| | Electronics Corporation of Tamil Nadu Limited |
|---|---|
| **Rate Contract Tender** | **S u p p l y   a n d   I n s t a l l a t i o n   o f   C i s c o   C o m p o n e n t s**<br><br>**Tender Ref.**<br>**ELCOT/PROC/OT/33161/Cisco Components/RC/2018- 19** |
| | **Corrigendum No.3 to the Tender Document** |

## CORRIGENDUM TO THE TENDER DOCUMENT

The following Corrigendum to the Tender Document is hereby issued:-

| S. N | Title of the clause | Existing | To be read as |
|------|---------------------|----------|---------------|
| 1 | Page No: 13, Section No. 4 – Eligibility Criteria, 4.1 - Eligibility - S.No. 4 | Copy of Purchase order issued in the name of OEM and Bidder dated prior to 30.06.2015 and Copy of Completion/ Performance Certificate for the above purchase order should be submitted. (Both set of documents one for OEM and the other for bidder (other than OEM) shall be submitted separately) | Copy of Purchase order issued in the name of Bidder dated prior to 30.06.2015 and Copy of Completion/ Performance Certificate for the above purchase order should be submitted. |
| 2 | Page No: 14, Section No. 4 – Eligibility Criteria, 4.1 - Eligibility - S.No. 7 | The Bidder / OEM should have atleast two service centre (Own service centre) in the four regions (North, East, South and West as given in the Tender document) with a total of minimum 10 service centres in the State.<br><br>The Zonal Service Centres in the four region should be run by OEM or the authorised bidder only.<br><br>The other service centre may be run by Manufacturer or Franchise or authorised distributors/ dealers. | The Bidder / OEM should have atleast two service centre (Own service centre) in the four regions (North, East, South and West as given in the Tender document) with a total of minimum 10 service centres in the State.<br><br>The Zonal Service Centres should be run by OEM authorised bidder only.<br><br>The other service centre may be run by Manufacturer or Franchise or authorised distributors/ dealers. |
| 3. | Page No: 14 Section No. 4 – Eligibility Criteria, 4.1 - Eligibility - S.No. 5 | The Bidder shall have an Average Annual Turnover of Rs.10 (Ten) Crores or above in the last three successive Audited Financial Years. | The Bidder shall have an Average Annual Turnover of Rs.2 (Two) Crores or above in the last three successive Audited Financial Years. |
| 4 | Page No: 14 Section No. 4 – Eligibility Criteria, 4.1 - Eligibility - S.No. 8 | Bidder / Manufacturer should have ISO 9001:2008 certified manufacturing facility and ISO 14001:2008 certified for handling hazardous products. | Bidder / Manufacturer should have ISO 9001:2008 certified manufacturing facility .<br>(ISO 14001:2008 certified for handling hazardous products is not required.) |
| 5 | Page No:98, Section No.9, | 1. All the samples will be tested for BOSS Linux | Removed. |

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| | Scope of work, Sl.No.9.6.2 Linux Compliance test for CISCO | compliance for the Tender Specifications. If a Sample fails in any of the parameters, then it would be treated as"FAILED" in the "Linux Compatibility Test". The Bidders must provide the necessary Drivers. 2. Linux compatibility test may or may not be carried out for the bidders who have produced Linux certification. However if they become Successful, their product will be tested for Linux compatibility before issuing order. 3. If the bidder applied for Linux certification, bidder shall produce necessary documents related to this. For these bidders, Linux compatibility will be tested. | |
| 6 | Page No:98, Section No.9, Scope of work, Sl.No.9.6.3 Linux Compatibility for Peripherals | a) All the Peripherals would be connected to the running BOSS Linux (their own system or any other system arranged by ELCOT) to find out whether they work under Linux environment in an efficient and trouble free manner. b) All such operations would be carried out using GUI/X Windows procedures only. If the Peripherals work without any hitches, then it would be treated as "passed" in the Linux compatibility test. Otherwise, it would be treated as "failed". c) The Bidder or OEM shall provide tested results for Suse Linux and Red Hat. | Removed |
| 7 | Page No: 100, Section No. 9 – Scope of Work, 9.9 – Supply Installation and Commissioni ng – Point | 1 to 50Nos – Witnin 28 days from the date of Purchase Order. | 1 to 100Nos – Witnin 42 days from the date of Pur-chase Order. |

| | No.(a) For Quantity | | |
|---|---|---|---|
| 8 | Page No: 26, Specification, Code-Cisco 009-Router : (CISCO 4221 Series or Equivalent) | Heading:- Router Specification : (CISCO 4221 Series or Equivalent) | Router (CISCO 4321 Series or Equivalent) |
| 9 | Page No: 26, Specification, Code-Cisco 009--Router : (CISCO 4221 Series or Equivalent)-Sl.no.1 | Router should have Minimum 1 x 2Mbps serial port + 2 x 10/100/1000 GE WAN port + 4 x 10/100 LAN ports with required accessories, cables and licenses | Router should have Minimum 2 WAN and 2 LAN of 10/100/1000 Mbps GE Ports with 2 free slots from day 1 |
| 10 | Page No: 26, Specification, Code-Cisco 009--Router : (CISCO 4221 Series or Equivalent)-Sl.no.2 | Packet forwarding rate -> Minimum 200 Kbps or more | Packet forwarding rate 50 Mbps from day 1 and upgradable to 100 Mbps |
| 11 | Page No: 32, Specification, Code-Cisco 013 - Cisco ASA firewall Small Branch (Model ASA 5506-X or equivalent)-Sl.no.34 | Firewall should have integrated redundant power supply | Removed. |
| 12 | Page No: 35, Specification, Code-Cisco 014 - Cisco ASA Firewall with Firepower (Model ASA 5516-X or equivalent)-Sl.no.34 | Firewall should have integrated redundant power supply | Removed |

| 13 | Page No: 42, Specification, Code-Cisco 016 - Rack Server - C220M5 or higher- Sl.No.1 | Rack Server shall have a minimum of two (2) Intel latest generation Skylake Processors with minimum 2.1GHz & 12 cores per socket. | Rack Server shall have a minimum of one Intel latest generation Skylake Processors with minimum 2.1GHz & 10 cores per socket. |
|----|------|------|------|
| 14 | Page No: 42, Specification, Code-Cisco 016 - Rack Server - C220M5 or higher- Sl.No.8 | The Server should be configured with 128 GB of DDR4 Memory from day one | The Server should be configured with 2 x 16 GB of DDR4 Memory from day one |
| 15 | Page No: 44, Specification, Code-Cisco 018 - Cisco Blade server B200M5 or Higher | Heading:-Cisco Blade server B200M5 or Equivalent/Higher | Cisco Blade server B480M5 or Equivalent/Higher |
| 16 | Page No: 44, Specification, Code-Cisco 018 - Cisco Blade server B200M5 or Higher- Sl.No.1 | Each blade shall have a minimum of Four (4) Intel latest generation Skylake Processors with minimum 2.1GHz & 12 cores per socket. | Each blade shall have a minimum of Two (2) Intel latest generation Skylake Processors with minimum 2.1GHz & 12 cores per socket. |
| 17 | Page No: 44, Specification, Code-Cisco 018 - Cisco Blade server B200M5 or Higher- Sl.No.6 | Should have at least 32 DIMM slots per blade of DDR4 2666 MHz memory. The Blade Server should be configured with minimum 256 GB of DDR4 Memory from day one. | Should have at least 32 DIMM slots per blade of DDR4 2666 MHz memory. The Blade Server should be configured with minimum 4 * 16GB of DDR4 Memory from day one. |
| 18 | Page No.53, Specification Code- Cisco 021 - Cisco Video Conference for small and Medium Room | | Modified Specification Given in Annexure-I |

| | (WebEx Room Kit) | | |
|---|---|---|---|
| 19 | New Addon items | | New Addon items given in Annexure-II |

Note: (The above corrigendum is applicable to all other clauses which contains the respective terms in the tender document.)

| Code | Item Description |
|---|---|
| Cisco 021 | **Cisco Video Conference for small and Medium Room (WebEx Room Kit)** |
| **S No** | **Specifications** |
| 1 | Password protected system menu |
| 2 | ITU-T standards based Encryption of the video call |
| 3 | Call should be encrypted end-to-end on IP |
| 4 | Should support Standards-based AES Encryption via Automatic key generation and exchange. The same should be available in a call with Video with presentation (dual video) |
| 5 | Ability to manually turn encryption ON/ OFF should be there. |
| 6 | Automatic key generation and exchange |
| 7 | Full HD 1080p camera |
| 8 | Should support atleast 80 degrees horizontal field of view |
| 9 | Should have the capability to automatically detect active speakers in the conference room. The camera should also have face detection mechanism to enable automatic framing of participants. |
| 10 | The camera should automatically detect who in the room is speaking and select the best camera framing for that person. And when no one is speaking it should automatically select the best group framing. |
| 11 | The system should be capable of providing metrics such as participant count that could be used for resource utilization, return on investment reports. |
| 12 | Should have the ability to turn OFF speaker tracking if need be. |
| 13 | Must be able to capture a person at a distance of 18 feet in full frame |
| 14 | The camera and codec should be from the same OEM. |
| 15 | Should support Local and Global directories |
| 16 | Should support LDAP and H.350 protocols for directory transfer. |
| 17 | Latest video standards H.264, H.265 |
| 18 | should support 60 fps with 1080p resolution |
| 19 | Ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and PC or document camera can be seen simultaneously |
| 20 | Should support H.239 and BFCP protocols |
| 21 | The system must have the ability to pair mobile devices such as Tablets and Smartphones based on iOS or Android platforms so that these devices can be used for:<br>1) View the Presentation that is being shown in the VC call.<br>2) Add and disconnect call.<br>3) Take snapshot of the presentation being shown |
| 22 | The system must have the ability to pair with laptop for sending content without any wires to the VC system. |
| 23 | Should have at least 1 x HDMI inputs to connect Full HD cameras |
| 24 | Must have 2 HDMI inputs to connect two laptops/PC for presentations |
| 25 | Should support the ability to view and share presentations at a resolution of 3840 × 2160 (4K) |
| 26 | The system must have the ability to pair with laptop for sending content without any wires to the VC system |

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| 27 | Should have at least 2 no.'s of HDMI output to connect Full High Definition display devices such as plasma and projectors for both Video and Content. (Dual Monitor Support) |
| 28 | When not in a VC call, it should be possible to view presentation from two laptops on each of the screen so that users can collaborate. |
| 29 | G.711, G.722, G.722.1, 64 kbps MPEG-4 AAC-LD standard must be supported.. |
| 30 | Noise Reduction, Automatic Gain control, Acoustic Echo Canceller, Active Lip synchronization |
| 31 | Should support 3 Microphone inputs to connect 3 microphones. |
| 32 | The pick up of the microphones should be at least 10 feet from the microphone. |
| 33 | Echo Cancellation for every input must be available. |
| 34 | Should support digital main audio output with the HDMI interface |
| 35 | 1 LAN /Ethernet--10/100/1000 Mbps full duplex |
| 36 | H323/SIP upto 6 Mbps point-to-point. |
| 37 | Packet Loss Based Down speeding |
| 38 | QoS--DiffServe |
| 39 | IP adaptive bandwidth management (including flow control) |
| 40 | Auto Gatekeeper discovery |
| 41 | Auto Network Address Translation( NAT) support |
| 42 | Standards based- Packet Loss Recovery feature |
| 43 | System should support IPv4 and IPv6 from day one. |
| 44 | Should support URL Dialing |
| 45 | Support for H.245 DTMF tones in H.323 |

**S.NoADD ON ITEMS**1Cisco 005 - Wireless LAN Controller Specifications  (CISCO 5520 Series Wireless
Controller or Equivalent)Cisco 5520 Wireless Controller 1 access point adder license

Cisco DNA Essentials 3-, 5-, or 7-year term license per year per access point for wireless

Spare fan - Cisco 5520 Wireless Controller

Spare power supply

Rail mounting kit

2Cisco 008 - outer Specification : (CISCO 4451 Series or Equivalent)

Cisco 009 - Router Specification : (CISCO 4321 Series or Equivalent)

Cisco 032 - Router Specification : (CISCO 4221 Series or Equivalent)319-inch rack mount kit for cisco router

23-inch rack mount kit for Cisco router

1 Port Serial card with v.35 Cable

4 X 1G Port LAN Port

2 Port Serial card with v.35 Cable

3Cisco 013 - Cisco ASA firewall Small Branch (Model ASA 5506-X or Equivalent)

Cisco 015 - Cisco ASA Firewall with Firepower (Model ASA 5545 or Equivalent)According to the no of firewall the Management center need to be purchased from the optional items given on the tender / corrigendum

for Firewall mgmt. till 10 devices need 2 core VM with 4 GB of ram and 50 GB of HDD

URL Filtering licenses

firewall Management for 2 devices only

firewall Management for 10 devices only

firewall Management for 50 devices only

firewall Management for 250 devices only

4Cisco 016 - Rack Server - C220M5 or higher/ Equivalent

Cisco 018 - Cisco Blade server B200M5 or Equivalent /Higheroptional processor

2.2 GHz 4114/85W 10C/13.75MB Cache for C220M5 Rack server

2.6GHZ 5122 /125W 12C/19.25MB Cache for B480M5 Blae server

Memory

16GB DDR4-2666-MHz

Storage

600 GB 12GSAS 10K RPM HDD

1.2 TB 12G SAS 10K RPM HDD

5Cisco 026 - Access point – Model 1 -Cisco Meraki MR 33 or higher (WAVE 1 Wireless)

Cisco 027 - Access point – Model 2 - Cisco Meraki MR 42 or Higher /Equivalent
Meraki MR Enterprise License, 1YR

Meraki MR Enterprise License, 3YR

Meraki MR Enterprise License, 5YR

6Cisco 028 - 8 Port PoE Switch - Cisco Meraki MS120_8FP or Equivalent /higherMeraki
MS120-8FP Enterprise License and Support, 1 Year

Meraki MS120-8FP Enterprise License and Support, 3 Year

Meraki MS120-8FP Enterprise License and Support, 5 Year

7Cisco 029 - 24 Port PoE Switch - Cisco Meraki MS120_24P or
Equivalent/ higherMeraki MS120-24P Enterprise License and Support, 1 Year

Meraki MS120-24P Enterprise License and Support, 3 Year

Meraki MS120-24P Enterprise License and Support, 5 Year

8Cisco 030 - 24  Port  Switch - Cisco Meraki MS350_24P or Equivalent /higherMeraki
MS350-24P Enterprise License and Support, 1YR

Meraki MS350-24P Enterprise License and Support, 3YR

Meraki MS350-24P Enterprise License and Support, 5YR

Meraki 40GbE QSFP Cable, 0.5 Meter

9Cisco 019 - Cisco IP Telephony (Cisco unified Communications Manager)Cisco Voice
Router for PRI connections

Top Level SKU For 9.x/10.x User License - eDelivery

10Cisco 020 - Cisco High definition Multipoint Control Unit (MCU) CMX 1000 or
EquivalentCisco TelePresence Shared Multiparty

Spare Rich Media Session for Expressway Series