Corrigendum-02

NIT NO: CMC/BY/25-26/RS/SkS/APT/34 [RFx Number: 2200000161] - SUPPLY, INSTALLATION, TESTING, CONFIGURATION AND MAINTENANCE OF SOFTWARE-DEFINED WIDE AREA NETWORK (SD-WAN) CONNECTIONS ACROSS VARIOUS OFFICES OF BYPL

Response/ Calrifications to the bidders per-bid queries

Part A

Annexure no	Section	Sub-section (if any)	Point Sl.no	Page.no	NIT Clause Descriptions	Clarifications / Suggestions Required by Bidder	BSES Response/ Clarification
	SECTION – II: INSTRUCTION TO BIDDERS	SCOPE OF WORK	**2**	**13**	The scope shall include Supply, Installation, Testing and Commissioning of Servers for Web portal and PI/PO conforming to the Technical Specifications along with Packing, Forwarding, Transportation Unloading and proper stacking at Purchaser's stores/site. (Refer Volume – III [Package 1&2] for technical specification and Volume – IV [Package 1&2] for detail scope of work)		The scope shall include Supply, Installation, Testing and Commissioning of SDWAN complete trunkey projec to the Technical Specifications along with Packing, Forwarding, Transportation Unloading and proper stacking at Purchaser's stores/site. (Refer Volume – III [Package 1&2] for technical specification and Volume – IV [Package 1&2] for detail scope of work)
Annexure- III	Technical Specifications	SD-WAN Device	28	78	The SD-WAN solution shall improve the degraded link (e.g. Forward Error Correction, Quality of Service (QoS) etc.) to maintain application performance for high priority applications		The SD-WAN solution shall improve the degraded link (e.g. Forward Error Correction, **Packet Duplication**, Quality of Service (QoS) etc.) to maintain application performance for high priority applications
Annexure- III	Technical Specifications	SD-WAN Device	53	80	Solution should be able to identify applications at layer-7 and we should able to define QoS and access control based on application. It should possible to identify minimum 1000 common applications with capability to define custom applications.		Solution should be able to identify applications at layer-7 and we should able to define QoS and access control based on application. It should possible to identify minimum 3000 common applications with capability to define custom applications.
Annexure- III	Technical Specifications	Functional Requirements for SDWAN Device	52	96	Solution should be able to identify applications at layer-7 and we should able to define QoS and access control based on application. It should possible to identify minimum 1000 common applications with capability to define custom applications.		Solution should be able to identify applications at layer-7 and we should able to define QoS and access control based on application. It should possible to identify minimum **3000** common applications with capability to define custom applications.
Annexure- III	Technical Specifications	BYPL IT DC (KKD) (Category A)	3	99	Device should support Minimum 2 Gbps aggregated throughput with Threat Protection, URL Filtering and HTTPS/SSL Inspection along with others security features, with minimum of 2 X 10 G SFP Ports and 13 X copper 1G RJ-45RJ-45 L3/L2 ports, devices should be configuring in HA. • All ports should be configurable as LAN or WAN as required All ports should be populated to be used from day-1 with required SFP's if required, All ports and SFP should be Copper RJ45.	The device should support a minimum Threat Prevention throughput of 2 Gbps or higher with Application Control, Firewall, IPS, Anti-Malware/Anti-Virus, Anti-Bot, URL Filtering/Web Protection, and DNS Security enabled, with logging enabled. The throughput should be measured considering 100% HTTP/HTTPS traffic under Web Mix/Application Mix conditions with a 256 KB HTTP/HTTPS transaction size. Performance figures must be published on the OEM's public website or product datasheet, or alternatively be supported by validated test results provided on an official letterhead duly signed by the OEM Product Engineering team. A Proof of Concept (PoC) shall be conducted at the customer premises during the TEC to validate the stated performance.	The specified requirement ensures that the proposed security device is capable of delivering consistent and reliable performance under real-world operational conditions with all critical security services enabled. In production environments, Threat Protection, Application Control, Firewall, IPS, Anti-Malware/Anti-Virus, URL Filtering/Web Protection, DNS, Security, and comprehensive logging are required to operate simultaneously. Measuring throughput with these features enabled prevents reliance on theoretical or firewall-only performance figures that do not reflect actual deployment scenarios. Given that the majority of enterprise and government network traffic is HTTP/HTTPS, defining 100% HTTP/HTTPS traffic under Web Mix/Application Mix conditions and repeatable performance assessment aligned with typical user and application behaviour.

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Annexure- III	Technical Specifications	BYPL IT DC (KKD) (Category A)	3	99	Note: Total Ports: 23 used for WAN links, considering some spare consider at least 28 ports for WAN links and separate links for internal LAN connectivity. We can segregate service in two part Core (Dia,M2M) and Services (MPLS, P2P, Services)	OEM /Bidder will propose minimum 2 paid of device to segregate the MPLS and Internet Traffic	No Change in clause
Annexure- III	Technical Specifications	BYPL IT DC (KKD) (Category A)	22	99	To ensure protection against known and unknown vulnerabilities, the integrated IPS must have a threat signature database covering at least the last 10 years and containing a minimum of 10,000 signatures loaded or at least 10,000 signatures in its database or vulnerabilities with a CVSS score of 8 or higher that includes Malware CNC, Exploit Kits, SQL Injection threats		To ensure protection against known and unknown vulnerabilities, the integrated IPS must have a threat signature database covering at least the last 10 years and containing a minimum of 20,000 signatures loaded or at least 20,000 signatures in its database or vulnerabilities with a CVSS score of 8 or higher that includes Malware CNC, Exploit Kits, SQL Injection threats
Annexure- III	Technical Specifications	Location/Site Devices (Category B)	18	100	To ensure protection against known and unknown vulnerabilities, the integrated IPS must have a threat signature database covering at least the last 10 years and containing a minimum of 10,000 signatures loaded		To ensure protection against known and unknown vulnerabilities, the integrated IPS must have a threat signature database covering at least the last 10 years and containing a minimum of 20,000 signatures loaded
Annexure- III	Technical Specifications	Location/Site Devices (Category C)	18	101			
Annexure- III	Technical Specifications	Location/Site Devices (Category B)	10	100	Device shall have minimum 4 X 1G RJ-45 ports with flexibility to configure any port as L2/L3 and WAN/LAN, • Aggregated device throughput requirement minimum 500 mbps throughput with Threat Protection, URL Filtering and HTTPS/SSL Inspection along with others security features from day one. • All ports should be populated to be used from day-1 with required SFP's if required.	he specified requirement ensures that the proposed security device is capable of delivering consistent and reliable performance under real-world operational conditions with all critical security services enabled. In production environments, Threat Prevention capabilities such as Application Control, Firewall, IPS, Anti-Malware/Anti-Virus, Anti-Bot, URL Filtering/Web Protection, DNS Security, and comprehensive logging are required to operate simultaneously. Measuring throughput with these features enabled prevents reliance on theoretical or	Addition to that, Application Control, Firewall, IPS, Anti-Malware/Anti-Virus, URL Filtering/Web Protection, and DNS Security enabled, with logging enabled. The throughput should be measured considering 100% HTTP/HTTPS traffic under Web Mix/Application Mix conditions with HTTP/HTTPS transaction.

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Annexure- III	Technical Specifications	Location/Site Devices (Category C)	9	101	Device shall have minimum 4 X 1G RJ-45 ports with flexibility to configure any port as L2 and L3, 1 X Mgmt., 1 X Console. Device should have capability of 4G, 5G, LTE, NB-IOT with with Inbuilt SIM Slot • Aggregated device throughput requirement minimum 500 Mbps from day one with Threat Protection and HTTPS/SSL Inspection for entire traffic. • All ports should be populated to be used from day-1 with required SFP's if required	firewall-only performance figures that do not reflect actual deployment scenarios. Given that the majority of enterprise and government network traffic is HTTP/HTTPS, defining 100% HTTP/HTTPS traffic under Web Mix/Application Mix conditions with a specified 256 KB transaction size ensures realistic and repeatable performance assessment aligned with typical user and application behaviour. This eliminates ambiguity in performance claims and enables a fair and consistent comparison across different OEM	Performance figures must be published on the OEM's public website or product datasheet, or alternatively be supported by validated test results provided on an official letterhead duly signed by the OEM Product Engineering team. A Proof of Concept (PoC) shall be conducted at the customer premises during the TEC to validate the stated performance.
Annexure- III	Technical Specifications	A - DC HUB Device	17	86	Temperature support: -10° to 40°C		Temperature support: 0° to 40°C (DC)
Annexure- III	Technical Specifications	B Site Router	17	87	Temperature support: -10° to 40°C		Temperature support: 0° to 40°C (DC)
Annexure- III	Technical Specifications	C Site 4G and 5G Router	17 20	87 101	Temperature support: -10° to 40°C		Temperature support: 0° to 40°C (DC)
Annexure- III	Technical Specifications	Location/Site Devices (CategoryA,B & C)	73 7 6 7 6	81 85 86 100 101	Should not impose license-based limitation on number of users. Should support mesh any to any.		For Dialup users Must be consider Minimum 6000 Users dedicated license with MFA.
Annexure- III	Technical Specifications	Centralized Management, Monitoring and Configuration of WAN.	79	82	The Centralized management solution shall provide a single, unified platform for network service provisioning, device configuration, software updates, monitoring and assurance, change and compliance management.		We are looking SDWAN Compliance, No separate ITSM tool required in this SDWAN solution
Annexure- III	Technical Specifications	Reports & Analytics to be available in the solution	95	83	Traffic reports per site: availability, bandwidth usage, latency, packet loss, QoS per link etc		QOS reporting is optional
Annexure- III	Technical Specifications			13	Device should supply with 100 Mbps B/w license traffic in each direction	Typo Error	Clause deleted
Annexure- III	Technical Specifications	Device Category A, B and C	15 13 11 15 13	84 85 86 99 100	Shall have adequate memory, CPU etc. so that the utilization does not normally exceed 75% or impacting performance of the device. In case augmentation in any component is required, the same shall be done without any additional cost		This should be considered from Day 1. At any point in time, if the device reaches its capacity limit, it must be replaced with a higher-capacity device at no additional commercial cost. The OEM will provide written confirmation on official letterhead.
Additional Clauses	Technical Specifications				SDWAN Solution must have seamless integration with HP CPPM		SDWAN Solution must have seamless integration with HP CPPM

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Additional Clauses	Technical Specifications				IPV 6		**IPv6 Logo Ready:** Confirms secure and standards-compliant IPv6 implementation, reducing protocol-level security risks and ensuring secure network interoperability. From day one.
Additional Clauses	Technical Specifications				The solution should support on-device SSL/TLS decryption, including decrypting TLS v1.3 traffic, to identify Custom applications based on its Layer 7 signatures and not based on IP address. This information should be used to successfully perform SDWAN steering of Custom HTTPS application traffic.		Over 95% of modern web traffic is encrypted. Malware writers now exclusively use TLS 1.3 to hide attacks
12	Terms of Payment and Billing			49	MS-1: 70% against delivery and Installation of hardware and required operating system against submission of performance bank guarantee of 10% of total contract value. MS-2: 30% of total contract value shall be released after 45 Days of successful Bug Free system run after completion.	MS-1: 70% against delivery of hardware against submission of performance bank guarantee of 10% of total contract value. MS-2: 20% of total contract value shall be released after installation. MS-3: 10% of total contract value shall be released after 45 Days of successful Bug Free system run after completion.	**MS-1: 50%** against delivery of hardware and required operating system against submission of performance bank guarantee of 10% of total contract value. **MS-2: 30%** of contact value of Pricing schedule shall be released after Installation of hardware and required operating system. **MS-3: 20%** contract value shall be released after 1 months of successful Bug Free system run after completion.

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Annexure no	**Section**	**Sub-section (if any)**	**Point Sl.no**	**Page.no**	**NIT Clause Descriptions**	**Clarifications / Suggestions Required by Bidder**	**BSES Response/ Clarification**
PACKAGE - 2: SITC & IMPLEMENTATION OF L2 SWITCHES FOR IT & OT				62 73 89 109	L2 Switch for IT Remote Location - 24 Port 100/1000 + 1 G Uplink	Please specify number of uplink 1G ports - 24 Port 100/1000 + 4x 1 G (with two Copper ports) Uplink	> 2 port required, 2 Eather for 1 G Uplink. > 4 port required, 2 Eather 2 Fiber for 10 G Uplink
PACKAGE - 2: SITC & IMPLEMENTATION OF L2 SWITCHES FOR IT & OT					24 Port 100/1000 +10 G Uplink	Please specify number of uplink 1G ports - 24 Port 100/1000 + 4x 10 G (with two Copper ports)Uplink	
PACKAGE - 2: SITC & IMPLEMENTATION OF L2 SWITCHES FOR IT & OT					48 Port 100/1000 +2x1G Uplink	Kindly increase uplink ports to 4x 1G - 48 Port 100/1000 +4x1G (with two Copper ports)Uplink	
PACKAGE - 2: SITC & IMPLEMENTATION OF L2 SWITCHES FOR IT & OT		OT L2 Switch		88	24 x Copper RJ 45 1Gbps L2 LAN ports for data, 1xConsol	24 x Copper RJ 45 1Gbps L2 LAN ports for data + 2 1G uplink (Copper), 1xConsol	24 x Copper RJ 45 10/100 Mbps L2 LAN ports for data, 1xConsol
PACKAGE - 2: SITC & IMPLEMENTATION OF L2 SWITCHES FOR IT & OT					Power supply: 12 to -220V/10A VDC, Complied to all various Indian and International standards for OT environment. (DC Supply as per IndianStandard)		DC Range should support between 48 to 56 for L2 OT Switch at Grid
PACKAGE - 2: SITC & IMPLEMENTATION OF L2 SWITCHES FOR IT & OT		OT L2 Switch	2 2	88 108	24 x Copper RJ 45 1Gbps L2 LAN ports for data, 1xConsol		24 x Copper RJ 45 10/100Mbps L2 LAN ports with 1 X Console
PACKAGE - 2: SITC & IMPLEMENTATION OF L2 SWITCHES FOR IT & OT		L2 Switch for IT Remote Location	10	90 110	Other Requirements • Flash memory minimum 2 GB, RAM 4GB or better & 8MB packet buffer		Clauses deleted
PACKAGE - 2: SITC & IMPLEMENTATION OF L2 SWITCHES FOR IT & OT		Category D Switch	4	88	The Switch should have minimum security features such as MACsec Support including port based security, Port based control, ACL, DoS prevention, Device Security Indication, Audit Trail, CLI Logging, HTTPS Certificate Management, Restricted Management Access RADIUS, CLI, Logging, Privilege access management etc		The Switch should have minimum security features such as MACsec / MAC- based port security, Support including port based security, Port based control, ACL, DoS prevention, Device Security Indication, Audit Trail, CLI Logging, HTTPS Certificate Management, Restricted Management Access RADIUS, CLI, Logging, Privilege access management etc
PACKAGE - 2: SITC & IMPLEMENTATION OF L2 SWITCHES FOR IT & OT		OT L2 Switch	10	88 109	Temperature support: -20° to 60°C		Temperature support: -0° to 60°C with conformal quoting

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PACKAGE - 2: SITC & IMPLEMENTATION OF L2 SWITCHES FOR IT & OT					IT Switch cyber security certification is missing		Offered IT switches shall be cyber security certified with minimum EAL2 level. Relevant certificate shall be provided along with bid
					SFP for Switch		Ethernet Switches and SFP should be from same make
PACKAGE - 2: SITC & IMPLEMENTATION OF L2 SWITCHES FOR IT & OT		OT L2 Switch					Temperature support: 0° to 60°C (OT Switch)