as per RDSO/SPN/TC/65/2021, Rev.6.0 orlatest. Minimum 8+2 Port Manageable with 8 Nos 10/100/1000 Mbps Ethernet port, POE+ & Single Fiber 2 Nos 1G SFP Port with BX SM SFP Optical Modules loaded. with all accessories etc. As per RDSO/SPN/TC/65/2021, Rev.6.0 or latest. Inspection RDSO		842.00	23922.14	20142441.88
2	2	Supply Installation & Commissioning of Layer 2 Manageable, 24 Port POE, 24 GE10/100/1000 BaseX Ethernet port with POE+ support and 4x1GE SFP Port for uplink with 4 no of1GE BX SM SFP modules loaded, with all accessories per RDSO/SPN/TC/65/2021, Rev.6.0 or latest (Inspection Clause- RDSO)		249.00	31486.88	7840233.12
3	3	Supply, installation and Commissioning of Layer 2 Core Aggregator Switch 24 Port Managed switch with 24 Nos GE(Optical) 1G SFP BX SM based Port and 4 Nos of 10 G SFP+ Port with SFP optical Modules loaded, including Mounting Kit with all accessories. As perRDSO/SPN/TC/65/2021, Rev.6.0 or latest. Inspection RDSO		41.00	156596.91	6420473.31
4	4	Supply of Single Mode 1 G SFP-BX (10 Kms) Single fiber for above Switches. [Detailed Specification in Technical Document] Inspection: RDSO		212.00	1180.00	250160.00
5	5	Supply of Single Mode 10G SFP+ Fiber for above Switches. Inspection : RDSO	Numbers	100.00	2984.22	298422.00
6	6	Supply of Single Mode Single fiber Managed Media Converter (Ethernet and E1 to Optical and vice versa) Pair and all the accessories required for their installation. As per RDSO Spec No RDSO/SPN/TC/103/2013 Rev.2 or latest Inspection: RDSO		62.00	11210.00	695020.00
7	7	Spares @ 8% for Supply of Switches. a) FIELD SWITCH 8 PORT. Inspection: RDSO	Numbers	67.00	13548.76	907766.92
8	8	Spares @ 8% for Supply of Switches. b) FIELD SWITCH 24 PORT. Inspection: RDSO	Numbers	19.00	23695.58	450216.02
9	9	Spares @ 8% for Supply of Switches. c) AGGREGATOR SWITCH 24 PORT.Inspection: RDSO	Numbers	3.00	156596.91	469790.73
					Total	37474523.98
-		35-Non SOR Items, Sub-Work B , VSS - FDMS, U RACK		-ES		
Item- 1		tems, Sub-Work B , VSS - FDMS, U RACK, and CABLE			<u> </u>	
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	1	Supply and Termination at Wall/Rack Mountable of 12 Fiber FDMS 12 SC Type FDMS loaded with SC '0' DB & Adaptor SC SM Pigtail 1.5 meters all accessories required for installation suitable for splicing and front patching of 12 fibre cable with all accessories and terminating the optical fibre with splicing and front patching in the equipment room orplaces asrequired by the Railwayrepresentative (OFC patch cord fo and all other materials required for thesplicing are to be supplied by the Contractor.[Detailed Specification in Technical Document]Inspection: RITES		1322.00	9841.79	13010846.38

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2	2	Supply, fixing and termination of 24F FDMS 19" Rack Mount with Telescopic type loaded with SC '0' DB & Adaptor SC SM Pigtail 1.5 meters all accessories required for installation [Detailed Specification in Technical Document] Inspection: RITES		280.00	14280.00	3998400.00
3	3	Splicing/Dropping/Termination of each fiber /Pigtail in the LIU/FDMS/IO Box/Termination Joints through fusion Splicing of the termination of OFC Cables. The Fiber termination shall be tested and the test Report (Hard Copy & Soft Copy) shall be submitted to the site Engineer for records. Each fiber shall be properly marked with necessary ferulles/tags		15864.00	45.44	720860.16
4	4	Supply, Installation, Splicing/Termination of 24 Fiber OFC in FDMS/Mid section joint. (Splicing of 2 nos. of 12 Fiber/4 nos of 6 Fiber). This includes supply and installation of FDMS jointing Kit.		280.00	6088.88	1704886.40
5	5	Supply of Single Mode Patch Cord length 3 meters (LC-SC/SC-SC/LC-LC/FC-LC) asper site requirement . [Detailed Specification in Technical Document]. Inspection : Consignee	Numbers	1470.00	175.90	258573.00
6	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		40.00	43979.78	1759191.20
7	7	Supply and Installation of 19" 9U Rack Wall/Pole Mount ,with all accessories Like Electrical fitting, Fan Tray, Patch Panel, Cable Manager, PDU . [Detailed Specification in Technical Document] Inspection: RITES		249.00	9255.23	2304552.27
8	8	Supply and Installation of 19", 6 U Rack Wall/Pole Mount with all accessories required for installation purpose of switches Like Electrical fitting, Fan Tray, Patch Panel, Cable Manager, PDU .[Detailed Specification in Technical Document] Inspection: RITES		836.00	7262.16	6071165.76
9	9	Supply and Installation of Server and Network Smart Rack (Server Rack-3 Nos) withaccessories 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		3.00	3611154.00	10833462.00
10	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		155700.00	33.20	5169240.00
11	11	Supply of 12 Core Metal Strengthened Outdoor Unarmoured Optic Fiber Cable (ITUTG-652-D) and all the accessories required for installation.[Detailed Specification in Technical Document] Specification. Inspection: RITES		171500.00	12.98	2226070.00
12	12	Supply of PVC insulated armored 3 Core 4 Sqmm,12 AWG,1.1 KV Grade OutdoorStrengthen 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
13	13	Supply of 6 Core Armoured Single Mode OFC cable as per latest TEC/BSNL Specification. [Detailed Specification in Technical Document]Inspection: Consignee		3000.00	27.09	81270.00

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14	14	Supply of CAT 6 UTP Patch Cord-2 meters [Detailed Specification in Technical Document] Inspection :	Numbers	2870.00	75.99	218091.30			
		Consignee							
15	15	Supply of CAT-6 Patch Cord-5mtrs length [Detailed Specification in Technical Document] Inspection : Consignee	Numbers	2870.00	333.82	958063.40			
16	16	Supply of RJ 45 connector suitable for STP/UTP Cable (D-Link) [Detailed Specification in Technical Document] Inspection : Consignee		4840.00	2.85	13794.00			
					Total	60709565.87			
Schedule	Schedule I	B6-Non SOR Items, Sub-Work B VSS- Power Supply							
Item- 1	Non SOR Items, Sub-Work B VSS- Power Supply								
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount			
1	1	Supply, Installation and Commissioning of 2x10 KVA UPS at least 2 Hour Back up infull load condition ,connected in parallel redundant mode in separate chassis. Complete with allaccessories as per specification attached for VSS/Data Centre/Exchange at various Railwaystations 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:		21.00	424682.00	8918322.00			
2	2	Supply, Installation and Commissioning of 3 KVA Online UPS with 2 Hrs SMF BatteryBackup. This also includes supply of one set MF battery of suitable AH capacity Rack and one set compatible MCBs complete with cover & fixing materials, one earth leakage circuit breaker arrangement [Detailed Specification in Technical Document]Inspection: RITES		214.00	73626.33	15756034.62			
3	3	Supply and installation 2 KVA online UPS (Single Phase) 19 inch Rack mountable type with 1 Hour Backup along with suitable AH capacity battery and all the accessories required for installations.[Detailed Specification in Technical Document] Inspection: RITES		13.00	44840.00	582920.00			
4	4	Supply, Installation, Testing and Commissioning of Surge Protection Device Class B(10/350 s) and Class C(8/20s)type Metal and Capsulated Spark gap for Fire safe and fireproofoperation based, single phase coordinated. It shall have mechanical failure indicators on L-N andN-E pluggable devices as per IEC 61643 test standards. latest. Supply of surge protection with Potential free contacts .All miscellaneous materials required for the work shall be supplied by the contractor.[Detailed Specification in Technical Document] Inspection: RITES		24.00	40140.00	963360.00			
5	5	Supply of Ethernet Surge Protector[Detailed Specification in Technical Document]Inspection : Consignee	Numbers	41.00	2743.40	112479.40			
6	6	Supply of ACDB for AC Distribution Box along with required MCBs, Lock and Key arrangement and ISI Mark MCBs of Various Rating as per site requirement. Inspection: RITES		238.00	2337.58	556344.04			
	•				Total	26889460.06			
Schedule	Schedule I	B7-Non SOR Items, Sub-Work B, VSS - TOOLS							
Item- 1	Non SOR	Items, Sub-Work B, VSS - TOOLS							
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount			

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1	1	Single fiber fusion splicer similar to fujikura 80C with standard accessories: ACADAPTER /BATTERY Charger ADC-18 1PC, AC Power Cord ACC-XX: 1PC spare electrode Elect2-20:1 pair carrying case CC-30:1PC USB cable USB-01: 1PC Sleeve loader SL01:1 PC dispenserAP-01: 1 PC screwdriver SC-01 1PC, Instruction Manual: 1 PC Quick reference Guide 1PC warning& cautions: 1 PC; BATTERY RACK BRT-09, Battery charger cord DCC-18: 1 PC High precisionFiber cleaver CT-06: 1 PC, 3 in-1 Stripper: 1PC & Protection sleeves: 25nos. (A demo shall bearranged along with supply) as per TEC Specification g/osm/01-03 April2005 Model S-177A.MakeFURUKAWA ELECTRIC CO Japan. Type approved or Similar. [Detailed Specification in Technical Document].Inspection: RITES		6.00	300389.20	1802335.20
2	2	Supply of Optical Time Domain Reflectometer for 1310/1550nm fiber with resolutionof 60 Cms,dynamic Range of 314/29 dB with all accessories confirming to TEC Specification NoTEC Specification No G/OTD/02-03 March 2009.Make EXFO Model MAX 720C, AQ-7270+735022.Make Yokogawa Electric Co Ltd Japan or Similar . Detailed Specification in TechnicalDocument. Inspection: RITES		6.00	165200.00	991200.00
3	3	Supply of Network Cable Tester Similar to Fluke Networks - MS2-100 - MICROSCANNER2 CABLE VERIFIER [Detailed Specification in Technical Document].Inspection: Consignee		6.00	33637.00	201822.00
4	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-7Piecesset),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
	<u> </u>	Tooliniaa Boodineriiji ineposiieni eeneigiise			Total	3431086.80
Schedule	Schedule I	B8-Non SOR Items, Sub-Work B, VSS- Labour and Trair	ning			
	<u> </u>	Items, Sub-Work B, VSS- Labour and Training				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply, Installation, testing and commissioning of UL/FM/VDS/LPCB approvedMicroprocessor based networkable analogue addressable and modular type of fire alarm controlpanel with display inbuilt charging facility and provision of GSM/VoLTE module suitable to sendSMS to configured mobile numbers. The panel should be equipped with sufficient nos of loops andprovision of expendability as per RDSO specification RDSO/SPN/217/2016 ver 2.0 or latest. Thecontrol panel shall be the central processing unit of the system receiving and analyzing signals fromprobe type bimetallic heat detectors, UV & IR flame detectors, Heat and smoke multi sensors, LHSinterface and manual call points, providing audible and visual information to the user. The panelshall have provision of connectivity of TCP-IP suitable for programming and remote monitoring. Thepanel shall have a dedicated RS232 (or latest) serial port for direct PC or MODEM connection, forinterfacing with existing data logger/NMS and optional remote printer		3.00	229530.73	688592.19

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2	2	Supply, Installation, testing and commissioning of Resettable, addressable Multisensor () Heat & Smoke) which is fully compatible with analogue addressable protocol Electronically addressed as per RDSO/Specification No. RDSO/SPN/217/2016 ver 2.0 or latest [Detailed Specification in Technical Document].Inspection RDSO.	30.00	3294.36	98830.80
3	3	Supply, Installation, testing and commissioning of addressable Resettable, manualCall Point having status LED for alarming and standby mode electronically addressed as per RDSO Specification No. RDSO/SPN/217/2016 ver 2.0 or latest [Detailed Specification in Technical Document].Inspection RDSO.	3.00	4494.98	13484.94
4	4	Supply, Installation, testing and commissioning of addressable loop powered wall sounder beacon/alarm as per RDSO Specification No. RDSO/SPN/217/2016 ver 2.0 or latest[Detailed Specification in Technical Document].Inspection RDSO	3.00	7999.50	23998.50
5	5	Supply, Installation, testing and commissioning of FRLS/ Fire Survival circuit integritycables i.e. armored cable with all accessories for connection of all fire alarm devices (as per RDSO Specification No. RDSO/SPN/217/2016 ver 2.0 or latest) (per station wiring)[Detailed Specification in Technical Document]. Inspection RDSO	3.00	31702.09	95106.27
6	6	Supply of Portable light weight CO2 type Fire Extinguisher Capacity 4.5 Kg ISI Mark15683,Operating Temperature -30 to +50 for class 13 C for electrical Type of fire with 1 mtrs House Pipe with PVC been Horn complete in all respects. [Detailed Specification in Technical Document].Inspection: Consignee	6.00	4425.45	26552.70
7	7	Supply & installation of Maintenance Free Single Earth as per RDSO Specification No RDSO/SPN/197/2014 with latest amendment.[Detailed Specification in Technical Document]Inspection RDSO.	71.00	23156.63	1644120.73
8	8	Supply and Fixing of GI Pipe (50 mm dia 3.65mm thick) as per IS-1239, Pt, MediumGrade along with the clamps and couplers for laying of Cable to the Platform shelter from groundlevel and as per site requirement. Entry of cables will be advised by the site in charge of theRailway and extended by suitable dia HDPE/Flexible PVC Pipe on either side as required as per site requirement. Along with supply of all accessories.[Detailed Specification in Technical Document]Inspection: RITES	3380.00	742.35	2509143.00
9	9	Supply and installation of Desk Cubical work station furniture along-with Chairs and all the accessories. [Detailed Specification in Technical Document] Inspection: Consignee	50.00	13439.10	671955.00
10	10	Supply and Fixing of 35 mm Flexible steel wire reinforced PVC Green Pipe (This includes all materials, clamps etc. required for laying, fixing and clamping). Inspection: Consignee	2990.00	23.99	71730.10
11	11	Supply and Fixing of PVC Conduit pipe minimum 35 mm dia ISI Mark. Installation of PVC Pipe, Clamping of the same on wall, Pole etc. including with required clamps & and all the installation materials required [Detailed Specification in Technical Document] Inspection: RITES	293500.00	32.38	9503530.00
12	12	Supply of PLB HDPE Duct of Size 40/33 mm Outer and with all Accessories.Installation on Wall or Structure/HDD etc. along with all Accessories required for fixing, Clamping Cutting, as per RDSO Spec No RDSO/SPN/TC/45/2013 Rev 2 or latest.[Detailed Specification in Technical Document] Inspection: RDSO	22600.00	89.49	2022474.00

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	1	7=	1	<u> </u>	1	
13	13	Trenching and Laying of HDPE Duct in Normal Soil and blowing of OFC Cable. [Detailed Specification in Technical Document].		22600.00	172.00	3887200.00
14	14	Supply and installation of Bracket/Fixture/Angle for fixing of Cameras at Stations along with all accessories required.[Detailed Specification in Technical Document].Inspection:Consignee		2782.00	4720.00	13131040.00
15	15	Cost of Design, survey & submission of drawings for permissions from Authorities(including hand made diagram of the network)[Detailed Specification in Technical Document].		228.00	15453.00	3523284.00
16	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].		454700.00	4.72	2146184.00
17	17	Supply of Non flammable, anti-rodent DWC Pipes(OD/ID 90/76 mm minimum)as specification IS 16205 with T Joints, sockets/couplers at both ends as per requirements. Supply of non-coupler for 6m of DWC pipe and couplers for 30mm of length free of cost. Inspection- Consignee		636.00	118.00	75048.00
18	18	Supply and Fixing of PVC Trunking of 50X50mm with cover of 2mm thick and 2mtrlength each.(This includes all materials like clamps, bends, couplers, fixing required forlaying).Inspection Consignee		150.00	369.10	55365.00
19	19	Supply of PVC Casing Capping(2"x2")with cover fixing/laying materials with all accessories as per requirement.(This includes all materials like bends, couplers, clamps etc. required for laying, fixing and clamping). Inspection Consignee		2570.00	22.80	58596.00
20	20	Fixing of PVC Tray/Casing Capping (2 inch) with cover and all accessories .All fixing clamping materials to be supplied by contractor		2570.00	2.44	6270.80
21	21	Supply and installation of RCC Route Markers including Painting inspectionConsignee	Numbers	440.00	541.79	238387.60
22	22	Breaking of Pucca/Concrete Road, PF Cutting Laying of OFC/Power Cable/STP/Switch Board Cable in Trenches and through all types of protection Viz HDPE/GI/RCC Pipes as the case may be .This includes restoration of surface and stone paved/pavers		7500.00	437.30	3279750.00
23	23	Boring & Trenching cabling along with supply and insertion of HDPE Pipe PE 80 PNof 90 mm dai with min 6.7 mm and Max 7.6 mm wall thickness as per IS 4984-95,in the bore for the laying of Signalling/Telecom/Power cable under the Track/road//HDPE Pipe is to be supplied by the contractor.		300.00	148.20	44460.00
24	24	Supply and Erection of 15 Feet GI pipe of 100 mm dia 4.5m thickness of mediumquality ISI no: 1230(Part 1) 1990. Having an iron base plate 10 mm thick x 30 cmx 30cm welded atthe bottom of the pipe with four supports of iron bars of sizes 10 mm dia. The 3 feet pipe shall beburied in the ground and 12 feet shall be above the ground. The work includes digging of the pit onPlatform, laying of cable in between poles in suitable underground GI pipes, erection of pole andfilling the pit with 1:3:4 cement, concrete and sand. Final plastering should be done on the surface. The iron bracket on the top of the pole shall be provided to fix the CCTV camera, Protection cover and junction box. The work includes supply of all the materials required in this item. [Detailed Specification in Technical Document]. Inspection RITES		228.00	3192.00	727776.00
25	25	Supply of Compact Aluminium Step Ladder of 12 Feet. [Detailed Specification inTechnical Document].Inspection Consignee		26.00	10817.00	281242.00

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26	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	Week	60.00	23600.00	1416000.00
					Total	46240121.63
Schedule	Schedule (C1-SOR ITEMS: VOIP Based TCCS & SIP				
Item- 1	SOR ITEM	S: VOIP Based TCCS & SIP				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	10_107	Excavation of trench to a depth of 1 Mtr. for Road Crossing of Cables, laying of DWC/ RCC pipes with collar/ coupling, refilling of trench by ramming and consolidating it and resurfacing it to the original position. Laying of cables is not included in this schedule. (Supply of DWC/RCC pipes with couplers/collars is not included in this schedule).		1260.00	129.99	163787.40
2	10_521(a)	Transportation of Signalling Materials by Road as Per the Instructions of Railway Representative at Site. The Work also includes Loading and Unloading of the Materials. a)Transportation up to 100 kms		300.00	18.20	5460.00
3	10_521(b)	Transportation of Signalling Materials by Road as Per the Instructions of Railway Representative at Site. The Work also includes Loading and Unloading of the Materials. b)Transportation more than 100 kms		2700.00	11.13	30051.00
			•		Total	199298.40
Schedule	Schedule (C2-NON SOR Item Sub-Work C, TCCS & SIP- IP Phones	s			
Item- 1	NON SOR	Item Sub-Work C, TCCS & SIP- IP Phones				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply and Installation of Control IP Telephones with Hands Free and Gooseneck Operation for Way Side Station as Per Clause 11 of RDSO/SPN/TC/99/2012 Rev.2 or latest(Detailed Spec in Tender Document). Inspection RDSO		347.00	23500.00	8154500.00
2	2	Supply and installation of SIP Based Basic IP Phone 132 X 64 Pixel Graphical LCD as per Specification. Inspection RITES	Numbers	370.00	5500.00	2035000.00
3	3	Supply of SIP Based Medium IP Phone with 240X120 Pixel or better Graphical LCDwith Backlight, Minimum 8 No of One Touch line key as per Specification. Inspection RITES		620.00	13314.00	8254680.00
4	4	Supply of SIP Based Video Phones 7 " Capacitive Adjustable Touch Screen,LCD screen, 720p 30 HD video should run on latest Android along with POE injector or better as per specification. Inspection RITES		164.00	54460.00	8931440.00
5	5	Wiring and Termination for IP Phones up to last point (includes configuring, fixing of I/O box, Drawing of UTP/OF Cable, Fixing of PVC Pipe /Casing capping. All miscellaneous materials required for fixing to be supplied by Contractor as per site requirement)		4.00	50000.00	200000.00
					Total	27575620.00
		C3-Non SOR Items, Sub-Work C, TCCS&SIP - Servers,		and License	s	
Item- 1		tems, Sub-Work C, TCCS&SIP - Servers, Consoles, and				_
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply, Installation and Commissioning of Communication Server as per Clause 5 and 6 RDSO/SPN/TC/99/2012 Rev.2 or latest. Communication Server Block shall be provided 1+2 or 1:2 Redundancy. Total 3 servers, 2 numbers at main location and one at remote location. (Detailed Spec in Tender Document). Inspection RDSO		2.00	2615000.00	5230000.00

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2	2	Supply, Installation and Commissioning of Communication Server as per Clause 5and 6 RDSO/SPN/TC/99/2012 Rev.2 or latest.1 Number Communication Server for Remote Location. Redundancy Compatible with the existing server. (Detailed Spec in Tender Document).Inspection RDSO	1.00	1260000.00	1260000.00
3	3	Supply, Installation and Commissioning of Network Management Server as per Clause 5 and 8 RDSO/SPN/TC/99/2012 Rev.2 or latest (Detailed Spec in Tender Document)Inspection RDSO	5.00	490000.00	2450000.00
4	4	Supply, Installation and Commissioning of Voice Recording Server as per Clause 5and 7 RDSO/SPN/TC/99/2012 Rev.2 or latest (Detailed Specin Tender Document). Inspection RDSO.	5.00	525000.00	2625000.00
5	5	Supply, Installation and Commissioning of Client PC for Voice Record Server as per Clause 8 RDSO/SPN/TC/99/2012 Rev.2 along with 600VA UPS. Inspection RDSO	5.00	69700.00	348500.00
6	6	Supply, Installation and Commissioning Event Notification Gateway as per Clause12.3 of RDSO/SPN/TC/99/2012 Rev.2 or latest (Detailed Spec in Tender Document). Inspection RDSO	5.00	310000.00	1550000.00
7	7	Supply, Installation and Commissioning of Desktop Client PC As per clause 8.7 and 8.8 of RDSO/SPN/TC/99/2012 Rev.2 or latest along with 600VA UPS (Detailed Spec in Tender Document). Inspection RDSO	5.00	69700.00	348500.00
8	8	Supply of (Similar to Laptop) Portable Maintenance Terminal (Similar to Laptop) as Per Clause No 8.7 and 8.9 RDSO/SPN/TC/99/2012 Rev.2. (Detailed Spec in Tender Document).Inspection RDSO	6.00	80900.00	485400.00
9	9	Supply and installation 55-inch full HD Monitor (with 3 Years Warranty). [Detailed Specification in Technical Document] Inspection Consignee	6.00	54579.20	327475.20
10	10	Supply, Installation and Commissioning of Controller Console as Per Clause 9 of RDSO/SPN/TC/99/2012 Rev.2 or latest. (Detailed Spec in Tender Document). Inspection RDSO	24.00	420906.00	10101744.00
11	11	Supply, Installation and Commissioning of Test Room Console as Per Clause 10 of RDSO/SPN/TC/99/2012 Rev.2 or latest. (Detailed Spec in Tender Document). Inspection RDSO	5.00	469286.00	2346430.00
12	12	Supply, Installation and Commissioning for 4 Port Gateway to support 4 PortConcurrent Emergency Communication at HQ/Way station to support 4 wire ports/ 4 Port Gateway with built in 2 wires to 4 wire Hybrid convertor to support 4 wire output as Per Clause 13 of RDSO/SPN/TC/99/2012 Rev.2 or latest. (Detailed Spec in Tender Document). Inspection RDSO	317.00	19470.00	6171990.00
13	13	Supply and Installation of Station License of TCCS Communication Server of 1+2Configuration as per RDSO/SPN/TC/99/2012 Rev.2.Inspection RDSO	332.00	18290.00	6072280.00
14	14	Supply and Installation of Port License of TCCS Communication Server in 1+2Configuration as per RDSO/SPN/TC/99/2012 Rev.2.Inspection RDSO	332.00	2360.00	783520.00
15	15	Supply and Installation of Conference Room License of TCCS Cum Server of 1:4Room in 1+2 Configuration as per RDSO/SPN/TC/99/2012 Rev.2.Inspection RDSO	12.00	41300.00	495600.00
16	16	Supply and Installation of TCCS VoIP Voice Logger Board License as perRDSO/SPN/TC/99/2012 Rev.2.Inspection RDSO	12.00	102660.00	1231920.00

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17	17	Supply and Installation of NMS Device License of TCCS VoIP NMS Server 100Device Pack as per RDSO/SPN/TC/99/2012 Rev.2. Inspection RDSO		11.00	116820.00	1285020.00
18	18	Supply and Installation of Event Notification Gateway License of TCCS VoIP NMS Server of 100 Device Pack as per RDSO/SPN/TC/99/2012 Rev.2.Inspection RDSO		11.00	59000.00	649000.00
19	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		25.00	13700.98	342524.50
20	20	Supply of Fully Non-Blocking 19"Rack Mountable IP Based Server ArchitectureSupporting Virtualization and should be able to Integrate both Analog/ISDN Gateways. Unified Communication Server Solution in Active-Active Cluster Mode. Perpetual license for MAIN Server. Inspection RITES.		1.00	55569.15	55569.15
21	21	Supply of Perpetual license for STAND BY server of above MAIN server. InspectionRITES		1.00	48321.00	48321.00
22	22	Supply of IP Endpoint Perpetual Licenses(any SIP Phone)for above Server. Inspection RITES	Numbers	620.00	5556.91	3445284.20
23	23	Supply of Gateway User Perpetual Licenses(Analog Users)for above Server. Inspection RITES	Numbers	3750.00	1932.84	7248150.00
24	24	Supply of SIP Trunk Perpetual Licenses(for PRI Gateways & SIP Trunk)for above Server. Inspection RITES		270.00	1691.23	456632.10
25	25	Supply of Mobility Perpetual License for above Server. Inspection Consignee	Numbers	254.00	2258.52	573664.08
26	26	Supply of Softphone Perpetual License, PC based and Android Based for above server. Inspection Consignee		60.00	1758.00	105480.00
27	27	Supply of Call/Communication Server dual AC and DC power supply[Detailed Specification in Technical Document]Inspection RITES		2.00	512356.00	1024712.00
28	28	Supply of fully non-Blocking 19"Rack Mountable IP based Server ArchitectureSupporting Virtualization and should be able to Integrate both Analog/ISDN Gateways for GM, DRMUBL, DRM MYS Intercom. Unified Communication Server Solution in Active-Active Cluster Mode MAIN SERVER Perpetual License. Inspection RITES		3.00	55569.15	166707.45
29	29	Supply of Perpetual license for STAND BY server of above MAIN server. InspectionRITES	Numbers	3.00	48321.00	144963.00
30	30	Intercom Server and Perpetual License Supply of fully non-Blocking Supply of IPEndpoint Licenses (any SIP phone) for above intercom server. Inspection RITES		350.00	5557.00	1944950.00
31	31	Supply of Perpetual license for STAND BY server of above MAIN server. Inspection: RITES	Numbers	10.00	1932.84	19328.40
32	32	Supply of SIP Trunk Perpetual Licenses for above intercom server.Inspection: RITES	Numbers	70.00	1691.23	118386.10
33	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		80.00	5557.00	444560.00
34	34	Upgrading of Existing Bengaluru Aeonix Server with Additional SIP Trunk License- 30for DRM Intercom to cater for Bengaluru Cant CAO Office. Inspection Consignee		30.00	1691.23	50736.90
35	35	of call/Communication (SIP) Server For HQ, UBL and MYS. Inspection RITES	Numbers	6.00	206500.00	1239000.00
36	36	Installation and Commissioning Charges as per Site Requirement at HQ, UBL and MYS	Job	6.00	82600.00	495600.00

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37	37	Installation and Commissioning Charges as per Site requirement at Bengaluru and Bengaluru Cant(Upgrading the existing server)		2.00	59000.00	118000.00
	<u> </u>	jopg. alanig and emaning control,	<u> </u>		Total	61804948.08
Schedule	Schedule (C4-NON SOR Items, Sub-Work C, TCCS & SIP- Gatewa	ys and Swit	ches		
Item- 1	NON SOR	Items, Sub-Work C, TCCS&SIP- Gateways and Switche	es			
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply of 96 Port Rack Mountable FXS Gateway Chassis or higher with 4*24 FXSGateway cards or any combination along with patch panel/krone module for termination . (Redundant Dual DC power supply) and Dual input ports(Fiber/Ethernet)including mounting kit and all the accessories. [Detailed Specification in Technical Document] Inspection RITES.		58.00	236647.00	13725526.00
2	2	Supply, installation and Commissioning of Standard 19-inch Rack Mountable Layer 2Core Aggregator Switch 24 Port Managed switch with 24 Nos GE(Optical) 1G SFP based Port and4 Nos of 10 G SFP+ Port with SFP optical BX SM Modules loaded, including Mounting Kit with allaccessories as per RDSO/SPN/TC/65/2021, Rev.6.0 or latest. Inspection RDSO		6.00	156596.91	939581.46
3	3	Supply Installation & Commissioning of Standard 19-inch Rack Mountable 24 Portmanaged POE switch, 24 GE 10/100/1000 BaseX Ethernet port with POE+support and 4x1GESFP 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)		47.00	31486.88	1479883.36
4	4	Supply of 96 Port Rack Mountable FXS Gateway Chassis or higher with 2*24 FXSGateway cards or any combination along with patch panel/krone module for termination. (Redundant Dual DC power supply) and Dual input ports(Fiber/Ethernet)including mounting kit and all the accessories [Detailed Specification in Technical Document] Inspection RITES.		39.00	178840.00	6974760.00
5	5	Supply of 24 Port FXS Gateway 19" Rack Mountable along with Patch Panel/krone module for termination (DC or AC based as per site requirement) and Dual input ports(Fiber/Ethernet) including mounting kit and all the accessories. [Detailed Specification inTechnical Document] Inspection RITES.		22.00	52455.00	1154010.00
6	6	Supply of 8 Port FXS Gateway (AC based) including mounting kit and all the accessories. [Detailed Specification in Technical Document] Inspection RITES.		45.00	16392.00	737640.00
7	7	Supply of 24 Port FXO Gateway 19" Rack mountable suitable for 96/48 FXSGateway chassis along with patch panel/krone module. (AC or DC based) including mounting kitand all the accessories. [Detailed Specification in Technical Document]Inspection Consignee		8.00	42217.00	337736.00
8	8	Supply of 2 port E1 Gateway (Dual DC based). Inspection Consignee	Numbers	2.00	155490.00	310980.00
9	9	Supply of Single Mode 1 G SFP-BX (10 Kms) Single Fiber for above Switches supplied in this schedule. [Detailed Specification in Technical Document] Inspection: Consignee		90.00	1180.00	106200.00
10	10			3.00	472000.00	1416000.00

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11	11	Cumply installations and commissioning of	Numbara	4.00	60700.00	278800 00
11	11	Supply, installations and commissioning of NMS(Network Monitoring Server) and Emergency	Numbers	4.00	69700.00	278800.00
		Room Communication Console detail specification				
		enclosed. Model Reputed make Inspection RITES				
12	12	Programming of Servers, Switches, Installation of all Gateways (96,48,24,8 Port) asPer site requirement,		3.00	1162300.00	3486900.00
		installation of Soft Phones, Mobility Phones, Shifting of				
		Materials to Site, withnecessary Supply and				
		Termination of 24 Port Jack Panel, Cat-6 Patch Cords,				
		OFC Patch Cord, Extension of DC/AC Power Supply from Charger/UPS to Gateways and Extension of				
		Earth to all Equipments, Termination of PVC Cable in				
		Existing IDF. Testing of lines in all locations. And all				
		the supply and installation of accessories required for installation				
13	13	Supply and Installation of Layer 3,24 Port Managed	Numbers	5.00	109386.00	546930.00
		Switch with 24 Nos of10/100/1000 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				
	4.4	all necessary accessories. Inspection RDSO	<u> </u>	047.05	00000 / :	7500010 00
14	14	Supply and installation of Layer 2 Switch as per RDSO/SPN/TC/65/2021, Rev.6.0 orlatest. Minimum		317.00	23922.14	7583318.38
		8+2 Port Manageable with 8 Nos 10/100/1000 Mbps				
		Ethernet port, POE+ & Single Fiber 2 Nos 1G SFP Port				
		with BX SM SFP Optical Modules loaded including mounting kit and all the accessories. Inspection RDSO				
15	15	Supply of CAT-6 Patch Cord-5mtrs length [Detailed	Numbers	620.00	333.82	206968.40
		Specification in Technical Document] Inspection:				
16	16	Consignee Supply and Installation of Wall Mountable RJ 45	Numbers	1544.00	393.60	607718.40
10	10	Socket with FacePlate. [Detailed Specification in		1344.00	000.00	007710.40
		Technical Document] Inspection Consignee				
17	17	Supply of Crimping Tool for RJ 45 (Cadyce CA-CT568 or better). Inspection Consignee		30.00	1174.10	35223.00
18	18	Supply of RJ 45 connector suitable for STP cable [Detailed Specification in Technical Document]		1200.00	2.85	3420.00
		Inspection Consignee				
19	19	Supply of Single Mode 1 G SFP-BX (10 Kms) Single	Numbers	650.00	1180.00	767000.00
		fiber for above Switches. [Detailed Specification in Technical Document] Inspection Consignee				
		rechnical Document Inspection Consignee			Total	40698595.00
Schedule	Schedule (C5-NON SOR Items, Sub-Work C, TCCS&SIP - FDMS,U	I Back . Cal	oles and A		4000000000
Item- 1		Items, Sub-Work C, TCCS&SIP - FDMS,U Rack , Cable				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply and Termination at Wall/Rack Mountable of 12		329.00	9841.79	3237948.91
		Fiber FDMS 12 SC TypeFDMS loaded with SC '0' DB & Adaptor SC SM Pigtail 1.5 meters all accessories				
		required forinstallation suitable for splicing and front				
		patching of 12 fiber cable with all accessories				
		andterminating the optical fiber with splicing and front patching in the equipment room or places as required				
		by the Railway representative (OFC patch cord for and				
		all other materials required for the splicing are to be				
		supplied by the contractor.[Detailed Specification in Technical Document]Inspection: RITES				
2	2	Supply of Single Mode Patch Cord length 3 meters	Numbers	650.00	175.90	114335.00
_	_	(LC-SC/SC-SC/LC-LC/FC-LC) asper site requirement.		050.00	175.90	114000.00
		[Detailed Specification in Technical Document]				
		Inspection Consignee				

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3	3	Supply & Installation of 19"42U 1200mm Depth Telecom Rack withStandard Accessories (Closed type) with front door Glass type, all doors should be removable type[Detailed Specification in Technical Document]Inspection RITES		5.00	43979.78	219898.90
4	4	Supply and installation of covered 19" 42 U racks of size 600mm depth Telecom Rack with Standard Accessories (Closed type Telecom Rack) with front door Glass type, all Doors[Detailed Specification in Technical Document] Inspection RITES		187.00	35231.00	6588197.00
5	5	Supply, installation of 19"27U 600 mm depth rack with standard accessories (closedtype telecom rack) with front Door Glass Door Type, all Doors should be Removable Type, TwoExhaust Fans, One Horizontal Tray, One AC Multiple (6 Nos of 5 Amps Socket) Earthing Strip Copper, with Fastener -2PAC Rack Mountable DCDB Panel with one Copper Strip and 4 MCB 06Amps +02 MCB 16 Amps. [Detailed Specification in Technical Document] Inspection:RITES		9.00	34220.00	307980.00
6	6	Supply, installation of 19"12 U Rack Wall/Pole Mount, with front Door Glass Door Type, all Doors should be Removable Type with all accessories Like Electrical fitting, Fan Tray ,Patch Panel, Cable Manager, Spike Buster/PDU. [Detailed Specification in Technical Document]Inspection: RITES		25.00	12600.00	315000.00
7	7	Supply and Installation of 19" 9U Rack Wall/Pole Mount, with front Door Glass DoorType, all Doors should be Removable Type with all accessories Like Electrical fitting, Fan Tray,Patch Panel, Cable Manager, Spike Buster/PDU. [Detailed Specification in Technical Document]Inspection: RITES		42.00	9255.23	388719.66
8	8	Supply of Single Mode Single fiber Managed Media Converter (Ethernet & E1 toOptical vice versa) Pair and all the accessories required for their installation as per RDSO Spec NoRDSO/SPN/TC/103/2013 Rev.2 or latest Inspection: RDSO		83.00	11210.00	930430.00
9	9	Supply of LAN Extender as per RDSO Specifications RDSO/SPN/TC/82/2020 Rev.2.0. Inspection RDSO	Pair	38.00	24860.00	944680.00
10	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		43895.00	33.20	1457314.00
11	11	Supply of 12 Core Metal Strengthened Outdoor Unarmored Optic Fiber Cable (ITUTG-652-D) and all the accessories required for installation as per latest TEC/BSNL [DetailedSpecification in Technical Document] Inspection RITES		13000.00	12.98	168740.00
12	12	Supply of PVC insulated 3 Core 6 Sqmm,12 AWG,12.1 KV Grade OutdoorStrengthen Copper Cable. [Detailed Specification in Technical Document] Inspection RITES		3000.00	203.33	609990.00
13	13	Supply of 6 Fiber Armored OFC Cable Single Mode OFC for laying over thePlatform Shed as per latest TEC/BSNL Specification. Inspection Consignee		300.00	27.12	8136.00
14	14	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		24800.00	4.72	117056.00
15	15	Surge Protection Device for 6 LAN Networks. Inspection: Consignee	Numbers	15.00	2743.40	41151.00
16	16	Supply of CAT 6 UTP Patch Cord-2 Mtrs Inspection: Consignee	Numbers	780.00	75.99	59272.20
17	17	Supply of 24 Fiber OFC Armored (Metal free) for laying over the Platform shed asper latest RDSO/TEC/BSNL Specification. Inspection Consignee		3000.00	89.77	269310.00

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18	18	Supply of PVC insulated armored 3 Core 4 Sqmm,12 AWG,1.1 KV Grade OutdoorStrengthen Copper for UPS Power Supply Distributions per BIS/ISI Standards and all accessories required for installation. Confirming to IS:1554 Part-1. Inspection Consignee.		1900.00	88.50	168150.00
19	19	Supply of Switch Board Cable 50 Pair, 0.5mm annealed tinned copper as perspecification. Inspection: Consignee	Metre	1400.00	251.91	352674.00
20	20	Supply of Switch Board Cable 25 Pair as per Specification. Inspection Consignee	Metre	1000.00	118.00	118000.00
21	21	Supply of 10 Pair Annealed Tinned Copper Conductor PVC insulated Color Coded Twisted Pair Switchboard Telephone Cable PVC Sheathed with Nylon Ripped Conductor dia of size0.5mm (inspection clause RITES)		3200.00	38.06	121792.00
					Total	16538774.67
Schedule	Schedule (C6-NON SOR Items , Sub-Work C, TCCS&SIP - Power S	Supply			
Item- 1	NON SOR	Items , Sub-Work C, TCCS&SIP - Power Supply				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply and Installation Testing and Commissioning of on line 6 KVA UPS Inspection:RITES	Numbers	5.00	150218.00	751090.00
2	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		3.00	424682.00	1274046.00
3	3	Supply and Installation Testing and Commissioning of Isolated DC-AC Inverter 1+1HA input 48 V DC, Output:220V AC 1000VA or higher, with all required Protection Circuits.Inspection: RITES		279.00	23010.00	6419790.00
4	4	Supply and Installation 2 KVA online UPS (Single Phase) 19-inch Rack MountableType with 1 Hour Backup along with suitable AH capacity battery and all the accessories requiredfor installations. [Detailed Specification in Technical Document]Inspection: RITES		18.00	44840.00	807120.00
5	5	Supply and installation 1 KVA/168VAH on line UPS (Single Phase) with 1 Hour Backup and all the accessories required for installations. [Detailed Specification in TechnicalDocument]Inspection: RITES		140.00	5560.00	778400.00
					Total	10030446.00
Schedule	Schedule (C7-NON SOR Items, Sub-Work C, TCCS&SIP - Tools				
Item- 1	NON SOR	Items, Sub-Work C, TCCS&SIP - Tools				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply of Ethernet Tester of Stanley Make NETCATPRO2 or Similar. [Detailed Specification in Technical Document] Inspection RITES	Numbers	6.00	57088.00	342528.00
2	2	Supply of OTDR Suitable for 1310/1550nm fibre with Resolution of 60 cm, Dynamic range of 314/29 dB as per tec specification no. g/otd/02-03 march -2009 with additional features and standard accessories as enclosed. firms offer: make: EXFO, model: max 720c[DetailedSpecification in Technical Document] Inspection RITES		6.00	165200.00	991200.00

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with Standard Accessories: ACADAPTER (BATTERY Charger ADC-18 HPC, AC Power Cord ACC-XX: 1PC spars electrode Elect2-20:1 pair carrying case Cc-3 30:1PC USB cable USB-01:1 IPC Sicrewidriver SC-01 + IPC, Instruction manual: 1 PC Guik reference Guide 1PC warning& cautions: 1 PC : BATTERY RACK BRT-09. Battery charger cord DCC-18: 1 PC High precisionFiber cleaner CT-06: 1 PC, 3 In-1 Stripper: 1 PC & Protection seleves: 25nos. (A demo shall be arranged along with supply)[Detailed Specification in Technical Document] Inspection RITES							
Item-1	3	3	with Standard Accessories: ACADAPTER /BATTERY Charger ADC-18 1PC, AC Power Cord ACC-XX: 1PC spare electrode Elect2-20:1 pair carrying case CC-30:1PC USB cable USB-01: 1PC Sleeve loader SL01:1 PC dispenserAP-01: 1 PC screwdriver SC-01 1PC, Instruction manual: 1 PC Quick reference Guide 1PC warning& cautions: 1 PC; BATTERY RACK BRT-09, Battery charger cord DCC-18: 1 PC High precisionFiber cleaner CT-06: 1 PC, 3 in-1 Stripper: 1PC & Protection sleeves: 25nos. (A demo shall be arranged along with supply)[Detailed Specification in				842520.00 2176248.00
Item-1	Schedule	Schedule (C8-NON SOR Items Sub-Work C. TCCS & SIP - Labour	and Traini		100	
S No. Item No Description of Item Unit Qty Rate Amount				and mainin	ig		
1 Supply of PVC Conduit Pipe Minimum 35 mm dia ISI Metre 27200.00 32.38 880736.0				Unit	Otre	Doto	Amount
Mark with suitable couplers, bends. And fixing on the wall/pole, clamping with all required accessories. [Detailed Specification inTechnical Document] Inspection RITES 2 Supply and fixing of PVC Trough/Trunking of 50X50 Metre mm with cover of 2 mm thick 2meach. (This includes all materials, clamps etc required for laying, fixing and clamping). [Detailed Specification in Technical Document] Inspection Consignee 3 Supply of PLB HDPE Duct of Size 40/33 mm Outer Metre and with allAccessories. Installation on Wall or Structure/HDD etc. along with all Accessories required for fixing, Clamping Cutting, as per RDSO Spec No RDSO/SPNTC/45/2013 Rev 2 or latest. Inspection: RDSO 4 Trenching & laying of HDPE Duct in Normal Soil and Metre Blowing of OFC Cable. [Detailed Specification in Technical Document] 5 Breaking of Pucca/Concrete Road, PF Cutting/Wall Metre Cutting, Laying of OFC/Powercable/UTP etc. in Trenches and through all types of protection Viz HDPE/GIRCC Pipes as the casemay be. This includes restoration of the surface and stone paved. 6 Supply of Desk work station furniture, 2 table & 4 Chairs [Detailed Specification in Trenchical Document] Inspection Consignee 7 Supply of Non-Flammable, Anti Rodent DWC Pipes Metre (OD/I/9 90/76 mm minimum) as specification is Te205 with T Joints, sockets/couplers at both ends as per requirements. Supply ofnon-coupler for 6m of DWC pipe and couplers for 30mm of length free of cost. Inspection-RITES 8 Blowing & drawing of OFC 24F/12F/6F Power Cable, Metre Switch Board Cable and CAT Cable (including crimping) through Duct, DWC, PVC Conduit/Casing Caping, Trough already installed. 9 Supply of 10 Way Krone Modules as per specification. Numbers 100.00 147.50 14750.0 Inspection Consignee 10 Training of Staff as per RDSO/SPN/TC/99/2012 Rev.2 Man-Week 11 Training or Personnel over and above the On-Site Man-Training, During the Installation, Maintenance and Week Supervision period as Detailed in the tender document. Defined in Man-Week i.e. One week	5 NO.	item No	<u>'</u>		-		
mm with cover of 2 mm thick 2meach. (This includes all materials, clamps etc required for laying, fixing and clamping). [Detailed Specification in Technical Document] Inspection Consignee 3 Supply of PLB HDPE Duct of Size 40/33 mm Outer Metre and with allAccessories. Installation on Wall or Structure/HDD etc. along with all Accessories required for fixing, clamping Cutting, as per RDSO Spec No RDSO/SPN/TC/45/2013 Rev 2 or latest. Inspection: RDSO 4 Trenching & laying of HDPE Duct in Normal Soil and Blowing of OFC Cable. [Detailed Specification in Technical Document] 5 Breaking of Pucca/Concrete Road, PF Cutting/Wall Metre Cutting, Laying of OFC/Powercable/UTP etc. in Trenches and through all types of protection Viz HDPE/GI/RCC Pipes as the casemay be. This includes restoration of the surface and stone paved. 6 Supply of Desk work station furniture, 2 table & 4 Set Chairs [Detailed Specification in Technical Document] Inspection Consignee 7 Y Supply of Non-Flammable, Anti Rodent DWC Pipes Metre (OD/ID 90/76 mm minimum) as specification IS 16205 with T Joints, sockets/couplers at both ends as per requirements. Supply ofnon-coupler for 6m of DWC pipe and couplers for 30mm of length free of cost. Inspection-RITES 8 Blowing & drawing of OFC 24F/12F/6F Power Cable, Switch Board Cable and CAT Cable (including crimping) through Duct, DWC, PVC Conduit/Casing Caping, Trough already installed. 9 Supply of 10 Way Krone Modules as per specification. Numbers 100.00 147.50 14750.0 110 110 Training of Personnel over and above the On-Site Man- 15.00 23600.00 283200.0 111 11 Training of Personnel over and above the On-Site Man- 15.00 23600.00 283200.0 11 11 11 Training of Personnel over and above the On-Site Man- 15.00 23600.00 283200.0 11 11 11 Training of Personnel over and above the On-Site Man- 15.00 23600.00 283200.0 11 11 11 11 Training of Personnel over and above the On-Site Man- 15.00 23600.00 283200.0 11 11 11 11 11 11 11 11 11 11 11 11 11	1	1	Mark with suitable couplers, bends. And fixing on the wall/pole, clamping with all required accessories. [Detailed Specification in Technical Document]		27200.00	32.38	880736.00
and with allAccessories. Installation on Wall or Structure/HDD etc. along with all Accessories required for fixing, Clamping Cutting, as per RDSO Spec No RDSO/SPN/TC/45/2013 Rev 2 or latest. Inspection: RDSO 4	2	2	mm with cover of 2 mm thick 2meach. (This includes all materials, clamps etc required for laying, fixing and clamping). [Detailed Specification in Technical		5000.00	369.10	1845500.00
Blowing of OFC Cable. [Detailed Specification in Technical Document] 5 Breaking of Pucca/Concrete Road, PF Cutting/Wall Metre Cutting, Laying of OFC/Powercable/UTP etc, in Trenches and through all types of protection Viz HDPE/GI/RCC Pipes as the casemay be. This includes restoration of the surface and stone paved. 6 Supply of Desk work station furniture, 2 table & 4 Set Chairs [Detailed Specification inTechnical Document] Inspection Consignee 7 Supply of Non-Flammable, Anti Rodent DWC Pipes Metre 150.00 118.00 17700.0 (OD/ID 90/76 mm minimum) as specification IS 16205 with T Joints, sockets/couplers at both ends as per requirements. Supply ofnon-coupler for 6m of DWC pipe and couplers for 30mm of length free of cost. Inspection-RITES 8 Blowing & drawing of OFC 24F/12F/6F Power Cable, Metre Switch Board Cable and CAT Cable (including crimping) through Duct, DWC, PVC Conduit/Casing Caping, Trough already installed. 9 Supply of 10 Way Krone Modules as per specification. Numbers 100.00 147.50 14750.0 Inspection Consignee 10 Training of Staff as per RDSO/SPN/TC/ 99/2012 Rev.2 Man-Week 11 Training of Personnel over and above the On-Site Man-Training, During the Installation, Maintenance and Supervision period as Detailed in the tender document. Defined in Man-Week i.e. One week	3	3	and with allAccessories. Installation on Wall or Structure/HDD etc. along with all Accessories required for fixing, Clamping Cutting, as per RDSO Spec No RDSO/SPN/TC/45/2013 Rev 2 or latest. Inspection:		14600.00	89.49	1306554.00
Cutting, Laying of OFC/Powercable/UTP etc, in Trenches and through all types of protection Viz HDPE/GI/RCC Pipes as the casemay be. This includes restoration of the surface and stone paved. 6 Supply of Desk work station furniture, 2 table & 4 Chairs [Detailed Specification inTechnical Document] Inspection Consignee 7 Supply of Non-Flammable, Anti Rodent DWC Pipes (OD/ID 90/76 mm minimum) as specification IS 16205 with T Joints, sockets/couplers at both ends as per requirements. Supply of non-coupler for 6m of DWC pipe and couplers for 30mm of length free of cost. Inspection-RITES 8 Blowing & drawing of OFC 24F/12F/6F Power Cable, Metre Switch Board Cable and CAT Cable (including crimping) through Duct, DWC, PVC Conduit/Casing Caping, Trough already installed. 9 9 Supply of 10 Way Krone Modules as per specification. Inspection Consignee 10 10 Training of Staff as per RDSO/SPN/TC/ 99/2012 Rev.2 Man-Use of Latest 11 Training, During the Installation, Maintenance and Supervision period as Detailed in the tender document. Defined in Man-Week i.e. One week	4	4	Blowing of OFC Cable. [Detailed Specification in		17800.00	172.66	3073348.00
Chairs [Detailed Specification inTechnical Document] Inspection Consignee 7	5	5	Cutting, Laying of OFC/Powercable/UTP etc, in Trenches and through all types of protection Viz HDPE/GI/RCC Pipes as the casemay be. This includes		2860.00	437.33	1250763.80
(OD/ID 90/76 mm minimum) as specification IS 16205 with T Joints, sockets/couplers at both ends as per requirements. Supply ofnon-coupler for 6m of DWC pipe and couplers for 30mm of length free of cost. Inspection-RITES 8	6	6	Chairs [Detailed Specification inTechnical Document]	1	6.00	14760.00	88560.00
Switch Board Cable and CAT Cable (including crimping) through Duct, DWC, PVC Conduit/Casing Caping, Trough already installed. 9 Supply of 10 Way Krone Modules as per specification. Numbers 100.00 147.50 14750.00 Inspection Consignee 10 Training of Staff as per RDSO/SPN/TC/ 99/2012 Rev.2 Man-Week 15.00 23600.00 354000.00 or Latest 11 Training of Personnel over and above the On-Site Man-Week Supervision period as Detailed in the tender document. Defined in Man-Week i.e. One week	7	7	(OD/ID 90/76 mm minimum) as specification IS 16205 with T Joints, sockets/couplers at both ends as per requirements. Supply ofnon-coupler for 6m of DWC pipe and couplers for 30mm of length free of cost.		150.00	118.00	17700.00
Inspection Consignee 10 Training of Staff as per RDSO/SPN/TC/ 99/2012 Rev.2 Man-Week 11 Training of Personnel over and above the On-Site Man-Training, During the Installation, Maintenance and Supervision period as Detailed in the tender document. Defined in Man-Week i.e. One week 12.00 23600.00 283200.	8	8	Switch Board Cable and CAT Cable (including crimping) through Duct, DWC, PVC Conduit/Casing		36495.00	4.72	172256.40
or Latest Or Latest Week 11 Training of Personnel over and above the On-Site Man- Training, During the Installation, Maintenance and Supervision period as Detailed in the tender document. Defined in Man-Week i.e. One week Week 12.00 23600.00 283200.00 Week	9	9		Numbers	100.00	147.50	14750.00
Training, During the Installation, Maintenance and Week Supervision period as Detailed in the tender document. Defined in Man-Week i.e. One week	10	10	-		15.00	23600.00	354000.00
<u> </u>	11	11	Training, During the Installation, Maintenance and Supervision period as Detailed in the tender document. Defined in Man-Week i.e. One week	Week	12.00	23600.00	283200.00
Total 9287368.2						Total	9287368.20

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4. ELIGIBILITY CONDITIONS

Important: All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	For composite works (e.g. works involving more than one distinct component, tenderer must have successfully completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender, or Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender. Note: This work involves 3 distinct Components i.e IP MPLS Network (Rs 28,03,14,591.47/-), Video Surveillance System (Rs 35,67,81,178.5/-), VOIP Based TCCS / SIP Exchange (Rs16,83,11,298.54/-) . The Similar nature of work is as below For IP-MPLS network-Design, supply, configuration, installation and commissioning of a network with IP based Technology having IP-MPLS backbone spread over geographically dispersed ,remote point of Presence site/locations spanning multiple Cities/Towns along with provision of Network Management System for the entire network For Video Surveillance System Design, supply, configuration, installation and commissioning of IP enabled video surveillance system with video management servers, in Federated and multi-tenant Architecture ,spread over geographically dispersed , remote sites /locations spanning multiple towns/cities For VOIP TCCS /SIP Exchanges Design, supply, configuration, installation and commissioning of IP based telephony by Provision of IP server based IP-PBX /SIP exchanges	No	No	Allowed (Mandatory)

Special Financial Criteria

S.No	. Description	Confirmation Required		Documents Uploading
1	The tenderer must have received contractual payments in the previous three financial years and the current financial year up to the date of inviting of tender, at least 150% of the advertised value of the tender. The tenderers shall submit Certificates to this effect which may be an attested Certificate from the concerned department / client or Audited Balance Sheet duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet. Note for 10.2: Client certificate from other than Govt Organization should be duly supported by Form 16A/26AS generated through TRACES of Income Tax Department of India.	No	INο	Allowed (Mandatory)

Submission of Document Verification Certificate

S.No		Confirmation Required		Documents Uploading
1	Please submit a certificate in the prescribed format (please download the format from the link given below) for verification / confirmation of the documents submitted for compliance of eligibility / qualifying criteria. Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certificatio)	No	INο	Allowed (Mandatory)

5. COMPLIANCE

Important: All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

Commercial-Compliance

S.No.	•	Confirmation Required		Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

6. Documents attached with tender

S.No.	Document Name	Document Description
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1	DetailedTechnicalSpec.pdf	Detailed Technical Specifications
2	GCC_July_20201.pdf	GCC 2020
3	Correctionslipsublettingofcontract08072021.pdf	Correction slip 1
4	BidsecurityEMDdeposit301220201.pdf	Bid security Deposit
5	PBG3RBLr.pdf	PBG 3 percent
6	SpecialConditions.docx_1.pdf	Special Conditions of Contract

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: KULDEEP .

Designation: Dy.CSTE/Proj/UBL

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