



**DEVASWOM BOARD COLLEGE  
THALAYOLAPARAMBU**  
(Affiliated to Mahatma Gandhi University, Kottayam)

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**CRITERION VI**

*GOVERNANCE, LEADERSHIP AND MANAGEMENT*

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*Submitted to*  
The National Assessment and Accreditation Council  
(NAAC)  
February 2024



Midayikunnu P.O.Thalayolaparambu, Kottayam, Kerala - 686605

# ERP DOCUMENT



## Institutional Expenditure statements for the budget heads of e governance implementation ERP document

ERP system enable seamless communication and collaboration among different departments, faculty, students and administrative staff, college plans to implement an ERP system based on college's requirement. Since an ERP system centralises data related to various working components or stakeholders of the college, the provision of LAN infrastructure across the organisation is inevitable to access data efficiently and securely. So college made initiative for the purchase of ERP document and implementation of LAN alongside.

**Proposal from EMBASE PRO SUIT is under process**

### INSTALLATION OF WIRED LOCAL AREA NETWORK

Devaswom Board College Thalayolaparambu, Kottayam, Kerala 686605

#### Notice Inviting Tender

No. ROC. 27/19/Coll/DB/TLPU(3) dated 22.04.2021

Devaswom Board College, Thalayolaparambu invites online bids (e-tenders) through [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in) in two cover system from reputed and experienced System Integrators for supply, installation and commissioning of **Wired Local Area Network** (with Manufacturer warranty for maximum period) as per the technical specifications and in accordance with the various provisions of this tender documents. See below for the detailed instructions, technical specifications, terms and conditions, etc.

TenderNo. ROC. 27/19/Coll/DB/TLPU(3) dated 22.04.2021

**Tender for:** supply, installation and commissioning of **Wired Local Area Network**  
**Place of installation:** In the college campus (East Wing) of Devaswom Board College, Thalayolaparambu, Kottayam, Kerala.

**Form of Contract:** Itemwise  
**Number of cover/s:** Two

Cover Details			
	No. of Covers	Cover type	Contents
I	Two Covers	(a) Technical	9
		(b) Financial	1

**Estimated amount:** 6 lakhs

**Tender document fees Rs. 1200/-**

Note: The tender fee mentioned above does not include the taxes. GST at 18% under "Reverse Charge Mechanism" is to be paid by the bidder directly to the GST Department. Bidders are also liable to pay the required or balance amount of taxes due to any changes issued by the Government/competent authority/agency, time to time, during this tender and purchase process.

**EMD: Rs. 6000/-**

**Pre-bid Conference - NO**

#### Critical Dates

Publishing Date	23 <sup>rd</sup> April 2021, 2pm
Bid Submission Start Date	23 <sup>rd</sup> April 2021, 2pm
Bid Submission Closing Date	10 <sup>th</sup> May 2021, 12pm
Date of opening of Technical Bids	11 <sup>th</sup> May 2021, 12pm

**Place of Opening of Technical Bids-** Devaswom Board College, Thalayolaparambu, Midayikkunnu PO, Kottayam 686605, Kerala

**Bid validity – 3 months**

## Details of this tender

E-Tenders are invited from reputed and experienced System Integrators for supply, installation and commissioning of Wired Local Area Network. The tender is invited in **TWO** cover system from the registered and eligible firms through e-procurement portal of Government of Kerala (<https://www.etenders.kerala.gov.in>). Prospective bidders willing to participate in this tender shall necessarily register themselves with above mentioned e-procurement portal.

The tender timeline is available in the critical date section of this tender published in [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in). No manual submission of bid is allowed and manual bids shall not be accepted under any circumstances. All documents in support of technical qualifications shall be submitted (online).

Note 1: The blank price bid should be downloaded and saved on bidder's computer without changing file-name otherwise price bid will not get uploaded. The bidder should fill in the details in the same file and upload the same back to the website.

Note 2: Bidders may contact e-Procurement support desk of Kerala State IT Mission over telephone at 0471-2577088/188/388 or through email: [etendershelp@kerala.gov.in](mailto:etendershelp@kerala.gov.in) or [helpetender@gmail.com](mailto:helpetender@gmail.com) for assistance in this regard.

The following documents may be prepared in the digital format (pdf & xls as applicable). For further details contact the Principal, Devaswom Board College (04829 236137) or preferably during working hours (10:00 am–4:00 pm).

*Devaswom Board College, Thalayolaparambu reserves the right to reject the bid in case of discrepancy observed in the un-priced financial bid and the actual financial bid and also if any of the above listed document/s is not submitted.*

*Devaswom Board College, Thalayolaparambu reserves the right to place part orders.*

### 1. Eligibility Criteria (supporting documents should be Submitted)

1. The Bidder should have been actively engaged in the field and shall have a registered office in Kerala. Certificate of Registration should be furnished.
2. Bidder should be an authorized partner of respective OEMs. Bidder should submit authorization letter from respective OEMs issued from local (Kerala) office duly signed and sealed addressing to The Principal, Devaswom Board College Thalayolaparambu.
3. Annual turnover of the bidder should be minimum 1,50,00,000 (1.5 Crores) during last three financial years. Net worth of the bidder in last 3 years should be positive. The bidding firm must have made profits as per the balance sheets in the last 3 financial years.
4. Switching - The OEM should have appeared in Gartner Magic Quadrant for LAN Access Infrastructure and quoted products should be IPv6 ready.
5. Bidder should have experience of having successful completion of similar project, should be either of the following
  - a. One ELV Project Single order having worth not less than 20 Lakhs.
  - b. One single IT infrastructure project worth, not less than 30 Lakhs from any Government/ PVT Organization.
6. Any Government / Government agency / Banks / Financial Institutions in India should not have blacklisted the Bidder during the last 3 years. Self-declaration to that effect should be submitted along with the technical bid.



Note: Bidder must provide necessary supporting documents as proof in respect of each eligibility criteria mentioned above.

### DOCUMENTS REQUIRED ALONG WITH THE TECHNICAL BID

The following documents should be uploaded in the technical bid.

1. Name, Make, Model and detailed technical specification of Components.
2. Affidavit certifying that Entity / Promoter(s) / Director(s) / Partners of Entity are not blacklisted.
3. Tender acceptance letter (in pdf format)
4. Preliminary Agreement (in pdf format)
5. Certificate/declaration of firmness of rates (in pdf format)
6. Details of EMD paid / certificate of exemption (in pdf format)
7. Certificate of authorized dealership/supplier (in pdf format)
8. E-payment requisition form (in pdf format)
9. Technical documents/literature (in pdf format) (should include the financial bid document with prices blackened out)

### Financial Bid Cover

1. BoQ (in .xls format as downloaded from the e-Tendersite)

### General Terms and Conditions

#### **Terms and conditions:**

1. The Bidder shall pay a tender document fees and Earnest Money Deposit (EMD) as mentioned above. The EMD is required to protect the purchaser against risk of Bidder's conduct, which would warrant the forfeiture of security.
2. The items/equipments should be original. The quoted firms should be the original manufacturer/producer or authorized dealer/supplier of the items.
3. They should also ensure to provide the details of the authorized service centres/repairing centres, for the items quoted by them, located in the Kottayam / Ernakulam district or nearby areas in Kerala to ensure the speedy service/repair. **They should have a technical person based in Kerala for support assistance.** The bidder should provide the following
  1. Minimum 5 Year warranty for active components, Switches and Cameras (Directly from OEM).
  2. 2 Year Service support.
4. The technical details of the items such as the **name of the company/brand, make, model number** should be given in detail. The quoted model details must be available in the principal or manufacturer's website. Copies of the authentic technical literature/brochure from the producer/company should be attached for each item quoted.
5. Those who quote should take utmost care to quote **reputed branded** items of good quality. Items of low quality or from grey/Chinese market should not be quoted. Details of quality certifications such as CE, ISO, etc should be clearly mentioned.
6. The rates quoted must be for the Supply, installation, testing and commissioning of the end-to-end devices, including trenching and related labour works if required, based on the technical specifications. Quotation not covering the entire scope of the tender will be rejected.
7. The rate quoted shall be inclusive of all taxes.
8. The Successful bidder shall begin the work in 20 days and must handover the site within 90 days from the PO date
9. The details of rebate/discount, special offers, gratis, free training/ demonstration, etc also should be mentioned in clear terms after the submission of quote.



10. If the successful bidder fails to complete the supply / work within time fixed under the contract, he shall pay to the College without prejudice, an agreed compensation amount calculated @ 0.5% per week, of the total value of the uncompleted portion of the work, or a maximum value equal to 10% of the value of the contract. All expenses and damages caused to College by any breach of contract by the bidder shall be paid by the bidder to the College, and may be recovered from him under the provisions of the Revenue Recovery Act in force in state.
11. The undersigned reserve the right to purchase/procure the items/service/work in full or in part, subject to the availability of funds from the funding agency.
12. The rates quoted must be for the Supply, installation, testing and commissioning of the end-to-end devices, including trenching and related labour works if required, based on the technical specifications. Partial quote will be rejected. Prices quoted by the Bidder shall be fixed during the bidder's performance of the contract and not subject to variation on any account. A bid submitted with an adjustable/ variable price quotation will be treated as non - responsive and rejected.
13. The successful bidder should arrange all necessary materials required for the execution of the works other than those mentioned elsewhere in the tender, such as scaffolds, tools etc. at their own cost for executing the work.
14. The College reserves the right to reject the tender at any stage or to cancel the contract, if awarded, if the College observed that the bidder gives wrong information in his tender.
15. The Bidder/OEM should submit ETL third party certificate for the performance of cat6 channel cabling solution (Components certificate is not accepted).
16. The tenders will be opened on the appointed day and time in the office of the undersigned. If it happens to be a declared holiday or any other holiday for the institution, the opening shall be done on the next working day.
17. If any bidder withdraws from his tender before the expiry of the period fixed keeping the rates firm for acceptance, the earnest money if any, deposited by him shall be forfeited to College or such action taken against him, as College deems as fit.
18. The final acceptance of the tender rests entirely with the College, who do not bind themselves to accept the lowest or any tender.
19. Communication of acceptance of the tender normally constitutes a concluded contract. Nevertheless, the successful bidder shall also execute an agreement for the due fulfillment of the contract within the period to be specified in the letter of acceptance. The bidder shall have to pay all stamp duty, lawyer's charges and other expenses incidental to the execution of the agreement. Failure to execute the agreement within the period specified will lead to the cancellation of the order.
20. Earnest Money Deposit (EMD) of the successful bidder (L1) shall be returned only after a period required for completion of the process such as decision of purchase, installation of the items/ completion of the works, etc. No interest will be paid on earnest money deposited.
21. Payments against the invoice (triplicate) and stamped pre/advance receipt shall be made in due course of time, (a) only after obtaining the certificates from the competent authority/officer/s of the College regarding the successful installation/completion of the works; (b) as NEFT/RTGS transfer to Account of the firm/supplier. **The payment shall only be made to the bank account of the firm/supplier through NEFT/RTGS transfer.**
22. All incidental expenses, Bank charges, etc for making payments outside the district/other banks, etc shall be borne by the bidder/firm.
23. In case the bidder fails to supply and deliver any of the said articles and things within the time provided for delivery of the same, or in case the bidder commits any breach of any of the covenants, stipulations and agreements here in contained, and on his part to be observed and performed, then and in any such case, it shall be lawful for College (if they shall think fit to do so) to arrange for the purchase of the said articles and things from elsewhere or on behalf of the



College by an order in writing under the hand of the Principal, the Devaswom Board College, Thalayolaparambu put an end to this contract and in case the College shall have incurred, sustained or been put to any costs, damages or expenses by reason of such purchase or by reason of this contract having been so put an end to or in case any difference in price, compensation, loss, costs, damages, expenses of other moneys shall then or any time during the continuance of this contract be payable by the firm/bidder to the College under and by virtue of this contract, it shall be lawful for the College from and out of any moneys for the time being payable or owing to the bidder from the College under by virtue of this contract or otherwise to pay and reimburse to the College all such costs, damages and expenses they may have sustained, incurred or been put to by reason of the purchase, made elsewhere or by reason of this contract having been so put an end to as aforesaid and also all such difference in price compensation, loss costs, damages, expenses and other money shall for the time being be payable by the bidder aforesaid.

24. In case any difference or dispute arises in connection with the contract, all legal proceedings relating to the matter shall be instituted in the Court/s of Kottayam district.
25. Every notice hereby required or authorized to be given may be either given to the bidder personally or left at his residence or last known place of abode or business, or maybe handed over to his agent personally, e-mailed or may be addressed to the bidder by post at his usual or last known place of abode or business and if so addressed and posted, shall be deemed to have been served on the bidder on the date on which, in the ordinary course of post, a letter so addressed and posted/e-mailed would reach his place of abode or business.
26. The bidder shall undertake to supply materials according to the standard sample and /or specifications.
27. No representation for enhancement of rates after submission of the quotes will be considered.
28. Any attempt on the part of the bidders or their agents to influence the college in their favour by personal canvassing will disqualify the bidder.
29. The rates and amount of taxes, duties, cesses, etc. should be clearly mentioned in the quotes, tenders, invoices, etc. The final prices quoted (inclusive of all taxes, duties, cesses, etc.) should be, which are or may become payable by the Bidder under the existing or future laws or rules of the country of origin/supply or delivery during the course of execution of the contract.
30. Special Conditions, if any, of the bidders attached with the tenders will not be applicable to the contract unless they are expressly accepted in writing by the purchaser.
31. Within a week of the date when the acceptance of tender has been intimated to him, the bidder shall deposit **5% of the quoted amount (performance guarantee)** which shall be treated as security for the proper fulfillment of the same and he shall execute an agreement for the work in the scheduled form of agreement. If he fails to do this or fail to maintain a specified rate of progress, the security deposit shall be forfeited to the undersigned and fresh tenders shall be called for or the matter otherwise disposed. If as a result of such measures due to the default of the bidder to pay the requisite deposit, sign contracts to take possession of the work, any loss that results, the same will be recovered from him as arrears of revenue but should it be a saving to the undersigned, then he shall have no claim whatever to the difference. Recoveries to this or any other account will be made from the sum that may be due to the bidder on this or any other contracts or under the Revenue Recovery Act or otherwise as the undersigned may decide.
32. **Online Payment modes:** The tender document fees and EMD can be paid in the following manner through e-Payment facility provided by the e-Procurement system.

TERMS OF PAYMENT

1. 50% against supply.
2. 20% After successful installation
3. 30% within 30 days after successfully commissioning, all documentation submission.

**1. Technical Specification**

Following are the minimum Technical Specifications for the equipment's for establishing Passive Networking and Active Switching.

## 1) Core Switch

S/N	Specifications	Compliance (Yes/No)	REMARKS
Make & Model, Product Code			
1	I/O Ports & Slots	Min 24 or more 10/100/1000BASE-T ports, 2 X 10G Copper Port and 4 Port SFP+ ports 1 x Console Port & 1 Management Port	
3	Performance	Switching Capacity - Min 168Gbps or higher, Mac Addresses - 16000, Packet Buffer - Min 2MB, Forwarding Rate - Min 125 Mpps	
4	Layer 2 Features	Vlan IDs and Groups - 4K, Multicast - IGMP and MLD Snooping, QoS, Port Mirroring,	
5	L3 Services and Routing	Routes - Min 128 IPv4 & IPv6 Default/Static, Routing - OSPFv2/v3 and PIM-DM/SMPolicy-based Routing, IPv6	
6	Security	802.1X Authentication, Port Security, IP Source Guard, DHCP Snooping, Dynamic ARP Inspection (DAI), ACLs	
7	Resiliency & High Availability	Should support physical stacking upto 40Gbps, LAG, MSTP	
8	Management	Console with Industry Standard CLI, HTTPS (TLS v1.2), SSHv2, SNMP v1/v2c/v3, TFTP, Syslog, IPv4 and v6 DHCP Relay, Netflow/sFlow, LLDP, Dying Gasp, NTP/SNTP	
9	Compliance/Certification	FCC Class A, CE Class A, VCCI Class A, IC, RCM, BSMI, CCC, CB, cUL, BSMI, CCC	
10	Industry Recognition	OEM should have appeared in Gartner's Magic Quadrant for LAN infrastructure	
11	Surge Protection	6kV Surge Protection for all Gigabit Ports	
12	Technical Documents	Technical Compliance Sheet, Datasheet	



2) 24 Port Distribution Switch

S/N	Specifications	Compliance (Yes/No)	REMARKS
Make & Model, Product Code			
1	I/O Ports & Slots-28 Port Switch	24 x 1GbE RJ45 Ports and 4 Giga SFP ports	
2	Performance for 28 Port Switch	Switching Capacity – Min 56Gbps or higher, Forwarding Rate – Min 41 Mpps, Mac Addresses – 16,000	
5	Layer 2 Features	Vlan IDs and Groups - 4K, High Availability - LAG, MSTP, Multicast - IGMP and MLD Snooping, Superior QoS, Port Mirroring, ACL	
6	L3 Services and Routing	Static routing	
7	Security	IMPB,,Dos attack Prevention IP Source Guard, DHCP Snooping,ACLs	
8	Management	CLI,,HTTPS (TLS v1.2), SSHv2, SNMP v1/v2cNTP/SNTP, Web GUI	
9	Industry Recognition	OEM should have appeared in Gartner's Magic Quadrant for LAN infrastructure	
10	Compliance/Certification	FCC class A, CE class A, IC, VCCI, BSMI, cUL, UL, CB,	
11	Surge Protection	6kV Surge Protection for all Gigabit Ports	
13	Technical Documents	Technical Compliance Sheet, Datasheet	

3) 24 Port PoE Switch

S/N	Specifications	Compliance (Yes/No)	Compliance (Yes/No)	REMARKS
Make & Model, Product Code				
1	I/O Ports & Slots-28 Port Switch	24 x 1GbE RJ45 Ports and 4 Giga SFP ports		
2	Performance for 28 Port Switch	Switching Capacity – Min 56Gbps or higher, Forwarding Rate – Min 41 Mpps, Mac Addresses – 16,000		
3	POE for 28 Port Switch	Should Comply to 802.3af & 802.3at Minimum 192 Watt Power Budget		
4	Layer 2 Features	Vlan IDs and Groups - 4K, High Availability - LAG, MSTP, Multicast - IGMP and MLD Snooping, Superior QoS, Port Mirroring, ACL		
5	L3 Services and Routing	Static routing		
6	Security	IMPB,,Dos attack Prevention IP Source Guard, DHCP Snooping, ACLs		
7	Industry Recognition	OEM should have appeared in Gartner's Magic Quadrant for LAN		

		infrastructure		
8	Compliance/Certification	FCC class A, CE class A, IC, VCCI, BSMI, cUL, UL, CB,		
9	Surge Protection	All Ethernet ports support IEC610004-5 surge protection		
10	Technical Documents	Technical Compliance Sheet, Datasheet		

4) 1GbE SM SFP Transceiver

S/N	Specifications	Compliance Yes/No	REMARKS
Make & Model, Product Code			
1	1000Base-LX port (IEEE 802.3z standard), Wavelength: 1310 nm, Fibre type: 9um single-mode fibre, up to 10 km		
2	Form Factor: SFP, Duplex LC Connector, Hot Pluggable		
3	MSA Compliant, RoHS, CE, FCC, UL, VCCI, FDA, CDRH, TUV Laser Eye safety certified		
4	Transceivers should be from same OEM as switch		

5) CAMERA 4 MP DOME IP CAMERA

SINo	Specifications	Compliance (Yes/No)	REMARKS
1	Image Sensor	1/2.7" Progressive scan CMOS Progressive	
2	Min. Illumination	0.01lux (Color), 0lux (IR on)	
3	Shutter Time	Auto/Manual, 1/3~1/10000s	
4	Lens	3.6 mm@F2.0: horizontal FOV: 86°, vertical FOV:64.5°	
5	Day/Night	IR cut filter with auto switch	
6	Wide Dynamic Range	DWDR	
7	Max. IR LEDs Length	30M	
8	Smart IR	Support	
COMPRESSION STANDARD			
10	Video Compression	H.264/H.264+/H.265/H.265+	
11	H.264 Codec profile	Base/Main/High profile	
12	H.265 Codec profile	Main profile	
13	Video Bit Rate	11 Kbps ~ 8Mbps	
IMAGE			
15	Max. resolution	4MP (2560x1440)	
16	Main Stream	50Hz: 20fps 4MP (2560 × 1440), 25fps 3MP (2048 × 1536), 25fps 1080P (1920 × 1080), 25fps 960P (1280 × 960) 60Hz: 20fps 4MP (2560 × 1440), 30fps 3MP (2048 × 1536), 30fps 1080P(1920 × 1080), 30fps 960P(1280 × 960)	



17	Sub Stream	50Hz: 25fps D1(704 × 576), 25fps CIF (352 × 288) 60Hz: 30fps D1(704 × 480), 30fps CIF(352 × 240)		
18	Image Setting	Brightness/Contrast/Saturation/Hue/Sharpness		
19	HLC	Support		
20	BLC	On/Off, zone configurable		
21	ROI	Support		
22	Defog	Support		
<b>NETWORK</b>				
24	Event	Motion Detection, Video Shelter		
25	Smart Functions	Area Intrusion, Line crossing		
26	Protocols	TCP/IP,ICMP,HTTP,HTTPS,DHCP, DNS,DDNS,RTP, RTSP,RTCP,NTP,IGMP, UPnP, SMTP,UPnP-TM,P2P, Bonjour,IPV6		
27	System compatibility	Onvif 2.6, Profile S, CGI		
28	Security	User authentication, IP address filtering, Video mask		
29	Mobile Surveillance	iPhone, iPad, Android devices		
<b>INTERFACE</b>				
31	Communication interface	1 RJ45 10M / 100M Ethernet Port		
<b>GENERAL</b>				
33	Operating Conditions	-30 °C ~ 60 °C (-22 °F ~ 140 °F)		
34		Humidity 95% or less (non-condensing)		
35	Power Supply	DC12V ± 10% )		
36	POE Supply	PoE (802.3af)		
37	Power Consumption	Max. 7W		
38	Weather Proof	IP66		
39	Dimensions	102X90(H) mm		
40	Weight (without HDD)	420g		
41	Certification	CE		
System Management-Mobile Software				
System Management-Desktop Software				

## 6) CAMERA 4 MP BULLET IP CAMERA

SINo	Specifications		Compliance (Yes/No)	REMARKS
1	Image Sensor	1/2.7" Progressive scan CMOS Progressive		
2	Min. Illumination	0.01lux (Color), 0lux (IR on)		
3	Shutter Time	Auto/Manual, 1/3~1/10000s		
4	Lens	3.6 mm@F2.0: horizontal FOV: 86°, vertical FOV:64.5°		

6	Wide Dynamic Range	DWDR
7	Max. IR LEDs Length	30M
8	Smart IR	Support
<b>COMPRESSION STANDARD</b>		
10	Video Compression	H.264/H.264+/H.265/H.265+
11	H.264 Codec profile	Base/Main/High profile
12	H.265 Codec profile	Main profile
13	Video Bit Rate	11 Kbps ~ 8Mbps
<b>IMAGE</b>		
15	Max. resolution	4MP (2560×1440)
16	Main Stream	50Hz: 20fps 4MP (2560 × 1440), 25fps 3MP (2048 × 1536), 25fps 1080P (1920 × 1080), 25fps 960P (1280 × 960) 60Hz: 20fps 4MP (2560 × 1440), 30fps 3MP (2048 × 1536), 30fps 1080P(1920 × 1080), 30fps 960P(1280 × 960)
17	Sub Stream	50Hz: 25fps D1(704 × 576),25fps CIF (352 × 288) 60Hz: 30fps D1(704 × 480),30fps CIF(352 × 240)
18	Image Setting	Brightness/Contrast/Saturation/Hue/
19	HLC	50Hz:25fps CIF (352 × 288) 60Hz:30fps CIF (352 × 240)
20	BLC	Support
21	ROI	On/Off, zone configurable
22	Defog	Support
<b>NETWORK</b>		
24	Event	Motion Detection, Video Shelter
25	Smart Functions	Area Intrusion, Line crossing
26	Protocols	TCP/IP,ICMP,HTTP,HTTPS, DHCP,DNS,DDNS,RTP, RTSP,RTCP,NTP,IGMP,UPnP,SMTP,UPnP-TM,P2P, Bonjour,IPV6
27	System compatibility	Onvif 2.6, Profile S, CGI
28	Security	User authentication, IP address filtering, Video mask
29	Mobile Surveillance	iPhone, iPad, Android devices
30	<b>INTERFACE</b>	
31	Communication interface	1 RJ45 10M / 100M Ethernet Port
<b>GENERAL</b>		
	Operating Conditions	-30 °C ~ 60 °C (-22 °F ~ 140 °F) Humidity 95% or less (non-condensing)
35	Power Supply	DC12V ± 10% )
36	POE Supply	PoE (802.3af)
37	Power Consumption	Max. 7W
38	Weather Proof	IP66
39	Dimensions	187*64*64mm



40	Weight (without HDD)	300g		
41	Certification	CE		
		System Management-Mobile Software		
		System Management-Desktop Software		

## 7) 8 Chanel NVR

SINo	Specifications		Compliance (Yes/No)	REMARKS
1	IP Video Input	16 Channel		
2	Audio Input	1-ch, RCA		
3	Video & Audio Output			
4	HDMI	HDMI: 4K (3840x2160)@30, 1920x1080p@60, 1920x1080p@50, 1600x1200@60, 1280x1024@60, 1280x720@60, 1024x768@60		
5	VGA	1920x1080p@60, 1920x1080p@50, 1280x1024@60, 1280x720@60, 1024x768@60		
6	Audio Output	1-ch, RCA		
7	Recording			
8	Compression	H.265+/H.265 /H.264+/H.264		
9	Camera	Upto 8 MP		
10	Resolution	8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF		
11	Playback & Backup			
12	Playback Mode	Smart/ Normal/ Time Division/ Label/ Event/ Picture/ Log Playback		
13	Decoding Capability	1 x 4K@30, 1 x 6MP@30, 1 x 5MP@30, 2 x 4MP@30, 4 x 1080p@30, 8 x 720p@30, 16 x D1		
14	Backup Mode	USB Device/Network		
15	Advanced Features			
16	VCA Detection	Face detection, Intrusion detection, Cross line detection, Audio detection, Defocus detection, Scene change detection, Auto tracking		
17	VCA Search	Face search, Behavior search		
20	Network			
21	Incoming Bandwidth	112Mbps		
22	Outgoing Bandwidth	96Mbps		
23	Ethernet	1 RJ-45 10 /100/1000 Mbps self-adaptive Ethernet interface		

24	Network Compatibility	HTTP, HTTPS, TCP/IP, IPv4, UPNP, RTSP, UDP, SMTP, NTP, DHCP, IP Filter, DDNS, FTP, P2P, ONVIF 2.6		
25	Smart Phone	IOS (iPhone, iPad), Android (Phone, Pad)		
26		Hard Disk		
27	SATA	2 SATA interface		
28	Capacity	Up to 8TB capacity for each HDD		
29		External Interface		
30	USB Interface	Front panel: 1 × USB 2.0		
31		Rear panel: 1 × USB 2.0		
34		General		
35	Power Supply	DC12V 3.3A		
36	Power Consumption	12V DC Power Consumption: 7 W( without HDD )		
38	Dimension (W×D×H)	380mm × 315mm ×49mm (15.0" × 12.4" ×1.9" )		
39	Weight	≤1.6Kg		
40	Certification	CE		
41		System Management-Mobile Software		
42		System Management-Desktop Software		

## 8) ACCESS POINT

SINo	Specifications	Compliance (Yes/No)	REMARKS
1	Wireless Standards	802.11a, 802.11b, 802.11g, 802.11n	
2	Ports	1 x 10/100 RJ-45, PoE Ports,	
3	Supported Rate	802.11n upto 300 Mbps or Higher	
4	Client Capacity	Min 20+ Users support per AP	
5	POE	Supports Power over Ethernet (802.3af)	
6	Channel	2.4 Ghz	
7	Security	WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i, Dynamic PSK, WIPS/WIDS	
8	Antennae	2 internal 3dBi at 2.4 Ghz	
9	Controller Platform	Virtual, Software and Hardware Controller	
10	Management	IEEE 802.3az Energy-Efficient Ethernet (EEE),SNMP v1/v2C/v3 and Web management Wall/Ceiling Mounting kit to be supplied with AP	
11	Certification /	WiFi Alliance Certified,	
12	Standard Compliance	FCC, EN, UL	
13	Environment	Operating Temperature - 0°C to 40°C	



## Fibre Cabling

Category	Specification	Compliance (Yes/No)	REMARKS
6 Core Single Mode Unitube armored Fiber	6 Core Single Mode 9/125 Micron Outdoor Fiber Optic Cable Outdoor Steel Tape Armored (STA) construction, should support moisture resistance & should have water proof layer, should be central loose tube with jelly compound, Operating temperature upto 60°C, Outer Sheath - HDPE, Bend radius as per IEC 60794-1-2, E6/E11, should support ISO 11801, EIA/TIA 568-B.3 & EIA/TIA 455 standards. Max attenuation should be 0.36db/km or better @ 1310nm and 0.22 db/km or better @ 1550 nm.		
24-Port LIU Loaded	Standard 19" Rack mountable, LIU should be constructed of 16-gauge steel, powder-coated loaded with 12 SC SM Duplex (24P) Ports & required pigtails, should have at least 2 fiber spools Removable front and rear covers for better access Mounting & termination accessories to be supplied		
12-Port LIU Loaded	Standard 19" Rack mountable, LIU should be constructed of 16-gauge steel, powder-coated loaded with 03 SC SM Duplex (12P) Ports & required pigtails, should have at least 2 fiber spools Removable front and rear covers for better access Mounting & termination accessories to be supplied		
Patch cords	Single Mode Fiber Patch cord with LC to SC, SC to SC connectors Should be on min 3 meter in length, should meet all applicable standards. Compliant with TIA/EIA-568- C, IEC standards)		
LC-SC 1 meters			

## Copper Cabling

Category	Specification	Compliance (Yes/No)	REMARKS
Category 6 UTP Cable-LSZH	Category 6 low smoke Zero Halogen Unshielded Twisted Pair 4 pair 305 meters' cable, shall be compliant with ANSI/TIA/EIA-568-C.2 standards, UL Listed and ETL verified, 23 AWG solid bare copper conductor (4 Pair), Frequency tested up to 600MHZ, HDPE Insulation / FR PVC Sheath, operating temperature upto 60°C, Zero-bit error test, UL, ETL verified		
Face plate	Face Plate - Dual (Square) with shutter, Screws / hole covers to supplied with face plate, labelling on transparent plastic window, Face Plate - ABS, UL94-HB, Dust Cover - ABS, UL94-HB		

Cat 6 Information outlet	Universal labels color coded for T568A/568B, suitable for 23-26 AWG stranded and solid wire, ETL verified unshielded EIA/TIA connecting hardware, Category 6, TIA568 C.2, Contact Bracket - PC, UL 94V-2, Use insulation displacement connectors (IDC), IDC Housing - PC+ Glass Fiber, UL 94V-2, 50 microns gold on plug contact area, Phosphor bronze with Nickel plated IDC Contact		
24-Port Category 6 Patch panel loaded	Powder coated steel in 24 port configurations suitable for CAT 5e, CAT 6 and CAT 6A, should support port identification numbers on the panel, with cable management bar support		
Category 6 Patch cords- LSZH (1 & 2 Meters)	Category 6 LSZH Should comply to TIA/EIA-568-C.2 Standard, 24AWG stranded bare copper conductor, HDPE Insulation, Phosphor bronze Contact with Nickel Plated, 50 microns gold on plug contact area		

### Network Racks:

Category	Specification	Compliance (Yes/No)	REMARKS
12U Wall Mount Rack	12U - 500X450- Wall Mount Rack Construction - All Welded construction, Top and Bottom Cover - Welded to Frame, Vented and Field Cable entry exit cut outs, Front Door - Lockable Toughened Glass Door Finish - Powder Coated, Rack Standard - DIN 41494 or better standard Mounting Angle - 19" Mounting angles made of formed steel, Grounding and Bonding Accessories - Cable Manager, Fan, Hardware mounting kits and any other required accessories		
27UU Rack Floor Rack	27U - 800X1000-STEEL, Casters Set of 4 Adjustable Levelers set of 4 19" Reduced Channel - Loop Type, Glass Door with Lock and key, Side Panels, Mounting Hardware, FHU with 4 FANS, Vertical Power Distribution Unit with 12 x 5/15 sockets Round Pin, 230 Volts AC 32 Amp with Plug, Vertical Cable Manager-42U Loop, Horz. Cable Managers -1U-Loop Provision for earthing, Grounding and Bonding (Reputed Brand, DIN 41494 OR equivalent ISO Standards)		

### PVC Conduits & Accessories

The inside diameter of 25mm and 32mm conduit shall be minimum of 22.4 and 32mm shall have 28.6 with the Tolerance on Outside Diameter of -0.4 The Conduits shall have specific gravity of 1.35 - 1.45 g/ml and Tensile strength of 492/562 kg/cm<sup>2</sup>. ISI Standard.

### 2. Submittals:

The bidder shall ensure to submit the following details in their bid. Non Submission of items mentioned mandatory shall lead to rejection of the bid.

1. System Description (mandatory)
2. Compliance Statement (mandatory)
3. Data sheets (relevant pages only)
4. Supporting documents mentioned in all criteria (mandatory)
5. Bill of Quantity (Make, Model including material ID, Quantity)



### 3. Compliance Statement

The Bidder shall only use complied products as per the specification mentioned in the tender document. Any variation from "fully-complied" shall be mentioned as "partially complied" and the variation shall be mentioned clearly in a separate "Remarks"

### 4. Warranty

Owner seeks warranty for the installed cable plant from the OEM equipment supplier. Bidder shall ensure that the OEM norms for supply, installation, testing and documentation as specified by the OEM supplier shall be adhered to, provided those are in line with TIA / EIA standards and Owner requirement specifications. The warranty shall be provided by the OEM vendor to Owner and shall be administered in India.

### 5. Approved makes

- a. Passive cabling :- Schneider/Molex/D-Link/Belden/AMP
- b. Network Racks :- Emerson / Rittal/ Netrack/D-Link
- c. Active Components :- Cisco /D-Link/Juniper/Aruba
- d. PVC Conduits :- ISI Grade
- e. Camera :- Dahua/Dlink/ Bosch
- f. HDD :- WD/Seagate/Toshiba

### 6. Installation of copper and Fiber cabling

- a. All cable reels are to be visually inspected for damage incurred during shipping and transit prior to installation.
- b. Cable is not to be pulled in under excessive load. At all times during any given "pull", the cable under load should easily react and feed to pulling tension.
- c. During the installation process, installers are required to visually inspect cable and connecting hardware components for damage. If such damage is found, e.g. tears in the outer jacket of the cable, severe kinks as identified by white/grey bands of discoloration on cable jacket, these components are to be replaced immediately.
- d. The installer is to make use of best practices when handling unjacketed conductors. Care is to be taken as not to create pair spread, pair wrapping, pair separation and the re-twisting of pairs.
- e. No more than 13mm of wire may be exposed for the purposes of termination, the only acceptable exception being High band modules where such practices are dictated by the design of the module.
- f. All cabling shall be clearly labelled with PVC ferule at both ends to the rear of the point of termination no more than 100mm from such a termination point.
- g. All patch panel ports, and workstation outlets shall be clearly labelled by means of appropriately secured printed labels (handwritten labels are not acceptable).
- h. All labelling schemes shall be confirmed with the appropriate representative of end customer before being applied.
- i. Where cable Velcro are used, they are to be securely bundle but still permit for cable movement if tugged upon making use of reasonable force. avoid using cable ties to bundle the cables
- j. Cable Velcro is to be used at set intervals of 400mm for all cable bundles thus presenting a uniform appearance.
- k. Where purpose-installed conduits are to be used for structured cabling, such conduits may never be filled beyond 40% of capacity and should bend at a radius of no less than 6 times the outside diameter of such conduit, nor shall more than two 90-degree bends along the total span of such a conduit.
- l. Bidder is to ensure that cable is not installed in areas such as roof spaces or in direct sunlight where temperature ranges might exceed the manufactures operating temperate specifications (typically not in spaces where temperatures exceed 60 degrees Celsius.)
- m. Bidder to make sure, all the required outlet port to be patched and connected to equipment with proper routing and labels.

- n. Fiber slack shall be neatly coiled within the fiber termination panel. No slack loop shall be allowed external to the fiber panel(s).
- o. Each cable shall be individually attached to the respective termination panel by mechanical means.
- p. Each fiber cable shall be stripped upon entering the termination panel and individual fiber routed in the termination panel. All fiber should be terminated properly.
- q. Submission of full Inventory of materials including received, used, and left out materials

The installer is to make use of best practices when handling unjacketed outer sheath of the cable. Care is to be taken as not to break the fibre optic core while removing loose tube, rip cod, corrugated steel Armor, etc

\*\*\*\*\*END\*\*\*\*\*



for (Dr. R. Anitha)  
Principal



**DEVASWOM BOARD COLLEGE**  
**THALAYOLAPARAMBU, KOTTAYAM (Dist.)**  
**KERALA STATE, PIN - 686 605**  
**Ph: 04829 - 236136, 237136, Fax: 04829 236136**  
**NAAC ACCREDITED "B+" GRADE**  
**[dbprincipal@gmail.com](mailto:dbprincipal@gmail.com)**

**AFFILIATED TO : MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

## AWARD of CONTRACT

Date 24/05/2021

To

**Netlinks Business Consultants India Pvt Ltd,  
 Kochi**

Sub : Supply, installation and commissioning of **Wired Local Area Network**: Purchase order issued

Ref: (1) Tender ID: 2021\_DBCT\_421828\_1  
 (2) Tender Ref. No: ROC. 27/19/Coll/DB/TLPU(3)  
 (3) Your bid Technical 1041110 and financial BoQ 598760  
 (4) Your offer letter (stating negotiated amount) dated 19.05.2021

With reference to the above, we are hereby pleased to award the contract for Supply, installation and commissioning of **Wired Local Area Network** to Devaswom Board College, Thalayolaparambu as per the specifications and conditions mentioned in the tender notice and also as per the terms and conditions given below

1. The final price, *inclusive of all taxes and other charges*, should not exceed Rs. **737500 (Seven lakhs thirty seven thousand five hundred only)**.
2. A contract must be executed on **Kerala Stamp paper worth Rs.200/-** before the start of work.(details given in NIT)
3. The consignment should be dispatched and installed at Devaswom Board College, Thalayolaparambu.
4. The work should begin in 20 days and must handover the site within 90 days from the date of this contract.
5. Invoices should be in the name of The Principal, Devaswom Board College, Thalayolaparambu.
6. Minimum 5 year warranty for active components, Switches and Cameras (Directly from OEM) and a 2 year Service support.
7. The terms of payment are
  - a) **50% of total amount (Rs 368750)** after completion of 50% of work
  - b) **20% of total amount (Rs 147500)** after completion of 70% of work
  - c) **30% of total amount (Rs 221250)** within 30 days after successfully commissioning and submission of all documentation.
8. The final payment will be paid for, only after receipt and survey of the articles (in good condition) by the College.
9. Kindly note that the college has a GST registration and the number **32AAFAD6370E1Z2** should be mentioned in all bills submitted.



The following are the specification for the items provided with their unit price and total amount including the labour charges for installation and commissioning.

NWR-120  
5045-CR

SL	Part#	Product Description	Price	Qty	UOM	Ext.Price	Tax 18%	TOTAL
1	NCB-C6UGRYR-305-LS	CAT6 UTP 23AWG Solid:305M-Low Smoke	6693.00	17	REELS	113,781.00	20480.58	134,261.58
2	NFP-0WH121	Face Plate - Single (Keystone Jack,square)	46.00	114	NOS	5,244.00	943.92	6,187.92
3	NBB-011	Back Box For Single, Dual (Cat 5e/Cat6/Cat6A,square)	42.00	114	NOS	4,788.00	861.84	5,649.84
4	NKJ-C6WH11B21	Jack Cat 6 Keystone UTP - White	97.00	114	NOS	11,058.00	1990.44	13,048.44
5	NCB-C6UGRYR1-1-LS	CAT6 UTP 24AWG PATCH CORD:1M,Plug 30U' Snagless	114.00	120	NOS	13,680.00	2462.40	16,142.40
6	NCB-C6UGRYR1-2-LS	CAT6 UTP 24AWG PATCH CORD:2M,Plug 30U' Snagless	137.00	114	NOS	15,618.00	2811.24	18,429.24
7	NPP-C61BLK241	Patch Panel Cat 6 UTP Keystone Type- 24 Port-Fully Loaded	2267.00	6	NOS	13,602.00	2448.36	16,050.36
8	NCB-FS100-AUHD-6	O. F.Cable 6F Outdoor - Armoured Unitube OS2 SM - HDPE Sheath mtr	46.00	150	MTR	6,900.00	1242.00	8,142.00
9		LIU 24 PORT Rack Mount - Loaded (SC) SM	3910.00	1	Nos	3,910.00	703.80	4,613.80
10	NLU-FSDLSCR-12	LIU 12 PORT Rack Mount - Loaded (SC) SM	3358.00	1	Nos	3,358.00	604.44	3,962.44
11	NCB-FS10S-SC1	PIGTAIL SC SM SIMPLEX LENGTH- 1m	126.00	12	NOS	1,512.00	272.16	1,784.16
12		PATCH CORD LC-SC SM DUPLEX LENGTH- 1m - OS2	1012.00	2		2,024.00	364.32	2,388.32
13	DEM-310GT	1000Base-LX Single-Mode, 10KM SFP Transceiver	2041.00	2	NOS	4,082.00	734.76	4,816.76
14	DAP-2230	Wireless N PoE Access Point	3630.00	1	NOS	3,630.00	653.40	4,283.40
15	DGS-3130-30TS	24 10/100/1000BASE-T ports + 2 10GBASE-T ports + 4 10G SFP+ ports, L3 Stackable Managed Switch	68000.00	1	NOS	68,000.00	12240.00	80,240.00
16	DGS-1210-28P/ME	24 10/100/1000Base-T ports + 4 SFP ports Metro Switch	32870.00	2	NOS	65,740.00	11833.20	77,573.20
17	DGS-1210-28 ME	24-Ports 10/100/1000Mbps PoE + 4-Ports Gigabit SFP Smart Managed Switch, 193Watts	13375.00	1	NOS	13,375.00	2407.50	15,782.50
18	DCS-F5714	4 MP IP Camera h.265+ Bullet IP66 Metal - Smart Analytics	322.00	2	NOS	644.00	115.92	759.92
19	DCS-F5614	4 MP IP Camera h.265+ DomeIP66 Metal - Smart Analytics	6017.00	4	NOS	24,068.00	4332.24	28,400.24
20	DNR-F5232-M8	8 Channel 8 MP NVR with 2 SATA - with Smart Analytics	7213.00	1	NOS	7,213.00	1298.34	8,511.34
21		4TB SATA Surveillance HDD	12880.00	1	NOS	12,880.00	2318.40	15,198.40
22	NFR-27U-8010-BL-SK	27U Network Enclosure Frame-800X1000-STEEL with accessories like fan, pdu, cable manager etc.	32508.00	1	Nos	32,508.00	5851.44	38,359.44



AMOUNT IN  
TOTAL  
(26)

	NWR-12U-5045-GR	Wall Mount 12U x 550 W x 450 D. Front Glass Door with Lock with 2 pairs of 19" Mounting Rails Accessories: 1U Cable Manager (1), Roof Mounted Fan Unit / 90 CFM / 230V AC (1), 6 Way 5 Amp Power Distribution Unit (1), Mounting Hardware (1 Pkt).	5735.00	1	NOS	5,735.00	1032.30	6767.30
24		25 MM PVC Conduit With all Accessories	43.00	1200	Mtrs	51,600.00	9288.00	60888.00
25		32 MM PVC Conduit With all Accessories	48.00	600	Mtrs	28,800.00	5184.00	33984.00
<b>LABOUR PART</b>								
26		Cat-6 CABLE Laying	12.00	5185	Mtrs	62,220.00	11199.60	73419.60
27		Cat -6 Information outlet Termination	45.00	114	Nos	5,130.00	923.40	6053.40
28		Back Box and FacePlate Fixing	40.00	114	NOS	4,560.00	820.80	5380.80
29		Cat-6 Jackpanel Termination	890.00	6	Nos	5,340.00	961.20	6301.20
30		24 Port Swich Fixing	500.00	6	Nos	3,000.00	540.00	3540.00
31		27 U Rack Installation	1500.00	1	Nos	1,500.00	270.00	1770.00
32		15U/12U/6 U rack Installation	700.00	1	Nos	700.00	126.00	826.00
33		PVC conduit Laying	12.00	1800	Mtrs	21,600.00	3888.00	25488.00
34		Fiber Laying Charges	24.00	150	Mtrs	3,600.00	648.00	4248.00
35		Fiber splicing charges	150.00	12	Nos	1,800.00	324.00	2124.00
36		OTDR Testing	300.00	6	Nos	1,800.00	324.00	2124.00
<b>TOTAL(GST EXTRA)</b>						<b>625,000.00</b>	<b>112500.00</b>	<b>737500.00</b>

- Kindly confirm the receipt and acceptance of this contract by signing and returning one copy of this letter immediately but not later than one week from receipt of this letter, failing which it will be presumed that the contract has been accepted in toto.



Dr. R Anitha  
(Principal)

**Dr. R. ANITHA**  
Principal  
Devaswom Board College  
Thalayolaparambu



# DEVASWOM BOARD COLLEGE

THALAYOLAPARAMBU, KOTTAYAM (Dist.) KERALA STATE,  
PIN 686 605 Ph: 04829 - 236136, 237136,  
NAAC ACCREDITED "B" GRADE  
E-mail : dbprincipal@gmail.com  
AFFILIATED TO MAHATIMA GANDHI UNIVERSITY, KOTTAYAM

03.06.2021

Ref.No.27/19/Coll/TLPU (3)

പ്രേഷകൻ

പ്രിൻസിപ്പാൾ

സ്വീകർത്താവ്

സെക്രട്ടറി

തിരുവിതാംകൂർ ദേവസ്വം ബോർഡ്

തിരുവനന്തപുരം

മാധ്യം,

വിഷയം:- ഡി.ബി.കോളേജ്, തലയോലപ്പറമ്പ് - Centralized structured Networking - ടെൻഡർ


നടപടികൾ സംബന്ധിച്ച്:-

സൂചന:- 16.11.2020 ലെ താങ്കളുടെ ROC.27/09/Coll നമ്പർ ഉത്തരവ്

മേൽ സൂചന ഉത്തരവ് പ്രകാരം തലയോലപ്പറമ്പ് ദേവസ്വം ബോർഡ് കോളേജിൽ നെറ്റ്വർക്കിംഗ് പ്രവർത്തനങ്ങൾ ചെയ്യുന്നതിന് ആറ് ലക്ഷം(6,00,000) രൂപ (GST കൂടാതെ) അനുവദിച്ചിരുന്നു. ആയതിന്റെ അടിസ്ഥാനത്തിൽ ഇ ടെൻഡർ നടപടികൾ സ്വീകരിച്ചപ്പോൾ Netlinks Buisness Consultants India Pvt.Ltd, Kochi & Smartnet Informatics, Kochi എന്നീ രണ്ട് സ്ഥാപനങ്ങൾ ഇ ടെൻഡർ സമർപ്പിക്കുകയുണ്ടായി ആയത് പരിശോധിച്ചപ്പോൾ യഥാക്രമം 806117.71 & 882781.60 എന്നീ തുകകളാണ് രേഖപ്പെടുത്തിയിരുന്നത് . പ്രസ്തുത തുക നിർദ്ദേശിച്ച തുകയെക്കാൾ വളരെ കൂടുതലായതിനാൽ കുറഞ്ഞതുക രേഖപ്പെടുത്തിയ Netlinks Buisness Consultants India Pvt.Ltd, Kochi എന്ന സ്ഥാപനത്തിന് Negotiation ലുർ നൽകാൻ ഫിനാൻഷ്യൽ കമ്മിറ്റി തീരുമാനിച്ച പ്രകാരം സ്ഥാപനത്തിന് കത്ത് നൽകി. തുടർന്ന് നിർദ്ദിഷ്ട നെറ്റ്വർക്കിംഗ് ജോലികൾ 7,37,500 (GST ഉൾപ്പെടെ ) രൂപയ്ക്ക് ചെയ്തു തീർക്കാമെന്ന് ആ സ്ഥാപനം അറിയിച്ചത് കമ്മിറ്റി അംഗീകരിച്ചു .

സൂചന പ്രകാരം അനുവദിച്ച തുകയെക്കാൾ 29500/- രൂപയുടെ വർദ്ധനവ് ഇപ്പോൾ ഉണ്ടായിട്ടുണ്ട്. ടി തുക കൂടി കുറവു വരുത്താൻ ശ്രമം നടത്തിയെങ്കിലും നിലവിലെ സാധന സാമഗ്രികളുടെ വിലയിലുണ്ടായ വർദ്ധനവ് കാരണം സാധ്യമല്ല എന്ന് അറിയിച്ചതിനാലാണ് 7,37,500 എന്ന തുക ഫിനാൻസ് കമ്മിറ്റി അംഗീകരിച്ചത്. ആയതിനാൽ തലയോലപ്പറമ്പ് ദേവസ്വം ബോർഡ് കോളേജിൽ നെറ്റ്വർക്കിംഗ് പ്രവർത്തനങ്ങൾ ചെയ്യുന്നതിന് അധികം ചെലവഴിക്കേണ്ട 29500/- രൂപകൂടി അനുവദിച്ച് സഹായകരമായ നടപടികൾ സ്വീകരിക്കണമെന്നപേക്ഷിക്കുന്നു. ഇ ടെൻഡർ നടപടിയുടെ രേഖകൾ പരിശോധനയ്ക്കായി ഇതോടൊപ്പം ചേർത്ത് സമർപ്പിക്കുന്നു.

വിശ്വസ്തതയോടെ

  
Dr. R. ANITHA  
principal  
Devaswom Board College





GSTIN: 32AAECN3041R12C

Regional Support Centres:- Calicut | Trivandrum

Regd. Office: Door No. 45/104, SREYAS Building, 1st Floor, Karoll Lane, Ponnuruni, Thammannam P.O., Kochi-682 032. Ph: 0484-2346515

Date :- 19-05-2021  
Place :- Ernakulam

To  
Principal  
Devaswom Board College,  
Thalayolaparambu, Midayikkunnu PO  
Kottayam, Kerala 686605

Tender Reference No : 27/19/Coll/DB/TLPU(3), date : 22.04.2021

Madam,

Reference to our telephonic conversation regarding the Revised quote for Supply, installation, and commissioning of Wired Local Area Network Our quoted Price for Active and Passive Price is Rs. 8,06,117/- after the negotiation we are ready to offer Rs.7,37,500/- including all tax, No Bank Guarantee.

For Netlinks Business Consultants India Pvt



NETLINKS BUSINESS CONSULTANTS INDIA (P) LTD  
 31/2126-B1, First Floor, Sreyas Building, Karollil Lane,  
 Thammanam, Cochin 682032.  
 Ph: 0484-2346515.  
 GSTIN: 32AAECN3041R1ZC  
 PAN:AAECN3041R.  
 Email: info@netlinks.co.in

**ORIGINAL**

**TAX INVOICE**

<b>Billed To:</b> The Principal D.B.College, Thalayolaparambu Midayikunnu P.O, Thalayolaparambu Vaikom,Kottayam 686605 GSTIN : 32AAFAD6370E1Z2	<b>Invoice No:</b> HBC/2021-22/112
<b>Shipped To:</b> The Principal D B College, Thalayolaparambu Midayikunnu.P.O, Thalayolaparambu Vaikom,Kottayam 686605 GSTIN : 32AAFAD6370E1Z2	<b>Invoice Date:</b> 30-07-2021
	<b>Delivery Chalan No:</b>
	<b>Delivery Chalan Date:</b>
	<b>Tender Ref. No</b> ROC. 27/19/Coli/DB/TPU(3)
	<b>Purchase Order Date:</b> 24/05/2021
	<b>Transportor Name:</b>
	<b>Vehicle No:</b>

No	Description of Goods	HSN/ SAC Code	Qty	Unit	Rate	Total
1	DLINK CAT6 UTP LSZH LAN CABLE(NCB-C6UGRYR -305-LS)	85444992	5,185	Mtrs	21.94	113,781.00
2	DLINK Single Face Plate NFP-0WHI11	85177090	114	Nos	46.00	5,244.00
3	D-Link Cat6 I/O White NKJ-C6WHI1B21	85369090	114	Nos	42.00	4,788.00
4	D-Link Cat6 I/O White NKJ-C6WHI1B21	85369090	114	Nos	97.00	11,058.00
5	DLINK CAT6 LSZH P/C 1MTR GREY(NCB-C6UGRYR1-1-LS)	85444992	120	Nos	114.00	13,680.00
6	DLINK CAT6 LSZH P/C 2MTR GREY-NCB-C6UGRYR1-2-LS	85444992	114	Nos	137.00	15,618.00
7	DLINK Cat6 24 Port Patch Panel Loaded NPP -C61BLK241	85389000	6	Nos	2,267.00	13,602.00
8	DLINK OFC 6F OUTDOOR ARMD CABLE-NCB-FS100 -AUHD-06	90011000	150	Nos	46.00	6,900.00
9	DLINK 24 Port LIU R/M Loaded NLU-FSDLSCR-24	85389000	1	Nos	3,910.00	3,910.00
10	DLINK LIU 12 PORT RACK MOUNT L-NLU-FSDLSCR -12	85381010	1	Nos	3,358.00	3,358.00
11	DLINK PIGTAIL OS2 SC SM SIMPLEX 1M-NCB-FS10S-SC1	85447090	12	Nos	126.00	1,512.00
12	DLINK 1 Port Mini-GBIC LX SM Fiber DEM-310GT	85176990	2	Nos	2,041.00	4,082.00
13	DLINK Wireless N POE Access Point DAP2230	85176990	1	Nos	3,630.00	3,630.00
14	DLINK DGS-3130-30TS Managed Switch	85176290	1	Nos	68,000.00	68,000.00
15	DLINK DGS-1210-28 ME SWITCH	85176290	2	Nos	32,870.00	65,740.00
16	DLINK DGS-1210-28P/ME/IN SWITCH	85176290	1	Nos	13,375.00	13,375.00
17	27U Network Enclosure Frame-800X1000-STEEL	85381010	1	Nos	32,508.00	32,508.00
18	DLINK 12U Network Wall Mount Rack NWR-12U-504S-GR	85381010	1	Nos	5,735.00	5,735.00

<b>E&amp;OE</b>	<b>Total</b>	386,521.00
<b>Terms of Supply</b>	<b>Less Discount</b>	0.00
	<b>Taxable Value</b>	386,521.00
	<b>CGST 9 %</b>	34,786.89
	<b>SGST 9 %</b>	34,786.89
	<b>Roundoff</b>	0.22
	<b>Grand Total</b>	456,095.00

Invoice Amount in Words: Rupees Eleven Lakh Fourteen Thousand and Forty Only.

Declaration:  
 We declare that invoice shows the actual price of the goods described and that all particulars are true and correct.

Bank Account No:50200000762685  
 Bank:HDFC, Kalamassery, Kochi.  
 IFSCCode: IFSC: HDFC0000717

For NETLINKS BUSINESS CONSULTANTS INDIA (P) LTD



30/7/21



## e-Way Bill



E-Way Bill No: 5912 8200 6201  
 E-Way Bill Date: 30/07/2021 12:05 PM  
 Generated By: 32AAE CN304 1R1ZC - NETLINKS BUSINESS CONSULTANTS INDIA P LTD  
 Valid From: 30/07/2021 12:05 PM [36Kms]  
 Valid Until: 31/07/2021

## Part - A

GSTIN of Supplier 32AAECN3041R1ZC,NETLINKS BUSINESS CONSULTANTS INDIA P LTD  
 Place of Dispatch Ernakulam,KERALA-682032  
 GSTIN of Recipient 32AAF AD637 0E1Z2 ,DEVASWOM BOARD COLLEGE THALAYOLAPARAMBU  
 Place of Delivery THALAYOLAPARAMBU,KERALA-686605  
 Document No. NBC/2021-22/172  
 Document Date 30/07/2021  
 Transaction Type: Regular  
 Value of Goods 456094.78  
 HSN Code 85444992 - DLINK CAT6 UTP LSZH LAN CABLE(NCB-C6UGRYR -305-LS)( +17 )  
 Reason for Transportation Outward - Supply

Transporter

## Part - B

Mode	Vehicle / Trans Doc No & Dt.	From	Entered Date	Entered By	CEWB No. (If any)	Multi Veh.Info (If any)
Road	KL32C0048	Ernakulam	30/07/2021 12:05 PM	32AAECN3041R1ZC	-	-



591282006201

30/07/2021

## NETLINKS BUSINESS CONSULTANTS INDIA (P) LTD

31/2126-B1, First Floor, Sreyas Building, Karollil Lane,

Thammanam, Cochin 682032.

Ph: 0484-2346515.

GSTIN: 32AAECN3041R1ZC

PAN:AAECN3041R.

Email: info@netlinks.co.in

ORIGINAL

## TAX INVOICE

Billed To:			Invoice No:	NBC/2021-22/464			
The Principal			Invoice Date:	30-12-2021			
D B College, Thalayolaparambu			Delivery Chalan No:				
Midayikunnu P.O, Thalayolaparambu			Delivery Chalan Date:				
Vaikom, Kottayam 686605			Tender Ref. No	HCC. 27/19/Call/DB/TL/PPJ			
GSTIN : 32AAFAD6370E1Z2			Purchase Order Date:	24/05/2021			
Shipped To:			Transportor Name:				
The Principal			Vehicle No:				
D B College, Thalayolaparambu							
Midayikunnu P.O, Thalayolaparambu							
Vaikom, Kottayam 686605							
GSTIN : 32AAFAD6370E1Z2							
No	Description of Goods	HSN/ SAC Code	Qty	Unit	Rate	Total	
1	Dlink LCSC SM DPLX 1MTR NCS-FS10D-LCSC-1	85176290	2	Mtrs	1,012.00	2,024.00	
2	IP CAM D-LINK IR BLT DCS-F5714-L1	85258090	2	Nos	322.00	644.00	
3	IP CAM D-LINK IR DOME DCS-F5614-L1	85258090	4	Nos	6,017.00	24,068.00	
4	Dlink 32 CH IP NVR 2 SATA DNR-F5232-M8	852580	1	Nos	7,213.00	7,213.00	
5	Hard Disk 4TB WD AV	84717020	1	Nos	12,880.00	12,880.00	
6	SURYA BLACK PVC CONDUIT PIPE 25MM ISI (L)	39174000	1200	Mtrs	43.00	51,600.00	
7	BLACK PVC CONDUIT PIPE 32MM ISI (L)	39174000	600	Mtrs	48.00	28,800.00	
8	Cat-6 Cable Laying	998316	5185	Nos	12.00	62,220.00	
9	Cat-6 Information Outlet Termination	998316	114	Nos	45.00	5,130.00	
10	BackBox and Face Plate Fixing	998316	114	Nos	40.00	4,560.00	
11	Cat-6 Jackpanel Termination	998316	6	Nos	890.00	5,340.00	
12	24 Port Switch Fixing	998316	4	Nos	500.00	2,000.00	
13	27U Rack Installation	998316	1	Nos	1,500.00	1,500.00	
14	12U Rack Installation	998316	1	Nos	700.00	700.00	
15	PVC Conduit Laying	998316	1800	Mtrs	12.00	21,600.00	
16	Fiber Laying	998316	150	Nos	24.00	3,600.00	
17	Fiber Splicing Charges	998316	12	Nos	150.00	1,800.00	
18	OYDR Testing	998316	6	Nos	300.00	1,800.00	
F&OE						Total	2,37,479.00
Terms of Supply						Less Discount	0.00
						Taxable Value	2,37,479.00
						CGST 9 %	21,373.11
						SGST 9 %	21,373.11
						Roundoff	0.22
						Grand Total	2,80,225.00
Invoice Amount in Words: Rupees Two Lakh Eighty Thiusand Two Twenty Five Only.							
Declaration: We declare that invoice shows the actual price of the goods described and that all particulars are true and correct.							
Bank Account No 50200000762685							
Bank: HDFC, Kalamassery, Kochi.							
IFSC Code: IFSC: HDFC0000717							

For NETLINKS BUSINESS CONSULTANTS INDIA (P) LTD

Authorised Signatory







Dhanlaxmi Bank Ltd.  
 VAIKOM BRANCH  
 P. B. NO. 1, VAIKOM KOTTAVAM  
 VAIKOM KERALA 686141  
 NEFT / RTGS IFSC Code DLXB0000048

18052022  
 D D M M Y Y Y Y

Pay जदा करें NETLINKS BUSINESS CONSULTANTS INDIA (P) Ltd. Or Bearer  
 या धारक को

Rupees रुपये Seven lakhs thirty six thousand three  
hundred and twenty only.

₹ 7,36,320/-

A/c No. 004800100009437

SAVINGS BANK RESIDENT



Payable at par across all branches

For THE SECRETARY  
*Gyander*

Authorized Signatory  
 SECRETARY  
 TRAVANCORE DEVASWOM BOARD

⑈ 165558⑈ 686048602⑈

31

SESHASAI (G)  
 valid for three months only from the date of issue.



NETLINKS BUSINESS CONSULTANTS INDIA (P) LTD  
31/2126-B1, First Floor, Sreyas Building, Karollil Lane,  
GSTIN: 32AAECN3041R1ZC  
Email: [info@netlinks.co.in](mailto:info@netlinks.co.in)

Receipt No- \_\_\_\_\_ Date 20/05/22  
Received with thanks from Principal DB College Thalayala Puzhambu  
~~Principal DB College Thalayala Puzhambu~~ the Sum of Rupees 7,36,320/- Seven  
Lakhs thirty six thousand three hundred and twenty only by Cash/Cheque/Transfer Cheque No:  
165558 of Secretary Kavarancore devaram board.  
Payment against Invoice/ Advance \_\_\_\_\_

30/5/22

Rs. 7,36,320/-

For Netlinks   
 