

Corrigendum-I

Tender Name: Request for Proposal for Procurement, Installation, Commissioning and Management of SDWAN for MSEDCL Remote Offices up to Circle level

Tender No.:MSEDCL/IT/SDWAN/2022-23

Sr No	RFP Reference	Existing Clause	Proposed Clause
1	Section-C Qualification Criteria 2. Bidders Pre-Qualification Criteria (iv)	<p>Bidder should have experience for supply,installation and maintenance of IT networking and security infrastructure, during last 5 years from date of publishing of this tender.</p> <p>The Bidder should have executed similar works as follows :</p> <ol style="list-style-type: none"> 1. One work order/Contract costing not less than Rs. 5.24 Crores OR 2. Two work orders/Contracts costing not less than Rs. 3.28 Crores each OR 3. Three work orders/Contracts costing not less than Rs. 2.62 Crores each. <p>Note : All the projects submitted for above experience criteria should be completed projects only.</p>	<p>Bidder should have experience for supply,installation and maintenance of <u>IT networking/security infrastructure</u>,during last 7 years from date of publishing of this tender.</p> <p>The Bidder should have executed similar works as follows :</p> <ol style="list-style-type: none"> 1. One work order/Contract costing not less than Rs. 5.24 Crores OR 2. Two work orders/Contracts costing not less than Rs. 3.28 Crores each OR 3. Three work orders/Contracts costing not less than Rs. 2.62 Crores each. <p>Note : All the projects submitted for above experience criteria should be completed projects only.</p>
2	Section-C Qualification Criteria 2. Bidders Pre-Qualification Criteria (iv) Documents required	<p>Copies of Work order or LOA during the last 5 financial years</p> <p>AND</p> <p>Client certificate for each project mentioning scope of works and value of contract</p>	<p>Copies of Work order or LOA during the last 7 financial years</p> <p>AND</p> <p>Client certificate for each project mentioning scope of works and value of contract</p>
3	1. SD-WAN Controller at MSEDCL Cloud Sr. No. 1	<p>SD-WAN controller must be MSEDCL cloud ready SDWAN virtual appliance and should be installed in MSEDCL Cloud with High Availability Or SD-WAN controller as a hosted cloud service and it should be configure in High Availability and no single point failure in any terms</p>	<p>SD-WAN controller must be MSEDCL cloud ready SDWAN virtual appliance and should be installed in MSEDCL Cloud with High Availability Or SD-WAN controller as a hosted cloud service and it should be configure in High Availability and no single point failure in any terms.<u>Note: If the bidder proposes SD-WAN controller as a hosted cloud service,bidder must ensure that MSEDCL data does not go outside of India .</u></p>

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4	Section – E Mandatory Technical Specifications 1. SD-WAN Controller at MSEDCL Cloud 2	SD-WAN controller must offer SD-WAN functionalities along with security features such as stateful inspection firewall, App Aware Firewall, Web/URL Filtering for local internet and should be able to block infected and malicious domains also solution support DDOS and vulnerability management capabilities	SD-WAN controller must offer SD-WAN functionalities along with security features such as stateful inspection firewall, App Aware Firewall, Web/URL Filtering for local internet and should be able to block infected and malicious domains.Solution should support DDOS and <u>vulnerability Sensor capabilities and Unified Secure Access Service Edge (SASE) .SD-WAN solution should provide local internet breakout</u>
5	Section – E Detail Technical Specifications 1. SD-WAN Controller at MSEDCL Cloud 4	SD-WAN controller must have functions like WAN/Flow Optimization, Forward Error Correction or Packet Duplication with capability to send duplicate packets over a single tunnel.	SD-WAN controller must have functions like WAN/Flow Optimization, Forward Error Correction or Packet Duplication with capability to send duplicate packets over a single tunnel/ <u>Multiple Tunnel</u>
6	Section – E Detail Technical Specifications 1. SD-WAN Controller at MSEDCL Cloud 27	The proposed solution must have ability to reorder any packets that are retransmitted during a failover.	The proposed solution must have ability to reorder/ <u>re-transmit required</u> packets during the failover.
7	Section – D Scope of Work 4. Methodology 4.1 Architecture	Added	<u>X) Solution should support Unified Secure Access Service Edge (SASE)</u>

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8	Section – E Mandatory Technical Specifications 1. SD-WAN Controller at MSEDCL Cloud 33	The SD-WAN solution should have separate controller for managing control plane and dedicated management and monitoring system for provisioning the Remote Location SD-WAN appliance.	<p><u>The SD-WAN Solution should be true SDN based SD-WAN solution. The Controller should have four segregated planes – 1)Orchestration plane 2) Management Plane 3) Control Plane 4) Data Plane. Each plane has its own functions and responsibilities as below and is abstracted away from the other planes.</u></p> <p><u>i) The Orchestration Plane of the SD-WAN system job is to orchestrate the process of onboarding new unconfigured devices to the SD-WAN System. It's responsible for the authentication and whitelisting of Edge devices and control/management information distribution.</u></p> <p><u>ii)The Management Plane takes care of the wider network configuration, monitoring and management processes across all layers of the network stack.</u></p> <p><u>iii)The Control Plane refers to the network architecture component that defines the traffic routing and network topology.</u></p> <p><u>iv)The Data Plane is the network architecture layer that physically handles the traffic based on the configurations supplied from the Control Plane.</u></p>
9	Section – E Mandatory Technical Specifications 2. Remote Location SD-WAN Appliance 1	Provide Dedicated WI-FI based SD-WAN appliance or SDWAN appliance with external Access Point and have zero touch deployment features. Bidders has to provide 3 wifi access at each location .	Provide Dedicated WI-FI based SD-WAN appliance or SD-WAN appliance with external Access Point and have <u>Secure zero touch Provisioning (SZTP) features as per RFC 8572</u> . Bidders has to provide 3 wifi access at each location .

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10	Section – E Mandatory Technical Specifications 2. Remote Location SD-WAN Appliance 2	SD-WAN controller must offer SD-WAN functionalities along with security features such as stateful inspection firewall, IPS,App Aware Firewall, Web/URL Filtering, PS for local internet and should be able to block infected and malicious domains and Unlimited URL ,IP addresses blocking	SD-WAN remote appliance must offer SD-WAN functionalities along with security features such as stateful inspection firewall, IPS,App Aware Firewall, Web/URL Filtering, Malware Protection <u>Passive Scanner/Passive Sensor</u> for local internet and should be able to block infected and malicious domains . Unlimited URL ,IP addresses blocking <u>and should support Unified Secure Access Service Edge (SASE)</u>
11	Section – E Mandatory Technical Specifications 2. Remote Location SD-WAN Appliance 3	SD-WAN device must support multiple WAN connectivity mediums such as MPLS, ILL, Broadband, P2P leased Line, 4G and upgradable to 5G in future on USB port or SIM slot with automatic fail-over capability.	SD-WAN device must support multiple WAN connectivity mediums with <u>LTE WAN backup Link</u> such as MPLS, ILL, Broadband, P2P leased Line, 4G and upgradable to 5G in future on USB port or SIM slot with automatic fail-over capability.
12	Section – E Detail Technical Specifications 2. Remote Location SD-WAN Appliance 4	SD-WAN device must have functions like traffic Flow Optimization, Forward Error Correction or Packet Duplication with capability to send duplicate packets over a single tunnel.	SD-WAN device must have functions like traffic Flow Optimization, Forward Error Correction or Packet Duplication with capability to send duplicate packets over a single tunnel/ <u>Multiple Tunnel</u>
13	Section – E Mandatory Technical Specifications 2. Remote Location SD-WAN Appliance 12	Out of 6 Ethernet port at least 2 or all port should be WAN ports & The proposed SD-WAN edge device should have minimum 8GB RAM and sufficient internal memory to ensure higher performance	Out of 6 Ethernet port at least 2 or all port should be WAN ports & The proposed SD-WAN edge device should have minimum 8GB RAM and sufficient internal memory to ensure higher performance. <u>SD-WAN appliance should be Layer 2 & 3 Interoperable</u>
14	Section – E Mandatory Technical Specifications 2. Remote Location SD-WAN Appliance 13	SD-WAN appliance should support dynamic routing protocols - OSPF, BGP. SD-WAN solution should be able to create FULL MESH topology with optimal routing	SD-WAN appliance should support dynamic routing protocols - OSPF, BGP. SD-WAN solution should be able to create FULL MESH topology with optimal routing. <u>SD-WAN remote appliance SD-WAN should supports a full dynamic/on demand tunneling mesh topology, in addition to the hub-spoke topology. The mesh can consist of branches with or without hubs. Use full mesh when the branches need to communicate with each other directly.</u> <u>If controller goes down the edge device contiuie to forward the traffic (Edge devices capable of</u>

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			<u>Headless forwarding)</u>
15	Section – E Detail Technical Specifications 2. Remote Location SD-WAN Appliance 27	The proposed solution must have ability to reorder any packets that are retransmitted during a failover.	The proposed solution must have ability to reorder <u>re-transmit required</u> packets during the failover.
16	Section – E Mandatory Technical Specifications 2. Remote Location SD-WAN Appliance 33	The proposed SD-WAN solution should provide Active-Active resource utilization at WAN edge and WAN link layers. The solution should support Active-Active dual router topology without using external upstream switches.	The proposed SD-WAN solution should provide Active-Active resource utilization at WAN edge and WAN link layers. The solution should support Active-Active dual router topology without using external upstream switches <u>(Spoke redundancy by interconnecting two edge devices to create a single logical edge)</u> .
17	Section – E Mandatory Technical Specifications 2. Remote Location SD-WAN Appliance 35	The SD-WAN solution should have uninterrupted connectivity if appliance experiences security software failure on the Remote Location SD-WAN appliance	<u>The Remote SD-WAN appliance should have Fail-to-Wire functionality if appliance experiences security software failure or Ethernet bypass for inline mode that allows traffic to bypass SD-WAN and flow directly across a pair of bridged interfaces in the event of appliance restart or failure.</u>
18	Section-G BID Process 7. Technical Bid	vii. The bidders are required to show the presentation and demonstration of the offered SDWAN solution at MSEDCL corporate office and show case as per E .Technical Presentation	vii. The bidders are required to show the <u>POC (Proof of Concept)</u> , presentation and demonstration of the offered SDWAN solution at MSEDCL corporate office as per section E .Mandatory Technical Specifications
19	Section-G BID Process 13. Evaluation Process 13.1 Stages of Evaluation	ii. As part of technical evaluation bidders will be invited for Technical presentation on the features mentioned in the RFP.	ii. As part of technical evaluation bidders will be invited for <u>POC (Proof of Concept)</u> and Technical presentation on the features mentioned in the RFP.

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20	Section – F Deliverable and Service Level Agreements 2. Implementation Timelines & Penalties 4. Payment Terms 2 Installation & Commissioning of all SD-WAN solution hardware :Verification	Upon successful Installation & Commissioning of all SDWAN Solution hardware at the locations and NMS & Acceptance Certificate from MSEDCL	A) After Supply, Installation, Configuration & Commissioning of <u>SD-WAN Controller & SD-WAN remote location setup ,NMS and confirming data communication between the remote location SD-WAN device and SD-WAN Controller in accordance with of the Section – D Scope of Work and E .Mandatory Technical Specifications , the Operational acceptance certificate will be issued by MSEDCL.</u>
21	Section – D Scope of Work 4. Methodology 4.3 Network Integration	Added	<u>VIII.Bidder will be responsible for all types of charges (such as RACK Space charges ,Port Charges,Gateway Charges etc. and all other charges required for connectivity at GPX data centre/MSEDCL Cloud) required to integrate proposed SD-WAN solution with MSEDCL cloud where all MSEDCL applications hosted .Bidder shall coordinate with MSEDCL MSP for integration to MSEDCL Cloud.</u>
22	2. On-site Support	Added	<u>XI) Bidder must follow GOI, The Minimum Wages act and other statutory compliances . Any amendments to these statutory requirements shall also be applicable under this contract.</u>
23	Annexure 2: Price Bid A2 (3)	Added	<u>MSEDCL Cloud Integration Charges (RACK space, Router, Port, Gateway etc.)</u>
24	Section – F Deliverable and Service Level Agreements 8. Annual maintenance Contract (2)	Support for maintenance of software Defined Wide Area Network solution (Including Hardware ,OS and Software License) and other items supplied should be available for minimum period of 5 Years, covering all parts ,maintenance and support after expiry of warranty period, however in the case of device license warranty will start from the successful commissioning of solution	Support for maintenance of software Defined Wide Area Network solution (Including Hardware ,OS and Software License) and other items supplied should be available for minimum period of 5 Years, covering all parts ,maintenance and support after expiry of warranty period, <u>however , device license warranty will start from the date of Operational acceptance certificate.</u>

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25	Section – F Deliverable and Service Level Agreements 4. Payment Terms AMC Charges 4 Verification	To be paid on quarterly basis, on submission of Quarterly Reports. Applicable after the expiry of 1 Year warranty	To be paid on quarterly basis, <i>at the end of each quarter</i> , on submission of Quarterly Reports <i>as per Section – F Deliverable and Service Level Agreements point 3. Service Level Agreements</i> Applicable after the expiry of 1 Year warranty
26	Section – F Deliverable and Service Level Agreements 4. Payment Terms FMS Charges 5 Verification	To be paid on quarterly basis, on submission of Quarterly Reports	To be paid on quarterly basis, <i>at the end of each quarter</i> , on submission of Quarterly Reports <i>as per Section – F Deliverable and Service Level Agreements point 3. Service Level Agreements</i>
27	2. Implementation Timelines & Penalties Sr. No.3 column (Penalty (calculated on basis of days of delay))	Stabilization and acceptance certificate by MSEDCL A) After Supply, Installation, Configuration & Commissioning of SDWAN Controller on Cloud and SDWAN remote location setups, and after confirming data communication between the remote location SDWAN Setup and Cloud, the Operational acceptance certificate will be issued by MSEDCL.All Scope of work and Specifications mentioned in RFP B) If the Bidder fails to pass the operational acceptance even after 3 unsuccessful attempts, MSEDCL reserves the right to terminate the contract and the forfeit the PBG.	Stabilization and acceptance certificate by MSEDCL A) After Supply, Installation, Configuration & Commissioning of SDWAN Controller on Cloud and SDWAN remote location setups, and after confirming data communication between the remote location SDWAN Setup and Cloud, the Operational acceptance certificate will be issued by MSEDCL , <i>as per</i> all Scope of work and Specifications mentioned in RFP. <i>The stabilization certificate of solution shall be issued after 1 month after operational acceptance.</i> B) If the Bidder fails to pass the operational acceptance even after 3 unsuccessful attempts, MSEDCL reserves the right to terminate the contract and the forfeit the PBG.
28	3. Hardware/Virtual Instance Requirements Details Sr. No. 1	Virtual Instance in HA	<i>SD-WAN Controller in High Availability (HA)</i>
29	2. Implementation Timelines & Penalties S r No 4. (Operation and Maintenance.) Time Line	Will be for 5 years from date of LOA	Will be for 5 years from the date of <i>stabilization certificate</i>

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30	Section – H General Conditions of Contract	Added 29. Insurance	<p><u>In order to comply the directives of the Government of Maharashtra resolutions</u></p> <p><u>a. AIF/2183/CR-174/83ADM-5 Date 16/01/1984</u></p> <p><u>b. Vimsa-1098/Pr.Kra28/98/Shashan Hami Dt.19/08/1998</u></p> <p><u>c. Vimsa-1011/Prakra 15/Vima Prashasan Date 29/04/2011 and</u></p> <p><u>d. L.No: AIF/2311/Co-Ins/MST Co/Ltd/F da.04.02.2012</u></p> <p><u>and the directives issued by the Executive Director (H.R) MSEDCL vide letter No: IRD/B/Insurance/11522 dtd. 09/05/2022, the contractor All Risk Policy (CAR) or Transit cum Erection (TCE) or Erection All Risk Insurance Policy (EAR) in respect of contract works awarded by MSEDCL as principle to the contract and workman's compensation insurance in respect of the workmen engaged and deployed by the contractor's to complete the contract work is required to be obtained from M/s National Insurance Co. Ltd on co-insurance cum servicing basis under indirect method in the ratio of 40:60 (i.e. Govt. Insurance fund @ 40% and National Insurance co. Ltd. @ 60%) and their offices as specified in the circulars.</u></p> <p><u>As per the Directive of Govt. of Maharashtra letter No: NMP1009/Sankra 39/NV 26 date: 16th March 2009, in case the directives are NOT followed by the contractor, the concerned authority of MSEDCL shall recover (1 %) one percent amount of the contract value and deposit the same with Director of Insurance Govt. Maharashtra through Cheque/demand draft with complete particulars of contract works along with copy of work order.</u></p>

