

TO WHOM SO EVER IT MAY CONCERN

Subject: Announcement regarding the empanelment of vendors for setting up LAN & Wi-Fi in Government of Kerala Institutions

The KSITIL after detailed scrutiny of the documents submitted by the bidders, the lowest rate for each line item (66 nos) were circulated to each qualified bidder to confirm their willingness to match the L1 rate.

Based on the confirmation from bidder to match the L1 rate, below is the status:

Sl. No	Bidder Name	Bid Status
1.	Mexayne Engineering services Pvt Ltd	Matched L1 rate of all line items
2.	CITSA Technologies Pvt Ltd	Did not match L1 rates
3.	Trois Infotech Pvt Ltd	Did not match L1 rates
4.	Medical & Visual Technologies	Did not match L1 rates
5.	SUN Systems	Did not match L1 rates

Institutions may choose either proceed with **Mexayne Engineering Pvt Ltd** and in case they are not in a position to service the requests of Government Institutions, they may approach other empaneled vendors at the quoted rate.

The Agreement for the execution of the work shall be between the respective Government Institution who awarded the work to the vendor from the list empanelled by KSITIL.

Respective Government Institutions shall negotiate with the empaneled bidders (including L1 Bidder) to finalize the rate at the time of awarding the work.

The final evaluation report which includes the line item wise L1 rates are published on

<http://selfcare.kfon.co.in/>

<https://ksitil.kerala.gov.in>

<https://kfon.kerala.gov.in>

Tender Evaluation Report

Empanelment of Vendors for setting up LAN & WiFi in Govt. of Kerala Institutions

KSITIL/KFON/2022-23/6998

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1. Tender Details

Tender Details		
1.	Name of the Tender Inviting KSITIL	KSITIL
2.	Name of the Tender	Empanelment of Vendors for setting up LAN & WiFi in Govt. of Kerala Institutions.
3.	Tender Reference Number	KSITIL/KFON/2022-23/6998
4.	Tender Type	Open Tender
5.	Tender Category	Services
6.	Publication of Tender Document	https://ksitil.kerala.gov.in , https://kfon.kerala.gov.in
7.	Procedure for Bid Submission	Submission through sealed cover by post or direct delivery at KSITIL Corporate Office as mentioned in serial nos 9. Also please refer page No-11 clause No-3.1.g of RfP
8.	Last Date of Submission of Bids	Time: 15:00 Hrs; Date: 11/01/2023
9.	Opening of Technical Bids	Time: 15:30 Hrs; Date: 11/01/2023
10.	Validity of the Bid	120 days from the date of opening of price bid
11.	Contract period	3 years extendable based on mutual consent
12.	Period of Signing the Contract	Within 14 days from the date of receipt of notification of award (Letter of Intent)
13.	Terms & Conditions	As per the Tender document

2. General Instructions

1. The role of the Kerala State IT Infrastructure Ltd (KSITIL) is restricted to completing the empaneling process.
2. The KSITIL inviting the tender is Kerala State IT Infrastructure Ltd (KSITIL). The role of the KSITIL is to enable LAN & Wi-Fi connectivity at Government Institutions.
3. Bidder undertaking the work shall have the responsibility to ensure the safety of your personnel carrying out the work.
4. KSITIL will not be liable to pay any kind of compensation towards accidents, death etc. of the personnel caused by any kind of incident including natural calamities.
5. Any dispute arising out of this work order shall be governed between the Government Institution requesting for the work and the Bidder who agree to undertake the work. KSITIL will not be responsible for any disputes between the parties.
6. Respective Government Institutions shall negotiate with the empaneled bidders (including L1 Bidder) to finalize the rate at the time of awarding the work.
7. Subsequent to the Government Institution's notification to the Successful Bidder by way of a LOI, acceptance of the LOI, the Successful Bidder shall execute the Agreement with the respective Government Institution.
8. Failure of the Successful Bidder (L1) to execute the agreement within the prescribed time. In case of any deviation, the respective Government Institution may choose to negotiate with the next eligible Bidder.
9. The Successful Bidder will be liable to indemnify the Government Institution for any additional cost or expense, incurred on account of failure of the Successful Bidder to execute the Agreement.
10. The bidder must complete the agreed Supply, Installation, Testing & Commissioning work as per agreement within 45 days. Any delay beyond agreed timeline with respective Government Institution shall invite blacklisting of the bidder from further execution of similar work unless agreed to in writing with the respective Government Institution.
11. The Agreement for the execution of the work shall be between the respective Government Institution who awarded the work to the vendor from the list empanelled by KSITIL.
12. The payment of the vendor shall be cleared from the respective Government Institution to the selected vendor based on terms and conditions as per the agreement.

3. Tender Events

Tender - Ref No: KSITIL/KFON/2022-23/6998		
Name of the Tender - Empanelment of Vendors for setting up LAN & Wifi in Govt. of Kerala Institutions		
SL.No	Activity	Date
1	Tender uploaded on the KSITIL website - Ksitil.kerala.gov.in / kfon.kerala.gov.in	08.12.2022
2	Last date of submission of clarification	12.12.2022
3	Pre-bid Meeting conducted - Total 8 vendors participated	14.12.2022
4	Corrigendum Version 1 - Included specified brands, Hardware specification and BoQ specifications	15.12.2022
5	Corrigendum version 1.1 - 1. Clarification on WiFi Router specs 2. UPS specification changes 3. Added Make in India Models for Wired Router 4. Extension of last date of bid submission to 21.12.2022	16.12.2022
6	Requests received from bidders for further extension - till 07.01.2023	20.12.2022
7	Corrigendum version 2 - 1. Clarification of specs of Wired Router 2. Extension of last date of bid submission date as 27.12.2022	21.12.2022
8	Notification 1 - Tender extension notification published on KSITIL/KFON websites up to 04.1.2023	27.12.2022
9	Tender extension approved by KSITIL for updating the specification	4.1.2023
10	Notification 2- Tender extension notification published on KSITIL/KFON websites up to 11.1.2023	4.1.2023
11	Corrigendum version 3 - 1. Revised BoQ uploaded 2. Extension of the last date of bid submission up to 11.1.2023	07.1.2023
12	Bid covers received from interested Bidders (5 nos)	11.1.2023
13	Missing documents information shared to 5 bidders	18.1.2023
14	Technical Evaluation of the Bid completed	19.1.2023
15	All missing documents collected from 5 bidders	23.1.2023
16	Commercial Evaluation of the Bid open/ initiated	27.01.2023
17	Commercial Bid Evaluation completed	31.01.2023
18	Communication sent to qualified bidders for matching with L1 price	1.2.2023
19	Confirmation received from qualified Bidders to match L1 rate	4.2.2023

4. Bid Process

1. Technical Bid Evaluation – Bidders qualifying the Documents & Experience criteria mentioned in the RfP
2. Commercial Bid Evaluation – Bidders who have qualified Step 1
3. Based on Commercial Bid, rate of each item quoted by the bidders are evaluated to arrive at the lowest rate per item for SMB and Enterprise separately.
4. After arriving at the L1 rate per item, request was sent to qualified bidders to check the willingness to match the L1 rate per item.
5. Bidders who have confirmed to match the L1 rate has been awarded as L1 Bidder for this Tender.
6. Rate per item quoted by the other bidders who qualified as per Technical & Commercial bid has been published separately with item wise quoted rates.

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5. Details of Bidders participated in the Tender Process

S. No	Bidder Name
1	CITSA Technologies Pvt Ltd
2	Mexayne Engineering services Pvt Ltd
3	Medical & Visual Technologies Pvt Ltd
4	SUN Systems
5	Trois Infotech Pvt Ltd

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6. Status of Bidders based on Technical Bidding Process

S. No	Bidder	Status
1	CITSA Technologies Pvt Ltd	Qualified
2	Mexayne Engineering services Pvt Ltd	Qualified
3	Medical & Visual Technologies Pvt Ltd	Qualified
4	SUN Systems	Qualified
5	Trois Infotech Pvt Ltd	Qualified

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7. Status of Bidders based on Commercial Bidding

Sl. No	Bidder Name	Bid Status
1.	Mexayne Engineering services Pvt Ltd	Matched L1 rate of all line items
2.	CITSA Technologies Pvt Ltd	Did not match L1 rates
3.	Trois Infotech Pvt Ltd	Did not match L1 rates
4.	Medical & Visual Technologies	Did not match L1 rates
5.	SUN Systems	Did not match L1 rates

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8. Scope of Bidder undertaking the work

The following activities shall comprise the scope of work of the bidder to carry out the LAN/WiFi set up works at Government offices entrusted by respective Government Institution as the case may be.

- a. Conduct site survey and prepare a LAN/WiFi layout drawing to Government Institution.
- b. Obtain approval for the drawing and work plan submitted for each client site.
- c. Execute an agreement for each work assigned by respective Government Institution.
- d. Timely submission of delivery challan for materials delivered at site.
- e. Timely submission of invoices with supporting documents for claiming payment
- f. Conduct inspection, validation, and certification of completed works through a third party assigned by Government Institution.
- g. Prepare and submit the copy of the approved drawing and construction layout documentation to the client and Government Institution.
- h. Handover safe custody of all delivered materials to authorized representative of the Government Institution client and an acknowledgement copy of the same to the Government Institution.
- i. Clear or restore any damage to the flooring or walls of the client's building due to laying of the LAN network. A No Objection Certificate (NOC) from client in this regard need to be obtained by the successful bidder and submit the same to Government Institution for clearance of the final bill.
- j. Clear or remove any debris left at client site after completion of all the LAN works from time to time.

9. Terms and conditions of the Bidders

- a. The bidder shall comply with all the technical specifications for the items being supplied in accordance with the standard.
- b. Bidders should extend the warranty for 3 years for all supply and installations.
- c. Bidders are supposed to execute separate agreement with Institutions availing the service based on mutual terms.
- d. Bidders are supposed to respond to the Institutions within 24 hours of raising the request or intimation in writing regarding the work requirements.
- e. The bidder shall be responsible to ensure the timely completion of the project as per the approved plan and flag issues to the respective Government Institution proactively wherever delay is anticipated if it fails to resolve the same.
- f. The bidder shall be responsible for submission of installation, testing and commissioning certificate along with supporting documents nominated by the Government institutions if any, timely submission of invoices with supporting documents to the Government institutions/for their validation. Similarly, the invoices submitted by the empanelled bidder shall be processed by respective Government Institutions.
- g. Bidder would be bound by stipulated time schedule and damages, focusing on timely completion of audit and certification processes as well as the verification by the Government institutions.
- h. The Government institutions reserves the right to verify the reports being submitted to ascertain their accuracy.
- i. Payment schedule - The payment for the Bidder would be processed after the work completion. The payment to be made to the Bidder shall be subject to the SLAs (Service Level Agreements) to be signed by the bidder and the Government Institution post issuance of work order by the respective Government Institution.
- j. In the case of Wired Router, current approved Make in India product is NetKera Router. If any other Make in India product is opted/offered to the Institutions, then the product should be at the rate specified and should adhere to the Terms and conditions published by the **DoT/ MeitY (Public Procurement (Preference to Make in India) Order 2017- Notification of Telecom Products, Services or Works - regarding.**

Reference :

- i) Department of Industrial Policy & Promotion (DIPP) Order No. P- 45021/2/2017-B.E.-II dated 15.06.2017
- ii) Department of Industrial Policy & Promotion (DIPP) Order No. P- 45021/2/2017-PP (BE-II) dated 28.05.2018

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10. Instructions to the Institutions availing bidder services

- a. This is only an empanelment process to facilitate the connectivity at Government Institutions. L1 rate is arrived after detailed evaluation of price quoted by all the bidders. This is only a tentative rate. Respective departments may have a detailed negotiation with empaneled vendors before awarding the work.
- b. Institutions are requested to get in touch with L1 bidder based on office requirement for the work.
- c. Based on mutual discussion, Government Institution is requested to award the work and sign an agreement with the bidder on agreed terms
- d. In case, L1 bidder is not responding to calls or emails within 24 hours of intimation, Institutions may initiate discussion with other empaneled bidders for carrying out the work.
- e. We recommend Institutions to select only quality & ISO marked items to carry out the work.
- f. Institutions may choose to negotiate with the bidders for arriving at the final rate prevailing at the time of awarding the work.

11. Contact Details of empaneled Bidders

S. No	Bidder	Level 1			Level 2		
		Contact Person name	Email	Contact Number	Contact Person name	Email	Contact Number
1	Mexayne Engineering services Pvt Ltd	Vishnu Thampan	vishnu@mexayne.com	9526154001			
2	CITSA	Sreekumar Pullarkattu Mohanan	sreekumar@citsat.com	9846322265	Parasaran	parasaran@citsat.com	9846524365
3	SUN Systems	SajithKumar Prabhakaran	sunsystemin@gmail.com	9447050200			
4	Trios Infotech Pvt Ltd	Vineeth	accounts@trois.in	9567810974			
5	Medical & Visual Technologies	D. Anikuttan	mvtl2012@gmail.com	9847062633, 9847062644, 9847062699			

12. Annexure 1 - Lowest price per item

A. Category - Small and medium sized business BoQ Rate

S.No	Description	L1 quoted Rate	Approved make
A	LAN COPPER CABLING		
	Supply, Installation, Termination, Testing and Commissioning of following Copper Components		
	(Supply of Cat 6 cables ,23awg, LSZH as per IEC - 60322-3 with ETL third party channel certificate for all accessories like IO, Patch cord ,Face plate, jack panel etc. from same OEM. 25-year OEM warranty preferred)		
1	4 Pair UTP - Category 6 cable	44	Panduit, CommScope, Nexus, Actassi, Siemon
2	Category 6 Information Outlet with faceplate and SMB	198	Panduit, CommScope, Nexus, Actassi, Siemon
3	Category 6 Information Outlet with dual faceplate and SMB	590	Panduit, CommScope, Nexus, Actassi, Siemon
4	Category 6 Patch Cord 4 ft. For Data Rack Side	320	Panduit, CommScope, Nexus, Actassi, Siemon
5	Category 6 Patch Cord 7 ft. For Data Field Side	390	Panduit, CommScope, Nexus, Actassi, Siemon
6	Category 6 Loaded Patch Panel	7200	Panduit, CommScope, Nexus, Actassi, Siemon
7	Category 6 I/O for patch panel	330	Panduit, CommScope, Nexus, Actassi, Siemon
8	27U/24U, Standard DIN 41494, 575 mm Depth 1000mm Doors Rear door, perforated Front Glass Door, The rack doors to have locking system, General Angle support for equipment's, Castors with brakes, Cable management	40000	Startronix, Schneider, D-Link

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	accessories, Vertical managers:2 Nos , Horizontal managers Rack trays : 2 nos min, Power distribution box with 10 nos of 5/15A power sockets, Fan and fan trays, Keyboard Tray,		
9	19" 9 U wall mount closed rack with Horizontal power strips of 5 sockets (1 Nos) , Fans , vertical cable managers 2Nos ,bolts nuts and all accessories. Additional rack, DIN 41494	6000	Startronix, Schneider, D-Link
10	19" 6 U wall mount closed rack with Horizontal power strips of 5 sockets (1 Nos) , Fans , vertical cable managers 2Nos ,bolts nuts and all accessories. Additional rack, DIN 41494	5400	Startronix, Schneider, D-Link
11	25mm PVC Cap on Casing/ Flexible / Conduit	35	ISI Mark
12	38mm PVC Cap on Casing/ Flexible / Conduit	60	ISI Mark
B	FIBER CABLING		
	Supply, Installation, Termination, Testing and Commissioning of following Copper Components		
	(Supply of Cat 6 cables ,23awg, LSZH as per IEC - 60322-3 with ETL third party channel certificate for all accessories like IO, Patch cord ,Face plate, jack panel etc. from same OEM. 25-year OEM warranty preferred)		
1	6 F Core SM Low Water leak OSP Fiber Cable (Indoor)	350	Panduit, CommScope, Nexus, Actassi, Siemon
2	12F Core SM Low Water leak OSP Fiber Cable (Indoor)	400	Panduit, CommScope, Nexus, Actassi, Siemon
3	24F Core SM Low Water leak OSP Fiber Cable(Indoor)	590	Panduit, CommScope, Nexus, Actassi, Siemon

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4	48F Core SM Low Water leak OSP Fiber Cable (Indoor)	1200	Panduit, CommScope, Nexus, Actassi, Siemon
1	6 F Core SM Low Water leak OSP Fiber Cable (Outdoor)	270	Panduit, CommScope, Nexus, Actassi, Siemon
2	12F Core SM Low Water leak OSP Fiber Cable (Outdoor)	345	Panduit, CommScope, Nexus, Actassi, Siemon
3	24F Core SM Low Water leak OSP Fiber Cable (Outdoor)	575	Panduit, CommScope, Nexus, Actassi, Siemon
4	48F Core SM Low Water leak OSP Fiber Cable (Outdoor)	1140	Panduit, CommScope, Nexus, Actassi, Siemon
5	SC-LC Duplex SM Patchcords-2 Mtr	3350	Panduit, CommScope, Nexus, Actassi, Siemon
6	12-fiber SC-Style, Single mode, 19-inch Rack mount Patch Panel, 1U, Loaded with adapter Plates and Pigtail with connectors	22500	Panduit, CommScope, Nexus, Actassi, Siemon
7	24-fiber SC-Style, Single mode, 19-inch Rack mount Patch Panel, 4U, Loaded with adapter Plates and Pigtail with connectors	34500	Panduit, CommScope, Nexus, Actassi, Siemon
8	LSZH jacket with Armor	70	ISI Mark
9	HDPE Pipe with Armor	60	ISI Mark
C	Supply, Installation, Testing and Commissioning of Active Components (The components should be compatible with existing KFON End office devices)		
1	24 Port 10/100/1000Mbps Gigabit Ethernet Switch Web Managed Switch	124000	Cisco/ HPE/ Juniper/ D-Link/ Tejas
2	24 Port 10/100/1000Mbps Web Managed Switch with 2 Gig SFP ports	55000	Cisco/ HPE/ Juniper/ D-Link/ Tejas
3	48 Port 10/100/1000Mbps Web Managed Switch with 2 Gig SFP ports	190000	Cisco/ HPE/ Juniper/ D-Link/ Tejas
4	16 Port 10/100/1000Mbps Web Managed Switch	49000	Cisco/ HPE/ Juniper/ D-Link/ Tejas

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5	8 port 100/1000 Mbps Fast Ethernet Unmanaged PoE Switch with 8 PoE Ports	14500	Cisco/ HPE/ Juniper/ D-Link/ Tejas
6	Media Convertors for Fiber	4000	Not specified
7	Wi-Fi Access Point (POE enabled) (2X2)	16600	Cisco/ HPE/ Juniper/ Reckus/ D-Link
8	Wi-Fi Access Point (POE enabled) (4X4)	33500	Cisco/ HPE/ Juniper/ Reckus/ D-Link
9	Wireless Router (2X2)	6500	Tejas / Alphion/ Tp-Link/Tenda/Pronto/Netgear/Cisco/Link Sys with Ethernet/Fibre Input
10	Wireless Router (4X4)	6500	Tejas / Alphion/ Tp-Link/Tenda/Pronto/Netgear/Cisco/Link Sys with Ethernet/Fibre Input
11	Wired Router - Multi WAN router with URL based routing	1,69,000 (1,24,000 for Make in India Brand)	Cisco/ HPE/ Juniper (Make in India Brand - NetKera)
D	Electrical Components		
	Electrical Distribution Board & wiring		
D-1	Supply, Installation, testing and commissioning of following distribution board including all accessories and commissioning etc. as required (single Phase Supply)		
1	64 A DP MCB	1700	Legrand, Havells, L&T
2	32 A DP MCB	1044	Legrand, Havells, L&T
3	8WSPN MCB DB	2576	Legrand, Havells, L&T
4	32 A DP MCB with Enclosure	1044	Legrand, Havells, L&T
5	32 A 2 pole Change over Switch	808	Legrand, Havells, L&T
6	32 A isolator	508	Legrand, Havells, L&T
7	16 A DP MCB	1040	Legrand, Havells, L&T
8	10 A SP MCB	316	Legrand, Havells, L&T
9	Incomer 8 WDB	2637	Legrand, Havells, L&T
10	Incomer 6 WDB	2241	Legrand, Havells, L&T

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D-2	Supply, installation testing and commissioning of following distribution board including all accessories and commissioning etc. as required (three Phase Supply)		
1	16 WAY TPN DB	12548	Legrand, Havells, L&T
2	63 A 4P MCB	3012	Legrand, Havells, L&T
3	32 A 4P MCB	2296	Legrand, Havells, L&T
4	32 A 4 Pole change Over Switch	3096	Legrand, Havells, L&T
5	32 A 4P MCB with Enclosure	2496	Legrand, Havells, L&T
6	32 A 4P MCB isolator	1106	Legrand, Havells, L&T
7	10 A SP MCB	326	Legrand, Havells, L&T
8	16 WAY TPN DB (for IT Distribution DB)	12548	Legrand, Havells, L&T
9	32 A DP MCB	984	Legrand, Havells, L&T
D-3	END POINT AND ELECTRICAL CABLE-Supply, Installation, Termination, Testing and Commissioning with accessories		
1	5A socket 2 nos with box and face plate	707	Legrand, Havells, L&T
2	5A SP switch 1 nos	90	Legrand, Havells, L&T
3	2x1.5 sq mm wiring As reqd	95	Havells, L&T,RR, Polycab
4	1.5 sq mm wiring As reqd (for earthing)	45	Havells, L&T,RR, Polycab
5	15A socket 1 nos with switch main Rack	846	Legrand, Havells, L&T
6	Earthing for main rack	100	Brand Not specified (earthing can be consider as case by case only. So earthing should carried out as per the requirement of the customer and to ensure earth value is within the acceptable range.
7	2x 4 sq mm Aluminum armored cable wiring As reqd	143	Havells, L&T,RR, Polycab
8	2x 4 sq mm copper cable wiring As reqd	181	Havells, L&T,RR, Polycab
9	1 kVA UPS with 1 hour battery Backup	21000	APC Luminous, Vertiv, Microtek
10	600 VA UPS with 30 minutes battery Backup for Rack	5580	APC Luminous, Vertiv, Microtek

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E	Labour Charge		
1	Rate per Node	3000	

B. Category - Enterprise BoQ Rate

S.Nos	Description	L1 quoted Rate	Approved make
A	LAN COPPER CABLING		
	Supply, Installation, Termination, Testing and Commissioning of following Copper Components		
	(Supply of Cat 6 cables ,23awg, LSZH as per IEC - 60322-3 with ETL third party channel certificate for all accessories like IO, Patch cord ,Face plate, jack panel etc. from same OEM. 25-year OEM warranty preferred)		
1	4 Pair UTP - Category 6 cable	44	Panduit, CommScope, Nexus, Actassi, Siemon
2	Category 6 Information Outlet with faceplate and SMB	198	Panduit, CommScope, Nexus, Actassi, Siemon
3	Category 6 Information Outlet with dual faceplate and SMB	590	Panduit, CommScope, Nexus, Actassi, Siemon
4	Category 6 Patch Cord 4 ft. For Data Rack Side	320	Panduit, CommScope, Nexus, Actassi, Siemon
5	Category 6 Patch Cord 7 ft. For Data Field Side	390	Panduit, CommScope, Nexus, Actassi, Siemon
6	Category 6 Loaded Patch Panel	7200	Panduit, CommScope, Nexus, Actassi, Siemon
7	Category 6 I/O for patch panel	330	Panduit, CommScope, Nexus, Actassi, Siemon
8	27U/24U ,Standard DIN 41494, 575 mm Depth 1000mm Doors Rear door, perforated Front Glass Door, The rack doors to have locking system, General Angle support for equipment's, Castors with brakes, Cable management accessories, Vertical managers:2 Nos , Horizontal managers Rack trays : 2 nos min, Power distribution box with 10 nos of 5/15A power sockets, Fan and fan trays, Keyboard Tray,	40000	Startronix, Schneider, D-Link
9	19" 9 U wall mount closed rack with Horizontal power strips of 5 sockets (1 Nos) , Fans , vertical cable managers 2Nos ,bolts nuts and all accessories. Additional rack, DIN 41494	6000	Startronix, Schneider, D-Link
10	19" 6 U wall mount closed rack with Horizontal power strips of 5 sockets (1 Nos) , Fans , vertical cable managers 2Nos ,bolts nuts and all accessories. Additional rack, DIN 41494	5400	Startronix, Schneider, D-Link

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11	25mm PVC Cap on Casing/ Flexible / Conduit	35	ISI Mark
12	38mm PVC Cap on Casing/ Flexible / Conduit	60	ISI Mark
B	FIBER CABLING		
	Supply, Installation, Termination, Testing and Commissioning of following Copper Components		
	(Supply of Cat 6 cables ,23awg, LSZH as per IEC - 60322-3 with ETL third party channel certificate for all accessories like IO, Patch cord ,Face plate, jack panel etc. from same OEM. 25-year OEM warranty preferred)		
1	6 F Core SM Low Water leak OSP Fiber Cable (Indoor)	350	Panduit, CommScope, Nexus, Actassi, Siemon
2	12F Core SM Low Water leak OSP Fiber Cable (Indoor)	400	Panduit, CommScope, Nexus, Actassi, Siemon
3	24F Core SM Low Water leak OSP Fiber Cable(Indoor)	590	Panduit, CommScope, Nexus, Actassi, Siemon
4	48F Core SM Low Water leak OSP Fiber Cable (Indoor)	1200	Panduit, CommScope, Nexus, Actassi, Siemon
1	6 F Core SM Low Water leak OSP Fiber Cable (Outdoor)	270	Panduit, CommScope, Nexus, Actassi, Siemon
2	12F Core SM Low Water leak OSP Fiber Cable (Outdoor)	345	Panduit, CommScope, Nexus, Actassi, Siemon
3	24F Core SM Low Water leak OSP Fiber Cable (Outdoor)	575	Panduit, CommScope, Nexus, Actassi, Siemon
4	48F Core SM Low Water leak OSP Fiber Cable (Outdoor)	1140	Panduit, CommScope, Nexus, Actassi, Siemon
5	SC-LC Duplex SM Patchcords-2 Mtr	3350	Panduit, CommScope, Nexus, Actassi, Siemon
6	12-fiber SC-Style, Single mode, 19-inch Rack mount Patch Panel, 1U, Loaded with adapter Plates and Pigtail with connectors	22500	Panduit, CommScope, Nexus, Actassi, Siemon
7	24-fiber SC-Style, Single mode, 19-inch Rack mount Patch Panel, 4U, Loaded with adapter Plates and Pigtail with connectors	34500	Panduit, CommScope, Nexus, Actassi, Siemon
8	LSZH jacket with Armor	70	ISI Mark
9	HDPE Pipe with Armor	60	ISI Mark
C	Supply, Installation, Testing and Commissioning of Active Components (The components should be compatible with existing KFON End office devices)		
1	24 Port 10/100/1000Mbps Gigabit Ethernet Switch Web Managed Switch	55000	Cisco/ HPE/ Juniper/ D-Link/ Tejas
2	24 Port 10/100/1000Mbps Web Managed Switch with 2 Gig SFP ports	55000	Cisco/ HPE/ Juniper/ D-Link/ Tejas
3	48 Port 10/100/1000Mbps Web Managed Switch with 2 Gig SFP ports	190000	Cisco/ HPE/ Juniper/ D-Link/ Tejas
4	16 Port 10/100/1000Mbps Web Managed Switch	124000	Cisco/ HPE/ Juniper/ D-Link/ Tejas
5	8 port 100/1000 Mbps Fast Ethernet Unmanaged PoE Switch with 8 PoE Ports	41040	Cisco/ HPE/ Juniper/ D-Link/ Tejas

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6	Media Convertors for Fiber	4800	
7	Wi-Fi Access Point (POE enabled) (2X2)	16600	Cisco/ HPE/ Juniper/ Reckus/ D-Link
8	Wi-Fi Access Point (POE enabled) (4X4)	33500	Cisco/ HPE/ Juniper/ Reckus/ D-Link
9	Wireless Router (2X2)	6500	Tejas / Alphion/ Tp-Link/ Tenda/ Pronto/ Netgear/ Cisco/ LinkSys with Ethernet/ Fibre Input
10	Wireless Router (4X4)	6500	Tejas / Alphion/ Tp-Link/ Tenda/ Pronto/ Netgear/ Cisco/ LinkSys with Ethernet/ Fibre Input
11	Wired Router - Multi WAN router with URL based routing	169000	Cisco/ HPE/ Juniper
D	Electrical Components		
	Electrical Distribution Board & wiring		
D-1	Supply, installation, testing and commissioning of following distribution board including all accessories and commissioning etc. as required (single Phase Supply)		
1	64 A DP MCB	840	Legrand, Havells, L&T
2	32 A DP MCB	740	Legrand, Havells, L&T
3	8WSPN MCB DB	2400	Legrand, Havells, L&T
4	32 A DP MCB with Enclosure	1044	Legrand, Havells, L&T
5	32 A 2 pole Change over Switch	808	Legrand, Havells, L&T
6	32 A isolator	508	Legrand, Havells, L&T
7	16 A DP MCB	1040	Legrand, Havells, L&T
8	10 A SP MCB	316	Legrand, Havells, L&T
9	Incomer 8 WDB	8082	Legrand, Havells, L&T
10	Incomer 6 WDB	6704	Legrand, Havells, L&T
D-2	Supply, installation, testing and commissioning of following distribution board including all accessories and commissioning etc. as required (three Phase Supply)		
1	16 WAY TPN DB	15078	Legrand, Havells, L&T
2	63 A 4P MCB	3250	Legrand, Havells, L&T
3	32 A 4P MCB	2296	Legrand, Havells, L&T
4	32 A 4 Pole change Over Switch	3096	Legrand, Havells, L&T
5	32 A 4P MCB with Enclosure	2400	Legrand, Havells, L&T
6	32 A 4P MCB isolator	1106	Legrand, Havells, L&T
7	10 A SP MCB	299	Legrand, Havells, L&T
8	16 WAY TPN DB (for IT Distribution DB)	13250	Legrand, Havells, L&T
9	32 A DP MCB	600	Legrand, Havells, L&T
D-3	END POINT AND ELECTRICAL CABLE-Supply, Installation, Termination, Testing and Commissioning with accessories		
1	5A socket 2 nos with box and face plate	590	Legrand, Havells, L&T
2	5A SP switch 1 nos	62	Legrand, Havells, L&T

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3	2x1.5 sq mm wiring As reqd	54	Havells, L&T,RR, Polycab
4	1.5 sq mm wiring As reqd (for earthing)	47	Havells, L&T,RR, Polycab
5	15A socket 1 nos with switch main Rack	846	Legrand, Havells, L&T
6	Earthing for main rack	100	
7	2x 4 sq mm Aluminum armored cable wiring As reqd	77	Havells, L&T,RR, Polycab
8	2x 4 sq mm copper cable wiring As reqd	145	Havells, L&T,RR, Polycab
9	1 kVA UPS with 1 hour battery Backup	6600	APC Luminous, Vertiv, Microtek
10	600 VA UPS with 30 minutes battery Backup for Rack	3333	APC Luminous, Vertiv, Microtek
E	Labor Charge		
1	Rate per Node	2200	

In the case of Wired Router, current approved Make in India product is NetKera Router. If any other Make in India product is opted/offered to the Institutions, then the product should be at the same rate and adhere to the Terms and conditions published by the **DoT/MeitY (Public Procurement (Preference to Make in India) Order 2017- Notification of Telecom Products, Services or Works - regarding.**

Reference :

- i) Department of Industrial Policy & Promotion (DIPP) Order No. P- 45021/2/2017-B.E.-II dated 15.06.2017
- ii) Department of Industrial Policy & Promotion (DIPP) Order No. P- 45021/2/2017-PP (BE-II) dated 28.05.2018

13. Annexure 2 - Price quoted by Other empaneled Bidders (For SMB Category)

S. No s	Description	CITSA		Medical & Visual Technologies		SUN Systems		Trois Infotech Pvt	
		SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand
	Supply, Installation, Termination, Testing and Commissioning of following Copper Components								
	(Supply of Cat 6 cables ,23awg, LSZH as per IEC - 60322-3 with ETL third party channel certificate for all accessories like IO, Patch cord ,Face plate, jack panel etc from same OEM. 25-year OEM warranty preferred)								
1	4 Pair UTP - Category 6 cable	44	Com mscope	48	Com mscope	46	Comm scope	70	Legrand
2	Category 6 Information Outlet with faceplate and SMB	480	Com mscope	198	Com mscope	495	Comm scope	915	Legrand
3	Category 6 Information Outlet with dual faceplate and SMB	590	Com mscope	610	Com mscope	615	Comm scope	1080	Legrand
4	Category 6 Patch Cord 4 ft. For Data Rack Side	320	Com mscope	335	Com mscope	340	Comm scope	218	Legrand
5	Category 6 Patch Cord 7 ft. For Data Field Side	390	Com mscope	395	Com mscope	400	Comm scope	236	Legrand
6	Category 6 Loaded Patch Panel	7200	Com mscope	7325	Com mscope	7300	Comm scope	3108	Legrand
7	Category 6 I/O for patch panel	330	Com mscope	360	Com mscope	360	Comm scope	2025	Legrand

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S. Nos	Description	CITSA		Medical & Visual Technologies		SUN Systems		Trois Infotech Pvt	
		SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand
A	LAN COPPER CABLING								
8	27U/24U ,Standard DIN 41494, 575 mm Depth 1000mm Doors Rear door, perforated Front Glass Door, The rack doors to have locking system, General Angle support for equipment's, Castors with brakes, Cable management accessories, Vertical managers:2 Nos , Horizontal managers Rack trays : 2 nos min, Power distribution box with 10 nos of 5/15A power sockets, Fan and fan trays, Keyboard Tray,	44000	Dlink /Legrand	46000	Dlink /Legrand	46500	Dlink/ Legrand	52500	Legrand
9	19" 9U wall mount closed rack with Horizontal power strips of 5 sockets (1 Nos) , Fans , vertical cable managers 2Nos ,bolts nuts and all accessories. Additional rack, DIN 41494	6900	Dlink /Legrand	7400	Dlink /Legrand	7550	Dlink/ Legrand	12450	Legrand
10	19" 6U wall mount closed rack with Horizontal power strips of 5 sockets (1 Nos) , Fans , vertical cable managers 2Nos ,bolts nuts and all accessories. Additional rack, DIN 41494	5900	Dlink /Legrand	6400	Dlink /Legrand	6550	Dlink/ Legrand	10050	Legrand
11	25mm PVC Cap on Casing/ Flexible / Conduit	98	Nil	99	NA	99	NA	100	Legrand
12	38mm PVC Cap on Casing/ Flexible / Conduit	110	Nil	120	NA	115	NA	102	Legrand
B	FIBER CABLING								
	Supply, Installation, Termination, Testing and Commissioning of following Copper Components								
	(Supply of Cat 6 cables ,23awg, LSZH as per IEC - 60322-3 with ETL third party channel certificate for all accessories like IO, Patch cord ,Face plate, jack								

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S. No s	Description	CITSA		Medical & Visual Technologies		SUN Systems		Trois Infotech Pvt	
		SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand
	panel etc from same OEM. 25-year OEM warranty preferred)								
1	6 F Core SM Low Water leak OSP Fiber Cable (Indoor)	350	Com mscope	375	Com mscope	380	Comm scope	125	Legrand
2	12F Core SM Low Water leak OSP Fiber Cable (Indoor)	400	Com mscope	420	Com mscope	425	Comm scope	146	Legrand
3	24F Core SM Low Water leak OSP Fiber Cable(Indoor)	590	Com mscope	610	Com mscope	610	Comm scope	200	Legrand
4	48F Core SM Low Water leak OSP Fiber Cable (Indoor)	1200	Com mscope	1250	Com mscope	1250	Comm scope	299	Legrand
1	6 F Core SM Low Water leak OSP Fiber Cable (Outdoor)	270	Com mscope	285	Com mscope	290	Comm scope	132	Legrand
2	12F Core SM Low Water leak OSP Fiber Cable (Outdoor)	345	Com mscope	380	Com mscope	350	Comm scope	153	Legrand
3	24F Core SM Low Water leak OSP Fiber Cable (Outdoor)	575	Com mscope	580	Com mscope	580	Comm scope	200	Legrand
4	48F Core SM Low Water leak OSP Fiber Cable (Outdoor)	1140	Com mscope	1300	Com mscope	1200	Comm scope	299	Legrand
5	SC-LC Duplex SM Patchcords-2 Mtr	3350	Com mscope	3590	Com mscope	3600	Comm scope	1746	Legrand
6	12-fiber SC-Style, Single mode, 19-inch Rack mount Patch Panel, 1U, Loaded with adapter Plates and Pigtail with connectors	22500	Com mscope	23500	Com mscope	24000	Comm scope	12594	Legrand
7	24-fiber SC-Style, Single mode, 19-inch Rack mount Patch Panel, 4U, Loaded with adapter Plates and Pigtail with connectors	34500	Com mscope	37800	Com mscope	38000	Comm scope	20363	Legrand
8	LSZH jacket with Armored	400	Nil	750	NA	500	NA	NA	NA
9	HDPE Pipe with Armored	500	Nil	900	NA	600	NA	150	HDPE pipe without armour

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S. Nos	Description	CITSA		Medical & Visual Technologies		SUN Systems		Trois Infotech Pvt	
		SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand
C	Supply, Installation, Testing and Commissioning of Active Components (The components should be compatible with existing KFON End office devices)								
1	24 Port 10/100/1000Mbps Gigabit Ethernet Switch Web Managed Switch	124000	Tejas	NA	NA	NA	NA	43900	(The bidder quoted rate for unapproved brand)
2	24 Port 10/100/1000Mbps Web Managed Switch with 2 Gig SFP ports	NA	NA	NA	NA	NA	NA	43900	(The bidder quoted rate for unapproved brand)
3	48 Port 10/100/1000Mbps Web Managed Switch with 2 Gig SFP ports	247700	Tejas	NA	NA	NA	NA	85500	(The bidder quoted rate for unapproved brand)
4	16 Port 10/100/1000Mbps Web Managed Switch	49000	Dlink	65000	Dlink	68750	Dlink	46500	(The bidder quoted rate for unapproved brand)
5	8 port 100/1000 Mbps Fast Ethernet Unmanaged PoE Switch with 8 PoE Ports	14500	Dlink	19500	Dlink	23750	Dlink	38700	(The bidder quoted rate for unapproved brand)
6	Media Convertors for Fiber	7000	Syrotech	8100	Syrotech	8250	Syrotech	4000	Syrotech
7	Wifi Access Point (POE enabled) (2X2)	19000	Dlink	29750	Dlink	34500	Dlink	31095	Pronto
8	Wifi Access Point (POE enabled) (4X4)	49000	Dlink	69780	Dlink	65000	Dlink	43679	Pronto
9	Wireless Router (2X2)	6600	Alphion	7500	Alphion	7500	Alphion	16340	Pronto/TP-Link/Dlink/Tejas
10	Wireless Router (4X4)	7800	Alphion	10750	Alphion	9500	Alphion	20500	Pronto/TP-Link/Dlink
11	Wired Router - Multi WAN router with URL based routing	124000	NetKera (Make in India)	148500	NetKera (Make in India)	165000	NetKera (Make in India)	79500	(The bidder quoted rate for unapproved brand)
D	Electrical Components								
	Electrical Distribution Board & wiring								

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S. No s	Description	CITSA		Medical & Visual Technologies		SUN Systems		Trois Infotech Pvt	
		SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand
D-1	Supply, erection testing and commissioning of following distribution board including all accessories and commissioning etc as required (single Phase Supply)								
1	64 A DP MCB	NA	NA	NA	NA	950	NA	1799	L&T/Have lls
2	32 A DP MCB	NA	NA	NA	NA	890	NA	1311	L&T/Have lls
3	8WSPN MCB DB	NA	NA	NA	NA	2750	NA	2637	L&T/Have lls
4	32 A DP MCB with Enclosure	NA	NA	NA	NA	2800	NA	1898	L&T/Have lls
5	32 A 2 pole Change over Switch	NA	NA	NA	NA	NA	NA	2235	L&T/Have lls
6	32 A isolator	NA	NA	NA	NA	NA	NA	1025	L&T/Have lls
7	16 A DP MCB	NA	NA	NA	NA	NA	NA	1311	L&T/Have lls
8	10 A SP MCB	NA	NA	NA	NA	NA	NA	814	L&T/Have lls
9	Incomer 8 WDB	NA	NA	NA	NA	NA	NA	2637	L&T/Have lls
10	Incomer 6 WDB	NA	NA	NA	NA	NA	NA	2241	L&T/Have lls
D-2	Supply, erection testing and commissioning of following distribution board including all accessories and commissioning etc as required (three Phase Supply)								
1	16 WAY TPN DB	NA	NA	NA	NA	NA	NA	12548	L&T/Have lls
2	63 A 4P MCB	NA	NA	NA	NA	NA	NA	3012	L&T/Have lls
3	32 A 4P MCB	NA	NA	NA	NA	NA	NA	2366	L&T/Have lls
4	32 A 4 Pole change Over Switch	NA	NA	NA	NA	NA	NA	3569	L&T/Have lls
5	32 A 4P MCB with Enclosure	NA	NA	NA	NA	2600	NA	2715	L&T/Have lls

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S. No s	Description	CITSA		Medical & Visual Technologies		SUN Systems		Trois Infotech Pvt	
		SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand	SMB Rate	Brand
A	LAN COPPER CABLING								
6	32 A 4P MCB isolator	NA	NA	NA	NA	2500	NA	2051	L&T/Have lls
7	10 A SP MCB	NA	NA	NA	NA	300	NA	813	L&T/Have lls
8	16 WAY TPN DB (for IT Distribution DB)	NA	NA	NA	NA	14000	NA	12548	L&T/Have lls
9	32 A DP MCB	NA	NA	NA	NA	750	NA	1311	L&T/Have lls
D-3	END POINT AND ELECTRICAL CABLE-Supply, Installation, Termination, Testing and Commissioning with accessories								
1	5A socket 2 nos with box and face plate	NA	NA	NA	NA	650	NA	1186	L&T/Have lls
2	5A SP switch 1 nos	NA	NA	NA	NA	70	NA	821	L&T/Have lls
3	2x1.5 sq mm wiring As reqd	NA	NA	NA	NA	58	NA	95	L&T/Have lls
4	1.5 sq mm wiring As reqd (for earthing)	NA	NA	NA	NA	50	NA	45	L&T/Have lls
5	15A socket 1 nos with switch main Rack	NA	NA	NA	NA	1500	NA	976	L&T/Have lls
6	Earthing for main rack	NA	NA	NA	NA	15000	NA	5000	NA
7	2x 4 sq mm Aluminum armoured cable wiring As reqd	NA	NA	NA	NA	80	NA	289	L&T/Have lls
8	2x 4 sq mm copper cable wiring As reqd	NA	NA	NA	NA	165	NA	181	L&T/Have lls
9	1 kVA UPS with 1 hour battery Backup	NA	NA	NA	NA	7500	NA	42976	(The bidder quoted rate for unapproved brand)
10	600 VA UPS with 30 minutes battery Backup for Rack	NA	NA	NA	NA	3500	NA	5850	(The bidder quoted rate for unapproved brand)
E	Labour Charge								
1	Rate per Node	NA	NA	NA	NA	3000		Installation rate is included in the item price	

14. Annexure 3 – Price quoted by Other empaneled Bidders (Enterprise Category)

S. Nos	Description	CITSA		Medical & Visual Technologies		SUN Systems		Trois Infotech Pvt	
		Enterprise Rate	Brand	Enterprise Rate	Brand	Enterprise Rate	Brand	Enterprise Rate	Brand
	Supply, Installation, Termination, Testing and Commissioning of following Copper Components (Supply of Cat 6 cables ,23awg, LSZH as per IEC -60322-3 with ETL third party channel certificate for all accessories like IO, Patch cord ,Face plate, jack panel etc from same OEM. 25 year OEM warranty preferred)								
1	4 Pair UTP - Category 6 cable	44	Com mscop e	48	Com mscop e	46	Com mscop e	70	Legrand (Unspecified brand)
2	Category 6 Information Outlet with faceplate and SMB	480	Com mscop e	198	Com mscop e	495	Com mscop e	NA	NA
3	Category 6 Information Outlet with dual faceplate and SMB	590	Com mscop e	610	Com mscop e	615	Com mscop e	NA	NA
4	Category 6 Patch Cord 4 ft. For Data Rack Side	320	Com mscop e	335	Com mscop e	340	Com mscop e	NA	NA
5	Category 6 Patch Cord 7 ft. For Data Field Side	390	Com mscop e	395	Com mscop e	400	Com mscop e	NA	NA
6	Category 6 Loaded Patch Panel	7200	Com mscop e	7325	Com mscop e	7300	Com mscop e	NA	NA
7	Category 6 I/O for patch panel	330	Com mscop e	360	Com mscop e	360	Com mscop e	NA	NA
8	27U/24U ,Standard DIN 41494, 575 mm Depth 1000mm Doors Rear door, perforated Front Glass Door, The rack doors to have locking system, General Angle support for equipment's, Castors with brakes, Cable management	44000	Dlink /Legrand	46000	NA	46500	NA	NA	NA

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S. Nos	Description	CITSA		Medical & Visual Technologies		SUN Systems		Trois Infotech Pvt	
		Enterp rise Rate	Brand	Enterp rise Rate	Brand	Enterp rise Rate	Brand	Enterp rise Rate	Brand
A	LAN COPPER CABLING								
	accessories, Vertical managers:2 Nos , Horizontal managers Rack trays : 2 nos min, Power distribution box with 10 nos of 5/15A power sockets, Fan and fan trays, Keyboard Tray,								
9	19" 9 U wall mount closed rack with Horizontal power strips of 5 sockets (1 Nos) , Fans , vertical cable managers 2Nos ,bolts nuts and all accessories. Additional rack, DIN 41494	6900	Dlink /Legrand	7400	NA	7550	NA	NA	NA
10	19" 6 U wall mount closed rack with Horizontal power strips of 5 sockets (1 Nos) , Fans , vertical cable managers 2Nos ,bolts nuts and all accessories. Additional rack, DIN 41494	5900	Dlink /Legrand	6400	NA	6550	NA	NA	NA
11	25mm PVC Cap on Casing/ Flexible / Conduit	98	Nil	99	NA	99	NA	NA	NA
12	38mm PVC Cap on Casing/ Flexible / Conduit	110	Nil	120	NA	115	NA	NA	NA
B	FIBER CABLING								
	Supply, Installation, Termination, Testing and Commissioning of following Copper Components								
	(Supply of Cat 6 cables ,23awg, LSZH as per IEC -60322-3 with ETL third party channel certificate for all accessories like IO, Patch cord ,Face plate, jack panel etc from same OEM. 25-year OEM warranty preferred)								
1	6 F Core SM Low Water leak OSP Fiber Cable (Indoor)	350	Com mscop e	375	Com mscop e	380	Com mscop e	NA	NA
2	12F Core SM Low Water leak OSP Fiber Cable (Indoor)	400	Com mscop e	420	Com mscop e	425	Com mscop e	NA	NA
3	24F Core SM Low Water leak OSP Fiber Cable(Indoor)	590	Com mscop e	610	Com mscop e	610	Com mscop e	NA	NA

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S. Nos	Description	CITSA		Medical & Visual Technologies		SUN Systems		Trois Infotech Pvt	
		Enterp rise Rate	Brand	Enterp rise Rate	Brand	Enterp rise Rate	Brand	Enterp rise Rate	Brand
A	LAN COPPER CABLING								
4	48F Core SM Low Water leak OSP Fiber Cable (Indoor)	1200	Com mscop e	1250	Com mscop e	1250	Com mscop e	NA	NA
1	6 F Core SM Low Water leak OSP Fiber Cable (Outdoor)	270	Com mscop e	285	Com mscop e	290	Com mscop e	NA	NA
2	12F Core SM Low Water leak OSP Fiber Cable (Outdoor)	345	Com mscop e	380	Com mscop e	350	Com mscop e	NA	NA
3	24F Core SM Low Water leak OSP Fiber Cable (Outdoor)	575	Com mscop e	580	Com mscop e	580	Com mscop e	NA	NA
4	48F Core SM Low Water leak OSP Fiber Cable (Outdoor)	1140	Com mscop e	1300	Com mscop e	1200	Com mscop e	NA	NA
5	SC-LC Duplex SM Patchcords-2 Mtr	3350	Com mscop e	3590	Com mscop e	3600	Com mscop e	NA	NA
6	12-fiber SC-Style, Single mode, 19-inch Rack mount Patch Panel, 1U, Loaded with adapter Plates and Pigtail with connectors	22500	Com mscop e	23500	Com mscop e	24000	Com mscop e	NA	NA
7	24-fiber SC-Style, Single mode, 19-inch Rack mount Patch Panel, 4U, Loaded with adapter Plates and Pigtail with connectors	34500	Com mscop e	37800	Com mscop e	38000	Com mscop e	NA	NA
8	LSZH jacket with Armored	400	Nil	750	NA	500	NA	NA	NA
9	HDPE Pipe with Armored	500	Nil	900	NA	600	NA	NA	NA
C	Supply, Installation, Testing and Commissioning of Active Components (The components should be compatible with existing KFON End office devices)								
1	24 Port 10/100/1000Mbps Gigabit Ethernet Switch Web Managed Switch	124000	Junipe r	129800	Junipe r	130000	Junipe r	66000	Tejas
2	24 Port 10/100/1000Mbps Web Managed Switch with 2 Gig SFP ports	124000	Junipe r	129800	Junipe r	130000	Junipe r	66000	Tejas
3	48 Port 10/100/1000Mbps Web Managed Switch with 2 Gig SFP ports	247700	Junipe r	292500	Junipe r	280000	Junipe r	209000	Tejas
4	16 Port 10/100/1000Mbps Web Managed Switch	124000	Junipe r	129800	Junipe r	130000	Junipe r	66000	Tejas

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S. Nos	Description	CITSA		Medical & Visual Technologies		SUN Systems		Trois Infotech Pvt	
		Enterprise Rate	Brand	Enterprise Rate	Brand	Enterprise Rate	Brand	Enterprise Rate	Brand
A	LAN COPPER CABLING								
5	8 port 100/1000 Mbps Fast Ethernet Unmanaged PoE Switch with 8 PoE Ports	NA	NA	NA	NA	NA	NA	41040	Tejas
6	Media Convertors for Fiber	7000	Juniper	8100	Juniper	8250	Juniper	NA	NA
7	Wifi Access Point (POE enabled) (2X2)	69000	Juniper	77400	Juniper	78500	Juniper	NA	NA
8	Wifi Access Point (POE enabled) (4X4)	99000	Juniper	120000	Juniper	115000	Juniper	NA	NA
9	Wireless Router (2X2)	NA	NA	7500	NA	7500	NA	NA	NA
10	Wireless Router (4X4)	NA	NA	10750	NA	9500	NA	NA	NA
11	Wired Router - Multi WAN router with URL based routing	169000	Juniper	175000	Juniper	180000	Juniper	NA	NA
D	Electrical Components								
	Electrical Distribution Board & wiring								
D-1	Supply, erection testing and commissioning of following distribution board including all accessories and commissioning etc as required (single Phase Supply)								
1	64 A DP MCB	840	Legrand	970	Legrand	970	Legrand	NA	NA
2	32 A DP MCB	740	Legrand	930	Legrand	930	Legrand	NA	NA
3	8WSPN MCB DB	2400	Legrand	2680	Legrand	2680	Legrand	NA	NA
4	32 A DP MCB with Enclosure	2300	Legrand	2650	Legrand	2650	Legrand	NA	NA
5	32 A 2 pole Change over Switch	NA	NA	NA	NA	NA	NA	NA	NA
6	32 A isolator	NA	NA	NA	NA	NA	NA	NA	NA
7	16 A DP MCB	NA	NA	NA	NA	NA	NA	NA	NA
8	10 A SP MCB	NA	NA	NA	NA	NA	NA	NA	NA
9	Incomer 8 WDB	NA	NA	NA	NA	NA	NA	NA	NA
10	Incomer 6 WDB	NA	NA	NA	NA	NA	NA	NA	NA
D-2	Supply, erection testing and commissioning of following distribution board including all accessories and commissioning etc as required (three Phase Supply)								
1	16 WAY TPN DB	NA	NA	NA	NA	NA	NA	NA	NA
2	63 A 4P MCB	NA	NA	NA	NA	NA	NA	NA	NA
3	32 A 4P MCB	NA	NA	NA	NA	NA	NA	NA	NA

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S. Nos	Description	CITSA		Medical & Visual Technologies		SUN Systems		Trois Infotech Pvt	
		Enterp rise Rate	Brand	Enterp rise Rate	Brand	Enterp rise Rate	Brand	Enterp rise Rate	Brand
A	LAN COPPER CABLING								
4	32 A 4 Pole change Over Switch	NA	NA	NA	NA	NA	NA	NA	NA
5	32 A 4P MCB with Enclosure	2400	Legra nd	2600	Legra nd	2600	Legra nd	NA	NA
6	32 A 4P MCB isolator	1990	Legra nd	2400	Legra nd	2400	Legra nd	NA	NA
7	10 A SP MCB	299	Legra nd	350	Legra nd	350	Legra nd	NA	NA
8	16 WAY TPN DB (for IT Distribution DB)	13500	Legra nd	13250	Legra nd	13250	Legra nd	NA	NA
9	32 A DP MCB	600	Legra nd	800	Legra nd	800	Legra nd	NA	NA
D-3	END POINT AND ELECTRICAL CABLE- Supply, Installation, Termination, Testing and Commissioning with accessories								
1	5A socket 2 nos with box and face plate	590	Legra nd	700	Legra nd	700	Legra nd	NA	NA
2	5A SP switch 1 nos	62	Legra nd	65	Legra nd	65	Legra nd	NA	NA
3	2x1.5 sq mm wiring As reqd	54	RR	54	RR	54	RR	NA	NA
4	1.5 sq mm wiring As reqd (for earthing)	47	RR	49	RR	49	RR	NA	NA
5	15A socket 1 nos with switch main Rack	1300	Legra nd	1800	Legra nd	1800	Legra nd	NA	NA
6	Earthing for main rack	14500	NA	18000	NA	18000	NA	NA	NA
7	2x 4 sq mm Aluminum armored cable wiring As reqd	77	RR	78	RR	78	RR	NA	NA
8	2x 4 sq mm copper cable wiring As reqd	145	RR	160	RR	160	RR	NA	NA
9	1 kVA UPS with 1 hour battery Backup	6600	Microt ech/V ertiv	7800	Microt ech/V ertiv	7800	Microt ech/V ertiv	NA	NA
10	600 VA UPS with 30 minutes battery Backup for Rack	3333	Microt ech/V ertiv	3450	Microt ech/V ertiv	3450	Microt ech/V ertiv	NA	NA
E	Labor Charge								
1	Rate per Node	2200		4000		4000		NA	NA