	1			intenance of SSL Offloader & Server Load Balancer for RSDC (NIB no. F3.3(425)/RISL/Pur/ 20	
S.No	RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification	Remark
1 1	RFP Page No. Page 46 of 71	A. SSL Offloader S.N. 2	Rule Details Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1 Device L4 Throughput: Minimum 125 Gbps and scalable upto 200 Gbps Layer 4 connections per second: 2.5 Million Layer 7 requests per second: 4 Million Concurrent Connections: minimum 150 Million RSA CPS(2K Key): Minimum 50,000 from Day-1 ECC CPS (EC-P256): Minimum 30,000 with TLS1.3 Support from Day-1 SSL Throughput: 45 Gbps RAM: 96GB from day-1 and scalable upto 192GB The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45) Out-of-band Management Port.	, ,, ,,	As per Revised RFP.
2	Page 48 of 71	A. SSL Offloader	New Clause Request	Health checking metrices should be included to check avaialbility of the server before forwarding the required request. It will ensure successfull transaction. Suggested Clause: Following health checking metrics should be available: **TCP Health Checks, **UDP Health Checks, **ICMP Health Checks, **ICMP Health Checks, **SNMP Health Checks, **SNMP Health Checks, **SNMP Health Checks, **SMTP Server Health Checks, **SMTP Server Health Checks, **IMAP Server Health Checks, **ARP Health Checks, **ARP Health Checks, **DHCP Health Checks, **Script-Based Health Checks,	As per RFP.
3	Page 48 of 71	A. SSL Offloader	New Clause Request	There should be centralized manager to mange both the solution. It will help in easy configuration and management from operational perspective. Suggested Clause: Centralized manager should be provided to manage SSL and SLB from single management	As per RFP.

S.No.	RFP Page No.	RFP Rule No.		Query/ Suggestion/ Clarification Query/ Suggestion/ Clarification	Remark
3.NO.	-		Rule Details	7 30	
4	Page 49 of 71	B. Server Load Balancer	Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1	There should be dedicated Console Port of RJ45 should be considered like dedicated	As per Revised RFP.
		S.N. 2	Device L4 Throughput: 150 Gbps and scalable upto 200 Gbps	management port which has been asked in the RFP. Console Port is used for	
			Layer 4 connections per second: 2.5 Million	troubleshooting.	
			Layer 7 requests per second: 4 Million	Appliance should not be oversized, scalability should be consider.	
			Concurrent Connections: 180 Million		
			RSA CPS(2K Key): 100,000	Suggested Clause:	
			ECC CPS (EC-P256): 45,000 with TLS1.3 Support	Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1	
			SSL Throughput: 45 Gbps	Device L4 Throughput: 150 Gbps and scalable upto 200 Gbps	
			RAM: 96GB from day-1 and scalable upto 192GB	Layer 4 connections per second: 2.5 Million	
			The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45)	Layer 7 requests per second: 4 Million	
			Out-of band Management Port.	Concurrent Connections: 180 Million	
				RSA CPS(2K Key): 50,000 from day-1 and scalable upto 100,000	
			Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1	ECC CPS (EC-P256): 30,000 from day-1 and scalable upto 45,000 with TLS1.3 Support	
			Device L4 Throughput: Minimum 125 Gbps and scalable upto 200 Gbps	SSL Throughput: 45 Gbps	
			Layer 4 connections per second: 2.5 Milllion	RAM: 96GB from day-1 and scalable upto 192GB	
			Layer 7 requests per second: 4 Million	The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45) Out-of band	
			Concurrent Connections: minimum 150 Million	Management Port along with dedicated RJ45 Console Port.	
			RSA CPS(2K Key): Minimum 50,000 from Day-1		
			ECC CPS (EC-P256): Minimum 30,000 with TLS1.3 Support from Day-1		
			SSL Throughput: 45 Gbps		
			RAM: 96GB from day-1 and scalable upto 192GB		
			The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45)		
			Out-of-band Management Port.		
5	Page 50 of 71	B. Server Load Balancer	New Clause Request	Health checking metrices should be included to check avaiability of the server before	As per RFP.
				forwarding the required request. It will ensure sucessfull transaction.	
				Suggested Clause:	
				Following health checking metrics should be available:	
				• TCP Health Checks,	
				UDP Health Checks, CARD Wealth Checks.	
				• ICMP Health Checks,	
				HTTP/S Health Checks, Check Health Checks,	
				• SNMP Health Check,	
				• FTP Server Health Checks,	
				POP3 Server Health Checks, SMATD Server Health Checks.	
				SMTP Server Health Checks, IMAR Server Health Checks.	
				• IMAP Server Health Checks,	
				RADIUS Server Health Checks, ARR Health Checks	
				ARP Health Checks, DHCP Health Checks,	
				DHCP Health Checks, Script-Based Health Checks,	
6	Page 50 of 71	B. Server Load Balancer	New Clause Request	There should be centralized manager to mange both the solution. It will help in easy	As per RFP.
	1 466 30 01 /1	D. Server Load Balancer	New Clause nequest	configuration and management from operational perspective.	por ni i .
				comparation and management from operational perspective.	
				Suggested Clause:	
				Centralized manager should be provided to manage SSL and SLB from single management	
				Sentianzea manager should be provided to manage social orbit single management.	
7	Page 43 of 71	Payment Terms	85% value of Order Value on Delivery Installation	90% value of order value on Delivery & Installation	As per RFP.
	.0	.,	Remaining 15% of Order Value, in equated instalments payable at end of each	Remaining 10% of order value, in equated installments payable at end of each year or	
			year.	against additional 10% Bank gurantee	
	I	l	Name:	Indament and an anim Day animon	ı

	Response of Queries submitted against RFP for Supply, Installation and Maintenance of SSL Offloader & Server Load Balancer for RSDC (NIB no. F3.3(425)/RISL/Pur/ 2022/6010 Dated: 01.12.2022)							
S.No.	RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification	Remark			
8	Page 46 of 71	A. SSL Offloader S.N. 2	Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1 Device L4 Throughput: 125 Gbps and scalable upto 200 Gbps Layer 4 connections per second: 2.5 Million Layer 7 requests per second: 4 Million Concurrent Connections: 150 Million RSA CPS(2K Key): 50,000 ECC CPS (EC-P256): 30,000 with TLS1.3 Support SSL Throughput: 45 Gbps RAM: 96GB from day-1 and scalable upto 192GB The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45) Out-of-band Management Port.	The 2 out of band management ports will help the department remotely manage and configure the device. In case the primary network goes down troubleshooting will be a challenge. Hence, we recommend that the department also asks for a dedicated RJ-45 console port. Suggested Clause: Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1 Device L4 Throughput: 150 Gbps and scalable upto 200 Gbps Layer 4 connections per second: 2.5 Million Layer 7 requests per second: 4 Million Concurrent Connections: 180 Million RSA CPS(2K Key): 50,000 from day-1 and scalable upto 100,000 ECC CPS (EC-P256): 30,000 from day-1 and scalable upto 45,000 with TLS1.3 Support SSL Throughput: 45 Gbps RAM: 96GB from day-1 and scalable upto 192GB The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45) Out-of-band Management Port along with dedicated RJ45 Console Port.	As per Revised RFP.			
9	Page 48 of 71	A. SSL Offloader	New Clause Request	Health checking metrices should be included to check avaiability of the server before forwarding the required request. It will ensure sucessfull transaction. Suggested Clause: Following health checking metrics should be available: • TCP Health Checks, • UDP Health Checks, • ICMP Health Checks, • SNMP Health Checks, • STPP Server Health Checks, • FTP Server Health Checks, • SMTP Server Health Checks, • SMTP Server Health Checks, • IMAP Server Health Checks, • RADIUS Server Health Checks, • ARP Health Checks, • ARP Health Checks, • DHCP Health Checks, • Script-Based Health Checks,	As per RFP.			
10	Page 48 of 71	A. SSL Offloader	New Clause Request	There should be centralized manager to mange both the solution. It will help in easy configuration and management from operational perspective. Suggested Clause: Centralized manager should be provided to manage SSL and SLB from single management	As per RFP.			

S.No. F	RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification	Remark
11 Pa	ge 49 of 71	B. Server Load Balancer	Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1	The 2 out of band management ports will help the department to remotely manage and	As per Revised RFP.
		S.N. 2	Device L4 Throughput: 150 Gbps and scalable upto 200 Gbps	configure the device. In case the primary network goes down troubleshooting will be a	
			Layer 4 connections per second: 2.5 Milllion	challenge. Hence, we recommend that the department also asks for a dedicated RJ-45	
			Layer 7 requests per second: 4 Million	console port.	
			Concurrent Connections: 180 Million	Appliance should not be oversized, scalability should be consider.	
			RSA CPS(2K Key): 100,000		
			ECC CPS (EC-P256): 45,000 with TLS1.3 Support	Suggested Clause:	
			SSL Throughput: 45 Gbps	Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1	
			RAM: 96GB from day-1 and scalable upto 192GB	Device L4 Throughput: 150 Gbps and scalable upto 200 Gbps	
			•		
			The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet	Layer 4 connections per second: 2.5 Million	
			(RJ45) Out-of band Management Port.	Layer 7 requests per second: 4 Million	
				Concurrent Connections: 180 Million	
				RSA CPS(2K Key): 50,000 from day-1 and scalable upto 100,000	
				ECC CPS (EC-P256): 30,000 from day-1 and scalable upto 45,000 with TLS1.3	
				Support	
				SSL Throughput: 45 Gbps	
				RAM: 96GB from day-1 and scalable upto 192GB	
				The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45)	
				Out-of band Management Port along with dedicated RJ45 Console Port.	
				,	
12 Pa	ge 50 of 71	B. Server Load Balancer	New Clause Request	Health checking metrices should be included to check avaiability of the server before	As per RFP.
	0		1,111	forwarding the required request. It will ensure sucessfull transaction.	
				io rai amg ano roquirou roquesta it iom ensure successium transactioni	
				Suggested Clause:	
				55	
				Following health checking metrics should be available:	
				• TCP Health Checks,	
				• UDP Health Checks,	
				• ICMP Health Checks,	
				• HTTP/S Health Checks,	
				• SNMP Health Check,	
				• FTP Server Health Checks,	
				POP3 Server Health Checks,	
				SMTP Server Health Checks,	
				• IMAP Server Health Checks,	
				RADIUS Server Health Checks,	
				ARP Health Checks,	
				DHCP Health Checks,	
				Script-Based Health Checks,	
13 Pa	ge 50 of 71	B. Server Load Balancer	New Clause Request	There should be centralized manager to mange both the solution. It will help in easy	As per RFP.
				configuration and management from operational perspective.	
				Suggested Clause:	
				55	
				Centralized manager should be provided to manage SSL and SLB from single	
14 D-	go 42 of 71	Clause 7 CDECIAL TERMS AND	1 Cumply & Installation OFO/ value of Order Value	management	As not DED
14 Pa	ge 43 of 71	Clause 7. SPECIAL TERMS AND	1. Supply & Installation- 85% value of Order Value	As the Department has asked for Performance Security Deposit from the bidders and	As per RFP.
		CONDITIONS OF TENDER &	2. Maintenance & Support Services*- Remaining 15% of Order Value, in	considering that this deposit will be retained by the department for the service period.	
		CONTRACT	equated instalments payable at end of each year.	The current payment terms will substantially increase the cost of investment of the	
				partners as OEMs and distributor do not give credit of more than 30 days. As a result of	
				this bidders will be forced to quote higher prices to cover their costs. Hence we request	
				the department to amend the payment term to 100% after supply, installation and UAT	
				etc.	
	ge 43 of 71	Clause 7. SPECIAL TERMS AND	Timelines (T = Date of Work Order) = T+90	T+90. There is a global shortage of semiconductors and siliconchips, which are essential	As per RFP.
15 Pa		1	1		
15 Pa		CONDITIONS OF TENDER &		lin manufacture of these appliances. As a result manufacture and supply from the OEM is	
15 Pa		CONDITIONS OF TENDER & CONTRACT		in manufacture of these appliances. As a result manufacture and supply from the OEM is taking longer than it usually does. Therfore, kindly extend the delibery time	

6.81	DED D N.	pro p. l. M.		intenance of SSL Offloader & Server Load Balancer for RSDC (NIB no. F3.3(425)/RISL/Pur/ 20	
S.No.	RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification	Remark
16	46	Annexure 2 Technical	Traffic Ports support: Minimum 4 x 40G QSFP+, Minimum 8 x 10G SFP+ from	Please make highlighted changes for F5 Participation.	As per Revised RFP.
		Specification SSL offloader	day-1	40G ports should be scalable to 100Gig ports with change of transcievers only. This will	
			Device L4 Throughput: Minimum 125 Gbps to Maximum 200 Gbps	eliminate change of hardware while upgrading the network to 100Gig in next 5-7 Years.	
			Layer 4 connections per second: Minimum 1.5 Milllion and scalable upto 2.5	SSL offloader with 50Gbps SSL throughput will not required more then 80Gbps L4/L7	
			Million	throughput.	
			Layer 7 requests per second: Minimum 3.8 Million	We recomend RSA CPS(2K Key) and ECC CPS (EC-P256) should be higher as this is one of the	
			Concurrent Connections: Minimum 125 Million	key feature in SSL Offloader to perfom as current asked RSA CPS(2K Key) and ECC CPS (EC-	
			RSA CPS(2K Key): Minimum 50,000	P256) numbers in RFP are at lower side in RSDC Environment. All SSL traffic from across	
			ECC CPS (EC-P256): Minimum 30,000 with TLS1.3 Support	data center will be off loading through this device	
			SSL Throughput: Minimum 45 Gbps	Please modify the no. of L4 connections and concurrent contections as per new	
			RAM: Minimum 96GB	throughput.	
			The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45)		
			Out-of-band Management Port. The appliance should have 1x Rj45 for console	Traffic Ports support: 2 x 40G/100G QSFP+, 8 x 10G SFP+ from day-1	
			port.	Device L4 Throughput: 80 Gbps from day 1	
				Minimum Layer 4 connections per second: 1.5 Milllion	
				Minimum Layer 7 requests per second: 4 Million	
				Minimum Concurrent Connections: 80 Million	
				RSA CPS(2K Key): 100,000	
				ECC CPS (EC-P256): 65,000 with TLS1.3 Support	
				SSL Throughput: 50 Gbps and compression throughput of 40 Gbps	
				RAM: 128GB from day-1	
				The appliance should have dedicated 1 x 10/100/1000 Copper Ethernet (RJ45) Out-of-band	
				Management Port. The appliance should have 1x Rj45 for console port.	
17	SSL Offloader	Annexure 2 Technical	The proposed appliance should support the below metrics:	Please allow Similar or equivalent feature metrics for broader participation	As per Revised RFP.
		Specification SSL offloader	— Hash,		
			— Weighted Hash,	The proposed appliance should support the below or similar metrics:	
			— Least Connections,	— Hash,	
			— Least Connections Per Service, — Round-Robin,	— Weighted Hash,	
			— Response Time,	— Least Connections,	
			— Bandwidth, et	— Least Connections Per Service, — Round-Robin,	
				— Response Time,	
				— Bandwidth, et	
18	SSL Offloader	Annexure 2 Technical	Following Topologies should be supported:	Virtual Matrix Architecture feature is specific to one OEM. Kindly remove this clause.	As per Revised RFP.
		Specification SSL offloader	Virtual Matrix Architecture		
			Client Network Address Translation (Proxy IP) Mapping Ports	Following Topologies should be supported:	
			Direct Server Return	Client Network Address Translation (Proxy IP)	
			One Arm Topology Application	Mapping Ports	
			Direct Access Mode	Direct Server Return	
			Assigning Multiple IP Addresses	One Arm Topology Application	
			Immediate and Delayed Binding	Direct Access Mode	
			- inimediate and belayed binding	Assigning Multiple IP Addresses	
				Immediate and Delayed Binding	
1					1

S.No.	RFP Page No.	RFP Rule No.	Rule Details	intenance of SSL Offloader & Server Load Balancer for RSDC (NIB no. F3.3(425)/RISL/Pur/ 20 Query/ Suggestion/ Clarification	Remark
19	SSL Offloader	Annexure 2 Technical	The proposed device should have Hypervisor (should not use Open Source)	, n 60 .	As per Revised RFP.
13	33L Officader	Specification SSL offloader	Based Virtualization feature that virtualizes the Device resources—including	with minimum 4-8GB RAM. We can only create 8 to 16 virtual instances with availble	As per neviseu ni r.
		Specification 352 officader	CPU, memory, network, and acceleration resources.	appliance resources. Kindly modify the clause for F5 participation.	
			The Hypervisor used to virtualize the hardware should be a specialized	appliance resources. Kindly mounty the clause for 15 participation.	
			purpose build hypervisor and NOT a commercially available hypervisor (like	The proposed device should have Hypervisor (should not use Open Source) Based	
			XEN, VMware, KVM etc.). Each Virtual Instance contains a complete and	Virtualization feature that virtualizes the Device resources—including CPU, memory,	
			separated environment of the Following:	network, and acceleration resources.	
			a) Resources,	The Hypervisor used to virtualize the hardware should be a specialized purpose build	
			b) Configurations,	hypervisor and NOT a commercially available hypervisor (like XEN, VMware,KVM etc.). Each	
			c) Management,	Virtual Instance contains a complete and separated environment of the Following:	
			d) Operating System	a) Resources,	
			The proposed device should support 5 Virtual Instance from Day 1 and	b) Configurations,	
			scalable upto 50 Virtual Instances. It should NOT use Open Source/3rd party	, , ,	
			Network Functions.	d) Operating System	
			inetwork runctions.	The proposed device should support 8 Virtual Instance from Day 1 and scalable upto 16	
				Virtual Instances. It should NOT use Open Source/3rd party Network Functions.	
				virtual instances. It should NOT use Open Source/Sid party Network Functions.	
20	SSL Offloader	Annexure 2 Technical	The Proposed Appliance should support Standalone as well as Virtualized	Kindly modify this clause and Bandwidth Mangement is a feature come in SDWAN or Wan	As per Revised RFP.
20	33E Officade	Specification SSL offloader	Mode (Bidder may ask to demonstrate the feature). The proposed Hardware	optimisation solution. Kindly remove this clause its specific to one OEM.	As per neviseu (i i i
		Specification 352 officade:	must have Bandwidth Mangement feature from Day 1	by anniation solution. Annaly remove this clause its specific to one obtain	
			That have bandwidth Mangement reactive from buy 1	The Proposed Appliance should support all CPU/vCPU allocated to one virtual instance as	
				well as Virtualized multiple instance(Bidder may ask to demonstrate the feature).	
				Well as virtualized mattiple instance(stade) may ask to demonstrate the reature).	
21	SSL Offloader	Annexure 2 Technical	The proposed device should support standard VRRP (RFC - 2338) or equivalent	Every OEM uses its own technology and terminology to achieve high availability. Security	As per Revised RFP.
	ooz omoude.	Specification SSL offloader	for High Availability purpose (no proprietary protocol).	solution need sync for HA with same OEM Solution. So that session, connections,	To per herised him.
		Specification 552 officade.	los riigii / transame, par pose (no proprietar) protocos).	configurations can be sync in HA devices. Kindly modify clause for better clarity and right	
				Isolution.	
				The proposed device should support standard VRRP (RFC - 2338) or equivalent for High	
				Availability purpose	
22	SSL Offloader	additional points for better robust	The Proposed SSL Visibility Solution should support the ability to decrypt once	SSL offloader will offload SSL encrptions and decryption from other security solution and	As per RFP.
		solution	and feed many active inline and passive security solutions and re-encrypt the	feed clear traffic to security solution for checking security parameters.	
			traffic before transimitting it on the network.	The state of the s	
23	SSL Offloader	additional points for better robust	Offered solution should be EAL or NDPP (Network Device Protection Profile)	Security compliance for security solution is required. Kindly add EAL/NDcPP certification on	As per RFP.
		solution	certified under Common Criteria Program for security related functions	hardware or software for purposed solutions.	
			The second of th	The second secon	

			Response of Queries submitted against RFP for Supply, Installation and Ma	aintenance of SSL Offloader & Server Load Balancer for RSDC (NIB no. F3.3(425)/RISL/Pur/ 20	22/6010 Dated: 01.12.2022)
S.No.	RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification	Remark
24	RFP Page No. Load Balancer	RFP Rule No. Annexure 2 Technical Specification Load Balancer	Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1 Device L4 Throughput: 150 Gbps and scalable upto 200 Gbps Layer 4 connections per second: 2.5 Million Layer 7 requests per second: 4 Million Concurrent Connections: 180 Million RSA CPS(2K Key): 100,000 ECC CPS (EC-P256): 45,000 with TLS1.3 Support SSL Throughput: 45 Gbps RAM: 96GB from day-1 and scalable upto 192GB The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45) Out-ofband Management Port.	Please make highlighted changes for F5 Participation. 40G ports should be scalable to 100Gig ports with change of transcievers only. This will eliminate change of hardware while upgrading the network to 100Gig in next 5-7 Years. SLB with 50Gbps SSL throughput will not required more then 80Gbps L4/L7 throughput. Please modify the no. of L4 and L7 connections and concurrent contections as per new throughput. Traffic Ports support: 2 x 40G/100G QSFP+, 8 x 10G SFP+ from day-1 Device L4 Throughput: 80 Gbps from day 1 Minimum Layer 4 connections per second: 1.5 Milllion Minimum Layer 7 requests per second: 4 Million Minimum Concurrent Connections: 80 Million RSA CPS(2K Key): 100,000 ECC CPS (EC-P256): 65,000 with TLS1.3 Support SSL Throughput: 50 Gbps and compression throughput of 40 Gbps RAM: 128GB from day-1 The appliance should have dedicated 1 x 10/100/1000 Copper Ethernet (RJ45) Out-of-band Management Port.The appliance should have 1x Rj45 for console port.	As per Revised RFP.
25	Load Balancer	Annexure 2 Technical Specification Load Balancer	The proposed appliance should support the below metrics: — Hash, — Weighted Hash, — Least Connections, — Least Connections Per Service, — Round-Robin, — Response Time, — Bandwidth, et	Please allow Similar or equivalent feature metrics for broader participation The proposed appliance should support the below or similar metrics: — Hash, — Weighted Hash, — Least Connections, — Least Connections Per Service, — Round-Robin, — Response Time, — Bandwidth, et	As per Revised RFP.
26	Load Balancer	Annexure 2 Technical Specification Load Balancer	Following Topologies should be supported: • Virtual Matrix Architecture • Client Network Address Translation (Proxy IP) • Mapping Ports • Direct Server Return • One Arm Topology Application • Direct Access Mode • Assigning Multiple IP Addresses • Immediate and Delayed Binding	Virtual Matrix Architecture feature is specific to one OEM. Kindly remove this clause. Following Topologies should be supported: Client Network Address Translation (Proxy IP) Mapping Ports Direct Server Return One Arm Topology Application Direct Access Mode Assigning Multiple IP Addresses Immediate and Delayed Binding	As per Revised RFP.

	Response of Queries submitted against RFP for Supply, Installation and Maintenance of SSL Offloader & Server Load Balancer for RSDC (NIB no. F3.3(425)/RISL/Pur/ 2022/6010 Dated: 01.12.2022)						
S.No.	RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification	Remark		
27	Load Balancer	Annexure 2 Technical	The proposed device should have Hypervisor (should not use Open Source)	Please modify the required Virtual instance in Appliance.if we provision virtual instance	As per Revised RFP.		
		Specification Load Balancer	Based Virtualization feature that virtualizes the Device resources—including	with minimum 4-8GB RAM. We can only create 8 to 16 virtual instances with availble			
			CPU, memory, network, and acceleration resources.	appliance resources. Kindly modify the clause for F5 participation.			
			The Hypervisor used to virtualize the hardware should be a specialized				
			purpose build hypervisor and NOT a commercially available hypervisor (like	The proposed device should have Hypervisor (should not use Open Source) Based			
			XEN, VMware,KVM etc.). Each Virtual Instance contains a complete and	Virtualization feature that virtualizes the Device resources—including CPU, memory,			
			separated environment of the Following:	network, and acceleration resources.			
			a) Resources,	The Hypervisor used to virtualize the hardware should be a specialized purpose build			
			b) Configurations,	hypervisor and NOT a commercially available hypervisor (like XEN, VMware, KVM etc.). Each			
			c) Management,	Virtual Instance contains a complete and separated environment of the Following:			
			d) Operating System	a) Resources,			
			The proposed device should support 5 Virtual Instance from Day 1 and	b) Configurations,			
			scalable upto 50 Virtual Instances. It should NOT use Open Source/3rd party	c) Management,			
			Network Functions.	d) Operating System			
				The proposed device should support 8 Virtual Instance from Day 1 and scalable upto 16			
				Virtual Instances. It should NOT use Open Source/3rd party Network Functions.			
28	Load Balancer	Annexure 2 Technical	The Proposed Solution must have Global Server Load Balancing supported on	In order to swtich over the applications traffic like web app, email app etc. the GSLB	As per RFP.		
		Specification Load Balancer	the same appliance	solution must understand all types of DNS records and not just A or AAAA.Kindly add			
				following functionality for complete Solution.			
				The Proposed Solution must have Global Server Load Balancing and should be able to host			
				SRV Records, AAAA Records, A, PTR, MX, TXT, SOA, NS, Dname, Dmarc Records and should			
				also support DNSSEC			
29	Load Balancer	Annexure 2 Technical	The Proposed Appliance should support Standalone as well as Virtualized	Kindly modify this clause and Bandwidth Mangement is a feature come in SDWAN or Wan	As per Revised RFP.		
		Specification Load Balancer	Mode (Bidder may ask to demonstrate the feature). The proposed Hardware	optimisation solution. Kindly remove this clause its specific to one OEM.			
			must have Bandwidth Mangement feature from Day 1				
				The Proposed Appliance should support all CPU/vCPU alocated to one virtual instance as			
				well as Virtualized multiple instance(Bidder may ask to demonstrate the feature).			
30	Load Balancer	Annexure 2 Technical	The proposed device should support standard VRRP (RFC - 2338) or equivalent	Every OEM uses its own technology and terminology to achieve high availability. Security	As per Revised RFP.		
		Specification Load Balancer	for High Availability purpose (no proprietary protocol).	solution need sync for HA with same OEM Solution. So that session, connections,			
				configurations can be sync in HA devices. Kindly modify clause for better clarity and right			
				solution.			
				The proposed device should support standard VRRP (RFC - 2338) or equivalent for High			
				Availability purpose			
31	Load Balancer	additional points for better robust	Offered solution should be EAL or NDPP (Network Device Protection Profile)	Security compliance for security solution is required. Kindly add EAL/NDcPP certification on	As per RFP.		
		solution	certified under Common Criteria Program for security related functions	hardware or software for purposed solutions.			

S.No.	RFP Page No.	RFP Rule No.	Rule Details	aintenance of SSL Offloader & Server Load Balancer for RSDC (NIB no. F3.3(425)/RISL/Pur/ 20 Query/ Suggestion/ Clarification	Remark
32	46	ANNEXURE-2: TECHNICAL	Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1	In this specification all the mentioned parameters like Traffic ports support, L4	As per Revised RFP.
-		SPECIFICATIONS - SSL Off Loader-	Device L4 Throughput: 125 Gbps and scalable upto 200 Gbps	throughput, Layer4 CPS, etc. favoring to the single OEM. Refer to the below link:	
		Sr. No. 2	Layer 4 connections per second: 2.5 Million	https://www.radware.com/getattachment/20afc5d0-64de-422f-b51e-	
		55. 2	Layer 7 requests per second: 4 Million	dd7f64cce619/Alteon_Master_TechSpec_Oct2022.pdf.aspx	
			Concurrent Connections: 150 Million	(page no 3 and model (Alteon D-7220S)	
			RSA CPS(2K Key): 50,000	It suggested to amend the clause as "Traffic Ports support: 4 x 40G QSFP+, 8 x 10G SFP+	
			ECC CPS (EC-P256): 30,000 with TLS1.3 Support	from day 1	
			SSL Throughput: 45 Gbps	Device L4 Throughput: 125 Gbps and scalable upto 200 Gbps	
			RAM: 96GB from day-1 and scalable upto 192GB The appliance should have dedicated 3 v 10/100/1000 Connex Ethernet (BLAE)	Layer 4 connections per second: 5 Million	
			The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45)		
			Out-of-band Management Port.	Concurrent Connections: 150 Million	
				RSA CPS(2K Key): 100,000	
				ECC CPS (EC-P256): 60,000 with TLS1.3 Support	
				SSL Throughput: 45 Gbps	
				RAM: 96GB from day-1 and scalable upto 192GB	
				The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45) Out-of-band	
				Management Port"	
\vdash					
33	47	ANNEXURE-2: TECHNICAL	Following Topologies should be supported:	Some of the mentioned terms are vendor-specific and not industry-standard terms i.e.	As per Revised RFP.
		SPECIFICATIONS - SSL Off Loader-	Virtual Matrix Architecture	direct access mode, Mapping ports, so it suggested to amend the clause	
		Sr. No. 8	Client Network Address Translation (Proxy IP)	" Following Topologies should be supported:	
			Mapping Ports	Virtual Matrix Architecture	
			Direct Server Return	Client Network Address Translation (Proxy IP)	
			One Arm Topology Application	Mapping Ports/equivalent	
			Direct Access Mode	Direct Server Return	
			Assigning Multiple IP Addresses	One Arm Topology Application	
			Immediate and Delayed Binding	Direct Access Mode/equivalent	
				Assigning Multiple IP Addresses	
				Immediate and Delayed Binding"	
34	48	ANNEXURE-2: TECHNICAL	OEM should be present in Leader Quadrant in latest published report for	As per the guidelines from MoUD and MEITY, third party reports should not be used to	As per RFP.
		SPECIFICATIONS - SSL Off Loader-	Gartner MQ for ADC. {please attach Gartner report}	restrict participation of vendors. We request you to refer DIPP and moD guide lines too for	
		Sr. No. 21		Make In India products.It is suggested to amend the clause "OEM should be present in	
				Leader Quadrant in latest published report for Gartner MQ/Make in India for ADC."	
35	48	ANNEXURE-2: TECHNICAL	The proposed device should have Hypervisor (should not use Open Source)	Generally asked scalability upto two times or three times to meet the future requirement	As per Revised RFP.
		SPECIFICATIONS - SSL Off Loader-	Based Virtualization feature that virtualizes the Device resources—including	but in the specification, you have asked the scalability of virtual instance upto 10 times. It	
		Sr. No. 9	CPU, memory, network, and acceleration resources.	suggested to amend the clause " The proposed device should have Hypervisor (should not	
			The Hypervisor used to virtualize the hardware should be a specialized	use Open Source) Based Virtualization feature that virtualizes the Device	
			purpose build hypervisor and NOT a commercially available hypervisor (like	resources—including CPU, memory, network, and acceleration resources.	
			XEN, VMware,KVM etc.). Each Virtual Instance contains a complete and	The Hypervisor used to virtualize the hardware should be a specialized purpose build	
			separated environment of the Following:	hypervisor and NOT a commercially available hypervisor (like XEN, VMware, KVM etc.). Each	
			a) Resources,	Virtual Instance contains a complete and separated environment of the Following:	
			b) Configurations,	a) Resources,	
			c) Management,	b) Configurations,	
			d) Operating System	c) Management,	
			The proposed device should support 5 Virtual Instance from Day 1 and	d) Operating System	
			scalable upto 50 Virtual Instances. It should NOT use Open Source/3rd party	The proposed device should support 5 Virtual Instance from Day 1 and scalable upto 24	
			Network Functions.	Virtual Instances. It should NOT use Open Source/3rd party Network Functions. "	
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S.No.	RFP Page No.	RFP Rule No.	Rule Details	aintenance of SSL Offloader & Server Load Balancer for RSDC (NIB no. F3.3(425)/RISL/Pur/ 20 Query/ Suggestion/ Clarification	Remark
36	49	ANNEXURE-2: TECHNICAL SPECIFICATIONS -Server Load	Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1 Device L4 Throughput: 150 Gbps and scalable upto 200 Gbps	In this specification all the mentioned parameters like Traffic ports support, L4 throughput, Layer4 CPS, etc. favoring to the single OEM. Refer to the below link:	As per Revised RFP.
		Balancer- Sr. No. 2	Layer 4 connections per second: 2.5 Million	https://www.radware.com/getattachment/20afc5d0-64de-422f-b51e-	
		Balancer 31. No. 2	Layer 7 requests per second: 4 Million Concurrent	dd7f64cce619/Alteon_Master_TechSpec_Oct2022.pdf.aspx	
			Connections: 180 Million RSA CPS(2K Key): 100,000	(page no 3 and model (Alteon D-7220S)	
			ECC CPS (EC-P256): 45,000 with TLS1.3 Support	It suggested to amend the clause as "Traffic Ports support: 4 x 40G QSFP+, 8 x 10G SFP+	
			SSL Throughput: 45 Gbps	from day 1	
			RAM: 96GB from day-1 and scalable upto 192GB	Device L4 Throughput: 125 Gbps and scalable upto 200 Gbps	
			The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45)	Layer 4 connections per second: 5 Million	
			Out-of- band Management Port.	Layer 7 requests per second: 10 Million	
				Concurrent Connections: 150 Million	
				RSA CPS(2K Key): 100,000	
				ECC CPS (EC-P256): 60,000 with TLS1.3 Support	
				SSL Throughput: 45 Gbps	
				RAM: 96GB from day-1 and scalable upto 192GB	
				The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45) Out-of-band	
				Management Port"	
37	49	ANNEXURE-2: TECHNICAL	Following Server Load Balancing Topologies should be supported:	Some of the mentioned terms are vendor-specific and not industry-standard terms i.e.	As per Revised RFP.
37	49	SPECIFICATIONS -Server Load	Virtual Matrix Architecture	direct access mode, Mapping ports, so it suggested to amend the clause	As per Reviseu RFP.
		Balancer- Sr. No. 7	Client Network Address Translation (Proxy IP)	" Following Server Load Balancing Topologies should be supported:	
		Balancer 31. No. 7	Mapping Ports	Virtual Matrix Architecture	
			Direct Server Return	Client Network Address Translation (Proxy IP)	
			One Arm Topology Application	Mapping Ports/equivalent	
			Direct Access Mode	Direct Server Return	
			Assigning Multiple IP Addresses	One Arm Topology Application	
			Immediate and Delayed Binding	Direct Access Mode/equivalent	
				Assigning Multiple IP Addresses	
				Immediate and Delayed Binding"	
38	50	ANNEXURE-2: TECHNICAL	The proposed device should have Hypervisor (should not use Open Source)	Generally asked scalability upto two times or three times to meet the future requirement	As per Revised RFP.
		SPECIFICATIONS -Server Load	Based Virtualization feature that virtualizes the Device resources—including	but in the specification, you have asked the scalability of virtual instance upto 10 times. It	
		Balancer- Sr. No. 9	CPU, memory, network, and acceleration resources.	suggested to amend the clause "The proposed device should have Hypervisor (should not	
			The Hypervisor used to virtualize the hardware should be a specialized	use Open Source) Based Virtualization feature that virtualizes the Device	
			purpose build hypervisor and NOT a commercially available hypervisor (like	resources—including CPU, memory, network, and acceleration resources.	
			XEN, VMware, KVM etc.).	The Hypervisor used to virtualize the hardware should be a specialized purpose build	
			Each Virtual Instance contains a complete and separated environment of the Following:	hypervisor and NOT a commercially available hypervisor (like XEN, VMware,KVM etc.). Each Virtual Instance contains a complete and separated environment of the Following:	
			a) Resources,	a) Resources,	
			b) Configurations,	b) Configurations,	
			c) Management,	c) Management,	
			d) Operating System	d) Operating System	
			The proposed device should support 5 Virtual Instance from Day 1 and	The proposed device should support 5 Virtual Instance from Day 1 and scalable upto 24	
			scalable upto 50 Virtual Instances. It should NOT use Open Source/3rd party	Virtual Instances. It should NOT use Open Source/3rd party Network Functions. "	
			Network Functions.		

	Response of Queries submitted against RFP for Supply, Installation and Maintenance of SSL Offloader & Server Load Balancer for RSDC (NIB no. F3.3(425)/RISL/Pur/ 2022/6010 Dated: 01.12.2022)						
S.No.	RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification	Remark		
39	11	3 of Clause No. 4	Technical Capability (1) The bidder must have successfully completed or partial completed with requisite amount, one project of supply and installation of IT Hardware infra and Maintenance of value not less than the amount of Rs. 3 Crore in India during the period from 01/04/2018 onwards. OR (2) The bidder must have successfully completed or partial completed with requisite amount, maximum of two project of supply and installation of IT Hardware infra and Maintenance of value or combined value not less than the amount of Rs. 4 Crores in India during the period from 01/04/2018 onwards.	Technical Capability (1) The bidder must have successfully completed or partial completed with requisite amount, one project of supply and installation of IT Hardware infra and Maintenance of value not less than the amount of Rs. 2 Crore in India during the period from 01/04/2018 onwards.	As per RFP.		
40	43	7 of Clause No. 1	Payment Terms and Schedule 1. Supply & Installation: 85% value of Order Value 2. Maintenance & Support Services*: Remaining 15% of Order Value, in equated instalments payable at end of each year.	Payment Terms and Schedule 1. Supply & Installation: 90% value of Order Value 2. Maintenance & Support Services*: Remaining 10% of Order Value, in equated instalments payable at end of each year.	As per RFP.		
41	43	Payment Terms and Schedule	85% value of Order Value Remaining 15% of Order Value, in equated instalments payable at end of each year.	Request to release 90% against delivery & Installtion. Remaining 10% against submission of Bank Guarntee of equivalent amount. Pls. remove yearly equated payable since SI has to pay OEM upfront for 5 Year. This will increase overall estimated cost of the project.	As per RFP.		
42	Page 46 of 71	A. SSL Offloader S.N. 2	Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1 Device L4 Throughput: 125 Gbps and scalable upto 200 Gbps Layer 4 connections per second: 2.5 Million Layer 7 requests per second: 4 Million Concurrent Connections: 150 Million RSA CPS(2K Key): 50,000 ECC CPS (EC-P256): 30,000 with TLS1.3 Support SSL Throughput: 45 Gbps RAM: 96GB from day-1 and scalable upto 192GB The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45) Out-of-band Management Port.	There should be dedicated Console Port of RJ45 should be considered like dedicated management port which has been asked in the RFP. Console Port is used for troubleshooting. Sufficient capacity along with Scalability should be also be considerd. Suggested Clause: Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1 Device L4 Throughput: 150 Gbps and scalable upto 200 Gbps Layer 4 connections per second: 2.5 Milllion Layer 7 requests per second: 4 Million Concurrent Connections: 180 Million RSA CPS(2K Key): 50,000 from day-1 and scalable upto 100,000 ECC CPS (EC-P256): 30,000 from day-1 and scalable upto 45,000 with TLS1.3 Support SSL Throughput: 45 Gbps RAM: 96GB from day-1 and scalable upto 192GB The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45) Out-of-band Management Port along with dedicated RJ45 Console Port.	As per Revised RFP.		

	Response of Queries submitted against RFP for Supply, Installation and Maintenance of SSL Offloader & Server Load Balancer for RSDC (NIB no. F3.3(425)/RISL/Pur/ 2022/6010 Dated: 01.12.2022)							
S.No	. RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification	Remark			
43	Page 48 of 71	A. SSL Offloader	New Clause Request	Health checking metrices should be included to check avaiability of the server before	As per RFP.			
				forwarding the required request. It will ensure sucessfull transaction.				
				Suggested Clause:				
				Following health checking metrics should be available:				
				• TCP Health Checks,				
				• UDP Health Checks,				
				• ICMP Health Checks,				
				HTTP/S Health Checks,				
				• SNMP Health Check,				
				• FTP Server Health Checks,				
				POP3 Server Health Checks,				
				• SMTP Server Health Checks,				
				IMAP Server Health Checks,				
				RADIUS Server Health Checks,				
				ARP Health Checks,				
				DHCP Health Checks,				
				Script-Based Health Checks,				
44	Page 48 of 71	A. SSL Offloader	New Clause Request	There should be centralized manager to mange both the solution. It will help in easy	As per RFP.			
				configuration and management from operational perspective.				
				Suggested Clause:				
				Centralized manager should be provided to manage SSL and SLB from single management				
45	Page 49 of 71	B. Server Load Balancer	Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1	There should be dedicated Console Port of RJ45 should be considered like dedicated	As per Revised RFP.			
		S.N. 2	Device L4 Throughput: 150 Gbps and scalable upto 200 Gbps	management port which has been asked in the RFP. Console Port is used for				
			Layer 4 connections per second: 2.5 Milllion	troubleshooting.				
			Layer 7 requests per second: 4 Million	Appliance should not be oversized, scalability should be consider.				
			Concurrent Connections: 180 Million					
			RSA CPS(2K Key): 100,000	Suggested Clause:				
			ECC CPS (EC-P256): 45,000 with TLS1.3 Support	Traffic Ports support: 6 x 40G QSFP+, 12 x 10G SFP+ from day-1				
			SSL Throughput: 45 Gbps	Device L4 Throughput: 150 Gbps and scalable upto 200 Gbps				
			RAM: 96GB from day-1 and scalable upto 192GB	Layer 4 connections per second: 2.5 Million				
			The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45)	Layer 7 requests per second: 4 Million				
			Out-of band Management Port.	Concurrent Connections: 180 Million				
	1			RSA CPS(2K Key): 50,000 from day-1 and scalable upto 100,000				
	1			ECC CPS (EC-P256): 30,000 from day-1 and scalable upto 45,000 with TLS1.3 Support				
				SSL Throughput: 45 Gbps				
	1			RAM: 96GB from day-1 and scalable upto 192GB				
				The appliance should have dedicated 2 x 10/100/1000 Copper Ethernet (RJ45) Out-of band				
				Management Port along with dedicated RJ45 Console Port.				

S.No.	RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification	Remark
		B. Server Load Balancer	New Clause Request	Health checking metrices should be included to check availability of the server before	As per RFP.
40	Page 50 01 71	b. Server Load Balancer	New Clause Request	forwarding the required request. It will ensure successfull transaction.	As per nrr.
				Suggested Clause:	
				Following health checking metrics should be available:	
				• TCP Health Checks,	
				• UDP Health Checks,	
				• ICMP Health Checks,	
				• HTTP/S Health Checks,	
				• SNMP Health Check,	
				• FTP Server Health Checks,	
				POP3 Server Health Checks,	
				• SMTP Server Health Checks,	
				• IMAP Server Health Checks,	
				RADIUS Server Health Checks,	
				ARP Health Checks,	
				DHCP Health Checks,	
				Script-Based Health Checks,	
47	Page 50 of 71	B. Server Load Balancer	New Clause Request	There should be centralized manager to mange both the solution. It will help in easy	As per RFP.
				configuration and management from operational perspective.	
				Suggested Clause:	
				Centralized manager should be provided to manage SSL and SLB from single management	
48	33	23) Samples	Samples	Request to remove this clause.	As per RFP.
40	33	25) Sumples	a) When notified by the Purchaser to the supplier/ bidder/ selected bidder,	nequest to remove this clause.	7.5 pc. 10.1.
			Bids for articles/ goods marked in the BoM1 shall be accompanied by four sets		
			of samples of the articles quoted properly packed. Such samples if submitted		
			personally will be received in the office. A receipt will be given for each sample		
			by the officer receiving the samples. Samples if sent by train, etc., should be		
			despatched freight paid and the R/R or G.R. should be sent under a separate		
			registered cover. Samples for catering/ food items should be given in a plastic		
			box or in polythene bags at the cost of the bidder.		
			b) Each sample shall be marked suitably either by written on the sample or on		
			a slip of durable paper securely fastened to the sample, the name of the		
			bidder and serial number of the item, of which it is a sample in the schedule.		
49	43	7. SPECIAL TERMS AND	1. Supply & Installation	Request for corrigendum as	As per RFP.
		CONDITIONS OF TENDER &	Delivery Challan for ordered items	1. @90% on Supply of material	
		CONTRACT	Installation Report	Delivery Challan for ordered items	
			OEM Warranty Certificates		
			Support Escalation matrix document	T+ 90	
			Request for UAT	90% value of Order Value	
			T+ 60	Its resulting in competitive participation thus reducing overall project cost	
	42	7 CDECIAL TERMS AND	85% value of Order Value	Decrease for a series and one as	As any DED
50	43	7. SPECIAL TERMS AND	85% value of Order Value Remaining 15% of Order Value, in equated	Request for corrigendum as	As per RFP.
		CONDITIONS OF TENDER &	instalments payable at end of each year.	2. @10% after installation and UAT	
		CONTRACT		2. @ 10% after installation and OAT	
				Sir, Bidder is submitting PBG as per security amount. Its resulting in competitive	
				participation thus reducing overall project cost	
				participation thas reducing overall project cost	
	I .	I		I	