

Clarification No.1 to Tender No. NDCL/BTD/05/072-73 for Supply, Delivery and Supervision for Installation of IP/MPLS Optical Transmission Equipment for Spur Network

5. No.	Section, Chapter	Clause Number	Particulars of Nepal Telecom's Requirement	Queries	NT's Response	Bidder's Compliance (FC/PC/NC)
1	Section III: Instructions to Bidders (ITB)	16.2.7	Certificate The Manufacturer shall be MEF CE 2.0 Certified. The Manufacturer shall submit All the goods under the Contract shall be delivered in a single lot. The goods shall be delivered by Sea and upto the Regional Stores of Nepal Telecom as mentioned in Section VI: Schedule of Requirement (SOR) and VII: Schedule Of Prices (SOP).	Please kindly clarify: shall the offered IP/MPLS equipment be CE 2.0 certified?	Please refer to the S.No.2 of Amendment No. 1.	
2	SECTION IV Conditions of Contract (COC)	5.1		We suggest that partial shipments should be allowed and acceptable	There is no change in the requirements of tender clause.	
3	Section VI: Schedule of Requirement (SOR)	S.No.1.1	4*IP/MPLS Transmission Equipment required at the site: TTC Test Bench	1 Rack/1 Equipment Or 1 Rack/2 Equipment ?	Please supply as per SOR with 1Rack/1 Equipment.	
4	Section VI: Schedule of Requirement (SOR)	S.No.:1.1.1	4x10G Optical Interface Card	2 x2*10G-Interface-Card OK?	If it meets all the technical requirements and clause no. 2.13.5 (S.No.4 of Amendment No. 1) of Chapter 2 (Equipment Details) then it is acceptable.	
5	SECTION VI Schedule of Requirement (SOR), Goods	S.No.:1.1.2	E1 Interface (75 Ohm) per unit of Equipment	There are just 33 sites having E1 interface (75 Ohm) per unit of equipment, does this mean that only 33 sites need DDF module and the other 33 sites don't need DDF module?	Please provide as per SOR.	
6	Section VI: Schedule of Requirement (SOR), Goods	S.No.:1.1.3	2xSTM-1(S 1.1) Interface Card	8*STM-1 Interface Card OK?	Please refer to S.No. 1.1.3 of SOR.	
7	Section VI: Schedule of Requirement (SOR), Goods	S.No.:1.1.4	48xGE SFP Based Optical Interface Card	3 x16*GE-Interface Card OK?	The GE card shall have either 48 ports or 24 ports. Please refer to S.No. 1.1.4 of SOR.	
8	Section VI: Schedule of Requirement (SOR), Goods	S.No.:1.1.5	24xGE SFP Based Optical Interface Card	3 x8*GE-Interface Card OK?	The GE card shall have either 48 ports or 24 ports. Please refer to S.No. 1.1.5 of SOR.	



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9	SECTION VI Schedule of Requirement (SOR), Goods	S. No. 1.1.1 1.1.4 1.1.5	4x10G Optical Interface Card 48x GE SFP Based Optical Interface Card 24xGE SFP Based Optical Interface Card	Do we need separate card for 4x10G and GE interface or both of them can be in a single Card?	Separate cards need to be provided.	
10	SECTION VI Schedule of Requirement (SOR), Goods	S.No. 3.2	ODF Racks (Door closed type with adjustable base from 25 - 40 cm having space for one OTB, one DDF for 16 E1 and two ODF Modules each of 72 ports) as per Technical Specification and requirement – Lot	Does the ODF racks (door closed type with adjustable base from 30-40cm) acceptable?	Please provide as per the description in S.N. 3.2 of SOR (Goods).	
11	SECTION VIII CHAPTER 1: GENERAL REQUIREMENTS	1.4.6	The offered equipment shall operate on both 1310 nm and 1550 nm optical windows.	Whether the single optical module need to support both 1310nm and 1550nm at the same time? Please clarify	The offered equipment shall operate on both 1310 nm and 1550 nm optical windows. But optical module used in the interface shall support either 1310nm or 1550nm.	
12	Section VIII CHAPTER-1	1.10	The supplier shall provide two sets of complete documentation (Hard copy) and Two sets of CD-ROMs	In SOR, required 6 sets of hard copy. 2 Sets or 6 sets, which one correct?	Please provide as per SOR.	
13	SECTION VIII CHAPTER-2	2.1.4	The offered equipment shall support Radius, Diameter & TACACS+ mechanism for user management.	The offered equipment shall support Radius/Diameter & TACACS+ mechanism for user management.	The offered equipment shall support Radius/Diameter & TACACS+ mechanism as per S.No. 5 of Amendment No. 1.	
14	SECTION VIII CHAPTER-2 Equipment Details	2.3.1	The nodes in the Ring shall have built-in capability for Protection Mechanisms as stated below for 50 ms restoration requirement. 1) MPLS a. 1+1 tunnel protection b. 1:1 tunnel protection c. Reroute protection d. Fast reroute (FRR) protection	Disadvantage of 1+1 tunnel protection is double flow, that means double occupancy network bandwidth, so it is rarely used and mainly used in MPLS-TP network. NT's requirement is IP-MPLS network so the tunnel protection should be 1:1.	Please refer to clause no. 2.3.1 of Chapter 2: Equipment Details	
15	SECTION VIII CHAPTER-2	2.7.4	There shall be no constraints on the specified number of VLAN tags of the proposed equipment that can be configured on an interface.	Kindly delete. There should be a maximum limit on number VLANs supported in a system. This is OEM Specific. Kindly delete.	The offered system shall support upto 4k VLAN ID as per S.No.6 of Amendment No. 1.	



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16	SECTION VIII CHAPTER-2	2.10.1	The offered equipment shall have E1 support unframed/PCM30/PCM31 framing mode and channelized STM-1.	Kindly change it to "The offered equipment shall have E1 support and support for STM-1."	The offered equipment shall support unframed E1 and channelized STM-1.	
17	SECTION VIII CHAPTER-2	2.10.3	The offered equipment shall have support for TDM mux/demux features and cross-connection on AU4, VC12, E1 level.	This is not a router specs and it is related to optical specs and hence request you to kindly delete this from the router specification.	System Shall be Capable for full fledged configuration of required TDM configuration on AU4, VC12, E1 level. No need to provide separate	
18	SECTION VIII CHAPTER-2	2.10.5	The offered equipment shall support CESOPSN/SATOP pseudo wire encapsulation. Refer IETF-RFC 4553, RFC-	Kindly remove RFC-4842	The offered equipment shall support CESOPSN/SATOP pseudo wire encapsulation.	
19	SECTION VIII CHAPTER-2	2.11.1	The offered equipment shall support SyncE, 1588v2, SNTP & PTP (Precision Time Protocol) protocol.	Kindly change it to "The offered equipment shall support SyncE, 1588v2, SNTP/NTF & PTP (Precision Time Protocol) protocol".	The offered equipment shall support SyncE, 1588v2, SNTP/NTF & PTP (Precision Time Protocol) protocol as per S.No.7 of	
20	Section VIII CHAPTER-2 Clause 2.12.1	2.12.1	Minimum service Slots/Semi slots : 6 (Each slot/semi slot supporting minimum 40 Gbps Full Duplex)	We can provide one equip. Which has 8 service slots, 20Gbps/slot. Comply all the technical requirements, but much cheaper. Is NT insist 40Gbps/slot? Or can accept lower slot switching capacity?	Please refer to clause no. 2.12.1 (S.No. 3 of Amendment No.1) of Section VIII TECHNICAL SPECIFICATION.	
21	SECTION VIII CHAPTER-2	2.12.2	Minimum Switching Capacity Per chassis: 480 Gbps (Bi - Directional)	Minimum Switching Capacity Per chassis: 400 Gbps (400Gbps in and 400 Gbps out) redundant solution. 400 Gbps should be available in case of one CPU/routing engine failure.	Please refer clause no. 2.12.2	
22	Section VIII CHAPTER-2 Clause 2.13.1	2.13.1	All the offered IP/MPLS Transmission Equipments (total 66 nodes as per SOR) must have same chassis and same switching capacity.	We can provide 33 smaller size equip and 33 bigger size, this combination enables lowest cost and comply all the technical requirements. Is NT insist all offered equip shall have same size?	All the offered IP/MPLS Transmission Equipments (total 66 nodes as per SOR) must have same chassis and same switching capacity.	



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23	SECTION VIII CHAPTER-2 Equipment Details	2.13.3	Bidder shall provide separate cards for 2xSTM-1 interface and 16 E1 interface.	As per SOR, there are no sites that STM-1 interface and E1 interface are required at the same time (Either STM-1 or E1 interface are required). 1. Can we understand site-wise required STM-1 interface in SOR can be provided via one card? And Same understanding for E1 (Site-wise required E1 interface in SOR can be provided via one card)? 2. Separate cards means cards on different semi-slot, or different Slot?	1. Please provide as per SOR. 2. Separate cards means cards in different slots or different semi-slots as per S.No.3 of Amendment No. 1. Please Refer Figure No. 1.	
24	SECTION VIII CHAPTER-2 Equipment Details	2.13.4	Bidder shall provide separate cards for 4x10G interface in each station.	1. Separate cards means cards on different semi-slot, or different slot? 2. Required 10G interface separated onto different semi-slot (per sub-card per semi-slot) but on the same slot (per processing/mother card per slot) is acceptable or not for Nepal	1. Separate cards means card on different slots or different semi-slots. Please refer to Figure No. 1. 2. A Single card as a processor/control and service is not acceptable.	
25	Section VIII CHAPTER-3 Clause 3.1.1	3.1.1	The NMS server shall be UNIX/Linux/Windows-based server (fault tolerant with disk mirroring).	Which brand more prefer? Lenovo Or DELL?	Please refer to clause no. 3.1.1, Technical specification.	
26	Section VIII CHAPTER-3 Clause 3.1.1	3.1.1	The NMS server shall be UNIX/Linux/Windows-based server (fault tolerant with disk mirroring).	Need Server Rack and Printer?	As per the technical requirement mentioned in clause no: 3.1.1 and SOR.	
27	Section VIII CHAPTER-3 Clause 3.1.1	3.1.1	The NMS server shall be UNIX/Linux/Windows-based server (fault tolerant with disk mirroring).	For power cord & wiring board, which standard? -European Standard -American Standard -British Standard -South African Standard	As per the technical requirement mentioned in Section VIII TECHNICAL SPECIFICATION Clause 3.1.1.	
28	Section VIII CHAPTER-3 Clause 3.1.3	3.1.3	The bidder shall provide six units of latest Laptop Computers for Local Craft Terminal (LCT) application with all the accessories	For power cord, which standard? -European Standard -American Standard -British Standard -South African Standard	As per the technical requirement mentioned in Section VIII TECHNICAL SPECIFICATION Clause 3.1.3.	
29	SECTION VIII CHAPTER-3	3.2.16	Two core processor of at least 3.06 GHZ with at least 1066MHz Front Side Bus	Please delete "at least 1066MHz Front Side Bus."	Quad core processor of at least 3.06 GHz as per S.No. 8 of Amendment No.1	



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30	SECTION VIII CHAPTER-3	3.2.16	Shall have at least 4x146GB HD storage capacity of at least 15K rpm. The proposed server shall be supplied with RAID5 configured HDD (SATA Drives).	146 GB HD is no more available. PIs change it to "Shall have at least 4x300GB HD storage capacity of at least 15K rpm. The proposed server shall be supplied with RAID5 configured HDD (SATA Drives)."	Higher Storage capacity is acceptable.	
31	SECTION VIII CHAPTER-3	3.2.16	The proposed server shall be provided with the standard DVD R/W drive and a tape drive.	The proposed server shall be provided with the standard internal/external DVD R/W drive/tape drive.	The proposed server shall be provided with the standard DVD R/W drive as per S.No. 9 of Amendment No. 1.	
32	SECTION VIII CHAPTER-3	3.4.2	The application software shall also have inbuilt capability for Command Line Interface (CLI).	CLI is a feature of router and is not a feature of NMS. Request you to pls delete this line from the specs.	CLI means UNIX Shell or Windows command line interface for NMS.	
33	SECTION VIII CHAPTER-4 INSTALLATION MATERIAL AND TOOLS	4.6	CABLE, CABLE LADDER AND ACCESSORIES vi. 10m length LC/PC-FC/PC : 80 pcs vii. 15m length LC/PC-FC/PC: 32 pcs viii. 20m length LC/PC-FC/PC : 32 pcs ix. 3m length FC/PC-FC/PC : 10 pcs x. 5m length FC/PC-FC/PC : 50 pcs xi. 10m length FC/PC-FC/PC : 50 pcs xii. 15m length FC/PC-FC/PC : 14 pcs xiii. 20m length FC/PC-FC/PC : 20 pcs	What is the technical requirement of the cable ladder? Including the width, length and material requirements. Whether each site need a set of cable ladder? As per SOR, totally need 2756 Optical Modules, so need 5512 patch cords. Shall we follow 4.6 or SOR? If follow SOR, what's the type of patch cord, LC-FC?	Please refer SOR.	
34	SECTION VIII CHAPTER 4: CABLE, CABLE LADDER & ACCESSORIES	4.6	In the section 'CABLE, CABLE LADDER & ACCESSORIES' it is mentioned that "The installation material to be supplied for each station",	The number of optical cables mentioned on point vi. Up to xiii. (and here below) are per station? Or is already a total? Please Clarify vi. 10m length LC/PC-FC/PC : 80 pcs vii. 15m length LC/PC-FC/PC: 32 pcs viii. 20m length LC/PC-FC/PC : 32 pcs ix. 3m length FC/PC-FC/PC : 10 pcs x. 5m length FC/PC-FC/PC : 50 pcs xi. 10m length FC/PC-FC/PC : 50 pcs xii. 15m length FC/PC-FC/PC : 14 pcs xiii. 20m length FC/PC-FC/PC : 20 pcs	The installation material to be supplied for each station . Please provide as per Section VIII TECHNICAL SPECIFICATION Clause 4.6.	



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35	SECTION VIII CHAPTER 4: CABLE, CABLE LADDER & ACCESSORIES	4.6 xxi.	One Wall Mounted DC-Distribution Box shall be supplied with the following specifications: Min. of 12 connection points 250 Amp HRC Main Fuse – 1 pc 100 Amp HRC Fuse – 1 pc 63 Amp HRC Fuse – 1 pcs 32 Amp HRC Fuse – 2 pcs 16 Amp HRC Fuse – 4 pcs 10 Amp MCB Fuse – 4 Pcs	has the DC-Distribution Box to include the AC/DC converter or only fuse and Distribution points? Please clarify	DC- Distribution Box only with HRC Fuse/MCB and Distribution points as per SOR.	
36	SECTION VIII CHAPTER-6. SPARES	6.3.4	10 GE XFP (10km, 40km, & 80 Km)	Besides traditional XFP type 10G optical module, new generation SFP+ type 10G optical module which is more compact than XFP is also widely used. Can we propose SFP+ type 10G optical modules in our offer?	SFP+ having same capacity and specification as of XFP as per SOR is acceptable.	
37	SECTION VIII SOR And Annexes	Annex 3	List Of Tools in Tools Set	To Supply suitable models, is it possible to provide more specification & picture for each tool?	Please provide as per Annex 3.	



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