



## **Kerala Start-Up Mission (KSUM)**

Formerly Technopark Technology Business Incubator (T-TBI)

G3B, Thejaswini, Technopark Campus  
Thiruvananthapuram 695 581  
Kerala State, India  
Phone No: 0471 2700270

### **NOTICE INVITING TENDER**

SCHEDULE		
Sl No	Activity Description	Schedule
1	Tender Enquiry No	KSUM/RT2/NetW/1stF/CyberPark/2022-23/ 01
2	Sale of Tender Document	<b>Mar 17, 2023 to Mar 23, 2023 upto 6:00 pm</b> Tender document can be downloaded from <a href="http://www.startupmission.kerala.gov.in/tender">www.startupmission.kerala.gov.in/tender</a>
3	No of Covers	2 (Technical & Financial)
4	Delivery time	In 2 weeks
5	Warranty period	1 Year
6	Tender Validity	30 days
7	Services to be offered	Networking at First Floor KSUM Govt Cyberpark Calicut (Please refer Tender Documents for more details)
8	Tender Fee	Rs. 300.00 (is to be remitted DD in favour of Technopark Technology Business Incubator)



9	EMD	Rs. 2000.00 (is to be remitted DD in favour of Technopark Technology Business Incubator)
10	Time and last date of submission of Tender/bid	Mar 23, 2023 upto 5:00 pm
11	Time and Date of Opening of Technical Bid	Mar 24, 2023 at 10:00 am

The bid documents and other details may be downloaded from the website [www.startupmission.kerala.gov.in/tender](http://www.startupmission.kerala.gov.in/tender)

All Bid documents are to be submitted as hardcopy in the specified format in address given below. Please specify Tender documents for more details.

**The Chief Executive Officer**

Kerala Start-Up Mission (Formerly Technopark-TBI),  
G3B, Thejaswini, Technopark Campus,  
Kariyavattom, Trivandrum 695 581  
Phone No: 0471 2700270  
Email: [procurement@startupmission.in](mailto:procurement@startupmission.in)

Place: Trivandrum  
Date: 17-03-2023

**Procurement Officer**  
Kerala Start-Up Mission

**Note:** - If the date of opening of bids happens to be a holiday; the actual date for the same will be the next working day. No separate intimation in this regard will be issued.



**Kerala Start-Up Mission**  
(Formerly Technopark TBI)  
G3B, Thejaswini, Technopark Campus  
Thiruvananthapuram 695 581  
Kerala

**TENDER DOCUMENT**

KSUM/RT2/NetW/1stF/CyberPark/2022-23/01

**Item required**

<b>Supply and installation of Network Item's</b>				
<b>Sl No</b>	<b>Description of items required</b>	<b>Qty</b>	<b>Warranty</b>	<b>Delivery</b>
1	<b>Cat6 Cable</b>	40 m	1 Year	2 Week
2	<b>Access Point</b>	4 nos	1 Year	2 Week
3	<b>Poe Adapter for the Access point</b>	4 nos	1 Year	2 Week

**Detailed Specification**

<b>Sl No</b>	<b>Items</b>	<b>Specifications</b>
1	Cat6 Cable	Supply, Installation, Testing and Commissioning of Cat-6

		<p style="text-align: center;">UTP Cable</p> <p>a) The 4 pair Unshielded Twisted Pair cable shall be FR-PVC</p> <p>b) This cable well exceeds the requirements of TIA/EIA-568-C.2 and ISO/IEC 11801</p> <p>c) Nominal Outer Diameter of Cable should be 5.7+/-0.01mm min and Conductor Diameter 24 AWG</p> <p>d) Construction: 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must.</p> <p>e) Conductor Solid bare Copper and Outer jacket sheath FRPVC and CM rated cable. Jacket color: Grey</p> <p>f) Insulation :High Density Polyethylene Solid</p> <p>g) Dielectric Strength of cable should be 1000 V RMS</p> <p>h) Bending Radius : &lt; 4X Cable Diameter at -20°C +/- 1°C , Pulling Force: 25.35 LBS</p> <p>i) Electrical Parameters Pair – to – pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR.</p> <p>j) Insertion Loss of 32.8 db/100m at 250 MHz</p> <p>k) Cable should support operating Temperature from -20° to +70°C</p> <p>l) Cable support Conductor Resistance &lt; 9.38 Ω /100m</p> <p>m) Mutual Capacitance of cable should be &lt; 5.6nF/100m</p> <p>n) Max Resistance Unbalance of cable should be 5% Max</p> <p>o) Capacitance Unbalance of cable should max 330pF/100m</p> <p>p) Cable support Delay Skew: &lt; 45nS, Operating Voltage: 72V NVP: 69% and Current Rating : MAX 1.5A</p> <p>q) Printed sequential Length Counter of each meter on Outer Jacket</p> <p>r) Category 6 UTP cables shall Supports Gigabit Ethernet (1000 base-T) standard and Operates at bandwidth of 600MHz</p> <p>s) Category 6 UTP cables FR-PVC/LSZH should be 250 MHz</p>
2	Access Point	<p style="text-align: center;">Wifi Access Pooint</p> <p>5 GHz WiFi 6 band (4x4), 2.4 GHz WiFi 4 band (4x4)</p> <p>3.0 Gbps aggregate throughput rate</p> <p>Horizontal, downward-tilted antenna pattern to widen coverage area</p>

		<p>(1) GbE RJ45 port (PoE In) Powered with PoE+ WiFi standards 802.11a/b/g WiFi 4/WiFi 5/WiFi 6 Wireless security WPA-PSK, WPA-Enterprise (WPA/WPA2/WPA3) VLAN 802.1Q</p>
3	Poe Adapter for the Access point	<p>Poe Adapter Delivers up to 30W of PoE+ Compatible with the U6 LR, U6 Pro, and other PoE+ devices Surge, peak pulse, and overcurrent protection AC cable with earth ground LED indicator for status monitoring Data In / PoE RJ45 shielded socket</p>

## General Terms & Conditions

### 1. Eligibility Criteria:

- Should be a Firm/Company Incorporated in India.
- Bidder should have a fully functional service centre with spares stock for attending the breakdown calls. Details of the service centre must be provided.

### 2. Scope of Supply:

- The Tenders shall be submitted as per the technical specifications as per **Annexure – I** (Part A)
- Submission of the Tender implies that these conditions of Tender have been read by the Tenderer and is aware of the scope of the supply and the quality of the material to be supplied. The final acceptance of the Tender rests with the Chief Executive Officer, Kerala Startup Mission who reserves the right to accept or reject any or all Tenders without assigning any reason thereof.

### 3. Submission of bids

The Tender should be submitted in two parts as under

- Technical Bid
- Financial Bid

The documents shall include the following:

- Company registration details
- Company profile



3. Work completion report
4. Copy of GST registration
5. Tender form
6. Annexure 1

#### **Financial Bid**

1. As per the Format given in Annexure 2

#### **4. Validity of Tender**

- a) The Tender shall be valid for a period of 30 days from the date of opening of the Tender.
- b) Tenderer for any reason whatever, withdraws the Tender after it is accepted or become unable or fails to execute the orders within stipulated delivery period, KSUM shall be at liberty to cancel the order forthwith and the EMD of the Tender in such a case will be forfeited by the KSUM.
- c) No representation for the enhancement of the prices of the accepted Tender or alteration of the terms and conditions will be entertained till supplies are completed.

#### **5. Guarantee of Quality and Warranty of goods supplied:**

- a. Guarantee/Warranty and Support and defects liability period-The supplier shall guarantee that all equipments are free from any defects due to the defective materials and poor workmanship, that the equipments are not less than the guaranteed values. The Guarantee shall be valid for the period mentioned against each item above after successful testing and taking over. Any part found defective shall be replaced free of cost by the supplier.

#### **6. Packing**

- a. The supplier shall provide packing of the goods, as required to prevent their damages or deterioration during the transit to their final destination as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit.
- b. The equipment shall be securely boxed, crated and protected from mechanical damage, moisture etc. suitable for both storage and transit according to the nature of the material and mode of transport.

#### **7. Price**

- a) The price shall be firm and shall include all applicable taxes and charges. Any variation in the duties, levies etc. during the period of supplies shall be charged to the Tenderer account. The rates quoted shall be all inclusive, with the delivery, up to destination i.e. KSUM, Govt Cyberpark Calicut.
- b) The Tenderer shall submit the copy of PAN Number, GST Number registration details along with the Tender.

#### **8. Delivery**

- a. The successful Tenderer shall complete supplies strictly within the accepted delivery period. Material ordered by the KSUM shall be delivered to destination securely packed as may be necessary.
- b. The Equipments shall have to be delivered and installed at KSUM, Govt Cyberpark Calicut to the satisfaction of concerned Authority.



## 9. Payment

The payment will be made by KSUM by e-Transfer to the bank account as mentioned in the bank mandate. The Tenderer shall submit the documents, which shall clearly indicate that the Proper Installation & successful Testing of Equipment are done.

## 10. Service Facility

In order to ensure proper and timely after sales service, contact details with addresses of service centre nearest to KSUM Govt Cyberpark Calicut shall be provided along with the bid.

## 11. Taxes

Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser.

## 12. Termination for Default

The purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, terminate the Contract in whole or part:

- a. If the supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser; or
- b. If the Supplier fails to perform any other obligation(s) under the Contract.
- c. If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this Clause:

- a. "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
- b. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of Borrower, and includes collusive practice among Tenderers (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition".

In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such Goods or Services.

However, the Supplier shall continue the performance of the contract to the extent not terminated.

## 13. Claims:

- a. If the material supplied are found to be off size and shape different than those in the accepted offer and are of specifications lower than those stipulated in the accepted offer, KSUM shall have the right to totally reject the goods and/or to prefer a claim for compensation for the part of goods, which are rejected.
- b. The supplier shall reimburse to KSUM, the actual expenditure incurred, on such goods, within 15 (fifteen) days of its demand.
- c. The supplier shall be responsible for arranging the rejected goods to be removed at his/her cost from KSUM, Govt Cyberpark Calicut premises.
- d. The supplier shall also compensate for losses, if any, sustained by KSUM due to defective packing and/or wrong marking of the goods.

## 14. Tender fee: The tender fee is **Rs. 300** /-



**15. Earnest money deposit:** The tenderer must pay earnest money along with the tender as given in the notice inviting tenders failing which the tender will be summarily rejected. Earnest Money deposit of Rs. **2,000** /- (Rupees Two Thousand Only) is to be remitted DD in favour of Technopark Technology Business Incubator. The Earnest Money deposited by successful tenderer will be retained towards the security deposit for the fulfillment of the contract. EMD of unsuccessful bidders will be returned without any interest, directly to their account.

**We confirm with our acceptance to the Commercial & General Terms & Conditions Sl. No. 1 to 15 as given above.**

**Date:**

**Name, Signature and seal of Tenderer**





## TENDER FORM

### **The Chief Executive Officer**

Kerala Start-Up Mission (Formerly Technopark TBI),  
G3B, Thejaswini,  
Technopark Campus,  
Trivandrum 695581

Dear Sir,

Sub: Bid form

Ref: Tender No.: KSUM/RT2/NetW/1stF/CyberPark/2022-23/01

1. Having examined the conditions of Tender contract, the receipt of which is hereby duly acknowledged. i/we undersigned, offer to supply all hardware & software and execute all works in conformity with Tender specifications referred above and also to the said terms & conditions from the sum shown in the commercial bid(s) attached herewith and made part of this bid.
2. I/We undertake, if our Bid is accepted to complete delivery & commissioning of all Items specified in the contract within 1 weeks calculated from the date of issue of your purchase order/LOI.
3. We understand that you are not bound to accept the lowest or any bid, you may receive.
4. I / We affirm that I / We have enclosed the acceptance of all terms and conditions and also all brochures detailing the technical specification of the items quoted by me/us.
5. I / We hereby confirm that all the items supplied are in proper working condition and tested successfully.
6. The Tender document for the works mentioned above have been obtained by me from the URL: <https://startupmission.kerala.gov.in/tender>, the official website of Govt of Kerala and I / we hereby certify that I / we have read the entire terms and conditions of the Tender document, which shall form part of the contract agreement and I / we shall abide by the conditions / clauses contained therein.
7. My /our GST & PAN Numbers are as follows.
8. GST Registration Number. ....
9. PAN Number. ....
10. Dated this .....day of..... 2023
11. Signature of
12. In capacity of
13. Duly authorized to sign the bid for and on behalf of -----
14. Witness 1. -----
15. Signature
16. Witness 2. -----
17. Signature

### Annexure I

#### Technical Specification for the supply and installation of Networking at First Floor KSUM Govt Cyberpark Calicut

Sl No.	Items	Specs	Compliance (Yes/No)	If No, Specify exact specification
1	Cat6 Cable	<p>Supply, Installation, Testing and Commissioning of Cat-6 UTP Cable</p> <p>a) The 4 pair Unshielded Twisted Pair cable shall be FR-PVC</p> <p>b) This cable well exceeds the requirements of TIA/EIA-568-C.2 and ISO/IEC 11801</p> <p>c) Nominal Outer Diameter of Cable should be 5.7+/-0.01mm min and Conductor Diameter 24 AWG</p> <p>d) Construction: 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must.</p> <p>e) Conductor Solid bare Copper and Outer jacket sheath FRPVC and CM rated cable. Jacket color: Grey</p> <p>f) Insulation :High Density Polyethylene Solid</p> <p>g) Dielectric Strength of cable should be 1000 V RMS</p> <p>h) Bending Radius : &lt; 4X Cable Diameter at -20°C +/- 1°C , Pulling Force: 25.35 LBS</p> <p>i) Electrical Parameters Pair – to – pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR.</p> <p>j) Insertion Loss of 32.8 db/100m at 250</p>		

		<p>MHz</p> <p>k) Cable should support operating Temperature from -20° to +70°C</p> <p>l) Cable support Conductor Resistance &lt; 9.38 Ω /100m</p> <p>m) Mutual Capacitance of cable should be &lt; 5.6nF/100m</p> <p>n) Max Resistance Unbalance of cable should be 5% Max</p> <p>o) Capacitance Unbalance of cable should max 330pF/100m</p> <p>p) Cable support Delay Skew: &lt; 45nS, Operating Voltage: 72V NVP: 69% and Current Rating : MAX 1.5A</p> <p>q) Printed sequential Length Counter of each meter on Outer Jacket</p> <p>r) Category 6 UTP cables shall Supports Gigabit Ethernet (1000 base-T) standard and Operates at bandwidth of 600MHz</p> <p>s) Category 6 UTP cables FR-PVC/LSZH should be 250 MHz</p>		
2	Access Point	<p>Wifi Access Pooint</p> <p>5 GHz WiFi 6 band (4x4), 2.4 GHz WiFi 4 band (4x4)</p> <p>3.0 Gbps aggregate throughput rate</p> <p>Horizontal, downward-tilted antenna pattern to widen coverage area</p> <p>(1) GbE RJ45 port (PoE In)</p> <p>Powered with PoE+</p> <p>WiFi standards 802.11a/b/g</p> <p>WiFi 4/WiFi 5/WiFi 6</p> <p>Wireless security WPA-PSK, WPA-Enterprise (WPA/WPA2/WPA3)</p> <p>VLAN 802.1Q</p>		
3	Poe Adapter for the	<p>Poe Adapter</p> <p>Delivers up to 30W of PoE+</p> <p>Compatible with the U6 LR, U6 Pro,</p>		



	Access point	and other PoE+ devices Surge, peak pulse, and overcurrent protection AC cable with earth ground LED indicator for status monitoring Data In / PoE RJ45 shielded socket		
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## Annexure 2

### Financial Bid submission format

Sl No	Item	Quantity	Amount with GST
1	<b>Cat6 Cable</b>	40 mt	
2	<b>Access Point</b>	4 nos	
3	<b>Poe Adapter for the Access point</b>	4 nos	
	<b>Grant Total</b>		

\*The rate quoted to be inclusive of all taxes and duties