OFFICE OF THE COLLECTOR & DISTRICT MAGISTRATE: MAYURBHANJ

SHORT TENDER CALL NOTICE

No. 843 //Estt., Dated. the 29 02 2020

Sealed short tenders is invited from intending bonafide Authorized firms/ agencies for the supply &Installation and integration of Local Area Netrwork(LAN) of networking itemsfor different sections of Mayurbhanj Collectorate, Baripada.

Last date for submission of Tender Paper - 12.03.2020 2.00 PM Date and time of opening of Tender -12.03.2020 4.00 PM

The interested Suppliers/Authorized firms/agencies should submit their quotation in sealed envelope. All the pages of the tender papers should be signed with deal of the firms/agencies.

The sealed envelop containing the proposals must be dropped in the assigned box kept in the office of the ADM(G), Mayurbhanj during the office hour. Any quotation received after date line shall liable for rejection.

Photocopy of valid pan card, GSTIN registration certificate, up-to-date Income Tax Clearance certificate from the competent authority upto 31.03.2020 should be furnished alongwih the tender papers.

The transportation cost of required items to be procured shall be borne by the Supplier.

Interested bidders must submit their quotation in the prescribed format and sealed with cover y superscripting Tender for Supply and Installation and integration of LAN in MayurbhanjCollectorate to the office of the ADM, Mayurbhanj latest by 12.03.2020 2.00 PM.

The items should be supply, installation and integration of LAN within the date line.

The payment will be made by the Collector only after satisfactory supply, installation and integration of the LAN in Collectorate on submission of documents like suppliers invoice, Warranty certificate etc.

Any legal dispute arises out of this is subject to jurisdiction of Baripada only.

Quotation document having detailed specification, terms and condition can bedownloaded from the website https://mayurbhanj.nic.in/. The undersigned reserve the right to cancel or reject any bid without assigning any reason thereof

Collector & District Magistrate,

Mayurbhanj

Project Director, DRDA, Mayurbhani/All Sub-Collectors/ P.A,ITDAs/Tahasildars/BDOs/All District Level officers of Mayurbhanj /DIO,NIC Mayurbhanj for information and necessary action. They are requested to display the Short Tender Call Notice in their Notice Board for wide publicity.

Copy to Notice Board of Collectorate, Mayurbhanj to display for wide publicity.

Collector & District Magistrate,

Mayurbhahj

QUOTATION FORM

1.	Name of Bidder	
2.	Name &Designation of Authorized Signatory	
3.	Registered Office Address	
4.	Type of Firm	
5.	Telephone Number & Mobile	
6.	Email Address	
7.	Service Tax Number of the Firm	
8.	PAN Number of the Firm	
9.	ITR of Firm for the last three years (proof enclosed)	
10.	Details of EMD of Rs.10,000/- pledge in favour of Collector, Mayurbhanj	

I / We agree to abide by all the conditions mentioned in this quotation Document issued by the Authority and also the further condition of the said quotation Notice given in the attached sheets (all the pages of which have been signed by us in token of

Acceptance of the terms mentioned there in).

Signature of the bidder: Name and Address:

EQUIPMENTS PRICE BID FOR NETWORKING PART - A (UTP COPER CABLE NETWORKING)

SL. NO.	DESCRIPTION	QUANTITY	UNIT OF MEASURE MENT	UNIT	TOTAL
1	24 Port 10/100/1000 mbps Network switch SFP PORT	6	Nos		
3	Cat-6 Utp Cable 305 mtr box (as per requirement)	15	Nos		
4	I/O jack with single faceplate and back box (as per requirement)	110	Nos		
6	CT-6 24 port loaded patch panel	6	Nos		
7	1 mtr Patch Cord (as per requirement)	119	Nos		
8	2 mtr Patch Cord (as per requirement)	110	Nos		
9	Copper UTP cable laying through PVC Conduit (as per requirement)	4575	Mtr		
10	IO fixing (as per requirement)	110	Nos		
11	Patch panel fixing	6	No		
12	9 U Rack Fixing with all accessories	3	Nos		
13	UPS Power Supply to Network equipments	3	Nos		

PART - B (FIBRE CABLE NETWORKING)

1	SFP Module	2	Nos	
2	6 Core arm Fiber SM cable	400	Mtr	
3	Pigtail	12	Nos	
4	6 Port LIU	2	Nos	
5	SC-LC Patch Cord	2	Nos	
1	Digging with HDPE Pipe	140	Mtr	
2	6 Core Fiber Cable laying	400	Mtr	
3	Road Cutting with GI pipe	12	Mtr	
4	Splicing	12	Core	
5	LIU fixing	2	Nos	

Quotation for Supply and Installation and Integration of Local Area Network (LAN)

Terms & Conditions:

Unit Price must be mentioned in INR Inclusive of all taxes and transportation for delivery & installation on site.

- 1. The vendor/suppliers should be an authorized partner and must provide valid GST and PAN Number (photocopy to be enclosed with Signature, date and seal). The Vendor/supplier should be ISO-9001 and other better quality certified organization having experience of executing LAN/WAN orders in Odisha during last 3 years with at least 3 orders of minimum 10-20 lacs. Annual Turnover of the vendor/supplier should be minimum 1 Cr per year during last 3 years.
- 2. The supplier should have the ink signed original authorization certificate specific to this tender from the respective OEM along with their bid.
- We will prefer to buy the solution from experienced OEM who are having local office/Service Centre in Odisha. PO (Purchase Order) copies from Govt./Judicial Institutions should be attached in support of the claims.
- The first time installation has to be done by OEM engineer at our site. Bidders
 are requested to quote for best effort advance replacement during Warranty
 period directly from OEM.
- The price quoted should remain firm a period of minimum 3 months from the due date of bid submission. The materials must supply and install within 15 days of issue of Purchase Order.
- 6. Transportation will be at Suppliers scope.
- 7. The price offer through E-mail/Fax will neither be accepted nor entertained. Incomplete offer or communication after due day and time will be rejected.
- 8. The price offer/envelope must be properly sealed, stamped & duly signed by the authorized person of the firm/agency and the firm should mention "Quotation Call for supply and installation of integration of Local Area Network (LAN)" On the top of the envelope and should be written full address with phone number in the sender's side of the envelope.
- 90% payment will be released after successful delivery, installation and testing of the complete solution and 10% will be released after 3 months successful running of the products.
- 10. The agency/firm must sign on each page of the quotation document as published in the website as well as other relevant documents with seal & date and to be submitted.
- 11. Collector reserves the right to accept or reject any bid and cancel the order without any liability in case the materials are not supplied within the stipulated period and/or non-fulfillment of contractual obligation.
- 12. Delivery/ installation of the store should strictly be completed within the stipulated period of delivery.
- The material must be properly packed against any damage and insured for transit except where hand delivery is proposed.
- 14. The vendor shall provide an installation completed certificate after completion of the installation of LAN in the Collectorate.
- All Network equipments like L2 managed witches must be IPV6 ready from day1 along with supporting VLAN.
- 16. Price should be inclusive of all taxes.

24 port 10/100/1000 mbps N	letwork switch Qty-6	
Parameter	Description	Complia
Form Factor	19" Rack Mountable. Rack mounting kit to be provided	
Physical Dimensions	To be specified by the vendor (WxDxH)441 x 198 x 44 mm	
Architecture	Non Blocking	
Ports	24 Port 10/100/1000 Copper port + 4 Fiber SFP ports	
GBIC/SFP	suppports 4 No's 1000 Base mini GBIC/SFP tans receivers LC connector for connecting single mode fiber(LX)	
Port Status	Display Each port must have a dedicated LED status display.	
MAC Addresses	Supports Up to 8K MAC addresses	
Switching capacity	At least 56 Gbps	
and forwarding rate	Packet throughput 8 Mbps or more	
VLANs Supported	Support for up to 4096 VLANs simultaneously Port-based and 802.1Q tag-based VLANs MAC-based VLAN	
Management	Web Management	
	Port mirroring	
	RMON, SNMP V1, V2, V3	
L2 Loop Protection	IEEE 802.1d Spanning tree protocol 802.1s	
	RSTP(Rapid spanning Tree Protocol)	
	IEEE 802.1W MSTP(Multiple Spanning Tree Protocol)	
Link Aggregation	Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP)	
	Up to 8 groups	
	 Up to 8 ports per group with 16 candidate ports for each (dynamic) 802.3ad link aggregation 	
QOS Support	802.1p Priority Queues per Port.	
IPv6	Switch should have IPv6 Ready	
Port mirroring /span Port	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to 8 source ports can be mirrored to one destination port. A single session is supported.	
TFTP or FTP Support	For Configuration file backup and restore.	
Port Security	The ability to lock Source MAC addresses to ports, and limits the number of learned MAC addresses.	

Access Combrel	average standard and automoded ACLC
Access Control	supports standard and extended ACLS. Should support various types of ACLS
	like port based/time based.
Power	AC Input 100-240V AC. Power Cable
	as per Indian Standards to be Provided
Cat-6 Utp Cable 305 mtr box Q	TY-15
The 4 pair Unshielded Twisted Pa	air cable shall be ULÒ Listed.
This cable well exceeds the requ	irements of TIA/EIA-568-C.2 and ISO/IEC
11801	
Nominal Outer Diameter of Cable Diameter 0.56 mm (23 AWG)	e should be 5.9+/-0.01mm and Conductor
	arated by internal PE Cross Separator. Full
separator. Half shall not be accep	ted. Rip Cord is must.
Conductor Solid bare Copper ar	nd Outer jacket sheath FRPVC/LSZH and
UL approved CM rated cable. Jac	
Insulation :High Density Polyethyl	ene Solid
Dielectric Strength of cable should	A CONTRACTOR OF THE CONTRACTOR
Bending Radius : < 4X Cable Diar	meter at -20°C +/- 1°C
Pulling Force: 25.35 LBS	
	o - pair and PS NEXT, ELFEXT and
PSELFEXT, Return Loss, ACR ar	
Insertion Loss of 32.8 db/100m at	250 MHz
Cable should support operating To	emperature from -20° to +70°C
Cable support Conductor Resistar	nce < 9.38 Ω /100m
Mutual Capacitance of cable shou	ıld be < 5.6nF/100m
Max Resistance Unbalance of cab	ole should be 5% Max
Capacitance Unbalance of cable s	should max 330pF/100m
Cable support Delay Skew: < 45n Current Rating : MAX 1.5A	S, Operating Voltage: 72V NVP: 69% and
Printed sequential Length Counter	r of each meter on Outer Jacket
	supports Gigabit Ethernet (1000 base-T)
CAT-6 24 port loaded patch pan	el QTY-6
The Cat-6 transmission perform ANSI/TIA/EIA-568-C.2 Standard.	mance is in compliance and Exceeds Supports 1000-Base-T.
90 Degree (Top Entry) Punch Terminations.	Down Design for Convenient Network
Ease of Installation with built in Re	ear Cable Management.
Removable Module Design	
Removable Module Design 6x4 Module Specially Designed Ja	nck Configuration

Jack Wire: Square wire Phosphor Bronze with 30µ" Gold Over Nickel Plating.
Fully (360 degree covered) 30 microns Gold plated Contact pins, for better for POE Application
IDC Conductor : 0.5 mm Phosphor Bronze, Tin Plating
Contact Compatibility : 22~26 AWG Stranded and Solid Wires
1U Patch Panel to Mount In any Standard Rack. Panel Frame : SPCC Powder Coating In Matt Finish Black Color.
Housing : High Impact Flame Retardant Plastic, UL 94V-0 Rated
Easy Port Labeling Identification Provision
Higher flexibility of square pins used here instead of the single side Gold Plated stamped pins
No oxidization of Contact pins due to absence of soldering flux leading to longer life
Current Rating : 1.5amps
Insulation Resistance : $\geq 500 \text{m}\Omega$ Contact Resistance : $\leq 10 \text{m}\Omega$
DC Resistance : <=0.1Ω
DC/AC Volt Endurance : DC 1000V/AC 750V 1 Min
Plug Insertion Life : >= 750 Cycles with FCC Compliant RJ-45 Plug
Plug & Jack Contact : >= 100 Grams with FCC Compliant RJ-45 Plug Force Plug Retention Force : >= 11 LBF
Durability : 200 Termination Cycles
Operating Temperature : -10 Degree ~ 60 Degree
Operating Humidity : 10% ~ 90% RH
Storage Temperature : -40 Degree ~ 68 Degree
ANSI/TIA-568-C.2
Qualified Class E / Cat.6 Permanent Link & Channel
SO/IEC 11801:2002/AMMD.2:2010
YD/T 926.3-2009
SO/IEC 60603-7 Compliant
RoHS Directive 2002/95/EC/Compliant
JL Listed, ETL Verified

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urrent Rating : 1.5amps	Current Rating : 1.5amps	
sulation Resistance : 500 MΩ minimum	Insulation Resistance : 500 MΩ minimum	
ontact Resistance : 10 mΩ maximum	Contact Resistance : 10 mΩ maximum	
C Resistance : 0.1 Ω maximum	DC Resistance : 0.1 Ω maximum	
ug Insertion Life : 750 Cycles minimum	Plug Insertion Life : 750 Cycles minimum	

Plug & Jack Contact Force :100 Gr	rams minimum using FCC-approved plug
Plug Retention Force: 30 lbs minin	num
Temperature: -40° to 150°F (-40° to	to 68°C)
Qualified unscreened Class E/Cat.	6
Permanent Link & Channel ANSI/T	IA-568-C.2
IEC 60603-7-4 2nd Edition	
ISO/IEC 11801 2.2 Edition	
CENELEC EN 50173-1:2011	
Single Face Plate Square (86 x 86mm) x 12 mm	
Should support UTP and STP Jacks Cat5e, Cat6	
Should have Robust and installer face Plates	friendly design Surface Mount Boxes for

Description		Compliances
SM Fiber SFP M	odule Qty-2	
Connector Type: LC		
Wavelength (nm): 1310		
Max Cable Distance: Upto 10 Kms		
6 Core arm Fiber SM o	cable Qty -500 mtr	
4F Unitube Armored with water blocking tape.		
Rodent Proof, UV Protection.		
Embedded Strength members as 2 steel wires od	1.0 mm.	
Polyester based yarns below Armor tape for easy ripping		
Thermoplastic Material Tube		
Excellent Water Proof Layer and Moisture Resistance		
Excellent Crush Resistance Performance		
Light Weight and Compact Structure		
The fiber type is a Matched Cladding Single Mode		
Extremely high bandwidth. Optimized to support tra nm. Virtually unlimited Modal Bandwidth at 1310 nr		
Should fulfill the requirements of:		
IEC 60793-1/60794-1.2		
ITU-T REC G.652D		
Telecordia GR-20 Core		
Testing methods are in accordance with the following	ng standards:	
ITU-T G.652.D		
IEC 793-1		
Nominal mode field diameter	9.2 µm	
Mode field diameter tolerance	±4 µm	
Cladding diameter	125	
Cladding diameter tolerance	±1 µm	

Mode field concentricity error	< 1 µm
Cladding non-circularity	(=/<) 1.0
Change of Temperature Attenuation increase, -60°C to+85°C	= 0.05 db/km</td
Dry Heat Attenuation increase, 30 days at 85°C	= 0.05 db/km</td
Damp Heat Attenuation increase, 30 days at 85°C/ 85%R.H.	= 0.05 db/km</td
Damp Heat Attenuation increase, 30 days at 85°C/ 85%R.H.	= 0.05 db/km</td
CORE	Germanium doped core with no phosphorus i.e. reduced tendency for hydrogen degradation.
COATING	UV-curable dual layer acryl ate coating, which ensures excellent micro bending and abrasion resistance.
Coating Strip Force (typical)	
Min.	1.3 N
Max.	8.9 N
Stripping force after ageing in water at 70 ± 5 °C fo	or 168 h.
Min.	1.0 N
Max.	3.5 N
Attenuation (of cable with fibers):	
At 1310 nm	
Atten. At 1383nm (OH-Peak)	
At 1550 nm	
Cut-off wavelength c:	
High limit	1330 nm
Low limit	1180 nm
Cut-off wavelength cc	
High limit	1260 nm
Loss increase at 1550 nm for 100 turns of fiber loos	sely wound with a 37.5 mm
radius: Max.	0.1 dB
55 ACTIVITY (1)	U.1 UB
Dispersion:	1
Zero dispersion wavelength	1310 nm
Tolerance of zero dispersion	
Wavelength	-10/+12 nm
Zero-dispersion slope: 1295 =λo</=1300</td <td></td>	
Max.	≤0.092 at λο

Chromatic dispersion coefficient:		
In 1285 nm - 1330 nm interval:		
Max.	3.5ps/km • nm	
In 1270 nm - 1340 nm interval		
Max.	6 ps/km • nm	
At 1550 nm		
Max.	18 ps/km • nm	
Polarisation Mode Dispersion (PMD):		0
Max.	<=0.2 ps/km	
In homogeneity of OTDR trace for any two 10	000 meter fiber lengths	
Max.	0.1 dB/km	
Proof test level	1%	

6 port Loaded LIU qty-2

	odded Lio qty-L	
Min. 6 Port Configuration Available in Stand	ard 19"	
6/12/24 Ports Adapter Interface available fro plates.	om day one without any adapter	
Consist of Top Cover and Bottom Panel		
Easy to Assemble and Dissemble		
Three Types of Input Holes		
Cable Entry Through Water Proof Cable Cla	mp	
Splice Max 24 Fibers at Most with 1 Tray		
Patch Cord with Bend Radius Guides Minim	ize Macro Bending	
Install 6 Cable Management Rings Inside to	Ensure Flexibility	
Comprehensive Accessory Kits for Cable Er	ntry and Fiber Management	
Dimensions (mm): 430 X 220 X 1U		
Body Material : SPCC Black Powder Coating	9	
Features	SC/LC/FC adaptors should be Simplex and duplex type.	
	Telcordia GR-326-Core.	
	RoHS Compliance	
	Low Insertion and Return Loss	
	Adapters should have compact design & high precision	
	Telcordia, TIA/EIA, IEC compliance	
	<= 0.20 db for Zirconia Sleeve	
Insertion Loss	Durability (1000 Matings): <= 0.2db	
	Main Body Material : PBT/ABS	
Sleeve/Ferrule Withdrawal Force	SC / FC Adapter 2.0N ~ 5.9N , LC Adapter-1.0N ~ 2.5N	

LSZH Jacket-Reduced Toxic Gasses Emitted During Combustion	
100% Factory Tested	
Low Insertion Loss and Return Loss	
Available with Corning Fiber	
Available in PC/APC Type Options	
High Precision Ceramic Ferrule with Good Concentricity	
SC/LC/FC options	
Connector Type : SC, ST, FC, LC, MTRJ	
Fiber Type : OS2	
(9/125 Corning Clear Curve)	
Tight Buffer Color : White/yellow	
Tight Buffer Material : LSZH	
Tight Buffer Diameter (mm): 0.9 +/- 0.05	
Strength Member : Aramid Yarn	
Jacket Color : Yellow for OS1/OS2	
Jacket Material : LSZH	
Jacket Thickness (mm): 0.45 +/- 0.05	
Cable Diameter (mm): 2.9(+/-0.1) X 5.9(+/-0.2)	
Cable Weight (kg/km) : Approx. 13.0	
Minimum Bending : 30 (static) Radius (mm)	
Attenuation (db/km) : <= 1.5 at 1300nm, <= 3.5mm at 850nm	
Short Term Tensile (n): 160	
Crush Resistance (n/100mm): 500	
Operation Temperature : Minus 20 ~ Plus 70 (degree)	
Insertion Loss: <= 0.2 db, Max 0.3db/MTRJ: Max 0.5db	
Return Loss: PC>= 45db, UPC>=50db, APC>=60db	
Connector Ferrule : Ceramic, (MTRJ: PS Polyphenylene	
Sulphide)	
Apex Offset : <50µm	
Fiber Height: (+/-)100nm	
End Face Radius of Curvature : 7mm <r<25mm(excluding mtrj)<="" td=""><td></td></r<25mm(excluding>	
Repeatibility: <= 0.2db 1000 Times Mating Cycles	
Working Temperature : (minus 40 Deggree ~ Plus 85 Degree)	
Storage Temperature : (minus 40 Deggree ~ Plus 85 Degree)	
SC-LC Patch cord Qty-2	
LSZH Jacket-Reduced Toxic Gasses Emitted During Combustion.	
Simplex and Duplex Options	
100% Factory Tested	
Low Insertion Loss and Return Loss	

Available with Corning Fiber

Available in PC/APC Type Options	
High Precision Ceramic Ferrule with Good Concentricity	
SC/LC/FC options	
Connector Type : SC, ST, FC, LC, MTRJ	
Fiber Type : OS2 (9/125 Corning Clear Curve)	
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Tight Buffer Material : LSZH	
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Strength Member : Aramid Yarn	
Jacket Color : Yellow	
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