

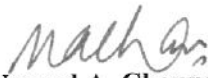
EVALUATION REPORT
(As Per Rule 35 of PP Rules, 2004)

1. Name of Procuring Agency: HQ NADRA Islamabad
2. Method of Procurement: Single Stage Two Envelope Method
3. Title of Procurement: Purchase of Switches
4. Tender Inquiry No.: 106/2022
5. PPRA Ref. No. (TSE): TS483203E
6. Date & Time of Bid Closing: 27th June, 2022 At 11:00 hrs
7. Date & Time of Bid Opening: 27th June, 2022, At 11:30 hrs
8. No of Bids Received: 02x Bids
9. Criteria for Bid Evaluation: As per Eligibility & Technical Evaluation Criteria Mentioned in Tender Documents
10. Details of Bid(s) Evaluation: As under:-

Name of Bidder	Marks		Evaluated Cost	Rule/Regulation/SBD*/Policy/ Basis for Rejection / Acceptance as per Rule 35 of PP Rules, 2004.
	Technical (if applicable)	Financial (if applicable)		
M/s Tech Avenue	Qualified	Only Technical qualification was required	Rs.3,495,925/-	Bids of two firms i.e. M/s Tech Avenue and M/s Wateen Solutions were received and were technically qualified. Financial bids of the technically qualified firms were opened on 11 th August, 2022. As per financial Evaluation M/s Wateen Solutions was found most advantageous bidder. Technical Evaluation Report is attached as annexure "A".
M/s Wateen Solutions	Qualified		Rs.2,329,089/-	

Most Advantageous Bidder: M/s Wateen Solutions





11. Any other additional / supporting information, the procuring agency may like to share. Nil


Naveed A. Channa
Head of Department
NADRA Procurement
Dated: 6 August, 2022

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Technical Evaluation For Purchase of Switches (Tender # 106 / 2022)

SN	Requirement	Compliance (Fully-Comply/Not-Comply)	Document Reference	M/s Tech Avenue (Ruckus Switch ICX 7450 - QTY = 02), 48 port 1 GbE switch, 3 modular slots for optional uplinks/stacking. Power supply fan & modules need to be ordered separately (QTY=2), ICX 7450 4-port 1/10GbE SFP+ Module (QTY=4), ICX 7450 4-port 1/10GbE SFP+ Module (for Stacking) (QTY=2), ICX6610/7450/7650 NON-POE 250W AC PSU, exhaust airflow, front to back airflow (QTY=4), ICX 7450 exhaust airflow fan, front to back airflow (two fans required when using two power supplies) (QTY=4), 10GbE Direct Attach SFP+ to SFP+ Cable (QTY=2), Console cable (QTY=2), 10GBASE-SR, SFP+ optic (LC), target range 300m over MMF Standard (QTY=16), WatchDog Next Business Day Support for 3 years, ICX 7450 24p & 48p configurations (QTY=2)		M/s Wateen Solutions (CloudEngine S5731-H48T4XC, QTY = 2), S5731-H48T4XC(48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 1*expansion slot, without power module)(QTY=2), Interface Card with 8*10GE SFP+ or 2*25GE SFP28 ports(only ports 1 and 2 support 25GE)(QTY=2), S57XX-H Series Basic SW Per Devices)(QTY=2), 600W AC Power Module (Back to Front, Power Panel Side Exhaust)(QTY=4), 10G SFP+ High Speed stack cable-1.5m)(QTY=2), 10GBase-USR Optical Transceiver, SFP+, 10G, Multi-Mode Module (850nm, 0.1km, LC)(QTY=24), S5731-H48T4XC (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 1*expansion slot, without power module), Co-Care Standard S5731-H48P4XC, 36Months) 3 Years NBD Warranty and Support from Principal)(QTY=2)	
				Compliance (Fully-Comply/Not-Comply)	Document Reference	Compliance (Fully-Comply/Not-Comply)	Document Reference
1	Manageable	Yes	Fully Comply	Page 10	Fully Comply	Manageable Switch (https://info.support.huawei.com/info-finder/search-center/en/enterprise/switches/CloudEngine-S5731-H48T4XC-pid-250387190/speccenter/interface/) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022) (Support 1x Management port)	
2	Modular Uplinks	Yes	Fully Comply	Page 2	Fully Comply	Modular Uplink Supported (S5731-H Series Switches Datasheet Page-2) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
3	Layer-2	Yes	Fully Comply	Page 8	Fully Comply	Layer 2 functions included (S5731-H Series Switches Datasheet Page 10) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022) (Transparent Transmission of Layer 2 Protocol Packets)	
4	Stackable Switch with Stack Cable	Yes	Fully Comply	Page-1	Fully Comply	Intelligent Stack with stacking cables (S5731-H Series Switches Datasheet Page-8) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022) (iStack with upto 9 Member switches in a stack)	
Interfaces				Interfaces		Interfaces	
1	1Gig Copper Ports (Minimum)	40	Fully Comply	Page-5	Fully Comply	48 x 10/100/1000Base-T Ethernet ports, 4 x 10GE SFP+ ports (S5731-H Series Switches Datasheet Page-1) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
2	10Gig Fiber SFP+ Ports (Short Range)	8	Fully Comply	Page-3	Fully Comply	4 x 10GE SFP+ ports and Interface card with 8 x 10GE SFP+ (S5731-H Series Switches Datasheet Page-1-2) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
3	Fully populated and ready to use interfaces	Yes	Fully Comply	Ruckus ICX 7450 Switch Data Sheet.pdf	Fully Comply	Ready to use 48 x 10/100/1000Base-T Ethernet ports, and fully populated and ready to use 4 x 10GE SFP+ ports and interface card with 8 x 10GE SFP+ interface (S5731-H Series Switches Datasheet Page-1-2) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
4	Console Port	1	Fully Comply	Page 7	Fully Comply	Console port (RJ45) (S5731-H Series Switches Datasheet Page-20) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
5	Bidder must provide console cable	Yes	Fully Comply	(As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 20 July 2022)	Fully Comply	Console Cable Included. (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	





 page 1 of 7

6	All required interfaces must be fully populated and ready to use. Bidder must provide transceivers/interfaces/Modules for all requirement mentioned for each switch	Yes		Fully Comply	(As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 20 July 2022)	Fully Comply	Fully Populated interface 10GBase-Optical Transceiver SFP+ 10G, Transceivers (Reference Technical BOQ) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
Device Hardware and Capacity				Device Hardware and Capacity			Device Hardware and Capacity	
1	Redundant Power Supply	Yes		Fully Comply	Page 9	Fully Comply	1+1 power backup (S5731-H Series Switches Datasheet Page-1 and 4-5 and Technical BOQ) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
2	Rack Mount with mounting kit	Yes		Fully Comply	Page-12	Fully Comply	Rackmount with Mounting Kit (S5731-H48T4XC Rack Mount with Kit) (http://support.huawei.com/edoc/pages/EDOC1100247314AEL05141/01/EDOC1100247314AEL05141/01/resources/etc/S5731-H48T4XC.html#). (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
3	Switching capacity (Gbps)	250Gbps		336 Gbps Fully Comply	Page-5	Fully Comply	Device Switching capacity 336 Gbps (S5731-H Series Switches Datasheet Page-1) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
4	Switching capacity with stacking	700Gbps		960 Gbps Fully Comply	Page 5	Fully Comply	Supported Stack switching Capacity = Switching Capacity of Single Switch x no. of Switches Connected. S5731-H48T4XC can support up to 9 Switches in Stack. Hence support more than 700 Gbps of Switching Stacking Capacity (Reference: S5731-H Series Switches Datasheet Page 8-9) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022 & 29 July 2022)	
Switching				Switching			Switching	
1	Spanning Tree Protocol	Yes		Fully Comply	Page 8	Fully Comply	Spanning Tree Protocol (STP) (S5731-H Series Switches Datasheet Page 8,13) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
2	STP Security	Yes		Fully Comply	Page 9	Fully Comply	Spanning Tree Protocol (STP) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
3	Port grouping and link aggregation	Yes		Fully Comply	Page 7	Fully Comply	Port grouping and Link Aggregation (S5731-H Series Switches Datasheet Page-11) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
4	Support for up to 4094 active VLANs simultaneously, port-based and 802 1Q tag-based VLANs	Yes		Fully Comply	Page 7 & 9	Fully Comply	VLAN specification = 4094, IEEE 802.1Q Virtual Bridged Local Area Networks (S5731-H Series Switches Datasheet Page 11, 32) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)	
Stacking				Stacking			Stacking	
1	Hardware Stacking	Yes		Fully Comply	page 5 (http://docs.ruckuswireless.com/fastiron/08.0.50/fastiron-08050-switchstackingguide/GUID-B1F64EA2-CBE1-4CDD-B35A-BF923386B6D4.html the switch has stacking ports located on the rear panel 1/3/1 and 1/4/1, 2 x Stack Cables in BOQ)	Fully Comply	Intelligent Stack with stacking cables (S5731-H Series Switches Datasheet Page 8) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022) (Stack with upto 9 Member switches in a stack)	





 page-2 of 7

2	Switches must provide true stacking to configure, manage, and troubleshoot multiple physical switches as a single device, with a single IP address	Yes		Fully Comply	<p>Page 4 http://docs.ruckuswireless.com/fastron/08.0.60/fastron-08060-switchstackingguide/GUID-A7E3EE5A-66A6-4DCD-ASC0-2FB02295F0E5.html Ruckus traditional stack can be managed through a single IP address. You can manage the stack using this IP address even if you remove the active controller or any member from the stack. You can also connect to the active controller through Telnet or SSH using this address. All management functions, such as SNMP, use this IP address to acquire MIB information and other management data)</p>	Fully Comply	<p>Support stacking for managed and troubleshoot Attached (CloudEngine S5731-H48T4XC V200R021C10 Stacking) https://info.support.huawei.com/info-finder/search-center/en/enterprise/switches/CloudEngine-S5731-H48T4XC-pid-250387190/speccenter - Stacking. (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022). (Stack with upto 9 Member switches in a stack)</p>
3	Cross-stack Ether Channel ability to configure Ether Channel technology across different members of the stack	Yes		Fully Comply	<p>Trunked stacking port (trunk): A trunk consists of multiple stacking ports and is treated as one logical link. It provides more bandwidth and better resilience than individually connected ports. A trunk is often referred to as a link Aggregation group (LAG) (RUCKUS Fastron Stacking Configuration Guide attached page: 22)(As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 20 July 2022)(http://docs.ruckuswireless.com/fastron/08.0.60/fastron-08060-12guide/GUID-350FAD56-2479-4FA1-A448-D272C4D8C8A8.html Ports in a LAG can be on different line card modules in a chassis or on different units in a stack)</p>	Fully Comply	<p>Support stacking for managed and troubleshoot Attached (CloudEngine S5731-H48T4XC V200R021C10 Stacking). (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022). (Stack with upto 9 Member switches in a stack)</p>
4	Bidder must provide stack cable with the switches	Yes		Fully Comply	Provided in BOQ	Fully Comply	Already Quoted and mentioned in the Technical BOQ (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)
5	Switches must have dedicated stacking port and cable for stacking.	Yes		Fully Comply	<p>page 5 http://docs.ruckuswireless.com/fastron/08.0.50/fastron-08050-switchstackingguide/GUID-B1F64EA2-CBE1-4CDD-B35A-BF92338686D4.html the switch has stacking ports located on the rear panel 1/3/1 and 1/4/1, 2 x Stack Cables in BOQ)</p>	Fully Comply	Supported. Already Quoted and mentioned in the Technical BOQ (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022). (Stacking with service interfaces and dedicated ports both available)

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6	Stack must deliver a unified data and control plan	Yes			Fully Comply	<p>The traditional aggregation/core layer is replaced by a stack of high performance ICX 7750 or ICX 7650 switches which deliver a unified network control plane that acts as the central management and traffic forwarding authority for the entire Campus Fabric domain. (ds-icx-family.pdf page 3) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 20 July 2022). (https://docs.commscope.com/bundle/fastiron-09000-switchstackingguide/page/GUID-BB87D919-A7B6-4EC7-9DD2-0FEC3D3CA449.html Control path A path across stacking links dedicated to carrying control traffic such as commands to program hardware or software image data for upgrades. A stack unit must join the control path to operate fully in the stack and Stack path A data path formed across the stacking links to determine the set of stack members that are present in the stack topology, and their locations in the stack.)</p>	Fully Comply	<p>Attached (CloudEngine S5731-H48T4XC-V200R021C10 Stacking) https://info.support.huawei.com/info-finder/search-center/en/enterprise/switches/CloudEngine-S5731-H48T4XC-pid-250387190/speccenter--Stacking-- (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022). (Stack with upto 9 Member switches in a stack)</p>
7	Plug-and-play stacking configuration and management	Yes			Fully Comply	<p>Most other vendors offer much less than that, if at all. High availability is assured with in-service software upgrades across a stack. This enables easy software upgrades to our switches in a stack – one at a time – without any downtime. We also provide continuous service delivery using our hitless stack member insertion and removal. (https://www.commscope.com/blog/2018/advance-d-stacking-with-ruckus-icx-switches/) line 8 (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 20 July 2022). Ruckus ICX switches include system-level high-availability features, such as dual hotswappable, load-sharing in https://webresources.ruckuswireless.com/pdf/datasheets/ds-icx-family.pdf and http://docs.ruckuswireless.com/faq/08-0-50/faq-08050-switchstackingguide/GUID-6922D8C0-486B-451F-AD99-917FCD959F55.html)</p>	Fully Comply	<p>Supported (S5731-H Series Switches Datasheet Page 8). (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022). (Stack with upto 9 Member switches in a stack)</p>
8	Must provide single entity constituting all the ports of the stack members.	Yes			Fully Comply	<p>Scale-out networking delivers flexible deployment options using the RUCKUS ICX 7000 stackable switches that can be interconnected to create a unified system. Such a system delivers the single point of management of a chassis-based system, but with greater scalability and power efficiency matched with true pay-as-you-grow economics. (Re-architecting Enterprise Networks with RUCKUS High-performance Stackable Switches, Page # 2). (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 20 July 2022). http://docs.ruckuswireless.com/faq/08-0-50/faq-08050-switchstackingguide/GUID-82740A48-8A3A-47AD-883E-C00E864C7636.html</p>	Fully Comply	<p>https://support.huawei.com/enterprise/en/doc/EDOC1100023542?section=DCU&topicName=stack-scheme. (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022). (Stack with upto 9 Member switches in a stack)</p>

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9	Must provide cross-stack QoS, Virtual LANs (VLANs), Link Aggregation Groups (LAGs), and port mirroring	Yes		Fully Comply	<p>Page 8 Ruckus FastIron units in a traditional stack support QoS in https://support.aicadis.nl/support_files/Ruckus/ICX/Software%20Manuals/Ruckus%20CX%20FastIron%20v08.0.90/Ruckus%20FastIron%2008.0.90%20QoS%20and%20Traffic%20Management%20Configuration%20Guide%20v2.pdf. I intend to configure about 250 VLANs on ICX 7450-48F stack in https://forums.ruckuswireless.com/conversations/switches/ix-7450-stack-with-100-access-switches-connected-and-250-vlans/5f91c3e5135b77e2478d0ad0 and you can configure mirroring on a Ruckus traditional stack in http://docs.ruckuswireless.com/fastiron/08.0.60/fastiron-08060-monitoringguide/GUID-81E8837A-D41F-44E5-B530-B900E8FC7973.html</p>	Fully Comply	<p>https://info.support.huawei.com/info-finder/search-center/en/enterprise/switches/CloudEngine-S5731-H48T4XC-pid-250387190/speccenter-VLAN Stacking</p> <p>https://info.support.huawei.com/info-finder/search-center/en/enterprise/switches/CloudEngine-S5731-H48T4XC-pid-250387190/speccenter-Link Aggregation. (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022). (Stack with upto 9 Member switches in a stack)</p>
10	Stacking of switches as a single virtual switch to have a single management plane and control plane	Yes		Fully Comply	<p>This allows a stack to be deployed across multiple physical locations while presenting a single management entity with a common logical data-plane. [Re-architecting Enterprise Networks with RUCKUS High-performance Stackable Switches, Page # 3]. (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 20 July 2022). (https://docs.commscope.com/bundle/fastiron-09000-switchstackingguide/page/GUID-B8B7D919-A7B6-4EC7-9DD2-0FEC3D3CA449.html Control path A path across stacking links dedicated to carrying control traffic such as commands to program hardware or software image data for upgrades. A stack unit must join the control path to operate fully in the stack)</p>	Fully Comply	<p>https://support.huawei.com/enterprise/en/doc/EDOC1000178167/a39a53d8/overview-of-stacks. (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022). (Stack with upto 9 Member switches in a stack)</p>
Security				Security		Security	
1	Access Control Lists (ACLs)	Yes		Fully Comply	Page 8	Fully Comply	<p>Support Access Control List (S5731-H Series Switches Datasheet Page-8). (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022). (Basic and advance IPV4 and IPV6 ACL)</p>
2	802.1X port security	Yes		Fully Comply	Page 8	Fully Comply	<p>Support 802.1x and Port Security (S5731-H Series Switches Datasheet Page-18) https://info.support.huawei.com/info-finder/search-center/en/enterprise/switches/CloudEngine-S5731-H48T4XC-pid-250387190/speccenter. (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022). (IEEE 802.1X authentication and limit on the number of users on a port.)</p>
3	Dynamic Host Configuration Protocol (DHCP) snooping, detect and block	Yes		Fully Comply	Page 9	Fully Comply	<p>DHCP Snooping supported (S5731-H Series Switches Datasheet Page-18). (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)</p>
4	Storm control can be applied to broadcast, multicast, and unknown unicast traffic	Yes		Fully Comply		Fully Comply	<p>Broadcast, multicast, and unknown unicast rate limiting (Datasheet Ruck ICX 7450, Page # 9). (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 20 July 2022). (https://docs.commscope.com/bundle/fastiron-08092-trafficguide/page/GUID-36894A61-ACFF-4F78-B342-1640A2C514C9.html it is controlled by limiting BUM traffic for broadcast, unicast and multicast)</p> <p>Storm Control Supported (Attached) (CloudEngine S5731-H48T4XC V200R021C10 Storm Control Supported). (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022). (Broadcast, multicast, and unknown unicast traffic suppression control on an interface)</p>

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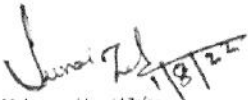
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5	Secure Shell (SSH)	Yes		Fully Comply	Page 9	Fully Comply	Secure Shell SSH Supported all versions (S5731-H Series Switches Datasheet Page-17) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)				
6	Simple Network Management Protocol (SNMP) v3	Yes		Fully Comply	Page 10	Fully Comply	SNMP version 1,2,3 (S5731-H Series Switches Datasheet Page-19) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)				
7	STP BPDu Guard	Yes		Fully Comply	Page 8	Fully Comply	STP and BPDu supported (S5731-H Series Switches Datasheet Page-13) (CloudEngine S5731-H48T4XC V200R021C10 BPDu Support) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)				
Other Features				Other Features				Other Features			
1	Switch can export Flow samples to external collectors. Flow provides visibility into network traffic down to the flow level	Yes		Fully Comply	Page 4	Fully Comply	Flow Mirroring (S5731-H Series Switches Datasheet Page-17) https://info.support.huawei.com/info-finder/search-center/en/enterprise/switches/CloudEngine-S5731-H48T4XC-pid-250387190/speccenter-Mirroring (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)				
2	SPAN / Port mirroring Traffic on a port can be mirrored to another port for analysis with a network analyzer. Multiple Source ports must be mirrored to one destination port	Yes		Fully Comply	Page 8	Fully Comply	Port Mirroring (S5731-H Series Switches Datasheet Page-17) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)				
3	VLAN mirroring Traffic from a VLAN can be mirrored to a port for analysis with a network analyzer. Multiple source VLANs must be mirrored to one destination port	Yes		Fully Comply	Page 8 Mirroring - Port-based, ACL-based, MAC Filter-based, and VLAN-based	Fully Comply	VLAN Mirroring (S5731-H Series Switches Datasheet Page-17) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)				
4	NTP	Yes		Fully Comply	Page 10	Fully Comply	NTP: RFC 1305 Network Time Protocol Version 3 (NTP) (S5731-H Series Switches Datasheet Page-18,31); (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)				
5	SNMP	Yes		Fully Comply	Page 10	Fully Comply	SNMP version 1,2,3 (S5731-H Series Switches Datasheet Page-19) (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)				
Support and Warranty				Support and Warranty				Support and Warranty			
1	Three Year 24x7 Support, subscription, updates and NBD Warranty direct from principal.	Three years		Yes	WatchDog Next Business Day Support for 3 years, ICX 7450 24p & 48p configurations	Fully Comply	3 Years 24x7 Support, subscription, updates and NBD Warranty direct from Principal (As Per Updated Compliance Sheet - Email of Noor Muhammad Dated 21 July 2022)				
Terms				Terms				Terms			
	a. Specs are prepared by using non-proprietary terminologies however, if bidder found any proprietary term in the document then bidder should propose equivalent functionality with detailed description. b. All the feature mentioned above must be part of the proposed solution. Wherever the word 'support' is mentioned in this document, it means that the supported feature must be part of the proposed solution without requirement of any additional module / license / software. c. The proposed solution must not be put to End of Life (EOL) by the principal within the next five years' time			Yes	Letter Provided which states that "The Ruckus Switch ICX7450 which shall be supplied to NADRA will not be EOL in 5Years"	Yes	Letter Provided which states that "All Quoted Products are brand new and will not be EOL or EOS for next 6Years"				

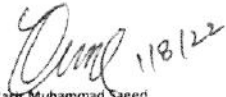
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Technical Recommendation	Recommended	Recommended
Note: Recommendation has been made as per technical criteria only, However kindly verify remaining all clauses for selection of bidder as per NADRA Procurement rules for all bidders.		


President:


Mr. Muhammad Junaid Zafar
Deputy Director (Networks Dte)


Member 1:


Mr. Yasir Muhammad Saeed
Deputy Director (Networks Dte)

Member 2:


Mr. Waqas Ali Khan
Deputy Director (Technology Dte)

Member 3:


Mr. Shoaib Asif Baig
Assistant Director (HOD)