

# **FINAL EVALUATION REPORT**

(As Per Rule 35 of PP Rules, 2004)

1. NAME OF PROCURING AGENCY : PAKISTAN NATIONAL SHIPPING CORPORATION,  
2. METHOD OF PROCUREMENT : SINGLE STAGE ONE ENVELOP PROCEDURE AS PER PPR RULE 36(a) OF PPR 2004.  
3. TITLE OF PROCUREMENT : TENDER FOR PROCUREMENT OF BRANDED SERVERS WITH ACCESSORIES FOR PNSC  
4. TENDER INQUIRY NO. : PRCD/SRVR/PNSC/2022/135  
5. PPRA REF. NO. (TSE) : TS482065E  
6. DATE & TIME OF BID CLOSING : 13-06-2022, (11:00 A.M)  
7. DATE & TIME OF BID OPENING : 13-06-2022, (11:30 A.M)  
8. NO OF BIDS RECEIVED : TWO (02).  
9. CRITERIA FOR BID EVALUATION : LOWEST EVALUATED BID,  
10. DETAILS OF BID(S) EVALUATION : DETAILS AS TABULATED;

Name of bidders	Marks		Evaluated Cost	Rules/ Regulation/ SBD*/Policy/ Basis of Rejection/ Acceptance as per Rule 35 of PP Rules, 2004
	Technical	Financial		
M/S HYBRID TECHNOLOGIES	-	Lowest	<u>16,692,675.62</u>	ACCEPTED AS PER PPRA RULE NO. 38, BEING MOST ADVANTAGEOUS BID,
M/S SG TECHNICAL SERVICES (Pvt.) Ltd,	-	-	19,836,005/-	SECOND LOWEST BIDDER

**MOST ADVANTAGEOUS BIDDER : M/S HYBRID TECHNOLOGIES**

11. Any other additional / supporting information, SCANNED BIDDERS ELIGIBILITY CRITERIA / TECHNICAL EVALUATION REPORTS & BIDDERS COMPARISON REPORT ARE ATTACHED

Signature: .....

**ALI IMAM QADRI**  
General Manager (Procurement)

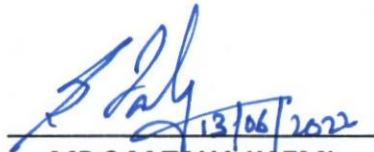
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Standard Bidding Documents (SBD).

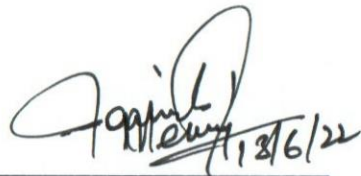
## Bidders Comparison of Branded Servers with Accessories for PNSC

S#	Description	Qty	<u>SG Technical Services (Pvt) Ltd.</u>			<u>Hybrid Technologies</u>			Net Amount
			Brand & Model	Unit Price with GST	TOTAL Price with GST	Brand & Model	Unit Price with GST	TOTAL Price with GST	
1	Branded Servers	3	HP Proliant DL380 Gen10	5,015,665.00	15,046,995.00	HP Proliant DL380 Gen10	4,020,447.72	12,061,343.17	<b>16,692,675.62</b>
2	Industry Standard Rack With Accessories	1	HPE Rack	1,647,310.00	1,647,310.00	HPE Rack	2,492,643.59	2,492,643.59	
3	Network Switch	1	HPE FlexFabric 5710	3,141,700.00	3,141,700.00	HPE FlexFabric 5710	2,138,688.86	2,138,688.86	
<b>TOTAL</b>					19,836,005.00			16,692,675.62	

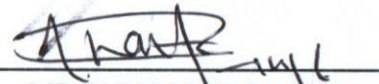
M/s Hybrid Technologies quoted **HP Proliant DL380 Gen 10 3SFF brand with Rack and Network Switch** of same OEM with overall quoted amount of **Rs 16,692,675.62** and is declared the advantageous bidder as the overall quoted cost of all items is lowest and has also technically fulfilled the required specification.



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Deputy Manager (MIS)  
Member Tender Committee



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Deputy Manager (MIS)  
Member Tender Committee



**MR ALTAMASH QURESHI**  
Manager (Finance)  
Member Tender Committee

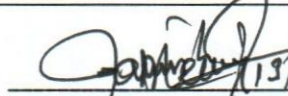


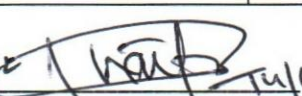
**MR ZAFARULLAH KHAN**  
General Manager (Legal)  
Chairman Tender Committee

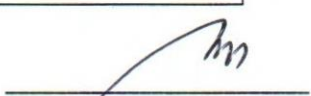
## Eligibility Criteria of Tender for Branded Servers with Accessories for PNSC

S#	Description	SG Technical Services (Pvt) Ltd.	Hybrid Technologies
1	Bidder should have National Tax Number (N.T.N) and General Sales Tax (G.S.T) (Valid copies to be attached).	Submitted	Submitted
2	Bidder should be enrolled/ enlisted on Active Taxpayers List (A.T.L) of FBR (Valid copy must be attached).	Active	Active
3	Bidder should be Principal Authorized Enterprise Partner/Tier One/Premier/Platinum/Gold Partner of the quoted Product (Valid copy to be attached).	Submitted	Submitted
4	Bidder must be at least Authorized Service Delivery Partner of the quoted OEM (Valid copy of OEM to be attached).	Submitted	Submitted
5	Bidder should have minimum 03 OEM Certified Engineers of Servers / quoted Product (Copy of valid certificates to be attached). Bidder's office should be in Karachi, Lahore and Islamabad.	Submitted	Submitted
6	Manufacturer Authorization letter is required from Principal (Valid copy to be attached with date and Tender No).	Submitted	Submitted
7	Bidder is required to submit last Five (05) Year's audited financial statements/report of the Firm/Company showing the financial stability.	Submitted	Submitted
8	Bidder should have minimum annual turnover of 30 Million Rupees in last 3 years. (Copies of Bank statement /audited copies or any other documentary proof to be attached).	Submitted	Submitted
9	Bidder shall have minimum 05 similar type of supplies (Copies of POs / Invoices to be attached).	Submitted	Submitted
10	Original Equipment Manufacturer (OEM) should have local parts depot in Karachi (Share the complete address).	Submitted	Submitted
11	Affidavit of undertaking that firm(s) or it's affiliated/ concerns are not blacklisted by any Government / Semi-Government / Regularity Body / Public Sector Organization.	Submitted	Submitted
12	OEM / Bidder ensure availability its products parts and capability of adapting all type of Operation systems (specifically Microsoft, Linux etc.) for next Five Years.	Submitted	Submitted
13	Bid Security (in PKR)	405,000.00	400,000.00

  
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**TECHNICAL EVALUATION OF BRANDED SERVERS (QTY: 03)**

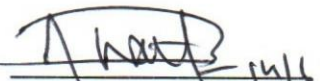
SPECIFICATION		VENDOR NAME	
		SG Technical Services (Pvt) Ltd.	Hybrid Technologies
Brand Name	HP Proliant DL380 Gen 10 Plus 8SFF or Equivalent	HP Proliant DL380 Gen 10	HP Proliant DL380 Gen 10
Chassis	2U Rack Mountable Server Class chassis with Redundant Power Supply	✓	✓
Motherboard	Server Class Motherboard with built-in PCI-Express 4.0 slots (x16 and x8 slots)	✓	✓
Processor	2 x Intel Xeon-Silver 4309Y 2.8GHz 8-core 105W Processor	✓	✓
Memory	8 x 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	✓	✓
Optical drive	9.5mm SATA DVD-RW Optical Drive	✓	✓
HDD Bays	16 SFF HDD/SSD	✓	✓
Hard disk drive	2 x 480GB or above SATA/SAS SFF SSD (for OS)	✓	✓
	6 x 3.84TB SATA 6G SFF SSD (for Storage)	✓	✓
Controller	PCIe 4.0 based x8 RAID controller with 4GB Flash backed write cache, supporting RAID 0, 1, 5, 6, 10, 50, 60 with 16 SAS/SATA/NVME lanes supporting up to 16 direct-connected storage devices (SAS/SATA/NVMe)	✓	✓
	Controller must support PCIe Gen4 x8 host / Gen4 NVMe / Gen 3 SAS/SATA	✓	✓
	Controller must support Mixed Mode which combines RAID and HBA mode operation simultaneously	✓	✓
Networking features	1 x 1Gb 4-port BASE-T OCP3 Adapter	✓	✓
	1 x 10Gb 2-port BASE-T Adapter	✓	✓
Interfaces	USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure)	✓	✓
Power Supply	2 x 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	✓	✓
Provisioning	Should support tool to provision server using RESTful API to discover and deploy servers at scale	✓	✓
	Provision of One to Many Servers using own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell	✓	✓
Firmware Security	System should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable	✓	✓
	Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware	✓	✓
	Software should support dashboard view to quickly scan the managed resources to assess the overall health of the data center. It should provide an at-a-glance visual health summary of the resources that user is authorized to view.	✓	✓
	Dashboard should display health summary of Server Profiles, Server Hardware and Appliance alerts.	✓	✓
	Systems Management software should provide Role-based access control.	✓	✓
	Zero Touch Provisioning (ZTP) using SSDP with remote access.	✓	✓


**TECHNICAL EVALUATION OF BRANDED SERVERS (QTY: 03)**

SPECIFICATION		VENDOR NAME	
		SG Technical Services (Pvt) Ltd.	Hybrid Technologies
Remote Management	Management software should support integration with popular virtualization platform management software like VMware venter & vRealize Operations, Microsoft System Center & Admin Center etc.	✓	✓
	Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.	✓	✓
	Should provide an online portal that can be accessible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contracts and status. The Portal should also provide a personalized dashboard to monitor device health, hardware events, contract and warranty status.	✓	✓
	Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.	✓	✓
Compliance	ACPI 6.3, PCIe 4.0, WOL Support	✓	✓
	Microsoft® Logo certifications	✓	✓
	PXE Support, Energy Star	✓	✓
	SMBIOS 3.2, Redfish API, IPMI 2.0, Secure Digital 4.0	✓	✓
	TPM 1.20 and 2.0 Support	✓	✓
	Advanced Encryption Standard (AES)	✓	✓
	Triple Data Encryption Standard (3DES)	✓	✓
	SNMP v3, TLS 1.2	✓	✓
	DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP)	✓	✓
	Active Directory v1.0, ASHRAE A3/A4	✓	✓
UEFI (Unified Extensible Firmware Interface Forum) 2.6	✓	✓	
Accessories	Rack mount kits & Rail kits, 2U Bezel Kit, Power Cords, PDU Interconnect Cords, VGA, HDMI & related Data Cables, Cable Management Arm, Driver CDs, Brochures & Catalogues, agents to setup, deploy and maintain the server should be embedded inside the server	✓	✓
Licensed Operating System	Windows Server 2022 Standard - 16 Core License Pack CSP	✓	✓
OS, Virtualization & Database Software Support	MS Windows Server, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), Linux Ubuntu, Clear OS, Citrix Xen Server, VMware, Microsoft Hyper-V, SANGFOR, Oracle 10g/11g/12g and above Server	✓	✓
Warranty	5 Years Onsite and Comprehensive Principal Warranty with support / services	✓	✓

  
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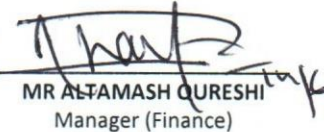
  
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**TECHNICAL EVALUATION OF INDUSTRY STANDARD RACK WITH COMPLETE ACCESSORIES (QTY: 01)**

SPECIFICATION		VENDOR NAME	
		SG Technical Services (Pvt) Ltd.	Hybrid Technologies
Brand Name	Same as Server brand	HP	HP
Rack Size	42U 600mm x 1075mm G2 Kitted Advanced Pallet Rack with Side Panels and Baying	✓	✓
PDUs	Two Power distribution units with required quantity of cables for connecting at-least 12 servers.	✓	✓
	600mm 42U Rack stabilizer	✓	✓
KVM Switch	Industry Standard KVM Switch for Connecting at least 16 Servers	✓	✓
	Keyboard-Video-Mouse ports with required no of KVM and other cables	✓	✓
Rack Console	17" / 19" FP Rack Console (17" or 19" LCD with 1U tray and Rack Rails)	✓	✓
	Server Keyboard and Touch Pad	✓	✓
Operating Temperature	2 x G2 Basic 3.6kVA/IEC C20 Detachable 16A/100-240V Outlets (12) C13/1U Horizontal WW PDU	✓	✓
Accessories	Frame with front & rear lockable perforated Door with side Panels, Cable Management Kit, Air Flow optimization Kit, Rack 2K Fan Kit, USB Cables (8 or more) and all related Cables, Brochures & Catalogues (English)	✓	✓
Warranty	5 Years Onsite and Comprehensive Principal Warranty with support / services	✓	✓

  
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**TECHNICAL EVALUATION OF NETWORK SWITCH (QTY: 01)**

SPECIFICATION		VENDOR NAME	
		SG Technical Services (Pvt) Ltd.	Hybrid Technologies
<b>Brand Name</b>	Same OEM as of Server	HPE FlexFabric 5710	HPE FlexFabric 5710
<b>Requirement</b>	Advance Layer 3 switch with dual internal power supplies	✓	✓
	24 x 10G Copper ports	✓	✓
	6 x 40G QSFP+ ports	✓	✓
	2 x 10GSFP+ ports	✓	✓
	4 x X721 FB Fan Tray	✓	✓
	Forwarding performance - 714 Mpps or above	✓	✓
	Switching Capacity - 960 Gbps or above	✓	✓
	VLans - 4000 or above	✓	✓
	Jumbo Frames - 10,000 bytes or above	✓	✓
	Latency - <1.5 μs (64-byte packets) or above	✓	✓
	Out of Band interface for management	✓	✓
	Stacking over 10G/40G uplinks with atleast 9 switches	✓	✓
	Line rate performance on all ports	✓	✓
	Mac address table size - 208,000 or above	✓	✓
	Cut-through and nonblocking architecture	✓	✓
	IEEE 802.1Qbb Priority Flow Control (PFC) and Data Center Bridging Exchange (DCBX) for converged applications	✓	✓
<b>Support</b>	FCoE, NTP/SNTP	✓	✓
	Advance QoS, SP, WRR, Traffic Policing	✓	✓
	Radius/TACACS+, LLDP, sFlow/Netflow/Jflow	✓	✓
	UDLD / DLDAP or equivalent, SNMPv1/2/3	✓	✓
	802.3x, 802.1ad QinQ	✓	✓
	STP/RSTP/MSTP, Static IP Routing + RIP + OSPF	✓	✓
	ACLs, Port Security, Port mirroring, Port Isolation	✓	✓
<b>Software</b>	Network Management Software from same OEM shall be provided to manage and monitor the quoted switch. License shall be perpetual. Subscription licenses are not acceptable.	✓	✓
<b>Warranty</b>	5 Years Onsite and Comprehensive Principal Warranty of HW/SW including Power Supply	✓	✓

  
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