







Government eProcurement System		Government eProcurement System		
Published Corrigendum Details		Date : 22-Dec-2021 10:12 AM		
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<b>Organisation Chain :</b>	Council of Scientific and Industrial Research  CSIO-Chandigarh - CSIR  Purchase-CSIO - CSIR			
<b>Tender ID :</b>	2021_CSIR_96570_1			
<b>Tender Ref No :</b>	CSIO-3-11-2021-Pur			
<b>Tender Title :</b>	CSIO-3-11-2021-Pur			
<b>Corrigendum Type :</b>	Date			
<b>Corrigendum:1</b>				
Corrigendum Title	Corrigendum Description	Published Date	Document Name	Doc Size(in KB)
Revised date for submission and Opening of Tender	Revised specifications for procurement of Core Switch and extension in date for submission and Opening of Tender	22-Dec-2021 10:12 AM	Corrigendum3112021.pdf 	1767.98
<b>Critical Dates</b>				
<b>Publish Date</b>	01-Dec-2021 10:00 AM	<b>Bid Opening Date</b>	05-Jan-2022 03:30 PM	
<b>Document Download/Sale Start Date</b>	01-Dec-2021 10:00 AM	<b>Document Download/Sale End Date</b>	04-Jan-2022 03:00 PM	
<b>Clarification Start Date</b>	01-Dec-2021 10:00 AM	<b>Clarification End Date</b>	03-Jan-2022 02:00 PM	
<b>Bid Submission Start Date</b>	01-Dec-2021 10:00 AM	<b>Bid Submission End Date</b>	04-Jan-2022 03:00 PM	
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<b>Tender ID :</b>	2021_CSIR_96570_1				
<b>Tender Ref No :</b>	CSIO-3-11-2021-Pur				
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<b>Corrigendum Document Details</b>					
Corr.No.	Corrigendum Title	Corrigendum Description	Published Date	Document Name	Doc Size (in KB)
1	Revised specifications for Core Switch and extension of date of submission and opening	Revised specifications for Core Switch and extension of date of submission and opening of Tender regarding	22-Dec-2021 10:06 AM	Corrigendum3112021.pdf 	1767.98



सीएसआईआर – केन्द्रीय वैज्ञानिक उपकरण संगठन

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)

सेक्टर-30 सी, चण्डीगढ़ (भारत)

CSIR-Central Scientific Instruments Organisation  
(Council of Scientific & Industrial Research)

Sector 30-C, Chandigarh (India)

www.csio.res.in



PURCHASE SECTION

No. CSIO/3(11)/2021-Pur

December 22, 2021

**CORRIGENDUM**

Subject: Procurement of Core Switch-revised specifications & extension of date of submission & opening of Tender regarding

Ref:- Tender ID No. ID No. 2021\_CSIR\_96570\_1 dated 30.11.2021

Please refer our Tender for Core Switch published under Tender ID No. 2021\_CSIR\_96570\_1 dated 30.11.2021. Based on the clarifications received from the different bidders, it has been decided to revise the specifications as per our requirement. The revised specifications are enclosed.

The bidders are requested to submit their bid as per revised specifications and the bidders who have already submitted their bid are requested to upload the fresh tender.

The date & time for submission & opening of Tender is revised & will be as follows:-

Date for seeking clarification, if any : 03.01.2022 upto 2.00 P.M.

Due date & time for submission of Tender:- 04.01.2022 upto 3.00 P.M.

Date & time for opening of Tender:- 05.01.2022 at 3.30 PM.

Other Terms & conditions will remain the same.

The clarifications/queries can be sought through e.mail at [cosp@csio.res.in](mailto:cosp@csio.res.in)

(Mohinder Kumar)

Controller of Stores & Purchase

Specifications for Core Switch		(Quantity 2 NOS.)
S. No.	Specification Required	Compliance (Yes / No)
<b>1</b>	<b><u>Product details - Please specify</u></b>	
1.1	Please mention Make, Model No. and Part Code.	
<b>2</b>	<b><u>Architecture &amp; Port Density</u></b>	
2.1	The Core Switch should be configured with Forty-Eight (48) 1G/10G/25G SFP28 Slots and Eight (8) 40G/100G QSFP28 Slots.	
2.2	The Core Switch should support Virtual Switching System (VSS) or Virtual Chassis (VC) or equivalent Switch Clustering feature, where the Switch Clustering feature should combine multiple switches into a single network element or multi chassis trunking.	
2.3	Each Core Switch should be able to provide a minimum of 400 Gbps for Inter-Distribution-Switch Connectivity.	
2.4	Each Core Switch should be loaded with Two (2) 100G Direct Attached Cables (DAC) with a length of One Meters for Inter-Core-Switch.	
<b>3</b>	<b><u>Performance</u></b>	
3.1	Switching Bandwidth: The Core Switch should provide Non-Blocking switch fabric capacity of 4 Tbps (4,000 Gbps) or more.	
3.2	Forwarding Capacity: The Core Switch should provide wire-speed packet forwarding of 2 Bpps (2000 Mpps) or more.	
<b>4</b>	<b><u>Layer 2 features</u></b>	
4.1	Should support 4K active VLANs.	
4.2	Should support 64K MAC addresses or more.	
4.3	Should support IP multicast snooping IGMP v1/ v2/ v3.	
4.4	Should support Jumbo Frames.	
<b>5</b>	<b><u>Layer 3 features</u></b>	
5.1	Should support minimum 64K IPv4 routes or more	
5.2	Should support Basic IPv4 and IPv6 Static Routing (Host Routes/ Virtual Interfaces/ Routed Interfaces, Route Only and Routing between directly connected subnets) or equivalent.	
5.3	Should support the following Dynamic IPv4 & IPv6 Routing protocols and Multicast Routing Protocols.	
5.3a	Dynamic IPv4 and IPv6 Routing protocols like RIP v1 & v2, RIPng, OSPFv2, OSPFv3, BGP4, BGP4+, Multi-VRF/VRF, VRRPv2, VRRPv3.	
5.3b	Should support IPv4/IPv6 multicasting.	

5.3c	PIM-SSM/ PIM Sparse/ PIM Anycast RP/ MSDP and PIM6-SM Snooping IPv6 multicast routing.	
<b>6</b>	<b><u>Security</u></b>	
6.1	username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords/Advance should support encryption standard (AES)-256 or equivalent.	
6.2	Should support secure communications to the management interface and system through Secure Shell (SSHv2), Secure Copy SNMPv3 or equivalent's.	
6.3	Should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection or equivalent.	
6.4	Should support IPv4 and IPv6 ACLs rules configuration and maximum ACL rules system may be configured.	
6.5	Should support Flexible Authentication with 802.1x Authentication and MAC Authentication.	
<b>7</b>	<b><u>Manageability</u></b>	
7.1	Should support manageability using Network Management Software with Web based Graphical User Interface (GUI).	
7.2	Should support Integrated Standard based Command Line Interface (CLI), Telnet/SSH, TFTP, HTTP access to switch management/monitoring.	
7.3	Should support NetFlow or sFlow or equivalent.	
<b>8</b>	<b><u>Physical Attributes, Power Supply and Fans</u></b>	
8.1	The Core Switch should be provided with 19" Universal 4 post rack mount kit.	
8.2	The Core Switch should be configured with hot swappable, redundant load sharing AC power supplies.	
8.3	The Core Switch should be configured with hot swappable, redundant Fans to provide 1:1 or N+1 fan redundancy or better.	
<b>9</b>	<b><u>Mandatory Compliance :</u></b>	
9.1	All categories of Switches, Transceivers & Switch OS should be from same OEM.	
<b>10</b>	<b><u>Warranty</u></b>	
10.1	The Core Switching System should be quoted with TAC Support and Warranty for Five (5) years with NBD Hardware Replacement.	
<b>11</b>	<b><u>Product brochure</u></b>	
	Vendor should provide printed technical catalogs/brochures for the quoted model containing technical specifications, features.	



S. No.	24 Port Layer 3 Distribution Switch (Quantity 17 nos.)	
1	Distribution Switch should have 24 ports of 10/100/1000 RJ45 and Min 6 ports of 1/10G SFP+ fibre based from day 1	
2	Distribution Switches should support non-blocking switching fabric capacity of min 200 Gbps (including stacking BW) and min forwarding capacity of 150 Mpps.	
3	Distribution switch should support min 16K MAC addresses and min 4K active VLANs.	
4	Distribution Switch should have dedicated stacking ports of min stacking BW of 40Gbps with support of minimum 8/9 units stacking or More. Long Distance Stacking should support and All required stacking ports/modules and cables should be included.	
5	Distribution switch should support up to 8 hardware queues per port.	
6	Distribution Switch should support full Layer 2 features like STP, RSTP, MSTP, LAG, LACP, ACL, QoS, IGMP v1, v2 from day 1.	
7	Distribution Switch should have advance Layer 3 features like, RIPv1,v2, OSPFv2, VRF, VRRP and Enhance VRRP for (IPv4, IPv6) from day one.	
8	Distribution Switch should support min 10,000 IPv4 routes or More.	
9	Distribution Switch should support min 1K IPv6 routes or More.	
10	The Distribution Switch should support IPv6 management features like IPv6 ping, IPv6 trace route, IPv6 Telnet, IPv6 TACACS, IPv6 DNS, and IPv6 RADIUS.	
11	All Switches and Transceivers should be of same OEM make.	
12	Distribution switch should support min Layer2, layer3 ACL.	
13	Distribution Switch should have Min 2Gb RAM and 2Gb Flash Memory.	
14	Distribution switch should support Operating temperature: 0°C to 45°C or better range	
15	Distribution switch should support SNMP v1/ v2/ v3, SSHv2, NTP and web management or equivalent.	
16	Distribution Switches should have support for internal/external redundant power supply.	
17	The Distribution Switches should be quoted with 5 years warranty support and Next Business Day hardware replacement.	
18	Core Switches and Distribution switch should be of same OEM make.	

<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">10</span> <b>Single Mode Long Range SFP+ with Minimum Technical Requirement supported Distance Up to 10Kms.</b> <b>(Quantity 34 Nos.)</b>		
S. No.	Specifications	Compliance (Yes/No)
1.	LC duplex connector with temperature (0°C to 70°C) supported.	
2.	1310 nm, for distances up to 10 km	
3.	Single Mode Fiber	
4.	ROHS Compliant	
5.	Compliant with SFP Transceiver MSA specification	
6.	Compliant with Specifications for IEEE 802.3ae/10 Gigabit Ethernet	
7.	SFP+ should support Hot-swappable and Digital Optical Monitoring (DOM)	
8.	Laser Class 1 Product which comply with the requirements of IEC/FDA	
<b>Other Terms and Conditions:</b>		
1.	All the active components shall be of same make.	
2.	The Oem /bidder's Company should have been in business for more than 10 years. [India OEM/manufacturer may be exempted from this clause as per Govt. of India guideline kindly attach the valid documentary proof issued by Govt. of India].	
3.	The OEM should have minimum turnover of Rs. 1000.00 Crore per annum during last three financial years. [Indian OEM/manufacturer may be exempted from this clause as per Gov of India guidelines, kindly attach the valid documentary proof issued by Govt. of India].	
4.	The Bidders must be OEM or System Integrator or OEM authorized representative and mu have minimum turnover of Rs. 5.00 Crore per annum during each of the last three financi years (FY 17-18, FY 18-19, FY 19-20). Enclose a proof of the audited balance sheets along wi profit & loss account during last 3 years.	
5.	The System Integrator / Bidder must have successful executed networking orders in ar combination like one order of 1.00 Crore or two orders of 50.00 Lakh during last 5 financi years for similar networking components. (Documentary proof with installation acceptance of the same should be attached) [Indian OEM/manufacturer may be exe pted from this clause as per Govt. of India guidelines, kindly attach the valid documentc proof issued by Govt. of India].	
6.	Bidder and supplier should supply all the necessary accessories required for comple installation and commissioning of the switches for proper functioning of the network.	
7.	Service level agreement (SLA) will be, as follows; Response time and resolution should I done within 4 hours, In case of major fault (subject to consideration of CSIR-CSIO) t resolution should be done within 48 hours.	
8.	Provide Bid specific OEM Authorisation letter.	
9.	All the switches supplied should be compatible with the existing Network of CSIR-CSIO. Additional details if required, can be provided on request to <a href="mailto:cosp@csio.res.in">cosp@csio.res.in</a>	
10.	All the supplied switches must comply with Indian power supply requirement i.e. 230VAC, 1 50 Hz	
11.	At least core switch should have common criteria certifications (attach relevant documer	
12.	Please attach all the supporting technical literature for the indented specifications and highlight the specifications in the literature with its mentioned serial number.	