

Clarification:

TENDER NUMBER: MOICT/SDICT/248/2020-2021

**TENDER FOR PROVISION OF OPERATION AND MAINTENANCE OF
NATIONAL OPTIC FIBER BACKBONE INFRASTRUCTURE PHASE II
(NOFBI II) ACTIVE AND PASSIVE EQUIPMENT**

Lot 1: Eastern Region

Lot 2: Western Region

The clarification is as follows:

SPARE PARTS CLARIFICATION

Clarification for page 57 on Tender Document

c. Active Equipment Spare parts

The bidder shall at any time maintain an inventory of the following equipment spares to ensure availability of enough spare parts for maintenance services. The client shall check the inventory regularly.

NOFBI II ACTIVE EQUIPMENT SPARE PARTS		
Description	Product	Quantity
Fan Box,NE40E&80E,CR52FCBG,Fan Box,Fan Unit	NetEngine40E&80E	2
NetEngine40E,CR52PEMB,48V DC Power Entry Module	NetEngine40E&80E	2
Power Distribution Box,NE40E,DPD300-4-12,48V,1PH,240A,12,PerOutput 80A,Dual 2-Input Dual 6-Output DC Distribution Box	NetEngine40E&80E	1
AC/DC power module--25degC-55degC-90V-264V-12V/10A,-53.5V/7.1A	S23&33&53 Series	3
UPS,3KVA,110V,300V,Single phase input single phase output,0h,Black,220V,220/230/240V,50/60Hz,3K,Long,Rack,IEC,UPS2000-G-3KRTL	UPS2000	3
UPS spare part,UPS External Charger,3K Long-run Model,165-285VAC/40-70Hz/96V/2-10A,300*165*95(mm)/3.1kg	UPS2000	4
OptiX OSN 2500,SSQK01EAFB,Enhanced Subrack	OptiX OSN 2500	2

OptiX OSN 1500,SSR1AFB,Subrack	OptiX OSN 1500A	1
Function Module,R4850G2,EN1MRC5G1A1,1U 3000W Rectifier,Power Only	ETP48400	2
Function Module,NE40E&80E,EP01PBKA,AC Power Box (1600W)	ETP48200	2
Function Module,SMU01C,EN1MMHSM01C,Site Monitor Unit,Without Network function	ETP48150	2
Function Module,SMU02B,EN1MMHSM02B02,Site Monitor Unit	TP48200A	6
UPS Energy Monitor Unit,12V,0.25A,0~55degC,Slot Plug,IP21,23*47*15mm,1-3K UPS Spare Part,Optional Card,SNMP Card,1/1	UPS2000	2
Quidway S9300,LE02G24SA,24-Port 100/1000BASE-X Interface Card(SA,SFP),32K MAC,1*1	S9300	2
Ethernet Switch,CX22ETPB,Extend Channel Card,1*1	S5300	2
S9703,EH1D2MCUAC00,S9703 Main Control Unit A(Optional Clock)	S9700	2
OptiX OSN 3500,SSN3SL16A09,STM-16 Optical Interface Board(L-16.2,LC)	OptiX OSN 3500 II	1
Fan Tray Assembly,SSN1FAN,Subrack Fan Box	OptiX OSN 3500	4
OptiX OSN 1500,SSRE1FAN,Fan Box	OptiX OSN 1500A	2
OptiX OSN 6800,TN11PDU,DC Power Distribution Unit	OptiX OSN 6800	1
OptiX OSN 3800,TN2E1FAN,Fan Box	OptiX OSN 3800	1
OptiX OSN 6800,TN1E1EFI,User Interface Rack	OptiX OSN 6800	1
OptiX OSN 6800,TN1E2FAN,Fan Box	OptiX OSN 6800	1
Fan Box,NetEngine40E,CR52FCBH,Fan Box,Fan Unit	NetEngine40E&80E	1
Fan Tray Assembly,Ethernet switch,EH1M00FBX000,Wide Voltage 74 Fan Box	S9700	1
Power Distribution Unit,DPD100-2-8-3220X4,DC,2*32A+2*20A/2*32A+2*20A	OptiX OSN 3500	1
Distribution Box,MPP3100,IM1W24APD,APD32-2-4 Distribution Box	S7700	1
UPS,V100R001C00SPC500,10kVA,80V~280V,Single phase/Three phase input single phase output,0h,Black,Long,220/230/240V,50/60Hz,Without battery-10K31RTL2F1TLWW	UPS2000	1
Function Module,R4850G1,EN1MRC5G2C3,3000W Rectifier	TP48600B	2
Function Module,ETP4830-A1,ETP4830-A1,System shelf ,110/220Vac single phase OT terminal input ,comprise distribution module	ETP48120	2
Function Module,Data Communication,CR5M3CFD	Quidway S8016	1
Datacom Products,CR0M3GP4U,Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	S9300	3
Switch Products,DP0M0SFP,Optical Transceiver,eSFP,GE,Single-mode Module(1310nm,10km,LC)	S9300	8

Switch Products,LE0M0XSM88,Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	S9300	3
E200E,SU1M1F2F2C,2FE(RJ45)+2FE(RJ45&SFP) Mixed Interface Card	USG2200	1
Assembling Components,RMS-SNMP01A,UPS Monitoring Module,UPS2000- Selective Module,SNMP Card	UPS2000	2
Ethernet Switch,CX7E1FANA,Fan Assembly	S3300	4
Assembling Components,S5731-H24T4XC,S5731-H24T4XC,S5731-H24T4XC (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 1*expansion slot, without power module)	S5700	1
Electric power distribution cabinet -ETP4890-A2-220V-50/60HZ-39000mA-2U subrack -110/220Vac single / three-phase OT terminal input - includes power distribution module	ETP48120	1
OptiX OSN 3800,TN21PIU,Power Interface Board,1*1	OptiX OSN 3800	2
OptiX OSN 6800,TN11EFI,EMI Filter Interface Board,1*2	OptiX OSN 6800	1
Manufactured Board,OptiX OSN 3500,SSN4GSCC,System Control and Communication Board,1*1	OptiX OSN 3500	1
OptiX OSN 2500,SSQ1PIUA,Power Interface Board,1x4 Assembled Board	OptiX OSN 2500	2
OptiX OSN 6800,TN11PIU02,Power Interface Unit,1*2	OptiX OSN 6800	1
OptiX OSN 3500,SSN4SL64,STM-64 Optical Interface Board,1x1 Assembled Board	OptiX OSN 3500	1
OptiX OSN 3500,SSN4EGS4,4-port Gigabit Ethernet Switching Processing Board,1x1 Assembled Board	OptiX OSN 3500	2
OptiX OSN 3500,SSN3EGS2,2-port Gigabit Ethernet Switching Processing Board,1x1 Assembled Board	OptiX OSN 3500	1
OptiX OSN 3500,SSN1GXCSA02,General Cross-connect and Synchronous Timing Board,2*1 Assembled Board	OptiX OSN 3500	1
OptiX OSN 1500,SSR1PCXLN,STM-1/4/16 System Control,20G TDM and 8G Packet Switching,Optical Interface Board,1x1 Assembled Board	OptiX OSN 1500A	5
S9300,LE03MCUA,S9303 Main Control Unit A,(Optional Clock),1*1	S9300	1
OptiX OSN 3500,SSN4SLQ16,4xSTM-16 Optical Interface Board,1x1 Assembled Board	OptiX OSN 3500	1
OptiX OSN 3500,SSN1AFB05,Advanced Fixed Board,1x1 Assembled Board	OptiX OSN 3500	1
OptiX OSN 3500,SSN4SLD64,2xSTM-64 Optical Interface Board,1x1 Assembled Board	OptiX OSN 3500	1
OptiX OSN 3500,SSN1SEP102,8*STM-1 process board,1*1 Assembled Board	OptiX OSN 3500	1
OptiX OSN 3500,SSN6GSCC,System Control and Communication Board,1x1 Assembled Board	OptiX OSN 3500	2
OptiX OSN 3500,SSN1PIUB,Power Interface Unit,1*2	OptiX OSN 3500	2
OptiX OSN 1500,SSR2EFT4,4-Port 10M/100M Ethernet Transparent Transmission Processing Board,1x2 Assembled Board	OptiX OSN 1500A	2

OptiX OSN 3500,SSN2EFT8A,8-Port 10M/100M Ethernet Transparent Transmission Processing Board,1x1 Assembled Board	OptiX OSN 3500	1
OptiX OSN 1500,SSR1SL103,1xSTM-1 Optical Interface Board,1*2	OptiX OSN 1500A	1
OptiX OSN 3500,SSN3EAS2,2-port 10Gigabit Ethernet Switching Processing Board,1*1 Assembled Board	OptiX OSN 3500	1
S5700,ES510G4S,4-Port GE SFP Optical Interface Card(Used In EI Series),4*1	S5700	2
Manufactured Board,SMUA20,PW31CMAA,Power Monitor Board	TP48600B	1
Manufactured Board,Optix OSN 3500,SSN3PSXCSA,Super dual-plane cross-connect and synchronous timing board,1*1 assembled board	OptiX OSN 3500	1
Manufactured Board,UIM02C,EN21DETA,User Interface Board,Indoor protection specifications	TP48300B	2
Manufactured Board-TP48300B-EN21AFBA01-Two level of shutting down electricity in System detect black board	TP48300B	1
OptiX OSN 1500,SSR1PL1A02,16xE1 Service Processing Board(75ohm)1*1 Assembled Board	OptiX OSN 1500	1
OptiX OSN 1500,SSR1PL1B02,16xE1 Service Processing Board(120ohm)1*1 Assembled Board	OptiX OSN 1500A	1
Manufactured Board,OptiX OSN 3500,SSN2PQ1A03,63xE1 Service Processing Board(E1/75ohm),1*1	OptiX OSN 3500	2
Manufactured Board,OptiX OSN 3500,SSN2PQ1B03,1*1	OptiX OSN 3500	1
OptiX OSN 3500,SSN3SL16A12,STM-16 Optical Interface Board(SFP),1x1 Assembled Board	OptiX OSN 3500	1
Manufactured Board, ETP4890-A2, EN11PDBC,ETP4890-A2 User Power distribution Board,1*1	ETP48150	1
Manufactured Board,SMU06C,EN21CTLH,Power monitor board,1*1	TP48300B	1
Manufactured Board,TP48600B,EN21DETH,Rectifier hardware address board,3*2	TP48600B	2
Manufactured Board,OptiX OSN 2500,SSQ2SAP02,System Auxiliary Process Board,1*1	OptiX OSN 3500	1
OptiX OSN 1500,SSR1AFB,Advanced Fixed Board,1x1 Assembled Board	OptiX OSN 1500A	1
OptiX OSN 3500,SSN1D75S,32xE1/T1 Electrical Interface Switching Board(75 Ohm),2*1 Assemble Board	OptiX OSN 3500	3
OptiX OSN 3500,SSN1D12S,32xE1/T1 Electrical Interface Switching Board(120 Ohm),2*1 Assembled Board	OptiX OSN 3500	1
OptiX OSN 2500,SSQ1AFB,Advanced Fixed Board,1x1 Assembled Board	OptiX OSN 2500	1
OptiX OSN 2500,SSQ1SEI,Signal Extend Interface Board,1*6 Assembled Board	OptiX OSN 2500	1
OptiX OSN 3500,SSN1EU04,4xSTM-1 Electrical Interface Board,1*1 Assembled Board	OptiX OSN 3500	1

OptiX OSN 3500,SSN1SF1601,STM-16(out-of-band FEC)Optical Interface Board(Ue-16.2C&D&F,LC)	OptiX OSN 3500	1
OptiX OSN 2500,SSQ2SAP01,System Auxiliary Process Board	OptiX OSN 3500	1
OptiX OSN 3500,SSN1IXCSA01,Infinite Cross-connect and Synchronous Timing Board(Without Extended Subrack)	OptiX OSN 3500	1
OptiX OSN 6800,TN11CRPC01,C Band Backward Raman Processing Board,With Los Detection	OptiX OSN 6800	1
OptiX OSN 6800,TN11D4001,40-channel Demultiplexing Board(C Even,196.00THz~192.10THz,100GHz,Thermal AWG,LC)	OptiX OSN 6800	1
OptiX OSN 6800,TN11WSMD401,4-Port Wavelength selective multiplexing and Demultiplexing board (C_Even,196.00THz~192.10THz,100GHz,LC)	OptiX OSN 6800	1
OptiX OSN 3500,SSN2BPA01,Optical Booster & Pre-amplifier Board(-38dBm~-10dBm,22dB~33dB;-6dBm~+3dBm,14dBm,LC)	OptiX OSN 3500	1
Finished Board,OptiX OSN 6800,TN13FIU01,Fiber Interface Board	OptiX OSN 6800	1
OptiX OSN 3800,TN22AUX01,System Auxiliary Interface Board	OptiX OSN 3800	1
OptiX OSN 6800,TN11DCU01,Dispersion Compensation Unit(A,20km,for G.652)	OptiX OSN 6800	1
OptiX OSN 6800,TN11DCU02,Dispersion Compensation Unit(B,40km,for G.652)	OptiX OSN 6800	1
OptiX OSN 6800,TN11DCU03,Dispersion Compensation Unit(C,60km,for G.652)	OptiX OSN 6800	1
OptiX OSN 6800,TN11DCU04,Dispersion Compensation Unit(D,80km,for G.652)	OptiX OSN 6800	1
OptiX OSN 6800,TN11DCU05,Dispersion Compensation Unit(E,100km,for G.652)	OptiX OSN 6800	1
OptiX OSN 6800,TN11DCU06,Dispersion Compensation Unit(F,120km,for G.652)	OptiX OSN 6800	1
NetEngine80E,CR52EBGFB1,12-Port 100/1000Base-X-SFP Flexible Card B(P20-B)	NetEngine40E&80E	2
OptiX OSN 3800,TN22SCC01,System Control and Communication Board	OptiX OSN 3800	1
OptiX OSN 3500,SSN3SL16A05,STM-16 Optical Interface Board	OptiX OSN 3500 II	2
OptiX OSN 6800,TN12SC101,Unidirectional Optical Supervisory Channel Board	OptiX OSN 6800	1
OptiX OSN 6800,TN12SC201,Bi-directional Optical Supervisory Channel Board	OptiX OSN 6800	2
NetEngine80E,CR52L4XX0,4-port 10GBase WAN/LAN-XFP Flexible Card(Occupy two sub-slots)	NetEngine40E&80E	2
NetEngine80E,CR52LPUKD0,Flexible Card Line Processing Unit(LPUF-21,2 sub-slots) A (L3VPN,MVPN,IPv6 Enhanced)	NetEngine40E&80E	3
NetEngine80E,CR52EBGFB0,12-Port 100/1000Base-SFP Flexible Card A(Supporting 1588v2)	NetEngine40E&80E	1

OptiX OSN 6800,TN12LDX01,2x10G bit/s Wavelength Conversion Board	OptiX OSN 6800	1
Finished Board,NetEngine40E,CR57SRU40A4,Switch and Route Processing Unit A4	NetEngine40E&80E	1
NetEngine40E,CR57SFU40C0,40Gbps Switch Fabric Unit C	NetEngine40E&80E	1
OptiX OSN 3500II,SSQ5CXLLN,STM-1/4/16 System Control,Cross-connect,Optical Interface Board	OptiX OSN 3500 II	2
OptiX OSN 3800,TN21DFIU01,Bidirectional Fiber Interface Board	OptiX OSN 3800	1
NetEngine80E,CR52LPUF40A,Flexible Card Line Processing Unit(LPUF-40,2 sub-slots) A (L3VPN,MVPN,IPv6 Enhanced)	NetEngine40E&80E	2
OptiX OSN 6800,TN12OBU103,C-BAND Optical Booster Unit(MAX -3dBm IN and 20dBm OUT,Gain 23dB)	OptiX OSN 6800	1
OptiX OSN 6800,TN12OBU104,C-BAND Optical Booster Unit(MAX -1dBm IN and 16dBm OUT,Gain 17dB)	OptiX OSN 6800	1
OptiX OSN 8800,TN52SCC01,System Control and Communication Board	OptiX OSN 8800	2
OptiX OSN 6800,TN12LOMT01,8 port Multi Service Multiplexing & Optical Wavelength Conversion Board(AFEC,Tunable),50GHz(800ps/nm,Rx1_PIN,Tx1_-3dBm~2dBm,LC)	OptiX OSN 6800	1
OptiX OSN 6800,TN11OPM801,8-channel Optical Power Monitor Board	OptiX OSN 6800	2
NetEngine40E,CR57L4XXA0,4-port 10GBase LAN/WAN-XFP Flexible Card(P40,Occupy one sub-slot)	NE40E	1
NetEngine40E,CR52EEGFB1,20-Port 100/1000Base-X-SFP Flexible Card B(P40-B)	NetEngine40E&80E	1
OptiX OSN 6800,TN13OAU101,C-BAND Optical Amplifier Unit(MAX 0dBm IN and 20dBm OUT,Gain 20~31dB)	OptiX OSN 8800	1
OptiX OSN 6800,TN12M40V01,40-Channel Multiplexing Board With VOA(C_Even,196.00THz~192.10THz,100GHz,LC)	OptiX OSN 8800	1
Finished Board,OptiX OSN 3500,SSN1SF16E01,STM-16(out-of-band FEC)Optical Interface Board	OptiX OSN 3500	1
OptiX OSN 6800,TN13OAU103,C-BAND Optical Amplifier Unit(MAX -4dBm IN and 20dBm OUT,Gain 24~36dB)	OptiX OSN 6800	1
OptiX OSN 6800,TN13OAU105,C-BAND Optical Amplifier Unit(MAX 0dBm IN and 23dBm OUT,Gain 23~34dB)	OptiX OSN 6800	1
S9700,EH1D2G24SSA0,24-Port 100/1000BASE-X Interface Card(SA,SFP),32K MAC	S9700	3
OptiX OSN 6800,TN14FIU01,Fiber Interface Board	OptiX OSN 6800	2
OptiX OSN 6800,TN14LSXT02,10Gbit/s Wavelength Conversion Board(AFEC,Tunable),50GHz(1200ps/nm,Rx1_PIN,Tx1_-3dBm~+2dBm,LC)	OptiX OSN 6800	1
Finished Board,OptiX OSN 6800,TN12RAU106E,C-BAND Backward Raman and Erbium Doped Fiber Hybrid Optical Amplifier Unit(MAX 1dBm LINE IN and MAX	OptiX OSN 6800	3

20dBm OUT,Gain 19~33dB for G.652,with fiber monitor interface)		
OptiX 2500+,SS62COA01,Case-shape Raman Optical Amplifier	OptiX 2500+(Metro 3000)	1
OptiX OSN 3500,SSN1AUX01,System Auxiliary Interface Board	OptiX OSN 3500	1
OptiX OSN 3500,SSN1BA201,Dual Booster Amplifier Board(-6dBm~+3dBm,14dBm,LC)	OptiX OSN 3500	1
OptiX OSN 3500,SSN1BA202,Dual Booster Amplifier Board(-6dBm~+3dBm,17dBm,LC)	OptiX OSN 3500	1
OptiX OSN 3500,SSN1BA203,Booster Amplifier Board(-6dBm~+3dBm,14dBm,LC)	OptiX OSN 3500	1
OptiX OSN 3500,SSN1BA204,Booster Amplifier Board(-6dBm~+3dBm,17dBm,LC)	OptiX OSN 3500	1
OptiX OSN 3500,SSN1BPA02,Optical Booster & Pre-amplifier Board(-38dBm~-10dBm,22dB;-6dBm~+3dBm,17dBm,LC)	OptiX OSN 3500	2
OptiX 2500+,SS6M1COA,Case-shape Raman Optical Amplifier	OptiX OSN 2500	1
OptiX OSN 1500,SSR2AUX01,System Auxiliary Interface Board	OptiX OSN 1500A	1
OptiX OSN 3500,SSN1RPC0201,C Band Backward Raman Processing Board,With Los Detection	OptiX OSN 3500	1
OptiX OSN 3500,SSN1RPC0101,C Band High Power Forward Raman Processing Unit	OptiX OSN 3500	1
OptiX OSN 3500,SSN3EGS211,2-port Gigabit Ethernet Switching Processing Board(1000BASE-LX,1310-LC)	OptiX OSN 3500	1
OptiX OSN 3500,SSN4EGS411,4-port Gigabit Ethernet Switching Processing Board(1000BASE-LX,1310-LC)	OptiX OSN 3500	2
OptiX OSN 3500II,SSQ5CXLL1602,STM-16 System Control,Cross-connect,Optical Interface Board(S-16.1,LC)	OptiX OSN 3500 II	2
OptiX OSN 3500II,SSQ5CXLL1604,STM-16 System Control,Cross-connect,Optical Interface Board(L-16.2,LC)	OptiX OSN 3500 II	2
OptiX OSN 3500,SSN3SL16A07,STM-16 Optical Interface Board(S-16.1,LC)	OptiX OSN 3500 II	1
OptiX OSN 3500,SSN4SLD6402,2xSTM-64 Optical Interface Board(S-64.2b,LC)	OptiX OSN 3500	1
OptiX OSN 3500,SSN4SL6402,1xSTM-64 Optical Interface Board(S-64.2b,LC)	OptiX OSN 3500	1
OptiX OSN 3500,SSN3SL16A10,STM-16 Optical Interface Board(U-16.2,LC)	OptiX OSN 3500	2
OptiX OSN 3500,SSN1SLQ1A22,4xSTM-1 Optical Interface Board(S-1.1,LC)	OptiX OSN 3500	1
OptiX OSN 3500,SSN1SLD4A20,2xSTM-4 Optical Interface Board(S-4.1,LC)	OptiX OSN 3500	1

OptiX OSN 3500,SSN1SL1A20,STM-1 Optical Interface Board(S-1.1,LC)	OptiX OSN 3500	1
OptiX OSN 1500,SSR1SL115,1xSTM-1 Optical Interface Board(S-1.1,LC)	OptiX OSN 1500A	1
NetEngine40E,CR52MPUD2,Main Processing Unit D2(Including 2G Memory and 2G USB)	NetEngine40E& 80E	7
OptiX OSN 3500,SSN3SL16A11,STM-16 Optical Interface Board(U-16.2,LC)	OptiX OSN 3500	1
Finished Board Unit,OptiX OSN 3500II,SSQ5CXLL1606,STM-16 System Control,Cross-connect,Optical Interface Board(S-16.1,LC)	OptiX OSN 3500 II	4
Finished Board Unit,OptiX OSN 3500II,SSQ5CXLL1608,STM-16 System Control,Cross-connect,Optical Interface Board(L-16.2,LC)	OptiX OSN 3500 II	1
Finished Board Unit,OptiX OSN 3500,SSN3SL1609,STM-16 Optical Interface Board(L-16.2JE,LC)	OptiX OSN 3500	2
Finished Board Unit,OptiX OSN 3500,SSN3SL1608,STM-16 Optical Interface Board(V-16.2Je,LC)	OptiX OSN 3500	1
External Power Cable,20m,5.2mm ² ,PANTONE Warm Gray 1U,D3F-2S,10UL2517(2C)PWG1U,Metro 3100	OptiX OSN 3500	1
Power Cords Cable, AC Power 250V10A,3.0m,PISM,227IEC53-1.0 ² (3C),C13SF,Black	S9300	1
Trunk Cable,-45deg,20m,120ohm,8E1,0.4mm,D44M-I,2*120CC8P0.4P430U(S)	OptiX OSN 3500	1
Trunk Cable,-45deg,30m,120ohm,8E1,0.4mm,D44M-I,2*120CC8P0.4P430U(S)	OptiX OSN 3500	1
Trunk Cable,20m,75ohm,8E1,2.2mm,D44M-I,SYFVZP75-1.2/0.25*16(S)-I,-45deg	OptiX OSN 3500	1
Trunk Cable,30m,75ohm,8E1,2.2mm,D44M-I,SYFVZP75-1.2/0.25*16(S)-I,-45deg	OptiX OSN 3500	1
NTC,10000ohm,Negative Temperature Coefficient,Cable Installation,600mm,2.5mm Common Signal Contact	TP483000D	1

Note: It is the bidders responsibility to ensure they have ALL the required spares available.