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இலங்கை மத்திய வங்கி
CENTRAL BANK OF SRI LANKA

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ஊழியர் சேம நிதியத் திணைக்களம்
EMPLOYEES' PROVIDENT FUND DEPARTMENT

අංක 30, ජනාධිපති මාවත, කොළඹ 01, ශ්‍රී ලංකාව
இல. 30, சனாதிபதி மாவத்தை, கொழும்பு - 01, இலங்கை
No. 30, Janadhipathi Mawatha, Colombo 01, Sri Lanka

Ref: 04/10/005/0048/001

DOCUMENT A
INVITATION FOR TENDER

25 .04.2024

Dear Sir,

TENDER FOR THE PROVISION OF STRUCTURED NETWORK CABLING, NETWORK SWITCHES, RACK, AND UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM FOR THE EMPLOYEES' PROVIDENT FUND DEPARTMENT OF CENTRAL BANK OF SRI LANKA

Employees' Provident Fund (EPF) Department of Central Bank of Sri Lanka (CBSL) invites qualified and experienced networking suppliers to submit tenders for the provision of Structured Network Cabling including Network Switches, Cabinet/Rack, and Uninterruptible Power Supply (UPS) System for its buildings located at Rajagiriya.

1. Eligibility Criteria (Annex-I): In order to be eligible to bid, the prospective tenderer shall meet the following qualifications and experience.

1.1. Qualification:

- The tenderer shall be a company/firm registered in Sri Lanka which is valid at the time of bid closure.
- The tenderer shall have obtained CIDA (Construction Industry Development Authority) Registration EM (Electrical & Mechanical Services) Grade 4 or above.
- The tenderer is required to submit the Manufacturer Authorization Letter (MAL) from the vendor, obtained from the Original Equipment Manufacturer (OEM) for the quoted brand of products.

1.2. Experience:

- The Tenderer must have successfully completed two (02) similar projects including Industrial Standard Structured Network Cabling for LAN/WAN connecting more than one hundred (100) network access ports in last five (05) years ended 31.01.2024.
- Out of the two projects, one project must be included with supplying at least two (2) enterprise grade network switches.

The Tenderer shall provide documentary evidence for the tender qualifications and experience following the format given in Annex-I for the Eligibility Criteria.

2. Tender Overview: Project Objectives, and Requirements are given in **Annex-II**.

3. Technical Specifications: Required minimum technical specifications are given in **Annex-III**.

4. Site Inspection/Survey: Tenderers need to inspect the site and do site survey to submit the Bill of Material (BOM) including active and passive components as in Annex-IV. The date for the site

survey will be on 07.05.2024 at 10.00 a.m. and to facilitate security clearance, share the contact information of the officers attending the site inspection in advance.

5. **Price Schedule:** The Tenderer shall quote prices as per the price schedule given in Annex-V. The price quoted inclusive of all local taxes should be in Sri Lanka Rupee (LKR) and valid until 15.08.2024. The price shall remain unchanged during the validity period of the tender.
6. **Bid Guarantee:** The tenderer should furnish a Bid Guarantee amounting to a sum of Rs. 200,000 valid until 15.08.2024 by way of a Bank Guarantee substantially in the form of Annex VI or a Bank Draft in favor of the Superintendent of EPF Department obtained from a Licensed Commercial Bank operating in Sri Lanka. The Bid Guarantee shall be available at the time of the tender opening.
7. **Performance Guarantee:** Within 14 days from the date of letter of award of the contract by the Superintendent of EPF Department, the successful tenderer shall furnish a Performance Guarantee substantially in the form of Annex VII in a sum equivalent to 10% of the total Contract Price for the due performance of the contract which should be valid for 150 days from the date of Letter of Award. Such Performance Guarantee shall be in the form of a Bank Guarantee issued in favor of Superintendent of EPF Department obtained from a Licensed Commercial Bank operating in Sri Lanka and forwarded to the Corporate Services & Administration Division of the EPF Department of CBSL.

A successful tenderer who fails to provide the required Performance Guarantee as specified above shall be deemed to be disinterested in accepting the award, and the Bid Guarantee shall be forfeited.

8. **Delivery Period and Liquidity Damages:** The successful tenderer shall cover the scope, provide equipment, and services as per Annex II, Annex III, and Annex IV. EPF/CBSL reserves the right for quantity variation due to increase/decrease in requirements. The tenderer shall also provide all required equipment which may not be specifically stated herein but are required to meet the intent of ensuring completeness, maintainability and reliability of the total solution covered under this specification at the time of project completion.

The successful tenderer shall obtain prior approval for the installation methodology from the IT Department of CBSL before carrying out the site installations.

The successful tenderer shall complete the total project within 120 days starting from the date of the Letter of Award. Failure to deliver the required items within this period would render the supplier liable to pay liquidated damages at the rate of Rs. 20,000 per each day of delay and such amounts will be deducted from the payment due to the supplier.

9. **After Sales Service Requirements:** The successful tenderer shall provide maintenance and technical support for the total cabling work including all the tendered products and services matters during the period of Warranty and Support as in **Section-6 of Annex III**.
10. **Payment Method:** All payments will be subject to existing taxes as applicable in terms of the Inland Revenue Act and any subsequent amendments and notices issued by the Department of Inland Revenue, Sri Lanka. The conditions of the payments are as follows.
 - (a) An advance payment not exceeding 20% of the Contract value may be released upon the submission of an Advance Payment Guarantee issued by a Licensed Commercial Bank operating in Sri Lanka valid for 150 days.

- (b) An amount equivalent to 70% of the cost will be paid after 14 days from the date of commissioning of the project on recommendation of the Director, IT Department, CBSL.
- (c) The balance 10% will be paid after 90 days subject to the satisfactory performance of tendered items/services.
- (d) The successful tenderer shall submit a copy of VAT Registration Certificate (if any).

11. Sub-Contracting: The successful tenderer shall not assign the Contract or any part thereof to any other third party without the formal prior approval of the EPF/CBSL. If the Tenderer plans to subcontract certain specialized work of the contract to a specialized sub-contractor, such intension shall be indicated in the bid.

12. Document Requirement: Tenderer shall furnish list of documents as in **ANNEX-VIII** along with the quotation.

13. Selection Method: During the selection the following will be considered.

- (a) The evaluation will be based on the least cost method subject to substantial compliance with Tender conditions.
- (b) As a post qualification measure, the ISO 9001:2015 or equivalent quality assurance certification will be considered.
- (c) The EPF/CBSL reserves to itself the right to accept any or reject any or all tender(s) received and is not bound to accept the lowest quotation. The decision of the EPF/CBSL shall be final with regard to the award of the contract.

14. Submission of Bids and Tender Opening:

- i. Duly perfected tender documents addressed to the Superintendent of the Employees' Provident Fund Department, Central Bank of Sri Lanka, No 30, Janadhipathi Mawatha, Colombo 01 should be sent through registered post or deposited in the tender box located in the mail room at Level 4 of the same building, with the subject "*Tender for the Provision of Structured Network Cabling, Network Switches, Rack, and Uninterruptible Power Supply (UPS) System for the Employees' Provident Fund Department of Central Bank of Sri Lanka*" not later than **1430 hrs. on 15.05.2024.**
- ii. Tenders will be opened immediately after closing the tenders on 15.05.2024. The tender opening shall take place at Central Bank of Sri Lanka, No. 30, Janadhipathi Mawatha, Colombo – 01. and tenderers or their authorized representatives may inform the EPF Department through an email to tenders.epf@cbsl.lk on or before 14.05.202 if wish to attend for the Bid Opening.

15. Contact Details: For any further clarifications you may contact the following officer/s.

- (a) Senior Assistant Superintendent/EPF - for Procurement Matters – 0112477969 / 011 2477962
- (b) Senior Assistant Director/IT - for Technical Matters – 0112477318

Sgd. Superintendent
Employees' Provident Fund Department
Central Bank of Sri Lanka

DOCUMENT B

FORM OF TENDER

To: Superintendent of the Employees' Provident Fund,
On behalf of the Central Bank of Sri Lanka,
Level 12, Tower 05,
No 30, Janadhipthi Mawatha,
Colombo 01

**TENDER FOR THE PROVISION OF STRUCTURED NETWORK CABLING, NETWORK SWITCHES, RACK,
AND UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM FOR THE EMPLOYEES' PROVIDENT FUND
DEPARTMENT OF CENTRAL BANK OF SRI LANKA**

Having examined the Invitation to Tender and all other requirements indicated in the Tender Documents, I/We of
hereby offer to undertake the Structured Network Cabling for the Buildings at the Employees' Provident Fund Department of Central Bank of Sri Lanka in accordance with the conditions and specifications indicated in the tender documents, at the rates quoted in the Price Schedule (Annex V) within a period of 90 days from the date of Letter of Award of Tender for the total sum of Rupees (Rs.....).

If my/our Tender is accepted I/we agree to furnish a Performance Guarantee in accordance with the tender documents in a sum equivalent to 10% of the total Contract Price for the due performance of the contract. Such Performance Guarantee shall be in the form of a Bank Guarantee or a Bank Draft in favour of Superintendent of Employees' Provident Fund Department obtained from a licensed commercial bank operating in Sri Lanka. The Performance Guarantee shall be valid for 150 days from the date of Letter of Award by the EPF/CBSL. I/We understand that my/our Tender together with your written acceptance thereof shall form a binding contract between us.

Dated this of Two Thousand and Twenty-Four.

Duly authorized to sign the bid for and on behalf of (Company name and address).

Name:

Designation:

Signature: Official Seal:

Witnesses:

1. **Signature:**
Name:
Address:
Designation:
2. **Signature:**
Name:
Address:
Designation:

**TENDER FOR THE PROVISION OF STRUCTURED NETWORK CABLING, NETWORK SWITCHES, RACK,
AND UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM FOR THE EMPLOYEES' PROVIDENT FUND
DEPARTMENT OF CENTRAL BANK OF SRI LANKA**

ELIGIBILITY CRITERIA

1.1 Qualifications:			
	Requirement	Proof Documents	Reference to Proof Documents
(a)	The tenderer shall be a company/firm registered in Sri Lanka.	The tenderer is required to submit a copy of valid company registration document.	
(b)	The Tenderer shall have obtained CIDA (Construction Industry Development Authority) Registration EM (Electrical & Mechanical Services) Grade 4 or above.	The tenderer is required to submit a valid EM4, or above registration certificate obtained from CIDA.	
(c)	Tenderer shall ensure quoted products for the tender shall be from OEM.	The tenderer is required to submit the Manufacturer Authorization Letter (MAL) from the vendor, obtained from the Original Equipment Manufacturer (OEM) for the quoted brand of products.	

1.2 Experience			
	Requirement	Proof Documents	Reference to Proof Documents
(a)	The tenderers must have successfully completed two similar structured network cabling installation projects for building or campus network infrastructure, each involving the establishment of LANs connecting more than one hundred (100) LAN ports, during the 5 years ended on 31 st December 2023.	The Tenderer shall provide the experience details as per the format given under the Experience Report – Project 1 and Project 2 , along with documentary evidence such as sales invoices or related documentary proofs for the provided experiences.	
(b)	Out of the two projects, one project must be included with supplying at least two (2) enterprise grade network switches.		

EXPERIENCE REPORT

Name of the Company:

Experience Report - Project 1:

Customer/Client Name & Address		
Project Details		
Number of LAN Access Ports		
Number of Switches Offered		
Details of the Offered Switches	Switch Type	Managed/L2/L3/Datacenter/Distribution/Access/Etc...
	Brand / Model	
	Description	
Supply Date of Switches		
Value of the Switches (LKR)		
Total Project Value (LKR)		
Project Start Date		
Project End Date		
Customer/Client Contact Person	Name	
	Designation	
	Telephone No	

Experience Report - Project 2: (Must be a Network Cabling Installation Project Included with Supplying of Network Switches)

Customer/Client Name & Address		
Project Details		
Number of LAN Access Ports		
Number of Switches Offered		
Details of the Offered Switches	Switch Type	Managed/L2/L3/Datacenter/Distribution/Access/Etc...
	Brand / Model	
	Description	
Supply Date of Switches		
Value of the Switches (LKR)		
Total Project Value (LKR)		
Project Start Date		
Project End Date		
Customer/Client Contact Person	Name	
	Designation	
	Telephone No.	

**TENDER FOR THE PROVISION OF STRUCTURED NETWORK CABLING, NETWORK SWITCHES, RACK,
AND UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM FOR THE EMPLOYEES' PROVIDENT FUND
DEPARTMENT OF CENTRAL BANK OF SRI LANKA**

PROJECT OVERVIEW

Project Objectives and Scope	
<p>Central Bank of Sri Lanka (CBSL), intended to extend its existing network infrastructure to accommodate local area network (LAN) facilities to a new floor area in its building at Rajagiriya. The building consists of LANs which connect multiple floor areas to its datacenter (DC). The main objective of the project is to:</p> <ol style="list-style-type: none"> 1. Provide and install horizontal copper cabling on the Floor Area of the building to extend Local Area Network (LAN) facilities for One Hundred and Fifty (150) network access ports. 2. Provide and install vertical (backbone) fiber cabling connecting the building's Horizontal Distribution Area (HDA) with its Main Distribution Area (MDA). 3. Provide and install HDA Network Cabinet/Rack, Power Distribution Units (PDU), Termination Equipment and Accessories. 4. Provide and Install Two (2) units of Network Switches, and One (1) unit of Uninterruptible Power Supply (UPS) System to the HDA Network Cabinet/Rack. 5. The tenderers are expected to use cable duct paths and trays that are already in place for the building's existing network infrastructure. <p>The tenderers are requested to inspect the existing cable runs of the building site prior to the bid proposal.</p>	

01	General Requirement Overview	Compliance (Yes/No)
1.	Tenderer shall require adhering to the CBSL terms and conditions in accessing and working at CBSL sites.	
2.	Tenderer shall ensure the safety when handling and working with the CBSL's existing network and its related equipment or any other components used for the work.	
3.	Tenderer is expected to source all required tools, ladders, scaffolding, working platforms, and accessories required for the work.	
4.	The successful tenderer shall supply, deliver, install, commission, and test any materials, equipment, systems that may not specifically mentioned in this tender document but are required for successful completion of the project.	

02.	Technical Requirement Overview	Compliance (Yes/No)
1.	Tenderer shall install horizontal network cabling in a floor area consist of 1350 square feet to setup Local Area Network (LAN) terminating 144 telecommunication (Network) outlet connectors. Cable count and pathway capacity shall be decided at the site inspection.	
2.	Tenderer shall install backbone cabling connecting Main Cross-connect (MC) cabinet/racks with building's Horizontal Cross-connect (HC) cabinet/rack.	
3.	Tenderer shall consider backbone cabling redundancy for each connection and accordingly install physically separated cables.	
4.	Tenderer shall ensure that all the cablings are in adherence to ANSI/TIA structured cabling standards and practices (ANSI/TIA-568.1-E) and shall support interoperability and backward compatibility. (Connectivity Physical Infrastructure Minimum Technical Specifications are given in Section-1.1 and 1.2, Annex-III)	
5.	Tenderer shall provide all necessary patch panels, patch cords, and termination accessories to meet above CAT6A and OM4 cabling as necessary to complete industrial standard installation for structured network cabling. (Connectivity Physical Infrastructure Minimum Technical Specifications are given in Section-1.3, Annex-III)	
6.	Tenderer is expected to use the existing cable ducts and trays of the building network, and shall provide any additional ducts, trays, conduits, or any other items, where it is necessary to complete the cabling installations. (Refer Section-1.4, Annex III for minimum technical specifications for cable trays)	
7.	Tenderer shall provide and install one (01) unit of industrial standard network equipment racks/cabinets at HDA. (Refer Annex III Section-2 for racks/cabinets minimum technical specifications.)	
8.	Tenderer shall ensure that provided rack/cabinet complies with relevant network rack/cabinet/enclosure industrial standards, and the cabinet/rack shall be equipped with cable management, rack mount power distribution units (RPDUs) for AC power, and cooling fans to remove hot air. (Refer Annex III Section-3 for RPDUs minimum technical specifications.)	
9.	Tenderer shall ensure all the cablings and components are marked with systematic labelling using easily traced permanent identifier adhering to ANSI/TIA recommended cable labelling standards (ANSI/TIA-606)	
10.	Tenderer shall be responsible for Testing & Commissioning of Structured Cabling System and shall provide Fiber Optic Test Results and UTP Cable Test Result with 25 years performance guarantee by manufacturer.	
11.	The tenderer shall conduct a comprehensive testing and certification ensuring optimal performance and reliability of the network cabling infrastructure. The tenderer should submit test results providing valid calibration certificates for the testing equipment used during the testing phase.	
12.	Tenderer shall provide and install one (01) unit of rack mountable Uninterruptible Power Supply (UPS) systems in the network equipment racks/cabinets installed at HDA. (Refer Annex III Section-4 for UPS systems minimum technical specifications.)	
13.	Tenderer shall provide and install two (02) units of 50 port Enterprise-Grade Access Layer Managed Switches in the network equipment rack/cabinet installed at HDA. (Refer Annex III Section-5 for Enterprise Grade Access Layer Switch minimum technical specifications.)	

14.	The tenderer must provide network switches and UPS obtained only from authorized partner/ reseller/ distributor/ dealer/ agent.	
15.	The tenderer must submit the Manufacturer Authorization Letter (MAL) from the vendor, obtained from the Original Equipment Manufacturer (OEM) for the quoted brand of switches and UPS.	
16.	Tenderer shall prepare the Bill of Material (BOM) based on site inspection and tender requirements. Tenderer shall submit the detailed BOM as in Annex IV.	
17.	Tenderer shall submit documentary evidence to establish the country of origin of the offered products and equipment.	
18.	Tenderer shall provide Manufacturer's brochures (originals) on the offered products/equipment model indicating technical specifications. (In English language).	
19.	The Successful tenderer shall be responsible for providing all materials, equipment, and services, specified or otherwise, which are required to fulfil the intent of ensuring completeness, operability, maintainability, and reliability of the complete equipment and services covered under the technical specification within the quoted price.	

**TENDER FOR THE PROVISION OF STRUCTURED NETWORK CABLING, NETWORK SWITCHES, RACK,
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MINIMUM TECHNICAL SPECIFICATIONS

1	Connectivity Physical Infrastructure Minimum Technical Specifications		Compliance (Yes/No)					
I.	Cable Make / Model							
II.	Country of Origin / Country of Manufacturer							
1.1	Tenderer shall provide OM4 or above fiber cabling as necessary with below minimum specification							
I.	Number of cores: 6							
II.	Type of tube: tight buffered							
III.	Fiber type: multi-Mode 50/125µm							
IV.	Flame Rating: Low Smoke Zero Halogen							
V.	Installation tension: Minimum 650N							
VI.	Crush strength: Minimum 500							
VII.	Compliance: ANSI/TIA-568.3-D, RoHS, Telcordia, IEC 60754-2, IEC 60332-1, UL1666, IEC 61034							
1.2	Tenderer shall provide CAT 6A or above Un-Shielded Twisted Pair (UTP) cabling as necessary with below minimum specification							
I.	Data Rate: 1/10GE							
II.	Number of twist pairs: 4 pairs							
III.	Conductor: 24AWG Bare Copper							
IV.	Flame Rating: UL 1685							
V.	Installation tension: Minimum 110N							
VI.	POE Support: PoE+ and PoE++ Power application							
VII.	Channel performance: TIA/ISO standards with headroom guarantee							
VIII.	Compliance: ANSI/TIA-568.2-D Cat6A, IEC 61156-5 Cat6A							
1.3	Tenderer shall provide all necessary patch panels, patch cords, and termination accessories to meet above CAT6A and OM4 cabling as necessary to complete industrial standard installation.							
I.	Fiber Termination shall be Fusion Splice Type, and UTP cabling installation should be wired to the T-568B specifications.							
II.	All the fiber and UTP connectivity shall have fiber and UTP patch panels at MC and HC racks/cabinets.							
III.	Fiber patch panels shall be 1U, Lucent Connector (LC) type for LC duplex push-pull connectors.							
	<table border="1"> <thead> <tr> <th>Fiber Patch Panel</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>19" 1U 12F, 6 Port LC Duplex Multimode</td> <td align="center">2</td> </tr> </tbody> </table>	Fiber Patch Panel	Count	19" 1U 12F, 6 Port LC Duplex Multimode	2			
Fiber Patch Panel	Count							
19" 1U 12F, 6 Port LC Duplex Multimode	2							
IV.	Fiber Patch Cords shall be OM4, multi-Mode 50/125µm.							
	<table border="1"> <thead> <tr> <th>Fiber Patch Codes</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>LC – LC, 1 meter patch cords</td> <td align="center">6</td> </tr> <tr> <td>LC – LC, 2-meter patch cords.</td> <td align="center">6</td> </tr> </tbody> </table>	Fiber Patch Codes	Count	LC – LC, 1 meter patch cords	6	LC – LC, 2-meter patch cords.	6	
Fiber Patch Codes	Count							
LC – LC, 1 meter patch cords	6							
LC – LC, 2-meter patch cords.	6							
V.	UTP patch panels shall be 1U, RJ45 type, Flat, and Feedthrough patching.							
	<table border="1"> <thead> <tr> <th>UTP Patch Panel</th> <th>Count</th> </tr> </thead> <tbody> </tbody> </table>	UTP Patch Panel	Count					
UTP Patch Panel	Count							

	19" 1U/2U, 48 Port RJ45 Feedthrough	3	
VI.	UTP Patch Cords shall be CAT6A 28AWG, Bare Copper four pair twisted stranded cables, terminated with RJ45 modular connectors at both the ends.		
	UTP Patch Codes	Count	
	Cat6A UTP 28AWG 3-meter Patch Cords	100	
	Cat6A UTP 28AWG 1-meter Patch Cords	100	
1.4	Tenderer shall provide and install Cable Trays as required with below minimum technical specifications maintaining industrial standard structured network cabling.		
I.	Cable Tray Type: Perforated/Ventilated		
II.	Surface: Galvanized		
III.	Sheet Thickness: 1.2mm		
IV.	Tray Size: 150mm x 100mm		

2	Network Racks/Cabinets/Enclosures Minimum Technical Specifications		Compliance (Yes/No)
I.	Make / Model		
II.	Country of Origin / Country of Manufacturer		
III.	Rack Size	18U 19-inch (600mm x 800mm)	
IV.	Rack Quantity	1 No. of Floor/Free Stand Type	
2.1	Tenderer shall ensure Rack (Rack/Cabinet/Enclosure) and it's connected Subsystems which shall be manufactured using industrial and globally accepted standards such as EIA-310-E, TIA/EIA-942, UL2416.		
I.	Rack shall be made of rust proof durable materials consist of Zinc-coated steel sheet or/and galvanized steel sheet with thickness not less than 1.6mm		
II.	Rack shall have 19" Mounting Angle, adjustable rear equipment rails with continuous positioning, and fixed front rails. Rack shall be marked Rack U numbers		
III.	Rack shall be at least 70% perforation on rack front and back doors. And racks shall have double swing back door for Floor/Free Stand Type Racks. And Wall Mount Type Racks shall have wall hanging provisions.		
IV.	Rack shall have cable access opening or adjustable opening on the top and bottom frame and shall have enough provision for data cabling and power cabling.		
V.	Rack shall have provision for remove side panels for any rack operations.		
VI.	Rack shall have 230V AC Low noise brushless Fan Plates (2 fans in each plate)		
VII.	Rack shall be brand independent and able to support third party network Switches, UPS, and other Network Equipment.		
VIII.	Rack shall be equipped with M6 Screws, Washers, M6 Cage Nuts, and accessories.		
IX.	Rack shall have provision for Horizontal Cable Management (Front and Rear), and Racks shall be provided with Reusable and Repositionable Straps (Ex: Velcro Straps) for Cable Ties to organize cable pathways.		
X.	Rack shall be key lockable on front and back doors, and side panels.		
XI.	Rack shall have fully electrically bonded without the use of Grounding Wires between Equipment Rails, Door and Side Panels which shall be connected to Equipotential Bonding Network		

XII.	Rack shall be built with heavy duty nylon caster wheels for Floor Stand.	
XIII.	Racks shall have overall Ingress Protection Class not less than IP20.	
XIV.	Sample Rack need to be approved from CBSL prior to start fabrications. (For Locally Manufactured or Customized Brands)	
XV.	Should provide Manufacturer Warranty Certification for 3 Year for the Product.	

3	Rack Mount Power Distribution Unit (RPDU) with below minimum technical specifications		Compliance (Yes/No)
I.	Make / Model		
II.	Country of Origin / Country of Manufacturer		
III.	RPDU Quantity	One (01) No of 8 Port RPDU	
3.2	One (01) No of 13A 8 Port RPDU		
I.	Type: 19-inch Rack Mountable		
II.	Outlets: 8 IEC Type G Connectors		
III.	Inlet: IEC C14 Connector		
IV.	Nominal Input Voltage: 120-240 VAC		
V.	Input Frequency: 50/60 Hz		
VI.	Power Cord: 1.98-meter power cord terminates with Rack mounted UPS outlets		
VII.	Compliance: UL 60950, EN 60950, or equivalent		

4	Rack Mountable UPS Systems Minimum Technical Specification		Compliance (Yes/No)
I.	UPS Make / Model		
II.	Country of Origin / Country of Manufacturer		
III.	UPS Type	Rack Mount Industrial Type	
IV.	UPS Quantity	One (01) No of 2kVA UPS	
4.1	One (01) Nos of 2kVA UPS Systems		
I.	Capacity: 2 kVA minimum		
II.	Technology: Rack mounted type Online double conversion		
III.	Wave Form type: Sine wave		
IV.	Input: Single phase 50 Hz, 230 V		
V.	Output: Single phase 50 Hz, 230 V		
VI.	Power outlets: 4 nos. (minimum)		
VII.	Backup Time: 10 minutes (minimum) at full load		
VIII.	Batteries: maintenance-free sealed lead batteries		
IX.	Management: via RS232 (optional)		
X.	Remote Monitoring Facility: The UPS shall have the remote monitoring facility which can be monitored from a central location. Details of the monitoring system to be provided with the Bid		
XI.	Warranty: 3 years comprehensive (including batteries)		

4.2	Tenderer shall indicate the make, model, surge protection facilities, input frequency tolerance, input voltage tolerance and ampere hours of the batteries and the detailed circuit diagram of the offered products	
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5	Enterprise Grade Access Layer Switch Minimum Technical Specification	Compliance (Yes/No)
I.	Switch Make	
II.	Switch Model	
III.	Country of Origin	
IV.	Released Date	
V.	End-of-Support	
VI.	Switch Quantity	Two (02)
5.1	Hardware Features:	
I.	Switch must be Enterprise-Grade Access Layer Managed Switch	
II.	Switch should be rack mountable and should be provided with mounting brackets, and support side rails if required.	
III.	1U Rack height is preferred	
IV.	Switch should have 512M System Memory, 256 M Flash	
V.	The switch should have Redundant Power Supplies and be bundled with power cables featuring IEC13-IEC14 connectors (C13-C14 Connectors),	
VI.	The Switch Power Supply should feature with Rated AC Voltage Range between 100V to 240V and 50Hz to 60Hz AC Frequency.	
VII.	Switch should have Redundant Fans for Air Cooling, and the Airflow Direction should be Front to Rear (Port Side Intake).	
VIII.	The Air-Cooling Fans should be Field Replaceable or Hot-Swappable	
IX.	Switch should support stacking technology for scalability, redundancy, and management. Necessary Stack Cables and Related Accessories Should be provided with the Switch.	
X.	Stack Cable of Length 0.5m - Stack Wise Cable, Direct Attached Cable (DAC), or Active Optical Cables (AOC)	
5.2	Interface: Ports with Transceivers	
I.	Minimum GE Ports (100/1000 Base-T), for Category 5/6 Copper – 48 Nos	
II.	Minimum 10GE Ports (SFP / SFP+) with Transceiver Modules, (LC), 400m OM4 MMF – 2 Nos	
III.	Management Interface / Out of Band Management Port (RJ-45 Port)	
IV.	Console Port (RJ-45 or RS-232 serial port)	
V.	USB Port	
5.3	Performance:	
I.	Switch shall have minimum switching capacity of 136G (Full Duplex)	
II.	Switch shall have minimum switch forwarding rate of 41Mpps	
III.	Switch should handle minimum of 16K MAC Addresses and 265 active VLANs.	
IV.	Switch should support broadcast, Unicast and multicast storm control	
V.	The switch should support IPv4/IPv6 multicast routing features with IGMP v1, v2 and IGMP snooping.	
5.4	Functionality:	
I.	IEEE 802.1D (STP) Spanning Tree Protocol	
II.	IEEE 802.1w (RSTP) Rapid Spanning Tree Protocol	

III.	IEEE 802.1s (MSTP) Multiple Spanning Tree Protocol	
IV.	IEEE 802.1x (NAC) Network Access Control	
V.	IEEE 802.1x-Rev (Port-Based Network Access Control - Revision)	
VI.	IEEE 802.1p (QoS prioritization)	
VII.	IEEE 802.1Q (VLAN Tagging)	
VIII.	IEEE 802.3ad (LACP) Link Aggregation Control Protocol	
IX.	IEEE 802.1ab (LLDP) Link Layer Discovery Protocol	
X.	IEEE 802.3ae (MAC Parameters, Physical Layer, and Management Parameters for 10 Gb/s Operation)	
XI.	IEEE 802.3x (flow control in full-duplex Ethernet LANs)	
XII.	IEEE 802.3 (10BASE-T specification)	
XIII.	IEEE 802.3u (100BASE-TX specification)	
XIV.	IEEE 802.3ab (1000BASE-T specification)	
XV.	IEEE 802.3az (Energy Efficient Ethernet)	
XVI.	IEEE 802.3z (1000BASE-X specification)	
5.5	Features:	
I.	Tagging or Trunking VLANs (Tagged VLAN)	
II.	Grouping VLANs (VLAN Group)	
III.	Limiting maximum number of VLAN to 4094 (4K VLAN)	
IV.	Port-based VLAN assignment (802.1Q)	
V.	MAC-based VLAN assignment	
VI.	Multiple VLAN registration (MVRP 802.1Q)	
VII.	STP, RSTP, and MSTP to prevent and manage network loops	
VIII.	BPDU protection, Root protection, and Loop protection	
IX.	LACP for Network reliability and Bandwidth increase	
X.	Loopback Detection (LBD) and Configurable Recover Time for network ports	
XI.	Configurable MAC-IP bindings	
XII.	Type of Service (TOS) and Differentiated Services Code Point (DSCP) marking (802.1p)	
XIII.	Dynamic Host Configuration Protocol (DHCP) client, DHCP server, and DHCP snooping	
XIV.	LLDP for interoperability and neighbour discovery	
XV.	Analyzer port configuration for traffic monitoring of a single port and group of ports.	
XVI.	Proposed switch should have capability to disable per-VLAN MAC learning to manage MAC address table space by controlling which interfaces or VLANs learn MAC addresses	
5.6	Management:	
I.	The switch is configurable via SSH, Telnet or Console Port	
II.	Parameters of the switch should be configurable using WEB based GUI.	
III.	The switch should have an IP address (default) for initial configuration using either GUI or SSH.	
IV.	The switch should be SNMP manageable as per the standard SNMP ver1, ver2 and/or ver3.	
V.	SNMP parameters should be configurable.	

5.7	Software Installation, Configuration, Backup, and Monitoring:	
I.	The switch should be supplied with the latest firmware	
II.	The switch should support TFTP / FTP for switch image upgrade, configuration, and configuration backup.	
III.	The switch should support monitoring through console port, management port, or through Ethernet port.	
5.8	Licensing and Warranty:	
I.	Licensing model of the proposed switches should be Perpetual.	
II.	The switch should be covered with 3-year comprehensive OEM Warranty for hardware and software including maintenance, support, and updates.	
III.	The Warranty period of the switch should be renewable for 4th, 5th, and 6th Year	
IV.	Proposed product should be supported by the OEM not less than next 5 years	
V.	The tenderer must allocate a product certified Engineer to perform the installation and support activities.	
5.9	Regulatory Standards and Safety Compliance:	
I.	Safety Standards: UL 60950-1, EN 60950-1, IEC 60950-1, EN 62368-1 or equivalent	
II.	Environmental Compliance: RoHS Directive (2011/65/EU) EN 50581 or Equivalent	

6	After Sales Service Requirements Minimum Technical Specification	Compliance (Yes/No)
6.1	Warranty and support	
I.	Successful Tenderer shall provide fifteen (15) years Comprehensive Warranty and Support for the Connectivity Physical Infrastructure including Components and Products. And the Tenderer shall ensure Comprehensive Warranty and Support from authorized reseller /agent/ distributor/ original equipment manufacturer (OEM) during the Warranty Period.	
II.	Successful Tenderer shall provide three (03) years Comprehensive Warranty and Support for the UPS systems and PDU systems. And the Tenderer shall ensure Comprehensive Warranty and Support from authorized reseller /agent/ distributor/ original equipment manufacturer (OEM) during the Warranty Period. All relevant subscriptions if any shall be clearly mentioned with required part numbers.	
III.	Successful Tenderer shall provide three (03) years Comprehensive Warranty and Support for the network switches. And the Tenderer shall ensure Comprehensive Warranty and Support from authorized reseller /agent/ distributor/ original equipment manufacturer (OEM) during the Warranty Period. All relevant subscriptions if any shall be clearly mentioned with required part numbers.	
IV.	Successful Tenderer shall provide detailed Bill of Material (BOM) including Warranty and Support	
V.	Successful Tenderer shall provide technical support, break fixing, and technical advice during the Warranty period. All Expenses related to fault replacement during the warranty period shall be borne by the Tenderer.	

VI.	Successful Tenderer shall attend to reported faults within 24 hours. And faults, repairs, and part replacement shall be fixed/resolved within maximum time of one week during the Warranty Period.	
VII.	The successful Tenderer shall provide contact details of two (02) technical personnel as contact points for fault reporting and coordinating the services and repairs.	
VIII.	The Tenderer shall ensure the OEM shall not declare the supplied products as End of Support (EoS) or End of Life (EoL) during the Warranty period (3 Years).	

**TENDER FOR THE PROVISION OF STRUCTURED NETWORK CABLING, NETWORK SWITCHES, RACK,
AND UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM FOR THE EMPLOYEES' PROVIDENT FUND
DEPARTMENT OF CENTRAL BANK OF SRI LANKA**

BILL OF MATERIAL

	Components	Notes	Required Quantity
1.	OM4 or above Fiber Optic Cable	Quantity shall be based on the specification and as per the site inspection	As necessary
2.	CAT6 UTP Cable	Quantity shall be based on the specification and as per the site inspection	As necessary
3.	Fiber Patch Panels	Industrial standard OM4 Fiber optic patch panels in total	2
4.	Fiber Patch Cords	Industrial standard Fiber patch cords in total	12
5.	UTP Patch Panels	Industrial standard UTP patch panels in total	3
6.	UTP Patch Cords	Industrial standard UTP patch cords in total	200
7.	Cabling Termination Accessories Fiber	Industrial standard Fiber optic adapters/couplers, and/or pigtails	As necessary
8.	Cabling Termination Accessories UTP	Industrial Standard Customized Four Gang Faceplates with Modules (Keystone Jacks (144), and Back Boxes)	36
9.	Cable Trays	Quantity shall be based on the specification and as per the site inspection	As necessary
10.	Network Racks	Industrial standard Network racks/cabinets	1
11.	Power Distribution Units (PDU)	Industrial standard rack mounted RPDUs	1
12.	Uninterruptible Power Supply (UPS) Systems	Rack mountable UPS systems	1
13.	Network Switch	50 port Enterprise Grade Access Layer Switch	2
14.	Transceiver Modules	10GE (SFP / SFP+) with, (LC), 400m OM4 MMF	4
15.	Installation and Labour		As necessary
16.	Warranty & Support	Comprehensive warranty for the UPS systems directly from the OEM/principal and the Tenderer shall provide comprehensive support during the period of Warranty.	3 Years
17.		Comprehensive warranty for the RPDUs directly from the OEM/principal and the Tenderer shall provide comprehensive support during the period of Warranty.	3 years
18.		Comprehensive Warranty for the Connectivity Physical Infrastructure Work, Components, and Products.	15 years (passive)
19.		Manufacturer performance guarantee for Structured Network Cabling	25 years (Passive)

Note: Please add any other components/items as needed.

PRICE SCHEDULE

	Item Description	Qty.	Unit Price (LKR)	Total Price (excluding taxes) (LKR)	VAT (LKR)	Other govt. taxes (LKR)	Total (Including taxes) (LKR)
1.	OM4 or above Fiber Optic Cable						
2.	CAT6 UTP Cable						
3.	Fiber Patch Panels						
4.	Fiber Patch Cords						
5.	UTP Patch Panels						
6.	UTP Patch Cords						
7.	Cabling Termination Accessories Fiber						
8.	Cabling Termination Accessories UTP						
9.	Cable Trays						
10.	Network Racks						
11.	Power Distribution Units (PDU)						
12.	Uninterruptible Power Supply (UPS) Systems						
13.	Network Switch						
14.	Transceiver Modules						
15.	Installation and Labour						
16.	Network Switch - 4 th Year Warranty Renewable						
17.	Network Switch - 5 th Year Warranty Renewable						
18.	Network Switch - 6 th Year Warranty Renewable						
19.							
	Grand Total						

Note: The Tenderer shall include any additional equipment that is required to meet the intent of ensuring completeness.

Grand Total (in words)

.....

Note: The price quoted should be based on the prevailing Government Levies.

VAT Registration No (If any) –

Authorized Officer's Name

Designation

Signature

Company Seal

Deal

BID GUARANTEE- (Sample Format)

NAME OF TENDER: TENDER FOR THE PROVISION OF STRUCTURED NETWORK CABLING, NETWORK SWITCHES, RACK, AND UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM FOR THE EMPLOYEES' PROVIDENT FUND DEPARTMENT OF CENTRAL BANK OF SRI LANKA

TO : Superintendent of the Employees' Provident Fund
On behalf of the Central Bank of Sri Lanka,
No: 30, Janadhipathi Mawatha
Colombo 01.

WHEREAS <Name of the Service Provider > of <Address of the Service Provider > here in after referred to as "the Bidder") has bid for ...(Pls. specify the service intended to be taken)..... to the Employees' Provident Fund for and on behalf of the Central Bank of Sri Lanka (hereinafter referred to as "the Client").

AND WHEREAS in terms of the Conditions of Tender (Terms of Reference/Instructions to Bidders), the Bidder is required to furnish to the Client a Bank Guarantee from a licensed commercial bank acceptable to the Client in a sum of LKR <Amount in Rs..... > (Sri Lanka Rupees) as security for the due observance by the Bidder of the Conditions of the Tender.

NOW KNOW YE AND THESE PRESENTS WITNESSETH that we.....Bank, a licensed commercial bank in Sri Lanka whose principal place of business is at (hereinafter referred to as "the Guarantor") do hereby guarantee, undertake, bind and oblige ourselves that in the event of the Bidder:

- Withdrawing the Bid at any time during the period of Bid validity after the opening of Bids; or
- Failing to execute an Agreement as stipulated in the Conditions of the Bid, and / or
- Failing to furnish the Performance Security for the due performance of the contract as required under the Conditions of Tender in the event the Tender is awarded to the Bidder.

At the request of the Bidder, the guarantor shall hereby irrevocably undertake to pay the Client a sum or sums not exceeding the total an amount of Rupees(pl. specify the bid guarantee amount in words and Rs...../=.) upon receipt of its first demand, without cavil or argument and without the Client having to prove or show cause or substantiate its demand for the sums specified therein.

We hereby waive the necessity of the Client demanding the said sum from the Bidder before presenting us with the said demand.

WE FURTHER AGREE that no change or addition to or other modification which may be agreed between the Client and the Bidder shall in any way release us from the liability under this Guarantee and we hereby waive notice of any such change addition or modification.

THIS GUARANTEE shall remain valid and in full effect until 15.08.2024.

IN TESTIMONY WHEREOF the Guarantor has caused these presents to be executed in its name in this day of2024 at.....

Name of the Guarantor:

Signature of the authorized signatory and the seal of the Guarantor:

Address:

PERFORMANCE GUARANTEE- (Sample Format)

NAME OF TENDER: TENDER FOR THE PROVISION OF STRUCTURED NETWORK CABLING, NETWORK SWITCHES, RACK, AND UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM FOR THE EMPLOYEES' PROVIDENT FUND DEPARTMENT OF CENTRAL BANK OF SRI LANKA

TO: Superintendent of the Employees' Provident Fund
On behalf of the Central Bank of Sri Lanka,
No: 30, Janadhipathi Mawatha
Colombo 01.

WHEREASHaving its registered office at (hereinafter called "the service provider") has been awarded a bid to Tender for the Provision of Structured Network Cabling, Network Switches, Rack, and Uninterruptible Power Supply (UPS) System for the Employees' Provident Fund on behalf of the Central Bank of Sri Lanka by Letter of Award dated and has entered into a contract with the said Central Bank of Sri Lanka for such purpose.

AND WHEREAS it is a condition in the said contract that a Bank Guarantee from a Licensed Commercial Bank acceptable to the said Central Bank of Sri Lanka shall be furnished by the said Service Provider to the Central Bank of Sri Lanka as security ensuring the due compliance with his performance obligations in accordance with the contract.

AND WHEREAS we have agreed to furnish such a Guarantee.

NOW THEREFORE we(Name of the bank).....having its Principal place of business is atdo hereby affirm, confirm and undertake that we are responsible to the Central Bank of Sri Lanka under this guarantee, on behalf of the service provider, up to a total amount of Sri Lanka Rupees..... (LKR... ../=) and undertake irrevocably to pay you upon your first written demand, and without cavil or argument, any sum or sums within the limit of Sri Lanka Rupees (LKR...../=) as aforesaid without you having to prove or show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said sum from the service provider before presenting us with the demand, and any other rights as may be available to surety under any law.

We further agree that no change or addition or other modification of the terms of the contract or of the works to be performed there under or of the Contract Documents, which may be made between you and the service provider shall in any way release us from any liability under this Guarantee and we hereby waive notice of such change, addition or modification.

This guarantee is valid for a period up to(...) months from the date of the acceptance of the letter of award by the Service Provider as aforesaid.

Signature of the authorized signatory and seal of the Guarantor:

Name of the Bank:

Address:

Date:

DOCUMENT REQUIREMENT**TENDER FOR THE PROVISION OF STRUCTURED NETWORK CABLING, NETWORK SWITCHES, RACK,
AND UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM FOR THE EMPLOYEES' PROVIDENT FUND
DEPARTMENT OF CENTRAL BANK OF SRI LANKA**

Document Requirement along with the Quotation		(Yes/No)
1.	Duly completed Form of Tender (Document B)	
2.	Documentary evidence for valid Company Registration	
3.	Qualification and Experience Compliance and Reference to Document Proof (Annex I)	
4.	Sales invoices or documentary evidence along with the Experience Report (Annex I)	
5.	Documentary evidence for CIDA Grade EM4 or above Registered certification	
6.	Documentary evidence for ISO 9001:2015 or equivalent QA certification	
7.	Documentary evidence to establish relationship with their principal for quoted products, to establish the tenderer's eligibility to bid	
8.	Compliance to the project objectives and scope (Annex II)	
9.	Compliance to the Minimum Technical Specification (Annex III)	
10.	Bill of Material (BOM) and Detailed BOM (Annex IV)	
11.	Documentary evidence to establish the country of origin of the offered products and equipment.	
12.	Manufacturer's brochures (originals) on the offered equipment model indicating technical specifications. (In English language).	
13.	Price schedule (Annex V)	
14.	Duly completed Bid Guarantee (Annex VI)	
15.	Compliance and Statement relating to Warranty and Support including Technical Support as given in Section-6 of Annex III.	