

## Local Area Network (LAN) Items

S.No.	Part no	Product
<b>PASSIVE COMPONENT</b>		
<b>UTP Components CAT 5 E</b>		
1.1	106836950	Supply of cable , Enhanced UTP CAT 5
1.2	108208919	Supply of 24 port Patch Panel, Enhanced CAT 5
1.3	107132664	Wire Manager /Patch Chord minder panel
1.4	108232737, 107984007, 107065583	Information Outets Enhanced CAT 5
1.5		Patch Cord,Enhanced CAT 5 with option for colour-Grey,Blue,Red & Green & Cross over cable
a	CPC 6642-03F003	Length-3 feet
b	CPC 6642-03F007	Length-7 feet
c	CPC 6642-03F009	Length-10 feet
<b>Fiber Component:</b>		
<b>Fiber Optic indoor Distribution Cable Multi mode(MM)</b>		
1.6		4 Fibers mm
a	700203060	4 Fibers mm
b	700203078	6 Fibers mm
c	700203086	8 Fibers mm
d	700203086	12 Fibers mm
<b>Fiber Optic indoor Distribution Cable Multi mode(MM)</b>		
1.7		4 Fibers mm
a	760002469	4 Fibers mm
b	760002477	6 Fibers mm
c	760002485	8 Fibers mm
d	760002485	12 Fibers mm
<b>Fiber Optic Outdoor Armoured Cable Multi mode (MM), 850nm laser optimized (OC)</b>		
1.8		4 Fibers mm
a	760002469	4 Fibers mm
b	760002477	6 Fibers mm
c	760002485	8 Fibers mm
d	760002485	12 Fibers mm
<b>Fiber Optic Outdoor Armoured Cable Multi mode (SM)</b>		
1.9		4 Fibers mm
a	760002253	4 Fibers mm
b	760002261	6 Fibers mm
c	760002279	8 Fibers mm
d	760002279	12 Fibers mm
<b>Optical Fiber Connectors SC Type , Epoxyles</b>		
1.10		50/125 micron MM fiber
a	700007024	50/125 micron MM fiber
b	700006976	9.2/125 micron SM fiber
1.11	760003814	Optical Fiber Patch Cord ,MM , SC to SC
1.12	108510066	Optical Fiber Patch Cord ,MM , SC to MTRJ
1.13	700011042	Optical Fiber Patch Cord ,SM , SC to SC
1.14	108510066	Optical Fiber Patch Cord ,SM , SC to MTRJ
<b>LIU, 24 fiber, Wall mount enclosure, lockabl</b>		
1.15		MM
a	106939564, 108259458, 105289656	MM
b	700011430, 106939564, 105289664	SM
<b>LIU, 12 fiber, Wall mount enclosure, lockabl</b>		
1.16		MM
a	06939564, 108259458, 105289656, 10527657	MM
b	0011430, 106939564, 105289664, 10527657	SM
<b>LIU, 12 fiber,1 U drawer style 19" Rack mount enclosur</b>		
1.17		MM
a	321, 700005010, 108622895, 700006521, 700006521	MM
b	321, 700005010, 108622895, 700006521, 700006521	SM
<b>LIU, 24 fiber,2 U , 19" Rack mount enclosur</b>		
1.18		MM
a	no:700007321,700005010,700006531,700006531	MM
b	007321,700005010,108622895, 700006521, 700006521	SM

S.No.	Part no	Product
3		<b>Installation and Termination (UTP/FIBER Cable &amp; Components)</b>
a		Installation and Termination of UTP Laying of UTP E CAT 5/CAT 6 cable (per mtr)
b		<b>Supply &amp; fixing of ISI Marked PVC cable duct of size (Per meter)</b> 15 mm x 15 mm 30 mm x 25 mm 45 mm x 25 mm
c		Installation & termination of UTP cables on Patch Panel (24 port)
d		Installation & Termination of UTP cable on information outlet
e		Performance testing of the laid UTP cable and site certification
f		Network audit
3.2		Installation & termination of Fiber Optic
		<b>Fiber Optic Cable laying</b>
a		In building laying of fiber in PVC cable ducts of size 30x25 mm on wall (per mtr) Out door laying
b		Excavation and resurfacing of the soil per meter
c		Excavation and resurfacing of the concrete per meter
d		Excavation under road crossing & rail track without affecting the traffic per meter
e		Supply and installation/fixing of 1" diameter GI Pipe under ground and on surface per meter
f(i)		Supply and installation/fixing of 1.5" diameter and per meter
f(ii)		2" diameter HDPE PVC jacket for under ground laying
g		Supply and installation of 4" diameter HUME pipe founder ground laying per meter
h		SC Connector termination on Fiber Optic cable
I		Supply & installation of buffer tubing kit
j		Cable pulling pit made of reinforced concrete and brick walls with removable covers
k		Fiber Optics Cable route marker
L		Performance testing of laid fiber optic cable for continuity,db loss as per EIA/TIA 455-60 and documentation of the results
4		<b>LAN Active Items</b>
4.1(a)		24 port 10/100 Mbps Managed Layer 2 switch options for Modules for MDA slots Nortel bay stack 425-24 T with NMS optivity switch Manager
b)		1 port 1000 Base SX with MTRJ connector & MTRJ to SC patch chord
c)		1 port 1000 Base LX with LC connector & LC to SC patch chord
d)		1 port 1000 Base T with RJ 45 connector ( inbuilt in the switch)
4.2(a)		24 port 10/100 Mbps Managed Switch , Layer 2, Stackable options for Modules for MDA slots Nortel bay stack 425-24 T with NMS optivity switch Manager
b)		1 port 1000 Base SX with MTRJ connector & MTRJ to SC patch chord
c)		1 port 1000 Base LX with LC connector & LC to SC patch chord
d)		1 port 1000 Base T with RJ 45 connector ( inbuilt in the switch)
e)		Gigabit Stacking Module (price included in switch price)
f)		Stacking cable 50 cm length

S.No.	Part no	Product
4.3(a)		12 port GBIC Switch Nortel Bay stack 380-24F with NMS optivity switch Manager
b)		1 port 1000 Base SX with SC Connector & SC to SC patch chord
c)		1 port 1000 Base LX with LC connector & LC to SC patch chord
d)		1 port 1000 Base T with RJ 45 connector
4.4(a)		12 port 10/100/1000 Mbps managed layer2/layer 3 switch Nortel Bay Stack 5510-24 with redundant Power supply & NMS optivity switch manager
		<b>Options for modules for MDA slot</b>
(b)		1 port 1000 Base GBIC
c)		SX GBIC with MTRJ to SC patch Chord
d)		LX GBIC with LC to SC patch chord
e)		1 port 1000 Base T
4.5		<b>Multilayer Workgroup Switch Chassis based</b>
a)		Modular Chassis configured for complete redundancy on power supply Fans & having at least 2 free payload/line slots Nortel passpart 8606 with NMS optivity switch manager
b)		6 port 1000 Base GBIC
c)		SX GBIC
d)		LX GBIC
e)		1 port 1000 Base TX GBIC
f)		12 port 10/100 Base TX with RJ 45 connector
4.6		<b>Routing,Multilayer Core Switch Chassis based</b>
a)		Modular Chassis configured for complete redundancy on CPU ,Switch Fabric,power supply Fans & having at least 3 free payload/line slots Nortel passpart 8610 with NMS optivity switch manager
b)		6 port 1000 Base GBIC
c)		SX GBIC
d)		LX GBIC
e)		1 port 1000 Base TX GBIC
f)		24 port 10/100 Base TX with RJ 45 connector
4.7		SNMP based Network Management Software (NMS) with complete documentation for Windows platform to view & manage the network.NMS should automatically provide GUI for topology map & panel views. Should be able to configure,view into device,isolate error conditions & collect statistics.Optivity Switch Manager DS 141 000-3.0.
		<b>19" Equipment mounting Rack</b>
5.1		a) 19" Rack, Wall mount 530mm depth 9U height,front glass door (lockable),25-5309-SS b)19" AC power distribution channel with 5 AMP power sockets & spike suppressor c) Mounting Hardware Packets
5.2		a) 19" Rack,Floor Standing 530mm depth,12U height,front glass door (lockable)25-5312-SS b)19" AC power distribution channel with 5 AMP power sockets & spike suppressor

S.No.	Part no	Product
5.3		<ul style="list-style-type: none"> <li>c) Mounting Hardware Packets,</li> <li>d) Castors with brakes (set of four)</li> <li>e) Fan tray with four fans</li> <li>a) 19" Rack, Floor Standing 800mm depth, 24U height, front &amp; back door (lockable) front glass door 33-6025-SM</li> <li>b) 19" AC power distribution channel with 5 AMP power sockets &amp; spike suppressor</li> <li>c) Support angles, 475mm depth</li> <li>d) Equipment shelves 475 mm depth</li> <li>e) Castors with brakes (set of four)</li> <li>f) Fan tray with four fans</li> <li>g) Earthing Kit</li> </ul>
5.4		<ul style="list-style-type: none"> <li>h) Mounting Hardware packets</li> <li>a) 19" Rack, Floor Standing 800mm depth, 32U height, front &amp; back door (lockable) front glass door 33-6032-SH</li> <li>b) 19" AC power distribution channel with 5 AMP power sockets &amp; spike suppressor</li> <li>c) Support angles, 475mm depth</li> <li>d) Equipment shelves 475 mm depth</li> <li>e) Castors with brakes (set of four)</li> <li>f) Fan tray with four fans</li> <li>g) Earthing Kit</li> <li>h) Mounting Hardware packets</li> </ul>
III		<b>CISCO Products</b>
1		<p><b>Catalyst 2950 Workgroup Switches</b></p> <ul style="list-style-type: none"> <li>WS-C2950-12, 12 port, 10/100 Catalyst Switch, Standard Image only</li> <li>WS-C2950-24, 24 port, 10/100 Catalyst Switch, Standard Image only</li> <li>WS-C2950C-24, 24 10/100 ports with 2 100BASE-FX uplinks, Enhanced Image</li> <li>WS-C2950G-12-EI, Catalyst 2950, 12 10/100 with 2 GBIC slots, Enhanced Image</li> <li>WS-C2950G-24-EI, Catalyst 2950, 24 10/100 with 2 GBIC slots, Enhanced Image</li> <li>WS-C2950G-48-EI, Catalyst 2950, 48 10/100 with 2 GBIC slots, Enhanced Image</li> <li>WS-C2950SX-24, 24 10/100 ports w/ 2 1000BASE-SX ports, Standard Image only</li> <li>WS-C2950SX-48-SI, 48 10/100 and 2 1000BASE-SX uplink ports, Standard Image</li> <li>WS-C2950T-24, 24 10/100 ports w/ 2 10/100/1000BASE-T ports, Enhanced Image</li> <li>WS-C2950T-48-SI, 48 10/100 and 2 10/100/1000BASE-T uplinks, Standard Image</li> <li>WS-C2955C-12, 2955 12 TX w/MM Uplinks</li> <li>WS-C2955S-12, 2955 12 TX w/Single Mode Uplinks</li> <li>WS-C2955T-12, 2955 12 TX ports w/ copper uplinks</li> </ul> <p><b>GBICs for the Catalyst 2950</b></p> <ul style="list-style-type: none"> <li>WS-X3500-XL=GigaStack Stacking GBIC and 50cm cable</li> <li>WS-G5486=1000BASE-LX/LH long haul GBIC (singlemode or multimode)</li> <li>WS-G5484=1000BASE-SX Short Wavelength GBIC (Multimode only)</li> <li>WS-G5483=1000BASE-T GBIC</li> </ul>