

TENDER CALL NOTICE.

Sealed Quotations are invited from intending Authorized suppliers/ Dealers/Manufacturer having GST/ IT Clearance certificate for the supply, installation and Integration of Local Area Network (LAN) of Branded Product as per the specification given below for different sections of Collectorate, Malkangiri. The evaluation forms & format of quotation completed in all respect should reach the undersigned on or before dt. 19.05.2022 by 1:00 P.M through Registered Post / Speed Post only and shall be opened on dt. 20.05.2022 at 10:00 AM in presence of the bidders or their authorized representatives in the office Chamber of Collector & District Magistrate, Malkangiri.

The undersigned reserves to accept or reject the tender without assigning any reasons thereof.

For Tender Form and other details visit:- [www.malkangiri.nic.in](http://www.malkangiri.nic.in)

1. Name of the items and Specification.

Sl.No	DESCRIPTION	QUAN TITY	PRICE	BRAND
1	24-port 10/100/1000 mbps Network L2-managed switch, 2 combo SFP slots or more	04		BRANDED PRODUCT
2	Cat-6 UTP Cable 305 / 23 AWG (as per requirement)	2705 mtr		
3	I/O / DUAL fixing (As per requirement)	80		
4	CT-6 24 port loaded patch panel	4		
5	Patch Cord 01 meter	80		
6	Patch Cord 02 meter	80		
7	UTP cable pulling, laying and wiring using PVC pipe ISI mark / casing / wall plug and screws (As per requirement)	Per mtr		
8	Patch panel /wiring / fixing	04		
9	9 U Rack fixing with all accessories (500*600)	03		
10	Power supply to Network equipments.	03		
11	Fibre Armoured 06 core	200 mtr		
12	SFP GIGA D-Link	16		
13	Fibre Patch cord Duplex	16		
14	RJ -45 clip	200		

**TECHNICAL SPECIFICATION ( UTP COPPER CABLE NETWORKING)**

**24 port 10/ 100 /1000 mbps Network Switch Qty.04**

Parameter	Description	Compliances
Form Factor	19" Rack Mountable Rack mounting kit to be provided	
Physical Dimensions	To be specified by the vender (WxDxH) 441x 198 x 44 mm	
Architecture	Non Blocking	
Ports	24 Port 10 / 100 /1000 Copper port +4 Fiber SFP ports	
GBIC /SFP	Supports 4 No's 1000 Base mini GBIC /SFP Trans 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 VL AN	
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)	
	<ul style="list-style-type: none"> <li>• UP to 8 groups</li> <li>• Up to 8 ports per group with 16 candidate ports for each (dynamic) 802.3ad link aggregation</li> </ul>	
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.	

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Security	The ability to lock Source MAC addresses to ports, and limits the number of learned MAC addresses.	
Access Control	Supports standard and extended ACLS, support various type of ACLS like port base /time base.	
Power	AC Input 100-240 V AC. Power Cable as per Indian Standards to be Provided.	

**Cat-6 UTP Cable 305 mtr box QTY-As per Requirement**

The 4 pair Unshielded Twisted Pair cable shall be ULO Listed	
This cable well exceeds the requirements of TIA / EIA-568-C.2 and ISO / IEC 11801	
Nominal Outer diameter of Cable should be 509 + /-0.01 mm and Conductor Diameter 0.56 mm (23 AWG)	
Construction: 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must.	
Conductor Solid bare Copper and Outer jacket sheath FRPVC / LSZH and UL approved CM rated cable. Jacket color: Light Grey.	
Insulation : High Density Polyethylene solid	
Dielectric Strength of cable should be 1000 V RMS.	
Bending Radius : <4 X Cable Diameter at -20 <sup>0</sup> C +/-1 <sup>0</sup> C	
Pulling Force: 25.35 LBS	
Electrical Parameters Pair – to – pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR	
Insertion Loss of 32.8 db/100 m at 250 MHz	
Cable should support operating Temperature from -20 <sup>0</sup> to +70 <sup>0</sup> C	
Cable support Conductor Resistance < 9.38 Ω /100 m	
Mutual Capacitance of cable should be <5.6 nF /100 m	
Max Resistance Unbalance of cable should be 5% Max	
Capacitance Unbalance of cable should max 330pF/100m	
Cable support Delay Skew: < 45nS, Operating Voltage: 72 V NVP: 69% and Current Rating : MAX 1.5A	
Printed sequential Length Counter of each meter on Outer Jacket	
Category 6 UTP cables shall Supports Gigabit Ethernet (1000 base-T) standard and Operates at bandwidth of 250 MHz	

**CAT-6 24 port loaded patch panel QTY-04**

The Cat-6 transmission performance is in compliance and Exceeds ANSI/TIA/EIA-568-C.2 Standard Supports 1000-Base-T.	
90 Degree (Top Entry) Punch Down Design for Convenient Network Terminations.	
Ease of Installation with built in Rear Cable Management	
Removable Module Design	
6x4 Module Specially Designed Jack Configuration	
PCB: FR4, 1.6 mm Thickness 2 Layers	
Jack Wire: Square wire Phosphor Bronze with 30 μ” Gold Over Nickel Plating	
Fully (360 degree covered) 30 microns Gold plated Contact pins, for better for POE Application	

Conductor : 0.5 mm Phosphor Bronze, Tin Plating	
Contact Compatibility : 22~26 AWG Standard and Solid Wires	
Mounting Patch Panel to Mount In any Standard Rack, Panel Frame : SPCC Power	
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 : >=500mΩ	
Contact Resistance : <10MΩ	
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	
ISO/IEC 11801:2002/AMMD.2:2010	
YD/T 926.3-2009	
ISO/IEC 60603-7 Compliant	
RoHS Directive 2002/95/EC/Compliant	
UL Listed ETL Verified	

**I/O / DUAL Fixing Qty-80**

Category 6 Keystone is Punch Down Type 30 Micron Gold Plating Suitable For 23~24 AWG Stranded and Solid Wire.	
Compliant to T568A and T568B Wiring Schemes	
Small & Exquisite form factor	
Skilled Design on Jack and PCB, Ergonomic Design and Easy Termination.	
Collapsible Shutter Type Option	
Keystone Jack Can Be Easily Terminated by Hand Tool	
Backward compatible with both RJ11 / RJ12 Plug	
Housing : High impact flame retardant plastic, UL 94V-0 rated	
PCB : FR4, 1.6mm Thickness	
Jack Wire : Phosphor bronze gold over nickel plating	
Nickel Plating Base (Ni) : 40μ~80μ	
Gold Plating : 50 microns	
Connector : Insulation displacement connector	
(IDC) Accept #23~24 AWG solid wire	
Current Rating : 1.5 amps	
Insulation Resistance : 500 MΩ minimum	
Contact Resistance : 10 mΩ maximum	
DC Resistance : 0.1 Ω maximum	

Insertion Life : 750 Cycles minimum	
Plug & Jack Contact Force : 100 Grams minimum using FCC-approved plug	
Plug Retention Force :30 lbs minimum	
Temperature : -40 <sup>0</sup> to 150 <sup>0</sup> F (-40 <sup>0</sup> to 68 <sup>0</sup> C)	
Qualified unscreened Class E/Cat.6	
Permanent Link & Channel ANSI/TIA-568-C.2	
IEC 60603-7-4 2 <sup>nd</sup> 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 friendly design Surface Mount Boxes for Face Plates	

## 2. Bid Price

- The transportation charges also to be included in the Bid Price.
- All duties, taxes and other levies payable by the dealer under the contract shall be included in the total price.
- The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- The Prices should be quoted in Indian Rupees only.

## 3. Each bidder shall submit only one quotation.

A set of Tender documents can be purchased from Nizarat Section, Collectorate, Malkangiri on any working day from dt. 05.05.2022 to 19.05.2022 in between 07.00 AM to 01.00 PM at a non-refundable tender fee of Rs.2,000/- payable through demand draft drawn in favour of Nizarat Officer, Collectorate, Malkangiri payable at SBI, Malkangiri. In case, tender documents are downloaded from NIC Website cost of tender documents i.e. Rs.2,000/- shall be deposited through DemandDraft which is non refundable submitted along with tender paper.

## 4. Validity of quotation

Quotation shall remain valid for a period not less than 60 days after the deadline date specified for submission.

## 5. Evaluation of Quotations

The purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- Are properly signed and
- Confirm to the terms and conditions, and specifications.
- The Quotations would be evaluated for all the items together.

## 6. Award of contract

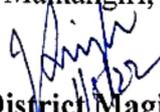
- The purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
- The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order..

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The Payment shall be made by NEFT/RTGS after satisfactory supply, installation and integration of the LAN and after submission of the bills and vouchers along with after verification of the purchase committee.

8. Any effort by a bidder to influence the purchaser in its decision on bid evaluation or placement of purchase order may result in rejection of the bidder's offer.
9. Any legal dispute arising out of this is subject to concerned District jurisdiction only.
10. Notwithstanding the above, the Collector & District Magistrate, Malkangiri reserves the right to accept or reject any quotation and to cancel the bidding process and reject all bids at any time prior to the issue of contract letter. The bidders may be present in person or through one of their representative(s) during the opening of quotations as per the date and time fixed by the Collector & District magistrate, Malkangiri.
11. The successful Bidder will be submit performance Bank guarantee of 5% in shape of B.D i.e., the total cost of Bid.
12. We will buy the articles from experienced OEM who are having Own service centre at Odisha preferably local office / service centre in Malkangiri District. Purchase order copies from Govt./Judicial Institutions should be attached in support of the claims.
13. 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.
14. The Bidders/Vendors/Suppliers should be ISO-9001, ISO-2701 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 worth of Rs.15,00,000/- or above to any Government agencies. Project completion certificate in the stipulated time proof of execution.
15. Audited Balance sheet from Chartered accountant last 03 years i.e., 2018-19, 2019-20 and 2020-21.
16. Not black listed declaration.
17. Vendor will provide three years of AMC.
18. OEM ISO-901, OEM ISO-14001. OEM Local Service centre Odisha proof , OEM declaration towards service support, OEM authorization specifying bidder name address from Odisha head, Product not end of sale or end of life declaration from OEM, OEM existence in Odisha last 10 years, All active and passive items from same OEM.
19. Registration Certificate/Authorization Certificate of the Supplier/ Dealer/ Manufacturer.
20. The vendor shall provide an installation completed certificate after completion of the installation of LAN in the Collectorate.
21. All Network equipments like L2 managed switches must be IPV6 ready from day 1 along with supporting VLAN.

22. Network equipment preferable CISCO, D-LINK.
23. Photocopy of valid pan card, GSTIN registration certificate, up-to-date income Tax Clearance certificate from the competent authority upto 31.03.2022 should be furnished along with the tender paper.
24. The tenders are to be submitted in a sealed envelope and should be super scribed as **"Tender of supply, installation and Integration of Local Area Network (LAN) At Collectorate, Malkangiri"**. The Sealed tender should be addressed to the Nizarat Officer, Collectorate, Malkangiri, At/PO- Malkangiri, Dist- Malkangiri, PIN-764045.

  
Collector & District Magistrate,  
Malkangiri

**EVALUATION FORM**

1	Name of the Supplier	
2	Full address of Supplier's shop/showroom Telephone no Fax no. E-mail address:	
3	Are you a dealer /reseller/ Manufacturer	
4	Trade Tax /GST Registration no-with Place (Copy to be attached)	
5	PAN No. ( with copy of certificate)	
6	Up to date GST Clearance Certificate (copy to be attached).	
7	Authorization Certificate of each quoted item (Copy to be attached)	

I do hereby certify that the above mentioned particulars are true and correct.

**Full Signature of the Bidder:**

**Date:**

**Seal**

**DECLARATION BY THE BIDDER.**

It is hereby declared that I the undersigned, have read and examined all the terms and conditions etc, of the tender document for which I have signed and submitted the bid personally/ under proper lawful Power of Attorney. It is also certified that all the terms and conditions of the tender document are fully acceptable to me and I will abide by the conditions of the terms and conditions. This is also certified that our manufacturing firms have no objection in signing the purchase contract if the opportunity for the supply of the items against this tender is given to me /us.

Signature:

Date:

Name:

Address:

Designation: