

CEYLON PETROLEUM STORAGE TERMINALS LIMITED



BIDDING DOCUMENT

**SUPPLY, INSTALLATION AND COMMISSIONING OF WIDE AREA
NETWORK ROUTERS AND PROCUREMENT OF MANAGED
NETWORK SUPPORT SERVICE**

KPR/19/2025

*INSTRUCTIONS TO BIDDERS, CONDITIONS OF CONTRACT &
TECHNICAL SPECIFICATIONS*

THE CHAIRMAN
DEPARTMENT PROCUREMENT COMMITTEE
C/O PROCUREMENT FUNCTION
CEYLON PETROLEUM STORAGE TERMINALS LTD
1ST FLOOR, NEW BUILDING
OIL INSTALLATION
KOLONNAWA, WELLAMPITIYA
SRI LANKA

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INVITATION FOR BIDS (IFB)

CEYLON PETROLEUM STORAGE TERMINALS LTD (CPSTL)

SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE BID NO: KPR/19/2025

The Chairman, Department Procurement Committee (Minor) on behalf of the Ceylon Petroleum Storage Terminals Limited (CPSTL), Kolonnawa, Wellampitiya, Sri Lanka hereby invites sealed bids from Manufacturers or their Authorized Export Agents abroad or Authorized Local Agents in Sri Lanka for the above procurement.

Bidding will be conducted through National Competitive Bidding procedure.

Interested parties may refer the bidding document and obtain necessary information through the CPSTL website: <http://www.cpstl.lk/cpstl/tenders> and the original bidding documents in English language (full set) could be obtained from the undersigned on submission of a written request, during working days between **0900 hrs. and 1400 hrs. up to 28.04.2025**, upon payment of a non-refundable bidding document fee of **Sri Lanka Rupees Twelve Thousand Five Hundred (LKR 12,500.00)** per document. Bidders are requested to inspect the bidding document prior to purchase and once it is purchased, the bidding document fee is not refundable for any reason whatsoever.

Duly filled bidding documents may be sent by registered post or sealed cover **to reach** the Chairman, Department Procurement Committee (Minor), C/o Manager Procurement, Ceylon Petroleum Storage Terminals Limited, Procurement Function, 01st Floor, New Building, Oil Installation, Kolonnawa, Wellampitiya, Sri Lanka or could be deposited in the tender box kept at the above address, on or before **1400 hrs. on 29.04.2025**. Late bids will be rejected. **Bids will be closed at 1400 hrs. on 29.04.2025** and will be opened immediately thereafter at the office of Manager Procurement, in the presence of the authorized representatives of the bidders who chose to attend.

Bids shall be valid up to 29.07.2025 from the bid submission date.

All bids must be accompanied by a bid security of Sri Lanka Rupees Five hundred thousand (LKR 500,000), which shall be valid until 26.08.2025 from the bid submission date.

Clarifications (if any) shall be sought from the Manager Procurement on Tel: +94-11-2572156/ +94-11-2572155, Fax: +94-11-2074299, Email: procure@cpstl.lk

The Chairman
Department Procurement Committee (Minor)
C/o Manager Procurement
Ceylon Petroleum Storage Terminals Limited
Procurement Function, 01st Floor, New Building
Kolonnawa, Wellampitiya,

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1.0 INSTRUCTION TO BIDDERS (ITB)

1.1 INTRODUCTION

Ceylon Petroleum Storage Terminals Limited (CPSTL) is a public enterprise established in 2003 as a common user facility for petroleum marketing companies to provide infrastructure facilities for Storage and Distribution activities in downstream petroleum industry in Sri Lanka.

CPSTL provides MIS services such as SAP ERP system to CPSTL, Ceylon Petroleum Corporation (CPC) and Lanka Indian Oil Corporation (LIOC), and in-house developed applications to CPSTL & CPC.

The Chairman, Department Procurement Committee (DPC), on behalf of the Ceylon Petroleum Storage Terminals Ltd (CPSTL), Kolonnawa, will receive sealed Bids from reputed manufacturers or their authorized local agents for SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE conforming to the Terms & Technical Specifications indicated in Annexures and Terms & Conditions given under the Instructions to Bidders.

CPSTL shall make the payment as per the terms of Mode of Payment, COC clause 2.3 of the Conditions of Contract of this bidding document. Upgrading of the existing CPSTL wide branch routers with suitable models in line with the provided technical specifications. And providing Managed Network Support Services for CPSTL wide network infrastructure for a period of 5 years is under the purview of this procurement. The bidder should also quote for items mentioned in annexure-L where CPSTL may decide to procure to replace faulty equipment or poorly performing network equipment during the contract period of the Managed Network Support Services considering the price schedule in annexure-N. The existing ICT infrastructure components should not be replaced or overhauled without meeting the technical specifications mentioned herein.

Additional services provided by the bidder not covered in this bidding document shall be stated clearly. If no exceptions are stated, the Department Procurement Committee (DPC) would assume that the bidder conforms to the most stringent conditions of the bidding document.

The bidder shall bear all costs associated with the preparation and submission of its bid, and the DPC shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

Bids that do not conform to “Invitation to Bid” will be rejected.

1.2 SCOPE OF WORK (SOW)

The scope of work under this project includes the following.

- a. The bidder must quote for all items including the required licenses to integrate the SD-WAN Branch Gateways with the exiting internal Firewall Cloud based management system of CPSTL.
- b. All proposed equipment should meet the mentioned technical specifications without any deviation. Evidence of meeting the technical specifications should be provided by way of accurate page referencing of the related technical literature.
- c. Complete configuration migration from the existing branch routers should be carried out with all related product licenses and as per the specifications in collaboration with CPSTL IT team should be carried out by the bidder.
- d. All related configuration towards for setting up the SD-WAN headend infrastructure at CPSTL Kolonnawa Datacenter and Disaster Recovery site and CPSTL Branch Network.
- e. Complete turnkey installation for implementing a SD-WAN infrastructure should be carried out including integration with the CPSTL internal Firewall infrastructure to provide a single security fabric. All related hardware, product licenses for the integration should be provided. And complete implementation should be done in close coordination with the CPSTL IT team.
- f. All latest stable hot fixes should be applied on all SD-WAN related new devices before installation and commissioning.
- g. Should provide license, comprehensive maintenance & local 24x7 support service for five (05) years of operation inclusive of manufacturer's warranty for all hardware & software. The bidder shall submit the draft maintenance agreement along with the bid for five years.
- h. Any fault should be rectified within 6 hours being notified along with any required Hardware replacement.
- i. All related licenses should require integration of the existing internal and disaster recovery Firewall clusters for existing Cloud based Security Event Analyzer and internal Firewall management system capacity enhancements.
- j. Preparation of the procedure of User Acceptance Test (UAT) including the main configurations.
- k. Carrying out User Acceptance Test (UAT) jointly by the bidder and the CPSTL IT team.
- l. Preparation of technical & operational documents relevant to the implemented solution.

- m. Provide ongoing updates, upgrades/new version for the software components during the warranty and maintenance period and install updates to the latest stable version announced by the OEM.
- n. The bidder shall indicate prices for all items in ANNEXURE “M” – Prices Schedule Network Equipment Replacement
- o. Providing of 24x7x365 CPSTL wide of Managed Network Support Service for a period of 5 years. Contractor should undertake to replace faulty network equipment (in line with quoted items in Annexure-“L”) within the stipulated Service Level Agreement (SLA) as mentioned Annexure-N. And where possible replacement requirement for faulty network equipment should be brought to the notice of CPSTL, where the replacement would be at the discretion of CPSTL.

1.3 ELIGIBILITY CRITERIA (QUALIFICATION INFORMATION)

The bidder should comply to all qualification mentioned listed under the eligibility criteria for the tender according to the list given below and same should be submit as per the Annexure “B” with the authorized signature,

- a) The bidder should be a registered corporate in Sri Lanka under the companies Act No 7 of 2007
- b) The bidder should have experience in the IT Infrastructure services for a minimum period of 05 years and proof documentation should be produced for validation.
- c) The bidder should be supported by an established OEM support channel for all equipment’s provided under this project and the Manufacturer’s Authorization Form (MAF) for the quoted product should be included in the bid. Failing to do so would result in the submission being treated as non-responsive.
- d) Bidders should not be blacklisted by any government institution during the past 5 years.
- e) At least 02 contracts awarded and successfully completed by the bidder related to Enterprise grade integrated network infrastructure projects with SD-WAN enablement within the last 4 years Where the total project value is more than LKR 20 million.
- f) Experiences in providing at least 02 Managed Network Support Services during the last 4 years having critical network infrastructures
- g) The bidder should have at least LKR 50 million annual averages turn over for last three years
- h) The assigned technical team should consist of at least two product certified engineers from the proposed SD-WAN solution offering manufacturer (details of their CVs should be provided along with including proof documentation related qualification and company)
- i) The bidder should have a valid and current Telecommunication Regulatory Commission (TRC) vendor license (copy of the vendor certificate should be submitted with the bid submission).
- j) A complete project plan should be provided for the installation, commissioning, user acceptance testing and handover considering a project delivery timeline of 06 months.
- k) Complete 24x7 helpdesk and support services escalation procedure should be provided.

1.4 DOCUMENTS & DETAILS TO ACCOMPANY BID

Bidding documents consist of the following.

1. INVITATION FOR BIDS
2. INSTRUCTIONS TO BIDDERS (ITB)
3. CONDITIONS OF CONTRACT (COC)
4. SCHEDULE OF PRICES - ANNEXURE "A"
5. ELIGIBILITY CRITERIA - ANNEXURE "B"
6. TECHNICAL SPECIFICATIONS - ANNEXURE "C"
7. COMPANY PROFILE - ANNEXURE "D"
8. DETAILS OF 02 SIMILAR/MAJOR PROJECTS - ANNEXURE "E"
9. DETAILS OF EXISTING PERIMETER UTM - ANNEXURE "F"
10. FORM OF BID SECURITY - ANNEXURE "G"
11. FORM OF PERFORMANCE SECURITY - ANNEXURE "H"
12. FORM OF BID - ANNEXURE "I"
13. MANUFACTURER'S AUTHORIZATION - ANNEXURE "J"
14. FORM OF AGREEMENT - ANNEXURE "K"
15. NETWORK EQUIPMENT REPLACEMENT - ANNEXURE "L"
16. EQUIPMENT REPLACEMENT PRICE SCHEDULE - ANNEXURE "M"
17. SERVICE LEVEL AGREEMENT FOR MANAGED NETWORK SUPPORT SERVICE - ANNEXURE "N"
18. COMPLIANCE/DEVIATIONS SHEET - ANNEXURE "O"

The bidder is not permitted to do any alterations in the bidding document in any form whatsoever. Any such alterations in the bidding document by the bidder may be liable for disqualification.

1.5 ISSUE OF BIDDING DOCUMENTS

Bidding documents could be obtained on submission of a written request on company letter head, during working days between **0900 hrs. and 1400 hrs. up to 28.04.2025** upon payment of a non-refundable bidding document fee of **Sri Lanka Rupees Twelve thousand and five hundred (LKR 12,500.00)** per document to the Cashier, Ground Floor, New Building, Ceylon Petroleum Storage Terminals Limited, Oil Installation, Kolonnawa, Wellampitiya, Sri Lanka.

1.6 BUSINESS REGISTRATION AND PUBLIC CONTRACT REGISTRATION

Authorized agent in Sri Lanka represents the manufacturer/manufacturer authorized export agent abroad, shall register himself with the Registrar of Companies and shall produce a valid copy of the Certificate of Incorporation issued by the Registrar of Companies of Sri Lanka together with the bid.

Any person who acts as an agent or sub-agent, representative or nominee for or on behalf of a manufacturer/principal supplier, shall register himself and the contract as per Public Contracts Act, No 23 of 1987 for every public contract exceeding Five million Sri Lanka

Rupees (**LKR 5,000,000.00**). The Certificate of Registration (**FORM PCA 03**) issues by the Registrar of Public Contracts of Sri Lanka in term of section 11 of the said Act shall be submitted along with the bid, only if the total value exceeding Five million Sri Lanka Rupees (**LKR 5,000,000.00**).

1.7 DOCUMENTS AND DETAILS TO ACCOMPANY BID

All bids shall contain adequate particulars in respect of the items offered. Bidders must furnish all the required documents/details given below for evaluation purposes and failure to furnish the required documents and details requested under **Section I & II** along with the bid may result in the bid being rejected.

Section I: Preliminary Documents

1. Public Contract Registration (Certificate PCA-03) - as per ITB clause 1.6 (*if applicable*).
2. Signature Authorization Letter - as per ITB clause 1.9.
3. Bid Security – as per ITB clause 1.18.
4. Manufacturer’s Authorization Letter - Annexure “J” - as per ITB clause 1.19.
5. Duly completed & signed Schedule of Prices - Annexure “A” - as per ITB clause 1.20.
6. Duly completed & signed Form of Bid - Annexure “I” as per ITB clause 1.21.
7. The bidder should submit full set of audited financial statement for the last three years.

Section II: Other Documents

8. Cost breakdown table for each item separately as per the format in 3.1.1 in Annexure “A”.
9. Detailed profile of the manufacturer and Country of Manufacture of the product.
10. Detailed profile of the authorized local agent.
11. Completed Compliance/Deviations sheet - Annexure “L”.
12. CVs of the professionals.
13. All other details and documentary requirements as requested under this bid.
14. Details about training
15. Specifications - Annexure “C”
16. Company profile - Annexure “D”
17. Details of 02 similar/ major projects - Annexure “E”

All documentation/correspondence/catalogs/literature shall be furnished in English language.

All providing documents and attachments should include to the table of contents and should provide the reference with page numbers.

1.8 SEALING, MARKING & SUBMISSION OF BID

Bids shall be submitted in duplicates as per the conditions specified in this bidding document. The original & duplicate copy of the bid shall be placed in separate envelopes marked “ORIGINAL” & “DUPLICATE”. In the event of any discrepancy between the original and duplicate, the original shall govern. Both envelopes shall be enclosed in one securely sealed cover, which shall be marked “SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE - KPR/19/2025 – CLOSING DATE: 29.04.2025” on the top left-hand corner & the Bidder’s name & address on the bottom left-hand corner, and addressed to,

The Chairman
Department Procurement Committee (Minor)
C/o Manager Procurement
Procurement Function
01st Floor, New Building
Ceylon Petroleum Storage Terminals Limited
Kolonnawa, Wellampitiya

If the outer envelope is not sealed and marked as required above, CPSTL will assume no responsibility for the bid being misplaced or premature opening.

A local firm acting as authorized agent for more than one manufacturer or authorized export agent abroad, shall get each of his principal’s authority to represents on their behalf and bid on separate sets of bidding documents purchased from CPSTL for such purpose with separate bid securities.

In addition to above requirement, the envelopes shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared late.

Bids submissions through emails are not entertained. However, only the clarifications can be made through email address procure@cpstl.lk.

Each envelope shall contain the hard copy and the soft copy of the bid. The soft copy shall be in the form of CD/DVD.

Alternative offers shall not be considered. The bidders are advised not to quote different options

If any attachment provided with bid, the indication/reference with page number should be mentioned

1.9 SIGNATURE AUTHORIZATION

Bidders shall incorporate a **Signature Authorization Letter** along with their bids, which is authorizing a person to represent the company in submitting the bid, and if successful, to sign the respective agreement/contract with CPSTL. The letter shall be signed by the Proprietor/Partner(s)/Director(s) of the company and the person who signs the bid on behalf of the company and shall be affixed by the common seal of the company. This letter shall be produced on the company letterhead.

Failure to submit the Signature Authorization Letter at the time, or before the closing of the bids, and in accordance with the above said requirements will result in the bid being rejected.

1.10 FORMAT & SIGNING OF BID

Bidders shall prepare an original and a duplicate of the bid specified above, clearly marking as, “**SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE – CLOSING DATE: 29.04.2025**”, original and duplicate as appropriate. In the event of any discrepancy between the original and duplicate, the original shall govern.

The original and the duplicate of the bids shall be typed, or written in indelible ink, and shall be signed by the person/s duly authorized by the bidder. All pages of the bid except for un-amended printed literature shall be initialled by the person signing the bid.

Any inter lineation, erasures or insertion shall be valid only if they are initialled by the person signing the bid. All corrections shall be very clear, and no over-writing shall be accepted.

1.11 AMENDMENTS/ CLARIFICATIONS OF BIDDING DOCUMENT

The Chairman, DPC reserves the right to issue amendments to the bidding document if and when deemed necessary up to seven (07) days prior to the deadline for submission of bids.

A prospective bidder requiring any clarification regarding the provisions or terminology of the bidding document shall notify the CPSTL in writing by hand or post to the mailing address which is indicated in ITB Clause 1.8 or by email to procure@cpstl.lk, not later than ten (10) days prior to the closing date of tender given in ITB clause 1.13. Similarly, if a bidder feels that any important provision is unacceptable, such objection shall be raised at this stage.

The CPSTL will respond in writing by post and/or by email to any such request for clarifications, modifications, objections or complaints that are received not later than fourteen (14) days prior to the closing date of tender prescribed by the DPC. Copies of the CPSTL’s response will be sent by post and/or by email to prospective bidders who have collected

bidding documents, including description of the inquiry but without identifying its source, within seven (07) days prior to the closing of the bid.

Questions and answers will not form part of the bidding document or contract; answers shall not constitute legally binding representation. If arising from a question, it becomes necessary to vary the bidding document, and then an addendum will be issued in accordance with the above procedure.

All correspondence shall be addressed to the mailing address or email address which are indicated above and shall not be personally addressed to any officer. Such correspondence shall not be entertained and shall be considered as a disqualification.

Where a bidder has not sought any clarifications/information such bidder shall be deemed to have accepted the bidding document in full.

1.12 MODIFICATION, SUBSTITUTION & WITHDRAWAL OF BID

Bidders may modify, substitute or withdraw their bids after submission, provided that written notice of the modification, substitution or withdrawal is received by the CPSTL, prior to the deadline prescribed for bid submission.

Bid modifications or substitutions shall be prepared, sealed, marked and dispatched as follows:

The bidder shall provide an original and a duplicate, as specified in the ITB clause 1.10, of any modification or substitution to his bid, clearly identified as such in two envelopes, duly marked “**ORIGINAL**” & “**DUPLICATE**”. The envelopes shall be sealed in an outer envelope, duly marked **BID MODIFICATION** or **BID SUBSTITUTION - “SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE - KPR/19/2025 – CLOSING DATE: 29.04.2025”**.

Bidders wishing to withdraw their bids shall notify the CPSTL in writing prior the deadline prescribed for the submission of bids. The notice of withdrawal shall bear the name of the tender and the words “**BID WITHDRAWAL NOTICE**”.

Bid modifications, substitutions and withdrawal notices shall be sent **to reach** the address, which is indicated in ITB Clause 1.12, not later than the deadline for submission of bids.

A withdrawal notice may be sent by email to procure@cpstl.lk, but must be followed by the original, by post or by hand **to reach** the address, not later than the deadline for submission of bids.

Bid modifications, substitutions or withdrawal notices received after the deadline for submission of bids will be ignored, and the submitted bid will deem to be valid.

1.13 CLOSING OF BIDS

Bids enclosed, sealed, marked & addressed as aforesaid shall be sent by courier or registered post or sealed cover **to reach**,

The Chairman
Department Procurement Committee (Minor),
C/o Manager Procurement
Procurement Function
Ceylon Petroleum Storage Terminals Limited
01st Floor, New Building
Kolonnawa, Wellampitiya
Sri Lanka.

not later than 1400 hrs. on 29.04.2025 or could deposit in the tender box kept at the main entrance of CPSTL.

In case the bidders are unable to submit the original bids as above, they could submit the scanned copy of the duly filled bidding documents in PDF format via email to **tenders@cpstl.lk** to reach on or before 1400 hrs. on **29.04.2025**, subject to following condition

- i. Submission of the bid via email is at the bidder's own discretion.
- ii. If the bidder intends to submit a bank guarantee or bank draft as the bid security (instead of a direct deposit to the CPSTL bank account), the **original bank guarantee / draft** must be sent or hand-delivered to the above address by 1400 hrs. on **29.04.2025**.
- iii. The title and closing date of the tender must be indicated as the subject of the email.
- iv. The size of an email (including attachments) must not exceed 20 MB. If the attachment exceeds 20 MB, the bidder must split the attachments and send them as separate emails (e.g., 01 of 03, 02 of 03, 03 of 03).
- v. Direct links to external sites or shared folders (e.g., Google Drive) are strictly prohibited.
- vi. Do not CC or BCC any other official or personal email IDs of CPSTL staff.
- vii. Emails should be sent well in advance to allow CPSTL sufficient time to print and deliver the bids to the bid opening table on time.
- viii. The original bid document must be securely kept and submitted to the Manager Procurement upon request. However, the original bid document will only be used for filing purposes and not for verification against the e-bid.

1.14 DEADLINE FOR SUBMISSION OF BIDS

The Chairman, DPC must receive bids at the address specified under ITB Clause 1.13 not later than the time and date stipulated. The Chairman, DPC may at his discretion, extend this deadline for submission of bids, by amending the bidding documents, in which case all right and obligations of the CPSTL and the bidders will thereafter be subjected to the deadline as extended.

1.15 LATE BIDS

Any bid received after the deadline for submission of bid will be rejected and returned unopened to the bidder.

1.16 OPENING OF BIDS

Bids will be opened immediately after the closing date and time fixed for receipt of bids at,

The office of Manager Procurement
Ceylon Petroleum Storage Terminals Limited
Procurement Function
01st Floor, New Building
Oil Installation
Kolonnawa, Wellampitiya.

or such other place as arranged if the Manager Procurement's Office is not available.

The Bid Opening Committee (BOC), as appointed by the DPC, will open the bids in the presence of the authorized representatives of the bidders, who choose to attend at the time on the date and at the opening place specified above. Authorized representatives of the bidders attending shall sign a register as proof of their attendance. Name of the bidders, bid prices, discounts, presence or absence of the requisite bid securities, and any other relevant information, which the BOC at its discretion, may consider to be appropriate, will be announced at the opening.

1.17 MINIMUM VALIDITY PERIOD OF BIDS

All bids shall necessarily be valid for acceptance **minimum until 29.07.2025**. Bidders shall, however, clearly indicate the maximum period that their bids would be valid. **A bid valid for a shorter period shall be rejected by the DPC as non-responsive.**

All prices indicated in the schedule of prices; Annexure "A" shall be firm & shall not be subject to any price variation within the period of validity stated above.

In exceptional circumstances, prior to the expiration of the bid validity period, CPSTL may request bidders to extend the period of validity of their bids for a specified additional period.

The request and the bidders' responses shall be made in writing. A bidder may refuse the request. A bidder agreeing to the request will not be required or permitted to otherwise modify the bid but will be required to extend the validity of the bid and the validity of the bid security for the period of the extension, and in compliance with ITB Clause 1.18 in all respects. If a bidder does not agree for an unconditional extension of the validity of his bid, his bid shall be rejected without forfeiting the bid security.

On acceptance of the offer within the period of validity of the bid, the validity period shall be extended by another fourteen (14) days for the purpose of issuing of Purchase Order and other required documentation.

Bids that do not comply with the above requirements will be rejected as non-responsive.

1.18 BID SECURITY

Each bid shall be accompanied by a bid security, undertaking that the offer will be held valid for the specified period, and that the offer will not be withdrawn during that period. Such security shall be,

- i) in the form of a bank draft issued by a recognized commercial bank operating in Sri Lanka, or
- ii) in the form of a bank guarantee issued by a recognized commercial bank operating in Sri Lanka, or
- iii) in the form of a bank guarantee issued by a reputed foreign bank with the bank guarantee confirmed by a recognized commercial bank operating in Sri Lanka

(The bank in Sri Lanka shall be an approved commercial bank with the authority of a License issued by the Monetary Board (Central Bank of Sri Lanka))

and payable to CPSTL on demand, **for a minimum sum of Sri Lanka Rupees Five Hundred thousand (LKR 500,000.00), or**

- iv) in the form of a cash deposit to the CPSTL Cashier **for a minimum sum of Sri Lanka Rupees Five Hundred thousand (LKR 500,000.00).**

The bid security shall be unconditionally en-cashable on demand by CPSTL and shall be valid **minimum until 26.08.2025.**

In case of a bank guarantee, it shall be furnished without a substantial departure to the format given in Annexure “F”.

In case of the authorized agent in Sri Lanka arrange and submits a bank guarantee as the bid security, on behalf of the principal supplier (if the bidder is manufacturer or his authorized export agent abroad), both names of the authorized agent in Sri Lanka & the principal abroad shall appear in the bank guarantee.

Failure to submit the bid security at the time, or before the closing of the bids, and in accordance with the above said requirements, and in the format provided (in case of bank guarantee) will result in the bid being rejected.

In exceptional circumstances, prior to expiry of the period of validity of the bid, CPSTL may request from the bidders to extend the period of validity of their bid securities for a specified additional period as described in ITB clause 1.18. If a bidder does not agree to an unconditional extension of the validity of his bid, his bid shall be rejected without forfeiting the bid security.

Bid securities of the unsuccessful bidders will be returned to them only after the award is made to the successful bidder. The bid security of the successful bidder will be returned only after receipt of the performance security.

1.19 LETTER OF MANUFACTURER’S AUTHORIZATION

Bids from the authorized agents representing manufacturers, will not be considered unless they hold the Letter of Manufacturer's Authorization from the manufacturers, empowering the authorized agent to bid on their behalf, to enter into a valid contract on behalf of them and to fulfil all the terms and conditions of the contract, in the event of the bid being awarded. Format of Manufacturer's Authorization - Annexure "J" is attached.

In the event that the bidder is the manufacturer, the Letter of Manufacturer's Authorization is not required. However, he shall issue a Letter of Authorization to the authorized agent in Sri Lanka.

In the event that the bidder is the manufacturer authorized export agent abroad, he shall furnish the Letter of Manufacturer's Authorization as per the format Annexure "J" from the manufacturer. Also, he shall issue a Letter of Authorization to the authorized agent in Sri Lanka.

In the event that the bidder is the authorized agent in Sri Lanka, he shall furnish the Letter of Manufacturer's Authorization as per the format Annexure "J" from the manufacturer for all appliances. Also, he shall submit a Letter of Authorization from the manufacturer authorized export agent abroad, (if applicable).

In case of an order, the agreement will be signed/ Purchase Order will be placed with the authorized agent in Sri Lanka.

Failure to submit the Manufacturer's Authorization at the time, or before the closing of the bids, and in accordance with the above said requirements will result in the bid being rejected.

Nomination of an agent after the submission of bid will not be valid and the name of the declared principal/beneficiary will not be changed at any time.

The letter of manufacturer authorization for each and every other supporting device such as switches, servers, etc., should be provided along with the bid.

1.20 SCHEDULE OF PRICES

Offered Prices shall be in the form of Schedule of Prices - **Annexure "A"** given in the bidding document and the bidder is required to duly sign and return the same.

(Price break down are required for other item marked (*) in the Schedule of Prices -Annexure "A" shall be submitted separately and shall be provided along with the bid)

Bids not submitted on the prescribed form and in the manner required are liable for rejection.

Five-year total value as per the Annexure "A", will be consider for the financial evaluation.

1.21 DECLARATION (FORM OF BID)

Bidders shall declare that they had read the conditions and that they make the bid in compliance with, and subject to all the conditions thereof, and agree to execute the

contract/perform the services in accordance with the said conditions in the manner therein set out.

Bidders shall submit duly filled & signed **Form of Bid, Annexure “I”** along with the bid.

Failure to submit the duly filled & signed Form of Bid along with the bid at or before the closing time and date of the Tender and in accordance with the above said requirements and in the formats provided, shall result in the bid being rejected.

1.22 PRELIMINARY EXAMINATION OF BIDS

The Technical Evaluation Committee (TEC) on behalf of the DPC, will examine the bids to determine whether they are complete, any computational errors have been made, whether the documents have been properly signed, and the bids are generally in order. The DPC may, at its discretion call clarifications from bidders.

The request for clarification and the response shall be in writing within a short period from the clarifications and no change in the price or substance of the bid shall be sought, offered or permitted.

Bidders shall promptly response to any query raised by CPSTL by Fax/Email on the bid made by them at the evaluation stage of bids. Failure to response for these queries will be subject to rejection of bid.

1.23 CORRECTION OF ERRORS

Bids determined to be substantially responsive will be checked for any arithmetical error and errors will be corrected in the following manner.

- a) Where the discrepancy is between unit price and the line item total, resulting from multiplying the unit price by the quantity, the unit price as quoted shall prevail and the line item total shall be corrected, unless in the opinion of the DPC there is an obvious gross misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern, and the unit price shall be corrected.
- b) Where there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail, and the total shall be corrected.
- c) Where the discrepancy is between words & figures, the amount in words shall prevail, unless the amount expressed in word is related to an arithmetic error, in which case the amount in figures shall prevail subject to a) and b) above.
- d) The amount stated in the bidding document adjusted in accordance with the above procedure with the concurrence of the bidder shall be considered as binding upon the bid. If the bidder does not accept the corrected amount of bid, his bid will be rejected.
- e) If the bidder does not accept the correction of errors, his bid shall be disqualified, and his bid security may be forfeited.

1.24 EVALUATION OF BIDS

- a) All offers received will be examined to determine the eligibility of bidders responded with the eligibility criteria mentioned and substantial responsiveness of bids received.
- b) Price schedules in Annexure-A & M would be considered for evaluation.

- c) A substantially responsive bid is one which conforms to the terms for 05 years cost, conditions and specifications of the bidding document. Incomplete bids will be rejected.
- d) The Bidders shall be allowed to quote only in two Currencies in Sri Lanka Rupees and United States Dollar (USD). For evaluation and comparison of Bids quoted in USD will be converted to LKR considering middle exchange rate published by Central Bank of Sri Lanka on the closing date of Bids.
- e) Only the bids determined to be substantially responsive will be evaluated and compared. An award will be made to the lowest responsive evaluated bid.

1.25 POWER TO ACCEPT OR REJECT BIDS

The DPC will not be bound to make the award to the bidder submitting the lowest bid.

The DPC reserves the right to reject any or all bids, or any part thereof without assessing any reasons.

1.26 AWARDING CRITERIA

Subject to ITB clauses 1.25, CPSTL shall award the contract to the successful bidder, whose bid has been determined to be substantially responsive, lowest evaluated bid, provided that the bidder is determined to be qualified to perform the contract satisfactorily.

1.27 NOTICE OF ACCEPTANCE

Acceptance of the bid will be communicated by fax/e-mail and confirmed in writing by registered post to the successful bidder at the address given by him, soon after the receipt of the DPC decision. Any change of the mailing address of the bidder shall be promptly notified to the Manager Procurement, Procurement Function, 01st Floor, New Building, Ceylon Petroleum Storage Terminals Limited, Oil Installation, Kolonnawa, Wellampitiya, Sri Lanka.

DUPLICATE

CONDITIONS OF CONTRACT (COC)

2.0 CONDITIONS OF CONTRACT (COC)

2.1 WARRANTY & SUPPORT

The Contractor warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

The Contractor further warrants that the Goods shall be free from defects arising from any act or omission of the Contractor or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of destination.

Any unit of goods supplied which fails beyond repair within the warranty period shall be replaced with a new unit free of charge (either an identical or a latest model with same/advanced features & functionality of the faulty unit) by the supplier, and the warranty applicable to that unit. The period of comprehensive warranty has been mentioned in the list of specifications item-wise.

The successful bidder should provide 24x7x365 support for a period of 5 years. And maintain the service level agreement as mentioned in Annexure- N for related to Managed Network Support Services when handling incidents and attending to a corrective maintenance call from CPSTL by remote support and/or onsite support.

Further total solution warranty will commence from the date of acceptance (Date of UAT document signing) by the purchaser.

2.2 CONTRACT AGREEMENT

The successful bidder would be called upon to enter into an agreement with CPSTL after a successful award. A specimen of Contract Agreement as per Annexure “J”

2.3 MODE OF PAYMENT

- All foreign currency (USD) payments would be settled considering USD/LKR middle exchange rate published by Central Bank of Sri Lanka on the date of the invoice.

- 70% of the total contract price of items quoted in USD will be paid upon the delivery of Hardware devices along with the related security subscriptions and software applications.
- The balance 30% of the contract price of items quoted in USD will be paid upon successful commissioning & acceptance of CPSTL, completion of hand over and System Go Live.
- The full contract price for Installation, Configuration and Commissioning quoted in LKR would be paid upon the successful completion of the User Acceptance Test (UAT).
- For 24x7 local technical support services after the complete system commissioning and accepted quoted in LKR a payment milestone method would be adopted. Whereby a payment of 50% of the quote to total LKR value would be paid by annum during 1st to 5th year. Payment would be made for every 6 months only if technical support services or preventive maintenance activities were performed during the period. Hence, for all such activities documentary evidence should be provided together with an invoice.
- For Managed Network Support Services, the payments would be done quarterly for each year, upon submission of status reports for all work carried out and the invoice for payment.

2.4 DELIVERY SCHEDULE

Delivery of the hardware/software & services shall be the responsibility of the contractor.

Supply, installation and commissioning of hardware/software under this Bid should be delivered to Information Systems Function, CPSTL within 06 Months on receiving the Purchase Order:

**Information Systems Function,
Ceylon Petroleum Storage Terminals Limited,
Kolonnawa Installation,
Wellampitiya.**

Tel.: 011-2693124, Fax.:011-2532682

e-Mail: it@cpstl.lk

The following documents shall be submitted by the Contractor on delivery of Goods:

1. Delivery Note(s)
2. Warranty Certificate(s)

3. Original Invoice(s)

2.5 DELAYS IN COMPLETION OF WORK

When the contractor does not deliver the completion of work in due time as per COC clause no 2.4 in the bidding document, the contractor is liable to pay a penalty of 0.5% of the contract value (excluding VAT and excluding forth & fifth year maintenance/subscription) will be charged for every subsequent week up to a maximum of 5% of the contract value (excluding VAT and excluding forth & fifth year maintenance/subscription)

2.6 SUPPLIER'S STANDARD CONDITIONS OF SALE

Supplier's standard conditions of sale usually printed on the quotation/invoice or in a separate format **will not be accepted**. The terms & conditions of this bidding document of CPSTL shall prevail.

2.7 PRE-DISPATCH INSPECTIONS AND CLEARANCES

CPSTL, if deemed fit, will inspect any or the entire device at bidder's manufacturing site before the shipment to verify that the equipment shipped to CPSTL are as per the technical specification specified in the bidding document. Bidders should take the responsibility of obtaining government and customs' clearance for the security appliances if necessary.

2.8 CONTRACT NOT TO BE SUBLET

The Bidder shall not assign or sublet without written authority of the Chairman / Department Procurement Committee, CPSTL, bidder's obligations to supply the items bided and agreed for. If any part of bidder's obligations has been assigned or sublet with written authority, he/she will nevertheless be held responsible for the due performance of the part assigned or sublet.

2.9 PERFORMANCE SECURITY

- a) The successful Bidder, on being notified by the Ceylon Petroleum Storage Terminals Limited of the acceptance of his Bid, shall within fourteen (14) days of such notification, furnish at his own expense a Performance Guarantee through a reputed Commercial Bank Operating in Sri Lanka, in a sum equivalent to 10% of the total contract value of the accepted Bid. The Performance Guarantee shall be in accordance and in the form given in **Annexure "H"**. **The bank in Sri Lanka shall be an approved commercial bank with the authority of a License issued by the Monetary Board (Central Bank of Sri Lanka)**

- b) If the successful Bidder fails to furnish the Performance Guarantee as aforesaid, his name will be placed on the list of defaulting Contractors. Ceylon Petroleum Storage Terminals Limited shall therefore, be entitled in its absolute discretion to make suitable arrangements required for the performance of such Bid, at the risk & expense of the Bidder.
- c) The successful Bidders, in the event of his failure to furnish the Performance Guarantee as required, shall be liable for any losses, costs, expenses & damages which the Ceylon Petroleum Storage Terminals Limited, may sustain in consequence of such failure, and the Lead to place as defaulted service provider.
- d) The Purchase order will be issued only after the receipt of the Performance Guarantee. The Performance Guarantee shall be in favor of the Ceylon Petroleum Storage Terminals Limited and shall be valid for a period of one year from the date of Purchase Order.

2.10 GOVERNING LAW & JURISDICTION

This contract and the rights and the liabilities of the parties hereunder shall be governed by and interpreted according to the laws of the Democratic Socialist Republic of Sri Lanka, and any disputes arising there from shall be subject to the exclusive jurisdiction of the High Court of the western province exercising civil (commercial) jurisdiction at Colombo or the District Court of Colombo in the said Democratic Socialist Republic of Sri Lanka.

2.11 DEFAULTED BIDDERS & DEFAULT BY SUCCESSFUL BIDDER

- a. Bidder becomes incapable or unable to supply the goods offered in his Bid, the Ceylon Petroleum Storage Terminals Limited shall have the right to obtain such goods from other sources without being liable in any manner whatsoever to the successful Bidder.
- b. If the successful Bidder, defaults in the supply or otherwise commits a breach or any of the provisions in the Contract with the Ceylon Petroleum Storage Terminals Limited for the SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE according to the specification, bidder shall be liable to pay to the Ceylon Petroleum Storage Terminals Limited, all losses, damages and expenses incurred by the Ceylon Petroleum Storage Terminals Limited in consequence of such default or breach.
- c. If the successful bidder fails to deliver the solution as specified within the delivery period, the performance security will be forfeited.

2.12 FURTHER INFORMATION

Any further information can be obtained on application to the undersigned on any working day, between 0800 Hrs. and 1630 Hrs. on Tel.011-2572156 or 011-2572155.

The Chairman

Department Procurement Committee (Minor)

C/o. Procurement Function

Ceylon Petroleum Storage Terminals Ltd

1st floor, New Building

Oil Installation

Kolonnawa, Wellampitiya

ANNEXURES

3.0 ANNEXURE - A - SCHEDULE OF PRICES

3.1 SCHEDULE OF PRICES INCLUDING 5 YEAR 24X7 LOCAL TECHNICAL SUPPORT SERVICES

A foreign (USD) Currency Component shall be quoted in the provided Table 1. Then both total USD & LKR components shall carry forward to the Form of Bid in Annexure I.

USD Components – Table 1

Item No.	Description	Qty	Unit Cost (USD)	Total Cost (USD)
1	SD-WAN Branch Gateway with Security Subscriptions (Type-1), with 5-year Network Security Subscription, OEM Support and Hardware Warranty	14		
2	SD-WAN Branch Gateway without Security Subscriptions (Type-2), with 5-years OEM Support and Hardware Warranty	14		
3	SD-WAN Branch Gateway with Security Subscriptions (Type-3), with 5-year Network Security Subscription, OEM Support and Hardware Warranty	1		
4	SD-WAN Branch Gateway without Security Subscriptions (Type-4), with 5-year OEM Support and Hardware Warranty	1		
5	New device licenses for existing Cloud based internal Firewall management platform of CPSTL with a 5-year support plan.	10		
6	Existing internal firewall Security Event Analyzer storage upgrades to 3 GB per day log processing with a 5-year support plan	1		
7	Existing internal firewall Event Analyzer license upgrades to 300 MB per day log processing with 5 year support plan to accommodate SD-WAN Branch Gateways (Type-1)	70		
8	Existing internal firewall Event Analyzer license upgrades to 800 MB per day log	5		

	processing with 5 year support plan to accommodate SD-WAN Branch Gateways (Type-3)			
9	Ethernet Surge Protectors	60		
10	Other cost (If applicable) with cost breakdown with proper justifications			
11	Sub Total excluding all Taxes in USD			
12	Social Security Contribution Levy (SSCL)			
13	VAT			
14	Grand Total with all Taxes in USD			

LKR Components – Table 2

Item No.	Installation, Configuration and Commissioning with Network Managed Support Service	Total Cost (LKR)
1	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Anuradhapura Branch with 24x7 local technical support for a period of 5 years	
2	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Badulla Branch with 24x7 local technical support for a period of 5 years	
3	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Haputale Branch with 24x7 local technical support for a period of 5 years	
4	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Kankasanthurai Branch with 24x7 local technical support for a period of 5 years	
5	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Kotagala Branch with 24x7 local technical support for a period of 5 years	
6	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Matara Branch with 24x7 local technical support for a period of 5 years	

7	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Oil Facility Office at Colombo Port with 24x7 local technical support for a period of 5 years	
8	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Sarasavi Uyana Branch with 24x7 local technical support for a period of 5 years	
9	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Batticaloa Branch with 24x7 local technical support for a period of 5 years	
10	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Magalle, Galle Branch with 24x7 local technical support for a period of 5 years	
11	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Peradeniya Branch with 24x7 local technical support for a period of 5 years	
12	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Kurunegala Branch with 24x7 local technical support for a period of 5 years	
13	Type-1 & Type-2 SD-WAN Branch Gateway Installation, configuration at CPSTL Muthurajawela with 24x7 local technical support for a period of 5 years	
14	Type-1 & Type-2 SD-WAN Branch Gateway Installation and configuration at Lanka Indian Oil Corporation Head Office in Colombo 01 (WTC) with 24x7 local technical support for a period of 5 years	
15	Type-3 & Type-4 SD-WAN Branch Gateway Installation and configuration at CPC Head Office in Colombo 09 with 24x7 local technical support for a period of 5 years	
16	Configuration of the Existing Cloud based internal Firewall management system to onboard new SD-WAN Branch Gateways (Type-1 & 3)	
17	Configuration of the Existing Cloud based internal Firewall Security Event Analyzer to onboard new SD-WAN Branch Gateways (Type-1 & 3)	
18	Configuration of the existing internal Firewall Cluster as required for the SD-WAN headend at CPSTL Kolonnawa Data Center.	

19	Configuration of the exiting Firewall Cluster as required for the SD-WAN head at CPSTL Disaster Recovery site	
20	Final Integration, Testing and Commissioning of the completed SD-WAN solution	
21	24x7x365 Managed Network Support Service for a period of 5 years The Managed Network Support Service will cover entire CPSTL wide Network segments and Security infrastructure including that of Kolonnawa Facility, Storage Terminals, Depots and Area officers.	
22	Other Costs* (If applicable), cost breakdown should be provided	
23	Sub Total excluding all Taxes in LKR	
24	Social Security Contribution Levy (SSCL)	
25	VAT	
26	Grand Total with all Taxes in LKR	

VAT registration no:

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Signature of Bidder

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Official Stamp

3.2 ANNEXURE “B” - ELIGIBILITY CRITERIA (Qualification Information)

(To be completed and submitted by the bidder, with the Bid)

General Criteria		
A	Registered corporate in Sri Lanka under the companies Act No 7 of 2007	(Yes/No) Registration number <i>(Attach copies of relevant pages from the registration book)</i>
B	The bidder should have experience in the IT Infrastructure services for a minimum period of 5 years. proof should be attached.	(Yes/No) <i>(Documentary evidence should be provided)</i>
C	Should be supported by an established OEM support channel for all equipment’s provided under this project. <i>(Manufacturer’s Authorization Form (MAF) for the quoted product should be included with the bid.)</i>	(Yes/No) <i>(If yes, manufacturer authorization should be provided)</i>
D	Bidder should not have been blacklisted by any government institution during the past 5 years.	(Yes/No) <i>(If yes, provide details)</i>
E	At least two contracts awarded and successfully completed by the bidder related to Enterprise grade integrated network infrastructure projects with SD-WAN enablement within the last 4 years Where the total project value is more than LKR 20 million.	(Yes/No) <i>(If Yes, a copy of the purchase order and customer referral with contact details should be attached for the reference)</i>
F	Experiences in providing at least 2 Managed Network Support Services during the last 4 years having critical infrastructure platforms.	(Yes/No) <i>(If yes, a copy of the purchase order and customer referral with contact details should be attached for the reference)</i>

G	The bidder should have at least LKR 50 million annual averages turn over for last three years	Are you exceeding the mentioned limit? (Yes/No) If not what is the turnover LKR Documentary evidence should be provided
H	Qualification and experience of key staff –The Bidder must have product certified (related to the offered SD-WAN Branch Gateway brand) technical personnel directly attached to the bidder’s payroll to implement the solution for each component and their CVs, proof documents should be included with the bid: <ul style="list-style-type: none"> The assigned technical team should consist of at least two personnel holding valid certification from the SD-WAN solution offering manufacturer . 	(Yes/No) If Yes Documentary evidence should be provided
I	The bidder should have valid and current Telecommunication Regulatory Commission (TRC) vendor license (copy of the vendor license should be submitted with the bid submission).	(Yes/No) If Yes documentary evidence should be provided
J	A complete project plan should be provided for the installation, commissioning, user acceptance testing and handover considering a project delivery timeline of 6 months.	(Yes/No) If Yes documentary evidence should be provided
K	Complete 24x7 helpdesk and support services escalation procedure should be provided.	(Yes/No)

*Failing to submit documentary proof would result in the bid submission are being treated as non-responsive

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Authorized Signature of Bidder

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Official Stamp

3.3 ANNEXURE “C” – TECHNICAL SPECIFICATIONS

3.3.1 SD-WAN Solution Specifications

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	The SD-WAN solution should be from a globally renowned single Original Equipment Manufacturer (OEM)		
2	Original Equipment Manufacturer (OEM) of the proposed SD-WAN products should be listed in the “Leaders” quadrant of the Gartner’s report for SD-WAN consecutively during the latest 3 years		
3	Original Equipment Manufacturer (OEM) of the proposed SD-WAN products should have similar installation in the country		
4	Bidder should not propose to replace or overhaul the existing Security or Data communication infrastructure platforms at CPSTL for implementing the SD-WAN platform.		
5	The proposed SD-WAN devices should be capable to be completely integrated with the existing cloud-based internal Firewall management platform at CPSTL. Confirmation should be included with the submission.		
6	The proposed SD-WAN devices should be capable to be completely integrated with the existing cloud-based Security Event Analyzer system at CPSTL. Confirmation should be included with the submission		
7	The proposed SD-WAN Branch Gateway devices should support native integration with the existing internal Firewall cluster at CPSTL		

	datacenter for a complete security fabric formation.		
8	The proposed SD-WAN Branch Gateway devices should support native integration with the existing Firewall cluster at CPSTL Disaster Recovery site for complete security fabric formation.		
9	The solution should not enforce any bandwidth-based licensing model which restricts the use of the full bandwidth capacity provided by the WAN links.		
10	Proposed SD-WAN devices shall have an enterprise license for SD-WAN, firewall & VPN (IPsec & SSL). User/IP/Host/Bandwidth based license are not accepted		
11	The solution should support user-based SD-WAN steering policies (the user has to be detected based on the Username, and not a fixed IP, and steered via a particular link). The solution should integrate with Active Directory to obtain usernames for SD-WAN steering.		
12	The SD-WAN Multi-path intelligence using rules should be defined by the following parameters: - Source IP address - Source MAC address - Users and User groups - Destination IP address, Route Tag - application groups and Application Category - path selection using particular link quality criteria or SLAs defined		
13	Should support Active SLA probes for multiple protocols like Ping, TCP/UDP echo, HTTP, DNS, TCP connect and FTP		

14	The SD-WAN solution should support Static routing, Internal Gateway (iBGP, OSPF v2/v3, RIP v2) and External Gateways		
15	The proposed SD-WAN gateway devices should support MP-BGP EVPN with VXLAN (RFC 7348).		
16	The SD-WAN solution should not have full control plane dependency with centralized components, which ensures that the SDWAN Branch Gateway will continue to operate efficiently and indefinitely (with the last configuration) even if disconnected from the Centralized Management / Orchestrator / Controller for prolonged period.		
17	Proposed SD-WAN branch gateways should have the capability to be reconfigured by login to their GUI directly, during exceptional circumstances.		
18	The SD-WAN rules/policies should support dynamic address objects		
19	Proposed SD-WAN branch gateways should have the ability in retrieving External Block list for Domain Names, Web Filtering URLs, IP Address and Malware Hashes as an Object/Profile settings.		
20	The existing cloud based multifactor authentication system should be integrated for admin access across all new SD-WAN Branch Gateways (Type-1, 2, 3 and 4).		

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Signature of Bidder

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Official Stamp

3.3.2 Technical Specifications for SD-WAN Branch Gateway with Security Subscriptions (Type-1)

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive hardware and software warranty and security subscription services should be provided		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacturer authorization should be provided		
8	Features and Operational Functionalities		
8.1	Should be a purpose-built hardware platform with SD-WAN features efficiently handling all inbound and outbound network traffic and secure connectivity		
8.2	The SD-WAN Branch Gateway (Type-1) should consist of a hardware optimized dedicated security processors for traffic processing		
8.3	SD-WAN Branch Gateway (Type-1) Firewall throughput Should be at least 5Gbps		
8.4	SD-WAN Branch Gateway (Type-1) Integrated intrusion prevention throughput should be at least 1000Mbps		
8.5	SD-WAN Branch Gateway (Type-1) Next generation firewall throughput of should be at least 950Mbps.		

8.6	SD-WAN Branch Gateway (Type-1) Firewall threat protection throughput should be at least 650Mbps		
8.7	SD-WAN Branch Gateway (Type-1) Firewall SSL inspection throughput Should be at least 600Mbps or more		
8.8	SD-WAN Branch Gateway (Type-1) Firewall latency should be less than 5 μ s		
8.9	Should consist of a virus outbreak protection and Sandbox cloud service		
8.10	SD-WAN Branch Gateway (Type-1) Firewall should support at least 30,000 new TCP sessions/second		
8.11	SD-WAN Branch Gateway (Type-1) Firewall Should support at least 600,000 TCP concurrent sessions		
8.12	SD-WAN Branch Gateway (Type-1) Should support at least 1,000 Firewall policies		
8.13	Should support the implementation of a Micro Segmentation based network security framework with compatible downstream network switches		
8.14	Must possess the capability to transmit a minimum of 300MB of log data per day to the existing Cloud Analyzer Platform.		
9	Network Interfaces		
9.1	Should consist of at least 06 Nos of 10/100/1000Mbps built in RJ-45 interfaces		
10	Next Generation Firewall Features		
10.1	Should consist of features to provide both real-time and historical visibility into network performance to identify anomalies		

10.2	Should be integrated with next generation firewall feature set and real time threat protection sub systems		
10.3	Should have a complete framework of Unified Threat management security feature subscription including Web Filtering, Anti-Virus and Intrusion Prevention System)		
10.4	Should have built-in Signature and Anomaly based IPS engine on the same unit		
10.5	Should be able to mitigate denial of service attacks		
10.6	Should be able to mitigate buffer overflow attacks		
10.7	Firewall features should be able to identify and control applications		
10.8	Should be able to control popular IM/P2P, social media, malware, applications regardless of port/protocol		
10.9	Should be able to control access to cloud-based applications and should be able to route the specific apps via different WAN links based on the jitter and latency on the link		
10.10	Should have embedded gateway antivirus support		
10.11	Should have anti-spyware and worm prevention		
10.12	Gateway antivirus shall support real-time detection of viruses and malicious code for HTTP, HTTPS, FTP, SMTP,POP3 and IMAP protocols		
10.13	SD-WAN Branch Gateway (Type-1) shall have configurable policy options to select what traffic to scan for viruses		

10.14	SD-WAN Branch Gateway (Type-1) shall have options to prevent user downloads based on file extension as well as file type		
10.15	SD-WAN Branch Gateway (Type-1) shall have the ability of antivirus scanning for IPv6 traffic		
10.16	SD-WAN Branch Gateway (Type-1) shall facilitate embedded web content filtering feature		
10.17	SD-WAN Branch Gateway (Type-1) Web content filtering shall work independently without the need to integrate with an external proxy server		
10.18	SD-WAN Branch Gateway (Type-1) Web content filtering shall have the facility to block URLs based on categories		
10.19	SD-WAN Branch Gateway (Type-1) Web content filtering shall support HTTP and HTTPS traffic		
10.20	SD-WAN Branch Gateway (Type-1) shall be able to block URLs hosting spywares/adware		
10.21	SD-WAN Branch Gateway (Type-1) shall be able to block different categories/sites based on User Authentication		
10.22	SD-WAN Branch Gateway (Type-1) shall have options to customize the “Blocked Webpage Message” information displayed to end users		
10.23	SD-WAN Branch Gateway (Type-1) shall be able to detect DNS-based spoofing attacks		
10.24	SD-WAN Branch Gateway (Type-1) shall support category-based DNS filtering		
10.25	SD-WAN Branch Gateway (Type-1) shall include DNS filtering feature to block DNS requests to known botnet C&C domains		

11	Management Interfaces		
11.1	Should consist of a dedicated console port		
11.2	Should consist of at least 1 USB port		
11.3	Should be fully integrated with the internal Firewall cluster at the CPSTL Kolonnawa Data center which will be configured as a SD-WAN Headend.		
11.4	Should be integrated with the existing Firewall cluster which will be configured as a SD-WAN Headend at the CPSTL Disaster Recovery site (to facilitate disaster recovery operations).		
11.5	Should be compatible to be fully integrated with the existing cloud-based Firewall Management Platform and all related licenses should be included		
11.6	Should be compatible to be fully integrated with the existing cloud-based Security Analyzer system and all related licenses should be included		
11.7	Should be compatible to be fully integrated with the existing cloud based Multifactor Authentication system		
12	Operational Parameters		
12.1	Should consist of a power supply unit operating on 220v-240V/ 50Hz.		
12.2	Operating Temperature	0-40°C	
12.4	Humidity	10-90%	
12.5	The SD-WAN Branch Gateway (Type-1) should be 19" rack mountable and all rack mounting accessories should be included		
13	Operational Requirement		
13.1	Configuration should be carried out to route internet traffic via CPSTL Datacenter should		

	the planned local breakout internet connectivity is disrupted.		
14	Original Equipment Manufacturer Support Services		
14.1	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.		
15	Deployment		
15.1	Should be deployed for production use at the earmarked location.		
16	Faulty Equipment Replacement and Issue Rectification		
16.1	Any fault should be rectified within 6 hours being notified along with any required Hardware replacement.		

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3.3.3 Technical Specifications for SD-WAN Branch Gateway Without Security Subscriptions (Type-2)

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive hardware and software warranty and security subscription services should be provided		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacturer authorization should be provided		
8	Features and Operational Functionalities		
8.1	Should be on a purpose-built hardware platform with SD-WAN features efficiently handling all inbound and outbound network traffic and secure connectivity		

8.2	SD-WAN Branch Gateway (Type-2) should consist of a hardware optimized dedicated security processors for traffic processing		
8.3	SD-WAN Branch Gateway (Type-2) Firewall throughput Should be at least 5Gbps		
8.4	SD-WAN Branch Gateway (Type-2) Integrated intrusion prevention throughput should be at least 1000Mbps		
8.5	SD-WAN Branch Gateway (Type-2) Next generation firewall throughput of should be at least 950Mbps.		
8.6	SD-WAN Branch Gateway (Type-2) Firewall threat protection throughput should be at least 650Mbps		
8.7	SD-WAN Branch Gateway (Type-2) Firewall SSL inspection throughput Should be at least 600Mbps or more		
8.8	SD-WAN Branch Gateway (Type-2) Firewall latency should be less than 5 μ s		
8.9	SD-WAN gateway Firewall should support at least 30,000 new TCP sessions/second		
8.10	SD-WAN gateway Firewall Should support at least 600,000 TCP concurrent sessions		
8.11	SD-WAN Branch Gateway Should support at least 1,000 Firewall policies		
8.12	Should support the implementation of a Micro Segmentation based network security framework with compatible downstream network switches		
9	Network Interfaces		
9.1	Should consist of at least 06 Nos of 10/100/1000Mbps built in RJ-45 interfaces		
10	Management Interfaces		

10.1	Should consist of a dedicated console port			
10.2	Should consist of at least 1 USB port			
10.3	Should be fully integrated with the internal Firewall cluster at the CPSTL Kolonnawa Data center which will be configured as a SD-WAN Headend.			
10.4	Should be integrated with the existing Firewall cluster which will be configured as a SD-WAN Headend at the CPSTL Disaster Recovery site (to facilitate disaster recovery operations).			
10.5	Should be compatible to be fully integrated with the existing cloud-based Firewall Management Platform and all related licenses should be included			
10.6	Should be compatible to be fully integrated with the existing cloud-based Security Analyzer system and all related licenses should be included.			
10.7	Should be compatible to be fully integrated with the existing cloud based Multifactor Authentication system			
11	Operational Parameters			
11.1	Should consist of a power supply unit operating on 220v-240V/ 50Hz.			
11.2	Operating Temperature	0–40°C		
11.3	Humidity	10–90%		
11.4	The SD-WAN Branch Gateway (Type-2) should be 19” rack mountable and all rack mounting accessories should be included			
12	Original Equipment Manufacturer Support Services			
12.1	Should have 24x7 access to the manufacturer's customer service support center via phone and			

	email for requesting troubleshooting assistance.		
13	Operational Requirement		
13.1	Configuration should be carried out to route internet traffic via CPSTL Datacenter when deployed. And only limited number of predefined URLs directly.		
14	Original Equipment Manufacturer Support Services		
14.1	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.		
15	Deployment		
15.1	Should be deployed as cold standby unit to be used during a failure of the Type-2 SD-WAN Branch Gateway at the earmarked location.		
16	Faulty Equipment Replacement and Issue Rectification		
16.1	Any fault should be rectified within 6 hours being notified along with any required Hardware replacement.		

3.3.4 Technical Specifications for SD-WAN Branch Gateway with Security Subscriptions, Type-3

	Minimum Technical Specifications	Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		

2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive hardware and software warranty and security subscription services should be provided		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacturer authorization should be provided		
8	Features and Operational Functionalities		
8.1	Should be a purpose-built hardware platform with SD-WAN features efficiently handling all inbound and outbound network traffic and secure connectivity		
8.2	SD-WAN Branch Gateway (Type-3) should consist of a hardware optimized dedicated security processors for traffic processing		
8.3	SD-WAN Branch Gateway (Type-3) Firewall throughput Should be at least 10Gbps		
8.4	SD-WAN Branch Gateway (Type-3) Integrated intrusion prevention throughput should be at least 2.5Gbps		
8.5	SD-WAN Branch Gateway (Type-3) Next generation firewall throughput of should be at least 1.5Gbps		
8.6	SD-WAN Branch Gateway (Type-3) Firewall threat protection throughput should be at least 1Gbps		
8.7	SD-WAN Branch Gateway (Type-3) Firewall SSL inspection throughput should be at least 1Gbps or more		
8.8	SD-WAN Branch Gateway (Type-3) Firewall latency should be less than 5 μ s		

8.9	SD-WAN Branch Gateway (Type-3) should consist of a virus outbreak protection and Sandbox cloud service		
8.10	SD-WAN Branch Gateway (Type-3) Firewall should support at least 50,000 new TCP sessions/second		
8.11	SD-WAN Branch Gateway (Type-3) Firewall should support at least 800,000 TCP concurrent sessions		
8.12	SD-WAN Branch Gateway (Type-3) Firewall should support at least 1,000 policies		
8.13	Should support the implementation of Micro Segmentation based network security framework with compatible downstream network switches		
8.14	Must possess the capability to transmit a minimum of 800 MB of log data per day to the existing Cloud Analyzer Platform.		
9	Network Interfaces		
9.1	Should consist of at least 10Nos of 10/100/1000Mbps built in RJ-45 interfaces		
9.2	Should consist of at least 2Nos of 10/100/1000Mbps SFP ports		
9.3	Should consist of at least 2Nos of SFP+ ports		
10	Next Generation Firewall Features		
10.1	Should consist of features to provide both real-time and historical visibility into network performance to identify anomalies		
10.2	Proposed SD-WAN Branch Gateway (Type-3) shall have built-in Anti-Virus feature		
10.3	Proposed SD-WAN Branch Gateway (Type-3) shall have built-in Signature and Anomaly based IPS engine on the same unit		

10.4	Proposed SD-WAN Branch Gateway (Type-3) shall be able to mitigate denial of service attacks		
10.5	Proposed SD-WAN Branch Gateway (Type-3) shall be able to mitigate buffer overflow attacks		
10.7	SD-WAN Branch Gateway shall identify and control applications		
10.8	SD-WAN Branch Gateway (Type-3) shall control popular IM/P2P, social media, malware, applications regardless of port/protocol		
10.9	SD-WAN Branch Gateway (Type-3) shall be able to control access to cloud-based applications and should be able to route the specific apps via different WAN links based on the jitter and latency on the link		
10.10	SD-WAN Branch Gateway (Type-3) shall facilitate embedded gateway antivirus support		
10.11	SD-WAN Branch Gateway (Type-3) shall include anti-spyware and worm prevention		
10.12	SD-WAN Branch Gateway (Type-3) antivirus shall support real-time detection of viruses and malicious code for HTTP, HTTPS, FTP, SMTP, POP3 and IMAP protocols		
10.13	SD-WAN Branch Gateway (Type-3) shall have configurable policy options to select what traffic to scan for viruses		
10.14	SD-WAN Branch Gateway (Type-3) shall have options to prevent user downloads based on file extension as well as file type		
10.15	SD-WAN Branch Gateway (Type-3) shall have the ability of antivirus scanning for IPv6 traffic		
10.16	SD-WAN Branch Gateway (Type-3) shall facilitate embedded web content filtering feature		
10.17	SD-WAN Branch Gateway (Type-3) Web content filtering shall work independently		

	without the need to integrate with an external proxy server		
10.18	SD-WAN Branch Gateway (Type-3) Web content filtering shall have the facility to block URLs based on categories		
10.19	SD-WAN Branch Gateway (Type-3) Web content filtering shall support HTTP and HTTPS traffic		
10.20	SD-WAN Branch Gateway (Type-3) shall be able to block URLs hosting spywares/adware etc.		
10.21	SD-WAN Branch Gateway (Type-3) shall be able to block different categories/sites based on User Authentication		
10.22	SD-WAN Branch Gateway (Type-3) shall have options to customize the “Blocked Webpage Message” information displayed to end users		
10.23	SD-WAN Branch Gateway (Type-3) shall be able to detect DNS-based spoofing attacks		
10.24	Proposed SD-WAN Branch Gateway (Type-3) shall support category-based DNS filtering		
11	Management Interfaces		
11.1	Should consist of a dedicated console port		
11.2	Should consist of at least 1 USB port		
11.3	Should be fully integrated with the internal Firewall cluster at the CPSTL Kolonnawa Data center which will be configured as a SD-WAN Headend.		
11.4	Should be integrated with the existing Firewall cluster which will be configured as a SD-WAN Headend at the CPSTL Disaster Recovery site (to facilitate disaster recovery operations).		

11.5	Should be compatible to be fully integrated with the existing cloud-based firewall management platform and all related licenses should be included			
11.6	Should be compatible to be fully integrated with the existing cloud-based security analyzer system and all related licenses should be included			
11.7	Should be compatible to be fully integrated with the existing cloud based multifactor authentication system			
11.8	Proposed SD-WAN Branch Gateway (Type-3) shall be able to control access to cloud-based applications and should be able to route the specific apps via different WAN links based on the jitter and latency on the link			
12	Operational Parameters			
12.1	Should consist of a redundant power supply unit operating on 220v-240V/ 50Hz.			
12.2	Operating Temperature	0–40°C		
12.3	Humidity	10–90%		
12.4	The SD-WAN Branch Gateway (Type-3) should be 19” rack mountable and all rack mounting accessories should be included			
13	Operational Requirements			
13.1	Configuration should be carried out to route internet traffic via CPSTL Datacenter should the planned local breakout internet connectivity is disrupted.			
14	Original Equipment Manufacturer Support Services			
14.1	Should have 24x7 access to the manufacturer's customer service support center via phone and			

	email for requesting troubleshooting assistance.		
15	Deployment		
15.1	Should be deployed for production use at the earmarked location.		
16	Faulty Equipment Replacement and Issue Rectification		
	Any fault should be rectified within 6 hours being notified along with any required Hardware replacement.		

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3.3.5 Technical Specifications for SD-WAN Branch Gateway Without Security Subscriptions (Type-4)

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive hardware and software warranty and security subscription services should be provided		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacturer authorization should be provided		
8	Features and Operational Functionalities		
8.1	Should be on a purpose-built hardware platform with SD-WAN features efficiently handling all inbound and outbound network traffic and secure connectivity		
8.2	The SD-WAN Branch Gateway (Type-4) should consist of a hardware optimized dedicated security processors for traffic processing		
8.3	SD-WAN Branch Gateway (Type-4) Firewall throughput should be at least 10Gbps		
8.4	SD-WAN Branch Gateway (Type-4) Firewall latency should be less than 5 μ s		
8.5	SD-WAN Branch Gateway (Type-4) Firewall should support at least 50,000 new TCP sessions/second		

8.6	SD-WAN Branch Gateway (Type-4) Firewall should support at least 800,000 TCP concurrent sessions		
8.7	SD-WAN Branch Gateway (Type-4) Firewall should support at least 1,000 policies		
8.8	Should support the implementation of Micro Segmentation based network security framework with compatible downstream network switches		
9	Network Interfaces		
9.1	Should consist of at least 10Nos of 10/100/1000Mbps built in RJ-45 interfaces		
9.2	Should consist of at least 2Nos of 10/100/1000Mbps SFP ports		
9.3	Should consist of at least 2Nos of SFP+ ports		
10	Management Interfaces		
10.1	Should consist of a dedicated console port		
10.2	Should consist of at least 1 USB port		
10.3	Should be fully integrated with the internal Firewall cluster at the CPSTL Kolonnawa Data center which will be configured as a SD-WAN Headend.		
10.4	Should be integrated with the existing Firewall cluster which will be configured as a SD-WAN Headend at the CPSTL Disaster Recovery site (to facilitate disaster recovery operations).		
10.5	Should be compatible to be fully integrated with the existing cloud-based firewall management platform and all related licenses should be included		
10.6	Should be compatible to be fully integrated with the existing cloud based security analyzer system and all related licenses should be included		
10.7	Should be compatible to be fully integrated with the existing cloud based multifactor authentication system		

10.8	Proposed SD-WAN Branch Gateway (Type-4) shall be able to control access to cloud-based applications and should be able to route the specific apps via different WAN links based on the jitter and latency on the link		
11	Operational Parameters		
11.1	Should consist of a redundant power supply unit operating on 220v-240V/ 50Hz.		
11.2	Operating Temperature	0–40°C	
11.3	Humidity	10–90%	
11.4	The SD-WAN Branch Gateway (Type-3) should be 19” rack mountable and all rack mounting accessories should be included		
12	Operational Requirements		
12.1	Configuration should be carried out to route internet traffic via CPSTL Datacenter when deployed. And only limited number of predefined URLs directly.		
13	Original Equipment Manufacturer Support Services		
13.1	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.		
14	Deployment		
14.1	Should be deployed as cold standby unit to be used during a failure of the Type-3 SD-WAN Branch Gateway at the earmarked location.		
15	Faulty Equipment Replacement and Issue Rectification		
15.1	Any fault should be rectified within 6 hours being notified along with any required Hardware replacement.		

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3.3.6 Technical Specifications for Enhancements of the Cloud based Security Event Analyzer System and Firewall Management Platform.

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	<p>All devices should be enrolled with the existing cloud based internal Firewall management platform of CPSTL and 10 nos of new licenses and subscription for a period of 5 years should be provided.</p> <p>*Exact part numbers / items codes related to licenses or support plan should be provided.</p>		
2	<p>The cloud-based storage of the existing Security Event Analyzer system should be upgraded to 10GB per day log processing, using 5GB per day log processing license add-on to the existing Security Event Analyzer system with 5 year support plan.</p> <p>*Exact part numbers / items codes related to licenses or cloud storage upgrade should be provided.</p>		
3	<p>The existing Security Event Analyzer license should be increased by 60 new licenses with a 5 year support plan to accommodate 14 nos of new Type-1 SD-WAN Branch Gateways.</p> <p>*Exact part numbers / items codes related to licenses or support plan should be provided.</p>		
4	<p>The existing Security Event Analyzer license should be increased by 5 new licenses with a 5 year support plan to accommodate 1 nos of new Type-2 SD-WAN Branch Gateway.</p> <p>*Exact part numbers / items codes related to licenses or support plan should be provided.</p>		

3.3.7 Technical Specifications Ethernet Surge Protectors

Minimum Technical Specifications		Bidder Response (Yes/No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive hardware and software warranty and services should be provided		
6	Manufacturer Should ISO 9001 accredited		
7	Manufacturer authorization should be provided		
8	Product Features		
8.1	Nominal voltage	48V	
8.2	Maximum continuous voltage	57V	
8.3	Nominal line current	1A	
8.4	Total nominal line discharge current	10KA	
8.5	Voltage protection for POE enabled line	=<600V	
8.6	Transmission frequency	At least 500MHZ	
8.7	Data transmission throughput	1000Mbps	
8.8	Insertion lost (at 250MHZ)	=<2dB	
8.9	Capacitance (in line mode)	=< 165pF	
8.10	Operating temperature	Up to +80 ⁰ C	
8.11	Input / Output	RJ-45 / RJ-45	

8.12	Should support DIN rail mounting		
8.13	Should consist of a common earth rail		
9	Standard and Compliance		
9.1	Should meet IEC 61643-21 compliance		
10	Installation Consideration		
10.1	All external network service provider connectivity should be protected via a surge protector and appropriately grounded using the building earth.		
10.2	Should installed and grounded to the electrical earth of the facility at both ends when connecting with an external service provider equipment,		

3.3.8 Scope of Work for Managed Network Support Service

Scope of Work		Bidder Response (Yes / No)	Details
1	Scope		
1.1	Complete 24x7x365 remote network support and carrying out preventive maintenance across entire CPSTL Network and Security Infrastructure for a period of 5 years		
1.2	Network Monitoring	<ul style="list-style-type: none"> ● Proactive monitoring ● Performance and uptime monitoring ● Security Log and Event monitoring. 	
2	Providing Proactive and Preventative Maintenance		
2.1	Network device CPU utilization monitoring.		
2.2	Network device Memory utilization monitoring		
2.3	Faulty equipment replacement in line with the Service Level Agreement in Annexure-N		
3	Firmware and Patch Updates		
3.1	Performing firmware, and any relevant patching with approvals from relevant CPSTL stakeholders		
4	Warranty, Support, and Maintenance		
4.1	For all physical equipment, licenses, applications, and other applicable items the tracking warranty, support, and maintenance contracts		
4.2	Notify CPSTL stakeholders of expiring network hardware and support contracts		
4.3	Engage with vendors and OEMs for contract renewals as required		

4.4	Manage support cases and contacts with third party vendors as required		
4.5	Opening, managing, and completing support cases in the event of warranty or support cases		
5	Network Hardware Support		
5.1	Lifecycle management of Network devices		
5.2	Maintaining Network wiring closets and related infrastructure including UPS systems.		
5.3	Periodic audits of equipment		
5.4	Installation and decommissioning of Network equipment		
5.5	Twice a year preventive maintenance activity should be carried out across all locations, including all outdoor and indoor network infrastructure facilities.		
6	Remote and Onsite Support Services		
6.1	Extending remote and Onsite support services to all CPSTL locations including site visits as required.		
6.2	Support cases escalations with OEMs as required		
6.3	Coordinating with vendors and OEMs for fault isolation and rectification.		
7	Network Infrastructure Administration Support		
7.1	Managing of SD-WAN Gateways , Switches, Firewalls, Wireless Access Points, and any other networking equipment across all islands wide CPSTL facilities.		
7.2	Assigning, allocating, and auditing network access ports		
7.3	Assigning and reassigning VLANs as per instructions from CPSTL		
7.4	Administering QoS policies as needed		

7.5	Firmware, and network switch operating system patching and maintenance		
7.6	Maintain, audit, and extend the given IP addressing schema and routing infrastructure as required for CPSTL operations.		
7.7	Maintain and updating CPSTL wide network infrastructure diagrams, IP addressing schemas while maintaining accuracy and consistency during add and remove operations.		
8	Equipment Lifecycle Management		
8.1	In advance notifications of Network equipment and other connected platforms reaching OEM defined End of Life (EOL)/End of Support (EOS) status		
8.2	Providing expertise in the identification and purchase of additional or replacement network equipment.		
8.3	Maintaining and tracking CPLSTL wide accurate network inventory for all active, spare, and retired equipment.		
8.4	Maintaining audit logs for equipment deployment, retirement, and disposal		
9	Managed Network Security Support Services		
9.1	Conducting of CPSTL wide network infrastructure risk assessments to identify control or Security gaps. This must be done quarterly basis each year.		
9.2	Firewall rule management and optimization		
9.3	Firewall and Application Security log monitoring		
10	Network Security Monitoring Services		
10.1	Analyzing threat intelligence data and provide correlation between real-time events.		
10.2	Optimizing alerting and escalation procedures, and a security of incident management.		

10.3	Security incident and event reporting		
11	Security Device Configuration Management		
11.1	Review device and equipment configurations and address any deficiencies.		
11.2	Establishing baselines for configurations of devices based on technical control specifications and industrial best practices.		
11.3	Monitoring bulletins, advisories, and patches and take appropriate action.		
12	Security Vulnerability and Risk Assessment		
12.1	Should carry out quarterly Network Security Vulnerability and Risk Assessment Services.		
12.2	Facilitating independent vulnerability and penetration testing of the data center infrastructure and ensuring its continuity and mitigating risk factors.		
12.3	Immediate notification of network centric vulnerabilities to CPSTL stakeholders.		
12.4	Plan for network vulnerability remediations and gain approvals for implementation.		
12.5	Weekly reporting of network asset vulnerability and weekly status reports		
13	Security Incident Management		
13.1	Providing Security Incident Management Services.		
13.2	Managing incident priority level classification, descriptions and managing and communicating incidents based on priority level.		
13.3	Monitoring of logs and activity to detect malicious or abnormal behavior and network intrusions.		
13.4	Planning for mitigation of damage, and escalation and communication based on incident classification.		

13.5	Management of security incidents until closure.		
13.6	Aggregation and reporting of all security breaches to CPSTL stakeholders.		
14	Change Management		
14.1	Participate in the Network Change Management procedures		
14.2	Submit change requests through the appropriate methods to CPSTL stakeholders		
14.3	Perform changes inside the approved timeframes		
14.4	Follow the CPSTL procedures and policies for Change Management		
14.5	Assist the CPSTL in moving towards a more comprehensive Change Management procedure based on established concepts.		
14.6	Suggest or provide policies and procedures that fit the needs of CPSTL datacenter that cover a wide variety of infrastructure changes such as network, firewall rule server configuration, implementation methodology changes.		
14.7	Participate in the discussion and implementation of new network service management policies and procedures with the approvals from CPSTL stakeholders.		
15	Equipment Repair and Replacement		
15.1	Replacement requirement for faulty equipment should be brought to the notice of CPSTL, where the replacement would be at the discretion of CPSTL		
15.2	If deemed necessary by CPSTL backup network equipment should be provided until replacement is provided.		
15.3	If requested quotations for network equipment replacement, repair and warranty reinstatement should be provided.		

3.4 ANNEXURE “D” - COMPANY PROFILE

01. Name of bidder :
02. Address :
03. Telephone no.(s) :
04. Date of Registration of the Company:
05. Year of Commencement of Business:
06. Dealer status : Manufacture /Branch Office / Sole Agent /Authorized Dealer / Retailer/Channel Partner/Wholesaler / OTHER (*Please specify*)
07. Name, Designation and Contact Details of Authorized person Contact Person:
08. Financial Status of the Bidder

PERIOD	TURNOVER	PROFIT AFTER TAX
2024 – 2023		
2023 – 2022		
2022 – 2021		

09. VAT Registration No:
10. Brief description of after sales service facilities available with the Bidder:
12. Details of the contact person in relevant to this bid.

- 12.1 Name: :
- 12.2 Designation :
- 12.3 Mobile Phone :
- 12.4 Telephone :
- 12.5 Fax :
- 12.6 E – mail :

I hereby declare that the above information is true & correct to the best of my knowledge and belief.

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Signature of Bidder

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3.5 ANNEXURE “E”

3.5.1 DETAILS OF TWO PROJECTS CONSISTING OF INTEGRATED NETWORK INFRASTRUCTURE SOLUTIONS WITH SD-WAN ENABLEMENT DURING LAST 4 YEARS

- a) Details of two (2) contracts awarded and successfully completed by the bidder related to Enterprise grade integrated network infrastructure projects with SD-WAN enablement within the last 4 years (as per the eligibility criteria in ITB).
 Documentary evidence including copies of purchase orders, project completion reference and customer contact details to be submitted

No	DETAILS	CUSTOMER 01	CUSTOMER 02
1	Customer / Institute Name		
2	Address		
3	Purchase Order Date		
4	Products used		
5	Solution description/ equipment used and other relevant details (capacity of equipment's, quantity, value of order etc.)		
6	Contact Details		
	6.1 Contact Person Name		
	6.2 Phone		
	6.3 Email		

3.5.2 DETAILS OF TWO (2) MANAGED NETWORK SUPPORT SERVICE CONTRACTS DURING THE LAST 4 YEARS

- a) Details of 02 (two) contracts awarded to the bidder related at least 2 Managed Network Support Service contracts during the last 4 years, at organization having critical networks infrastructure platforms. (as per the eligibility criteria in ITB) Documentary evidence including copies of purchase orders, project completion reference and customer contact details to be submitted

No	DETAILS	CUSTOMER 01	CUSTOMER 02
1	Customer / Institute Name		
2	Address		
3	Purchase Order Date		
4	Details of the Managed Network Support Service offering		
5	Contact Details		
	5.1 Contact Person Name		
	5.2 Phone		
	5.3 Email		

I hereby declare that the above information is true & correct to the best of my knowledge and belief.

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Signature of Bidder

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3.6 ANNEXURE “F”

DETAILS OF EXISTING FIREWALLS AND MANAGEMENT SYSTEMS

SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE

BID REF KPR/19/2025

No	Description	Model	No of devices
1	CPSTL Kolonnawa Data center Internal Firewall cluster	FortiGate 600F Firewalls	2
2	CPSTL Disaster Recovery site Firewall Cluster	FortiGate 200F Firewalls	2
4	Cloud based Security Event Analyzer system	Forti Analyzer with cloud subscription	1
5	Cloud based Firewall management platform	Forti Manager with cloud Subscription	1
6	Cloud based Multi factor authentication system	Forti Authenticator	1

3.7 ANNEXURE “G” - FORM OF BID SECURITY

SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE (KPR/19/2025).

BOND NUMBER:

DATE:

SUM GUARANTEED :.....

BENEFICIARY : CEYLON PETROLEUM STORAGE TERMINALS LIMITED

Dear Sir,

By this Bond we.....
(hereinafter called “the Bidder”) and we
.....(name of Bank) whose registered
office is at (hereinafter called “the
Surety”) are held and firmly bound into (hereinafter called “the
Authority”) in the sum of for the payment of which
sum the Bidder and the Surety bind themselves their successors and assigns jointly and severally by
these present.

Whereas the Authority has invited the Bidder and other persons to complete Bids in similar terms for
the supply of and works
associated (hereinafter called “the Bid”) in accordance with such invitation, the Bond shall provide
security to the Authority that the Bidder will honor certain obligations to be undertaken by him in the
Bid in accordance with the following conditions.

Now the Conditions of this Bond are:

- (a) that it shall remain in full force and effect until the earliest of
 - (i) **26.08.2025** or any prolongation of such date above notified to the Authority by the Bidder and the Surety in writing:
 - (ii) In the event of the Bid by the Authority, the date upon which the Bid provides a performance security to the Authority in accordance with the terms of the contract thereby made between them, or
 - (iii) In the event of acceptance of the Authority of a Bid for the work from a third party the date upon which such third party provides the relevant performance security.

- (b) Subject to this Bond being in full force and effect, the Surety shall pay the full amount specified in this Bond upon receipt of first written demand from the Authority stating that
 - (i) The Bidder has withdrawn his Bid during the Bid period, or
 - (ii) The Bidder has failed to provide Performance Security to the Authority in accordance with the terms of the contract between them upon acceptance of the Bid.

No alteration in the terms of the Bidder, nor any forbearance or forgiveness in or in respect of any matter or thing concerning the Bid on the part of the Authority, nor any objection from the Bidder shall in any way release the Surety from any liability under this Bond.

The benefit of this Bond shall not be assignable by the Authority and upon its ceasing to be in full force and effect the Authority shall return the same to the Bidder.

This Bond shall be governed by the laws of Sri Lanka.

I executed as a Date this () day of () 2025()

For and on behalf of the Bidder.....for and on behalf of the
Surety.....

Signed by..... Signed by.....

In the capacity of In the capacity of

And by..... And by.....

In the capacity of..... In the capacity of

Seal (where applicable)

Seal (where applicable)

3.8 ANNEXURE “H” - FORM OF PERFORMANCE SECURITY

SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE (KPR/19/2025).

BOND NUMBER:

DATE :

SUM GUARANTEED:

BENEFICIARY : CEYLON PETROLEUM STORAGE TERMINALS LIMITED

Dear Sir,

Whereas.....
.... (name and address of contractor) †hereinafter called “the contractor” has undertaken, in pursuance of contract no. dated.....to executes..... (Name of contract) hereinafter called “the contract”

And whereas it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized Bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract.

And whereas we have agreed to give Contractor such a Bank Guarantee.

Now therefore we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of(amount of Guarantee).....(amount in words), such sum being payable in the type and proportions of currencies in which the Contract price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of(Amount of Guarantee) as aforesaid without your needing to prove or to show ground or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the contractor before presenting us with the demand.

We further agree that no change or addition to or other medication of terms of the contract or of the works to be performed there under or of any of the contract document which may be made between

you and the Contractor shall in any way release us from any liability under this Guarantee, and we hereby waive notice or any such change, addition or modification.

This security shall be valid for 06 months from the date of Purchase Order for the **SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE.**

Signature and Seal of the
Guarantor:

Name of the Bank:

Address of the Bank:

Date:

Witness

Name

Signature

***Note : To ensure service continuation a separate performance security would be established for a period of 5 years for the Managed Network Support Service.**

3.9 ANNEXURE “I” - FORM OF BID

SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE (KPR/19/2025)

The Chairman,
CEYLON PETROLEUM STORAGE TERMINALS LIMITED,
Kolonnawa Installation,
Kolonnawa,

From:
.....

Dear Sir,

SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE KPR/19/2025

- B-1 Having familiarized ourselves with the formal request for Instruction to Bidders and Conditions of Contract of the tender for the **SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE** – Tender Ref No: KPR/19/2025 referred to therein, I/we offer to complete the whole of said contract/ services in conformity with the said document
- B-2 Unless & until a formal agreement is engrossed & executed, this bids together with your written acceptance thereof shall constitute a binding contract between us.
- B-3 I/We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- B-4 The bid I/we am/are offering is complete and fulfills the technical requirements discussed in the bidding document.
- B-5 I/We agree to abide by this bid until **29.07.2025** Tender conditions and prices quoted shall remain binding upon us and may be accepted at any time before the expiration of the period.
- B-6 I/We undertake to conform to all the terms & conditions in the said tender, technical specifications & the schedule within the time specified.
- B-7 I/We declare that I/we commit to obtain a performance security in accordance with COC clause 2.11 & have perused the format of performance bond (in case of a bank guarantee) contained in Annexure “E” and confirm our compliance with the said performance security in the event of award of bid.
- B-8 I/We affirm that the said items will be delivered within months from the date of receipt of the official purchase order.
- B-9 If our bid is accepted, we commit to accept the COC clause 2.3, Mode of payment

B-10 I/We am/are fully aware that the acceptance or rejection of any bid will be at the sole discretion of the Department Procurement Committee, Ceylon Petroleum Storage Terminals Limited.

B-11 I/We offer the total price of **as per Table 1**

[insert total USD price for 5 years in figures]

.....[insert total USD price in words]

And **as per Table 2** [insert total LKR price for 5 years in figures]

[insert total LKR price in words] for the **SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE TO** Ceylon Petroleum Storage Terminals Limited as detailed out in this bidding document and details of the total price is as given in the Schedule of Prices - Annexure "A" as per 3.1. "SCHEDULE OF PRICES INCLUDING 5 YEAR 24x7x365 LOCAL TECHNICAL SUPPORT SERVICES".

Dated this day of2024.

Name:

Signature

in the capacity of.....

duly authorized to sign bids for and on behalf of

Address :

.....

Company Seal

Witnesses:

1. Signature: 2. Signature:

Name: Name:

.....

Address: Address:

.....

ANNEXURE “J” - FORMAT OF MANUFACTURER’S AUTHORIZATION LETTER

SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE (KPR/19/2025)

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]

Date:

Bidding No.:

To: Chairman
Ceylon Petroleum Storage Terminals Limited.

WHEREAS

We[insert complete name of Manufacturer],who are official manufacturers of[insert type of goods manufactured], having factories at.....

.....[insert full address of Manufacturer’s factories],do hereby authorize

..... [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following Hardware/software, manufactured by us [Insert name and or brief description of the Hardware/software], and to subsequently negotiate and sign the Contract.

We hereby confirm the hardware/software offered are in good condition & conforming to the specifications as mentioned in **Annexure ‘C’**.

.....
Signature of authorized representative of the Manufacturer

Company Address:

.....
.....
.....

Company Stamp

Title:

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Date:

DUPLICATE

3.10 ANNEXURE “K” - FORM OF AGREEMENT

SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE

FORM OF AGREEMENT

CONTRACT AGREEMENT BETWEEN CEYLON PETROLEUM STORAGE TERMINALS LIMITED (CPSTL) AND *[INSERT COMPLETE NAME OF THE SUPPLIER]*
.....
.....

This contract agreement is made and entered into this ... day of 2025 between the Ceylon Petroleum Storage Terminals Limited incorporated under the provisions of the conversion of public corporation or Government owned business undertaking into public companies Act No.23 of 1987 and Companies Act No.07 of 2007, having its registered office at Oil Installation, Kolonnawa, Wellampitiya, Sri Lanka (hereinafter called and referred to as the “CPSTL” which terms of expression as herein used shall where this context so requires and admits mean & include the CPSTL & its successors & assigns) as one part and *[insert complete name of the supplier]*, having its registered office at *[insert address of the supplier]* and their authorized agent, *[insert complete name and address of the authorized agent]* (hereinafter called the “Supplier” which terms of expression as herein used shall where this context so requires and admits mean & include the Supplier & its successors & assigns) as the other part.

WHEREAS the CPSTL invited bids for certain hardware/software and ancillary services, viz., “**SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE**” – Reference Bidding no: **KPR/19/2025** (here in after called and referred to as “the Contract”) and has accepted a bid by the Supplier for the supply of such Contract in the sum of *[insert total price in words and figures]* + *[insert SL Rs price in words and figures]* (herein after called and referred to as “the Contract Price”), and the remedying of any defects therein.

The CPSTL & the Supplier agree as follows.

1. In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract and Contractor’s Scope of Work hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as an integral part of this contract agreement.
 - Letter of acceptance dated *[insert the date of the letter of acceptance]*
 - The bid dated *[insert the date of the bid]*

- The technical specifications of the bid
 - The terms & conditions of the bid
 - The completed schedules of the bid
 - The supplier's proposals and original Price Schedule
3. In consideration of the payments to be made by the CPSTL to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the CPSTL to execute and complete the Contract and remedy any defects therein, fit for purpose in conformity in all respects according to the provisions of the Contract.
 4. The CPSTL hereby covenants to pay the Supplier in consideration of the provision of the Contract and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
 5. All or any dispute between the parties hereto arising under or in connection with this agreement shall be governed by the laws of the Democratic Socialist Republic of Sri Lanka.
 6. Any notice or other communication received permitted to be given pursuant to this agreement shall be sent by registered mail or by fax address in the case of CPSTL, to the Manager Procurement, Ceylon Petroleum Storage Terminals Limited, Kolonnawa, Wellampitiya and in the case of Supplier, to the *[insert complete address of the supplier]* and/or to the *[insert complete address of the authorized agent]*.

In witness whereof the parties hereto have caused this agreement to be executed in accordance with the laws of Democratic Socialist Republic of Sri Lanka on the day, month and year aforementioned.

For and on behalf of the Supplier

For and on behalf of CPSTL

.....

.....

Authorized Signature of the Supplier

Authorized Signature of CPSTL

(COMMON SEAL)

(COMMON SEAL)

In the presences of witness:

1. Name & NIC No :
- Signature :
- Address :
2. Name & NIC No :
- Signature :
- Address :

3.11 ANNEXURE “L” – Technical Specifications for Network Equipment Replacement

3.12.1 Technical Specifications for 8 Port Network Switch with PoE

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive warranty and support services should be provided.		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Switching Features		
8.1	Should be purpose built for converged network Environments		
9	Network Interfaces		
9.1	Should consist of at least 08 Nos of 1 Gbps supporting RJ-45 ports		
9.2	Should consist of at least 2 nos of built-in SFP transceiver interfaces to support 1Gbps fiber backbone connectivity		
10	Power Over Ethernet (PoE) Features		
10.1	All RJ-45 ports should support Power Over Ethernet IEEE 802.3af and IEEE 802.3at		
10.2	POE Power budget should be at least 125Watts		
11	Switch Architecture and Performance		
11.1	Switching capacity should be at least 10 Gbps or more (full duplex)		
11.2	The Switch throughput should be at least 10 Mpps or higher		
11.3	Should consist of at least 32MB system flash memory or higher		
11.4	Should consist of a dedicated packet handling buffer of at least 500KB.		
11.5	The network latency should be less than 5μs		
12	Switch Management		
12.1	The switch should consist of a secure web based Graphical User Interface (GUI) for management		

12.2	Should be integrated with the existing Cloud Based Internal Firewall Cloud Management system of CPSTL either natively or by using an industrial standards integration method (all such details should be provided)		
12.3	All licenses for integration with existing Cloud Based internal Firewall Management system of CPSTL should be provided		
12.4	Should support Sflow for traffic analysis		
12.5	Should consist of a dedicated console port		
12.6	Should consist of a network port for out of band management		
12.7	Should be 19” network rack mountable		
13	Layer-2 Switching Features		
13.1	Should support at least 200 IEEE 802.1q VLANs and should have full layer-2 manageable features.		
13.2	Should support industry standard STP protocol with at least 10 STP instances		
13.3	Should support link aggregation with at least 4 ports		
13.4	The Switch should support a minimum 200 media access control address table		
14	Network Security Policy Framework		
14.1	Micro segmentation-based network security policy implementation should be supported with an upstream network security device. (details should be provided)		
14.2	Should have storm control to limit broadcast, unknown unicast and unknown multicast traffic floods, by setting thresholds		
14.3	Should support DHCP Snooping enablement		
14.4	Should support local access control lists up to at least 100 entries		
14.5	Should support IEEE 802.1X port-level Network Access Control		
14.6	Should support Media Access Control based access control		
14.7	Should support SPAN and RSPAN for network packet capturing		
15	Multicasting		

15.1	Should support IGMP snooping for multicast network traffic			
16	Power	Should consist of a power supply system operating at 220v-240V/50Hz		
17	Operational Reliability			
17.1	System hardware reliability and including failure rate should be at least 10 years or more			
18	Industrial compliance			
18.3	Should have the CE marking/endorsement			
19	Operational Parameters			
19.1	Operating temperature	0°C to 45°C		
19.2	Operating relative humidity	10% to 90%		
20	Support Services			
20.1	Original equipment manufacturer should maintain all required spare parts in an independent in country parts depot or distributor warehouse. (proof documents should be attached along with the bid)			
20.2	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.			

3.12.2 Technical Specifications for 24 Port POE Network Switch with 4 nos of 10Gbps SFP+ Ports

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive hardware and software warranty and services should be provided.		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Switching Features		
8.1	Should be purpose built for converged network Environments		
9	Network Interfaces		
9.1	Should consist of at least 24 Nos of 1 Gbps supporting RJ-45 ports		
9.2	Should consist of at least 4 nos of built-in SFP+ (10Gbps) transceiver interfaces to support 1Gbps fiber backbone connectivity		
10	Power Over Ethernet (PoE) Features		
10.1	All RJ-45 ports should support Power Over Ethernet IEEE 802.3af and IEEE 802.3at		
10.2	POE Power budget should be at least 350Watts		
11	Switch Architecture and Performance		
11.1	Switching capacity should be at least 120 Gbps or more (full duplex)		
11.2	The Switch throughput should be at least 170 Mpps or higher		
11.4	Should consist of at least 64 MB system flash memory or higher		
11.5	The network latency should be less than 2 μ s		
12	Switch Management		
12.1	The switch should consist of a secure web based Graphical User Interface (GUI) for management		

12.2	Should be integrated with the existing Cloud Based internal Firewall Management system of CPSTL either natively or by using an industrial standards integration method (all such details should be provided)		
12.3	All licenses for integration with existing Cloud Based internal Firewall Management system of CPSTL should be provided		
12.4	Should support Sflow for traffic analysis		
12.5	Should consist of a dedicated console port		
12.6	Should consist of a network port for out of band management		
12.7	Should be 19” network rack mountable		
13	Layer-2 Switching Features		
13.1	Should support at least 2000 IEEE 802.1q VLANs and should have full layer-2 manageable features.		
13.2	Should support industry standard STP protocol with at least 10 STP instances		
13.3	Should support link aggregation with at least 4 ports		
13.4	The Switch should support a minimum 8,000 media access control address table		
13.5	Should support IEEE 802.1w		
13.6	Should support IEEE 802.1s		
14	Network Security Policy Framework		
14.1	Micro segmentation-based network security policy implementation should be supported with an upstream network security device. (details should be provided)		
14.2	Should have storm control to limit broadcast, unknown unicast and unknown multicast traffic floods, by setting thresholds		
14.3	Should support DHCP Snooping enablement		
14.4	Should support IEEE 802.1X port-level Network Access Control		
14.5	Should support local access control lists up to at least 100 entries		
14.6	Should support Media Access Control based access control		

14.7	Should support SPAN and RSPAN for network packet capturing			
15	Multicasting			
15.1	Should support IGMP snooping for multicast network traffic			
16	Power	Should consist of a power supply system operating at 220v-240V/ 50Hz		
17	Operational Reliability			
17.1	System hardware reliability and including failure rate should be at least 10 years or more			
18	Industrial compliance			
18.1	Should meet FCC compliance			
19	Operational Parameters			
19.1	Operating temperature	0°C to 45°C		
19.2	Operating relative humidity	10% to 90%		
20	Support Services			
20.1	Original equipment manufacturer should maintain all required spare parts in an independent in country parts depot or distributor warehouse. (proof documents should be attached along with the bid)			
20.2	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.			

3.12.3 Technical Specifications for 24 Port POE Network Switch with 4 nos of 1Gbps SFP Ports

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive warranty and support services should be provided.		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Switching Features		
8.1	Should be purpose built for converged network environments		
9	Network Interfaces		
9.1	Should consist of at least 24 Nos of 1 Gbps supporting RJ-45 ports		
9.2	Should consist of at least 4 nos of built-in SFP interfaces to support 1Gbps fiber backbone connectivity		
10	Power Over Ethernet (PoE) Features		
10.1	All RJ-45 ports should support Power Over Ethernet IEEE 802.3af and IEEE 802.3at		
10.2	POE Power budget should be at least 350Watts		
11	Switch Architecture and Performance		
11.1	Switching capacity should be at least 24 Gbps or more (full duplex)		
11.2	The Switch throughput should be at least 20 Mpps or higher		
11.3	Should consist of at least 32MB system flash memory or higher		
11.4	Should consist of a dedicated packet handling buffer of at least 500KB.		
11.5	The network latency should be less than 5 μ s		
12	Switch Management		
12.1	The switch should consist of a secure web based Graphical User Interface (GUI) for management		

12.2	Should be integrated with existing Cloud Based internal Firewall Management system of CPSTL either natively or by using an industrial standards integration method (all such details should be provided).		
12.3	All licenses for integration with existing Cloud Based internal Firewall Management system of CPSTL should be provided		
12.4	Should support Sflow for traffic analysis		
12.5	Should consist of a dedicated console port		
12.6	Should consist of a network port for out of band management		
12.7	Should be 19” network rack mountable		
13	Layer-2 Switching Features		
13.1	Should support at least 200 IEEE 802.1q VLANs and should have full layer-2 manageable features.		
13.2	Should support industry standard STP protocol with at least 10 STP instances		
13.3	Should support link aggregation with at least 4 ports		
13.4	The Switch should support a minimum 8,000 media access control address table		
13.5	Should support IEEE 802.1w		
13.6	Should support IEEE 802.1s		
14	Network Security Policy Framework		
14.1	Micro segmentation-based network security policy implementation should be supported with an upstream network security device. (details should be provided)		
14.2	Should have storm control to limit broadcast, unknown unicast and unknown multicast traffic floods, by setting thresholds		
14.3	Should support DHCP Snooping enablement		
14.4	Should support local access control lists up to at least 100 entries		
14.5	Should support IEEE 802.1X port-level Network Access Control		
14.6	Should support Media Access Control based access control		

14.7	Should support SPAN and RSPAN for network packet capturing			
15	Multicasting			
15.1	Should support IGMP snooping for multicast network traffic			
16	Power	Should consist of a power supply system operating at 220v-240V/ 50Hz		
17	Operational Reliability			
17.1	System hardware reliability and including failure rate should be at least 10 years or more			
18	Industrial compliance			
18.1	Should meet FCC compliance			
18.2	Should be UL validated			
18.3	Should have the CE marking/endorsement			
19	Operational Parameters			
19.1	Operating temperature	0°C to 45°C		
19.2	Operating relative humidity	10% to 90%		
20	Support Services			
20.1	Original equipment manufacturer should maintain all required spare parts in an independent in country parts depot or distributor warehouse. (proof documents should be attached along with the bid)			
20.2	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.			

3.12.4 Technical Specifications for 48 Port POE Network Switch with 4 nos of 10 Gbps SFP+ Ports

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive warranty and support services should be provided.		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Switching Features		
8.1	Should be purpose built for converged network environments		
9	Network Interfaces		
9.1	Should consist of at least 48 Nos of 1 Gbps supporting RJ-45 ports		
9.2	Should consist of at least 4 nos of built-in SFP+ (10Gbps) transceiver interfaces to support 10Gbps fiber backbone connectivity		
10	Power Over Ethernet (PoE) Features		
10.1	All RJ-45 ports should support Power Over Ethernet IEEE 802.3af and IEEE 802.3at		
10.2	POE Power budget should be at least 700Watts		
11	Switch Architecture and Performance		
11.1	Switching capacity should be at least 100Gbps or more (full duplex)		
11.2	The Switch throughput should be at least 200Mpps or higher		
11.4	Should consist of at least 256MB system flash memory or higher		
11.5	The network latency should be less than 2μs		
12	Switch Management		
12.1	The switch should consist of a secure web based Graphical User Interface (GUI) for management		
12.2	Should be integrated with existing Cloud Based internal Firewall Management system of CPSTL either natively or by using an industrial		

	standards integration method (all such details should be provided).		
12.3	All licenses for integration with existing Cloud Based internal Firewall Management system of CPSTL should be provided		
12.4	Should support Sflow for traffic analysis		
12.5	Should consist of a dedicated console port		
12.6	Should consist of a network port for out of band management		
12.7	Should be 19” network rack mountable		
13	Layer-2 Switching Features		
13.1	Should support at least 2000 IEEE 802.1q VLANs and should have full layer-2 manageable features.		
13.2	Should support industry standard STP protocol with at least 10 STP instances		
13.3	Should support link aggregation with at least 4 ports		
13.4	The Switch should support a minimum 8,000 media access control address table		
13.5	Should support IEEE 802.1w		
13.6	Should support IEEE 802.1s		
14	Network Security Policy Framework		
14.1	Micro segmentation-based network security policy implementation should be supported with an upstream network security device. (details should be provided)		
14.2	Should have storm control to limit broadcast, unknown unicast and unknown multicast traffic floods, by setting thresholds		
14.3	Should support DHCP Snooping enablement		
14.4	Should support IEEE 802.1X port-level Network Access Control		
14.5	Should support local access control lists up to at least 100 entries		
14.6	Should support Media Access Control based access control		
14.7	Should support SPAN and RSPAN for network packet capturing		
15	Multicasting		

15.1	Should support IGMP snooping for multicast network traffic			
16	Power	Should consist of a power supply system operating at 220v-240V/50Hz		
17	Operational Reliability			
17.1	System hardware reliability and including failure rate should be at least 10 years or more			
18	Industrial compliance			
18.1	Should meet FCC compliance			
19	Operational Parameters			
19.1	Operating temperature	0°C to 45°C		
19.2	Operating relative humidity	10% to 90%		
20	Support Services			
20.1	Original equipment manufacturer should maintain all required spare parts in an independent in country parts depot or distributor warehouse. (proof documents should be attached along with the bid)			
20.2	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.			

3.12.5 Technical Specifications for 48 Port Network Switch with 4 nos of 1/10Gbps SFP Ports

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive warranty and support services should be provided.		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Switching Features		
8.1	Should be purpose built for converged network environments		
9	Network Interfaces		
9.1	Should consist of at least 48 Nos of 1 Gbps supporting RJ-45 ports		
9.2	Should consist of at least 4 nos of built-in SFP+ interfaces to support 1/10Gbps fiber backbone connectivity		
10	Switch Architecture and Performance		
10.1	Switching capacity should be at least 96 Gbps or more		
10.2	The Switch throughput should be at least 200 Mpps or higher		
10.3	Should consist of at least 32MB system flash memory or higher		
10.4	Should consist of a dedicated packet handling buffer of at least 500KB.		
10.5	The network latency should be less than 5 μ s		
11	Switch Management		
11.1	The switch should consist of a secure web based Graphical User Interface (GUI) for management		
11.2	Should be integrated with existing Cloud Based internal Firewall Management system of CPSTL either natively or by using an industrial		

	standards integration method (all such details should be provided).		
11.3	All licenses for integration with existing Cloud Based internal Firewall Management system of CPSTL should be provided		
11.4	Should support Sflow for traffic analysis		
11.5	Should consist of a dedicated console port		
11.6	Should consist of a network port for out of band management		
11.7	Should be 19” network rack mountable		
12	Layer-2 Switching Features		
12.1	Should support at least 200 IEEE 802.1q VLANs and should have full layer-2 manageable features.		
12.2	Should support industry standard STP protocol with at least 10 STP instances		
12.3	Should support link aggregation with at least 4 ports		
12.4	The Switch should support a minimum 8,000 media access control address table		
12.5	Should support IEEE 802.1w		
12.6	Should support IEEE 802.1s		
13	Network Security Policy Framework		
13.1	Micro segmentation-based network security policy implementation should be supported with an upstream network security device. (details should be provided)		
13.2	Should have storm control to limit broadcast, unknown unicast and unknown multicast traffic floods, by setting thresholds		
13.3	Should support DHCP Snooping enablement		
13.4	Should support local access control lists up to at least 100 entries		
13.5	Should support IEEE 802.1X port-level Network Access Control		
13.6	Should support Media Access Control based access control		
13.7	Should support SPAN and RSPAN for network packet capturing		
14	Multicasting		

14.1	Should support IGMP snooping for multicast network traffic			
15	Power	Should consist of a power supply system operating at 220v-240V/50Hz		
16	Operational Reliability			
16.1	System hardware reliability and including failure rate should be at least 10 years or more			
17	Industrial compliance			
17.1	Should meet FCC compliance			
17.2	Should be UL validated			
17.3	Should have the CE marking/endorsement			
18	Operational Parameters			
18.1	Operating temperature	0°C to 45°C		
18.2	Operating relative humidity	10% to 90%		
19	Support Services			
19.1	Original equipment manufacturer should maintain all required spare parts in an independent in country parts depot or distributor warehouse. (proof documents should be attached along with the bid)			
19.2	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.			

3.12.6 Technical Specifications for Core Network Switch

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive warranty and support services should be provided.		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Switching Features		
8.1	Should be purpose built for converged network environments		
9	Network Interfaces		
9.1	Should consist of at least 24 Nos of 10 Gbps supporting SFP+ interfaces, should be 1Gbps backward compatible as well.		
9.2	Should consist of at least 2 Nos of QSFP+ Ports		
9.3	All 24 ports should be populated with 24 Nos of 10Gbps SFP+ Single Mode transceivers from the switch manufacturer.		
10	Switch Architecture and Performance		
10.1	Switching capacity should be at least 440 Gbps or more (full duplex)		
10.2	The Switch throughput should be at least 1300 Mpps or higher		
10.3	Should consist of at least 1GB system memory or higher		
10.4	Network Latency should be less than 3μs		
11	Switch Management		
11.1	The switch should consist of a secure web based Graphical User Interface (GUI) for management		
11.2	Should be integrated with existing Cloud Based internal Firewall Management system of CPSTL either natively or by using an industrial standards integration method (all such details should be provided).		

11.3	All licenses for integration with existing Cloud Based internal Firewall Management system of CPSTL should be provided		
11.4	Should support Sflow for traffic analysis		
11.5	Should consist of a dedicated console port		
11.6	Should consist of a network port for out of band management		
11.7	Should consist of dual firmware Support		
11.8	Should be 19” network rack mountable		
12	Layer-2 Switching Features		
12.1	Should support at least 2000 IEEE 802.1q VLANs and should have full layer-2 manageable features.		
12.2	Should support industry standard STP protocol with at least 10 STP instances		
12.3	Should support link aggregation with at least 4 ports		
12.4	The Switch should support a minimum 8,000 media access control address table		
12.5	Should support IEEE 802.1w		
12.6	Should support IEEE 802.1s		
12.7	Should support port mirroring		
13	Layer-3 Routing		
13.1	Should support IPV4 Routing		
13.2	Should support IPV6 Routing		
13.3	Should consist of a DHCP server feature		
14	Network Security Policy Framework		
14.1	Micro segmentation-based network security policy implementation should be supported with an upstream network security device. (details should be provided)		
14.2	Should have storm control to limit broadcast, unknown unicast and unknown multicast traffic floods, by setting thresholds		
14.3	Should support DHCP Snooping enablement		
14.4	Should support IEEE 802.1X port-level Network Access Control		
14.5	Should support local access control lists up to at least 100 entries		
14.6	Should support Media Access Control based access control		

15	Multicasting		
15.1	Should support IGMP snooping for multicast network traffic		
16	Power	Should consist of a hot swappable redundant power supply system operating at 220v-240V/ 50Hz	
17	Operational Reliability		
17.1	System hardware reliability and including failure rate should be at least 10 years or more		
18	Industrial compliance		
18.1	Should meet FCC compliance		
19	Operational Parameters		
19.1	Operating temperature	0°C to 45°C	
19.2	Operating relative humidity	10% to 90%	
20	Support Services		
20.1	Original equipment manufacturer should maintain all required spare parts in an independent in country parts depot or distributor warehouse. (proof documents should be attached along with the bid)		
20.2	Should have 24x7 access to the manufacturers. customer service support center via phone and email for requesting troubleshooting assistance.		

3.12.7 Technical Specifications for Indoor Wireless Access Point

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive warranty and support services.		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacturer authorization should be provided		
8	Wireless Access Point Hardware Configuration		
8.1	Should be a Wi-Fi 6 compatible Wireless Access Point		
8.2	Should be a dual band access point supporting 2.4 and 5 GHz frequency bands		
8.3	Should support at least 500Mbps per each frequency band		
8.4	Should have a transmission power of at least 22dBm		
8.5	Should consist of 1 nos of 10/100/1000Mbps network interfaces.		
8.6	Should support at least 8 service set identifiers		
8.7	Should support WPA2 and WPA3 authentication for devices and users		
8.8	Should support IEEE 802.3at based power source		
8.9	Should support IEEE 802.11ac and 802.11a		
8.10	Should be integrated with existing Cloud Based internal Firewall management system of CPSTL either natively or by using an industrial standards integration method (all such details should be provided).		
8.11	All licenses for integration with existing Cloud Based internal Firewall management system of CPSTL should be provided		
9	Original Equipment Manufacturer Support Services		
9.1	All defective parts should be replaced Free of Charge with the brand-new parts during the warranty period from manufacture's authorized support center or by a manufacturer authorized in		

	country distributor. Documentary evidence should be provided.		
9.2	Original equipment manufacturer or manufacturer nominated in country distributor should maintain a 24x7 technical support desk. Complete details of the support escalation procedure should be provided, and documentary evidence should be provided.		

DUPLICATE

3.12.8 Technical Specifications for Optical Transceiver, Type-1

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive warranty and support services should be provided		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Compatibility and Type		
8.1	The fiber optical transceiver should be from the original network switch manufacturer and should be natively compatible.		
8.2	Adequate technical literature should be provided to validate the compatibility with the quoted switch models.		
8.3	Should support Multi mode fiber optical cabling infrastructure		
8.4	Should support digital optical monitoring		
9	Bandwidth		
9.1	Should support 1 Gbps bandwidth over Multi mode fiber optical backbone		
10	Technical Support Services		
10.1	Original equipment manufacturer should maintain all required spare parts in an independent in country parts depot or distributor warehouse. (proof documents should be attached along with the bid submission)		
10.2	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.		

3.12.9 Technical Specifications for Optical Transceiver, Type-2

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	3 Year comprehensive warranty and support services.		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Compatibility and Type		
8.1	The fiber optical transceiver should be from the original network switch manufacturer and should be natively compatible.		
8.2	Adequate technical literature should be provided to validate the compatibility with the quoted switch models.		
8.3	Should support Multi mode fiber optical cabling infrastructure		
8.4	Should support digital optical monitoring		
9	Bandwidth		
9.1	Should support 10 Gbps bandwidth over Multi mode fiber optical backbone		
10	Technical Support Services		
10.1	Original equipment manufacturer should maintain all required spare parts in an independent in country parts depot or distributor warehouse. (proof documents should be attached along with the bid submission)		
10.2	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.		

3.12.10 Technical Specifications for Optical Transceiver, Type-3

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5 Year comprehensive hardware and software warranty and services should be provided.		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Compatibility and Type		
8.1	The fiber optical transceiver Should be from the original network switch manufacturer		
8.2	The fiber optical transceiver should be from the original network switch manufacturer and should be natively compatible.		
8.3	Should support Single mode fiber optical cabling infrastructure		
8.4	Should support digital optical monitoring		
9	Bandwidth		
9.1	Should support 1 Gbps bandwidth over Single mode fiber optical backbone		
10	Technical Support Services		
10.1	Original equipment manufacturer should maintain all required spare parts in an independent in country parts depot or distributor warehouse. (proof documents should be attached along with the bid submission)		
10.2	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.		

3.12.11 Technical Specifications for Optical Transceiver, Type-4

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	3 Year comprehensive hardware and software warranty and services should be provided.		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Compatibility and Type		
8.1	The fiber optical transceiver should be from the original network switch manufacturer and should be natively compatible.		
8.2	Adequate technical literature should be provided to validate the compatibility with the quoted switch models.		
8.3	Should support Single mode fiber optical cabling infrastructure		
8.4	Should support digital optical monitoring		
9	Bandwidth		
9.1	Should support 10 Gbps bandwidth over Multimode fiber optical backbone		
10	Technical Support Services		
10.1	Original equipment manufacturer should maintain all required spare parts in an independent in country parts depot or distributor warehouse. (proof documents should be attached along with the bid submission)		
10.2	Should have 24x7 access to the manufacturer's customer service support center via phone and email for requesting troubleshooting assistance.		

3.12.12 Technical Specifications for Category 6 Patch Cords (Type-1)

Minimum Technical Specifications		Bidder Response (Yes/No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of origin		
4	Country of manufacture		
5	5-year product performance warranty should be provided		
6	Manufacturer should be ISO 9001 accredited		
7	Product Features		
7.1	Patch code color	Gray	
7.2	Patch cord length	0.5m	
7.3	Should consist of AWG 24 or greater conductor		
7.4	Cable sheath should be low smoke zero Halogen type (LSZH/LSOH)		
7.5	Bandwidth supported should be 250 MHz or higher support 1000BaseT data transfer speeds.		
7.6	Should support Power Over Ethernet (PoE, IEEE 802.3af) applications		
7.7	The conductor shall be stranded core to achieve the flexibility of the patch cords.		
7.8	All patch cords proposed shall be factory terminated at both ends, field terminated patch cords will not be acceptable.		
8	Industrial standard compliance		
8.1	Electrical connectors	IEC 60603-7-4	
8.2	Fire Safety compliance	IEC 60332-1-2	

3.12.13 Technical Specifications for Category 6 Patch Cords (Type-2)

Minimum Technical Specifications		Bidder Response (Yes/No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of origin		
4	Country of manufacture		
5	5-year product performance warranty should be provided		
6	Manufacturer should be ISO 9001 accredited		
7	Product Features		
7.1	Patch code color	Grey	
7.2	Patch cord length	1m	
7.3	Should consist of AWG 24 or greater conductor		
7.4	Cable sheath should be low smoke zero Halogen type (LSZH/LSOH)		
7.5	Bandwidth supported should be 250 MHz or higher support 1000BaseT data transfer speeds.		
7.6	Should support Power Over Ethernet (PoE, IEEE 802.3af) applications		
7.7	The conductor shall be stranded core to achieve the flexibility of the patch cords.		
7.8	All patch cords proposed shall be factory terminated at both ends, field terminated patch cords will not be acceptable.		
8	Industrial standard compliance		
8.1	Electrical connectors	IEC 60603-7-4	
8.2	Fire Safety compliance	IEC 60332-1-2	

3.12.14 Technical Specifications for OM3 Multimode SC-LC Duplex patch cord

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5-year product performance warranty should be provided		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Product Features		
8.1	The fiber patch cord should be OM3 Multimode SC-LC duplex type and compatible with the OM3 Multimode fiber backbone cable		
8.2	Should be available in 1m length		
8.3	Patch cords shall have an outer diameter of at least 2 mm		
8.4	Ferule material should be Zirconia		
8.5	Should consist of a Low Smoke Zero Halogen (LSZH) sheath		
8.6	Cable retention with connectors should be at least 100N		
9	Operational Parameters		
9.1	Minimum bending radius should be at least 50mm		
9.2	Typical insertion loss should be 0.15dB or less		
9.3	Maximum insertion loss should be 0.3dB or less		
9.4	Typical receive loss at connectors should be 35dB or less		
9.5	Lifetime should be at least 900 mating cycles		
9.6	Operating temperature	Up to +60 °C	
10	Standard Compliance		
10.1	Connectors	IEC 61754-20	
10.2	Impact	IEC 60794-1-21	
10.3	Repeated bending	IEC 60794-1-21	

3.12.15 Technical Specifications for OS2 Single mode SC-LC Duplex patch cord

Minimum Technical Specifications		Bidder Response (Yes / No)	Technical References (Page Numbers)
1	Make		
2	Model		
3	Country of Origin		
4	Country of Manufacture		
5	5-year product performance warranty should be provided		
6	Manufacturer should be ISO 9001 accredited		
7	Manufacture authorization should be provided		
8	Product Features		
8.1	The fiber patch cord should be OS2 Singlemode SC-LC duplex type and compatible with the OS2 Multimode fiber backbone cable		
8.2	Should be available in 1m length		
8.3	Patch cords shall have an outer diameter of at least 2 mm		
8.4	Ferule material should be Zirconia		
8.5	Should consist of a Low Smoke Zero Halogen (LSZH) sheath		
8.6	Cable retention with connectors should be at least 100N		
9	Operational Parameters		
9.1	Minimum bending radius should be at least 50mm		
9.2	Typical insertion loss should be 0.15dB or less		
9.3	Maximum insertion loss should be 0.25dB or less		
9.4	Typical receive loss at connectors should be 50dB or less		
9.5	Lifetime should be at least 900 mating cycles		
9.6	Operating temperature	Up to +60 °C	
10	Standard Compliance		
10.1	Connectors	IEC 61754-20	
10.2	Impact	IEC 60794-1-21	
10.3	Repeated bending	IEC 60794-1-21	

3.13 ANNEXURE “M” – Price Schedule Network Equipment Replacement

Item No.	Item Description	Unit Cost(USD)
1	8 Port POE Network Switch	
2	24 Port POE Network Switch with 4 nos of 10Gbps SFP+ Ports	
3	24 Port POE Network Switch with 4 nos of 1Gbps SFP Ports	
4	48 Port POE Network Switch with 4 nos of 10Gbps SFP+ Ports	
5	48 Port Network Switch with 4 nos of 1/10Gbps SFP Ports	
6	Core Network Switch	
7	Indoor Wireless Access Point	
8	Optical Transceiver, Type-1	
9	Optical Transceiver, Type-2	
10	Optical Transceiver, Type-3	
11	Optical Transceiver, Type-4	
12	Category 6 Patch Cords (Type-1)	
13	Category 6 Patch Cords (Type-1)	
14	OM3 Multimode SC-LC Duplex patch cord	
15	OS2 Multimode SC-LC Duplex patch cord	

Note : The offered price should be fixed for a period of 5 years from the date of award.

3.14 ANNEXURE “N” – Service Level Agreement for Managed Network Support Service

	Location	Maximum Duration for Fault Resolution (In Hours)	Maximum Duration for Faulty Equipment Replacement (In Hours)
1	CPSTL Kolonnawa	02	06
2	CPSTL Anuradhapura Branch	08	24
3	CPSTL Badulla Branch	10	24
4	CPSTL Haputale Branch	10	24
5	CPSTL Kankasanthurai Branch	16	48
6	CPSTL Kotagala Branch	12	24
7	CPSTL Matara Branch	06	12
8	at CPSTL Oil Facility Office at Colombo Port	04	08
9	CPSTL Sarasavi Uyana Branch	08	12
10	CPSTL Batticaloa Branch	12	24
11	CPSTL Magalle, Galle Branch	06	12
12	CPSTL Peradeniya Branch	06	12
13	CPSTL Kurunegala Branch	08	12
14	CPSTL Muthurajawela	03	06
15	Lanka Indian Oil Corporation	03	06
16	CPC Head Office in Colombo 09	03	06

Note :

The service provider should strictly adhere to the above SLA for all technical issue resolution and faulty equipment replacements. When exceeding the SLA beyond reasonable facts will imposed with a non performing service a penalty of 0.03% per hour of the contract value related to the Managed Network Support Service.

3.15 ANNEXURE “O” - COMPLIANCE / DEVIATIONS SHEET

SUPPLY, INSTALLATION, COMMISSIONING, UPGRADING OF WIDE AREA NETWORK ROUTERS AND PROCUREMENT OF MANAGED NETWORK SUPPORT SERVICE (KPR/19/2025)

Please mark “Yes” if complied with the Bid requirement or mark “No” if there is any deviation and indicate the deviation in the cage provided.

S/N	Specification / Condition	Complied	Deviations
01	Validity Period of Bid as per ITB clause 1.17		
02	Bid Security as per ITB clause 1.18		
03	Manufacturer’s Authorizations as per ITB clause 1.19 and Letter of Authorization as per ITB clause 3.10		
04	Duly filled, stamped & signed Schedule of Prices as per Annexure “A”		
05	Duly filled, stamped & signed Form of Bid as per Annexure "I", submitted		
07	Compliance with Performance Security as per Annexure "H", in case of award.		
08	Compliance with Contract Agreement as per Annexure “K”, in case of award.		
09	Compliance with Mode of Payment as per COC clause 2.3		
10	Compliance with delivery Scheduled as per COC clause 2.4		
11	Compliance with other clauses of ITB.		
12	Technical specifications as per Annexure "C", submitted		
13	A valid copy of Certificate of Business Registration issued by the Registrar of Companies in Sri Lanka, submitted, if required as per ITB clause 1.3		

14	Form PCA3 issued by Registrar of Public Contract, submitted (if required)		
15	The warranty offered, submitted with a covering letter		
16	All other documentary requirements/details as requested on ITB, Eligibility Criteria (Annexure “B”) & Specifications (Annexure “C”) submitted		
17	Duly filled, stamped & signed Company Profile as per Annexure “D”		
18	Complete project plan should be provided for the installation, commissioning, user acceptance testing and handover considering a project delivery timeline of 4 months.		
19	Copies of purchase orders, project completion confirmation and customer contact details of at least two contracts awarded and successfully completed by the bidder related to Enterprise grade integrated network infrastructure projects with SD-WAN enablement within the last 4 years (year 2021 onwards) Where the total project value is more than LKR 20 million.		
20	Copies of purchase orders, project completion confirmation and customer contact details of at least two contracts awarded to the bidder related to Experiences in providing Managed Network Support Services offering during the last 4 years.		
21	List of certified staff and their CV according to conditions and requirement as per “Qualification and experience of key staff” in ITB 1.3		
22	Duly filled Annexure “L” technical specifications		
23	Duly filled Annexure “M” Price schedule		

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Signature of Bidder

.....
Official Stamp