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DELIVERY DUE DATE: 6/13/21

Procurement Unit Tel No.: 045-606-8142/606-8157

Supplier :	IP SOLUTIONS, INC.	Work Order No.:	2021-052
Address :	<u>Unit 502 Solare Bldg., Capri Oasis, Pasig Dr. Sixto</u>	Date :	3/24/2021
	<u>Antonio Ave., Maybunga, Pasig City</u>	JO No. :	2020-078
TIN:	<u>008-924-552-000 VAT Reg</u> .	Date :	9/16/2020
Tel. No. :	<u>(02) 514-4575/ 505-2946/ 643-8944</u>	Mode of Procurement:	Public Bidding
		Mode of Payment	N/30

SIR/MADAM:

QTY.	UNIT	DESCRIPTION		UNIT COST	TOTAL COST
1	lot	SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND CONFIGURATION OF CONVERGED INFRASTRUCTURE FOR TSU	F HYPER-	4,850,900.00	4,850,900.00
		<b>Scope of Work</b> - The project covers the acqui implementation of Supply, Delivery, Installati Commissioning and Configuration of Hyper-C Infrastructure for the university's network ur	on, onverged		
		<b>Technical Specifications:</b> A. Bidder must have at least one (1) full time of engineer to manage and supervise the implen of the project with certification issued by the manufacturer/principal. B. Bidder must be an authorized product rese and/or installer certified by the product's manufacturer.	nentation product's		
		C. The supplier must provide a solution from that has global presence and has a local office Philippines.			
		D. Bidder must present a certificate that their has an In-country depot signed by the compar- product's manufacturer authorization. E. The project implementer from principal m CISSP certified.	ny and the ust be		
		F. The software must be CMMI L5 certified, ir ensure the maturity of solution technology. G. The technical requirements and evaluation parameters are as follows:			
		<b>1. SERVER PC</b> , PowerEdge R740, Specificatio 2x Intel Xeon Gold 6132 2.6G, 14C/28T, 128G Memory, 8x3.5in/16x2.5in disk slots, 240G 0 6xGE, 2x10GE, no cache disk or data disk, 3yr ProSupport Plus & Mission Critical: (7x24) 4- Onsite Service	(32Gx4) S disk,	RECEIL By: Date: 16	<u>роп-тац</u> / E. D = ДРЯ2021
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ROA No. : 106 4414 CONFORME & REC	EIVE COPY :			FUNDS AVAILABLE:	
IP SOLUTIONS, IN	Kaen			ALLINDA	1
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Date Bank Account Name Bank Account Numb Bank Name:				APPROVED: DR. MYRNA Presi	Q. MALLARI dent 📿
Bank Address:				Authorize	d Official
Form No. : TSU-PRO	D-SF 10	Revision No.: 01	Effectivi	ty Date: March 01, 2017	Page 1 of 4



**DELIVERY DUE DATE:** 

Procurement Unit Tel No.: 045-606-8142/606-8157

Supplier :IP SOLUTIONS, INC.Work Order No.:2021-052Address :Unit 502 Solare Bldg., Capri Oasis, Pasig Dr. SixtoDate :3/24/2021Antonio Ave., Maybunga, Pasig CityJO No. :2020-078TIN:008-924-552-000 VAT Reg.Date :9/16/2020Tel. No. :(02) 514-4575/ 505-2946/ 643-8944Mode of Procurement:Public BiddingMode of Payment:N/30

SIR/MADAM:

QTY.	UNIT	DESCRIPTION	UNIT COS	T TOTAL COST
		Total No of Physical Cores: 56 Cores Physical Co	ores per	
		Server: 28 Cores Total No of Virtual Cores: 112	Cores	
		Virtual Cores per Server: 56 Cores, (Qty: 2)		
		2. MEMORY, 32GB 2666MHz DDR4 RDIMM EC	C Total	
		Memory Capacity: 512GB Memory Per Server C	apacity:	
		256GB, (Qty: 14)		
		<b>3. SOLID STATE DRIVE,</b> 1.9 TB, 3D NAND TLC	SSD	
		2.5", SATA 3.0 6Gbps, (Qty: 4)		
		4. HARD DRIVE, 4TB 7.2K RPM NLSAS 12Gbps	512n	
		3.5in Hot-plug Hard Drive, (Qty: 12)		
		5. NETWORK TRANSCEIVER, SFP+ 10GE Mult		
		Optical Module, for short distance transmission		
		(850nm, 300M), (Qty: 4)		
		6. USB VIRTUAL KEY, USB Key for license activ		
		one key per cluster, please do specify the quant	ity,	
		mandatory item, (Qty: 1)		
		<b>7. NEW COMPONENT,</b> LC-LC, Multi-mode, 3 m (Qty: 3)	eters,	
		<b>8. SOFTWARE,</b> Sangfor HCI Solution Software,	aSV	
		(Compute Virtualization License per Physical C		
		Server virtualization, HA, DRS, Automated Hot	,	
		backup, clone, (Qty: 4)	100,	
		<b>9. SOFTWARE,</b> Sangfor HCI Solution Software,	aNet	
		(Network Virtualization License per Physical Cl		
		Network virtualization, Distributed Firewall, Dr	,	
		topology, visualized network, aSwitch, aRouter,		
		4)		
		<b>10. SOFTWARE,</b> Sangfor HCl Solution Software		
		(Storage Virtualization License per Physical CP		
		Storage virtualization, 2-3 copies, SSD read and	write	and all all all all all all all all all al
		acceleration, data locality, (Qty: 4)	· · · · · · · · · · · · · · · · · · ·	ION ON AUDIT. TSU
		12. Further specifications:		CEIVED
		-The Solution must start with two servers with	out Sy 0	ate: 1 6 APR 202
		sacrificing scalability.	1	
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SOLUTIONS, I	INC.		EVENA	MAY T. TEOFILO
rm/Dealer/Supple	er/Contractor		Head	l, Budget Office
Date			APPROVED:	1 11
ank Account Nam				194
ank Account Nun	nber:		DR. MY	RNA Q.MALLARI
ank Name:				President
ank Address:			Auth	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
orm No. : TSU-P	RO-SF 10	Revision No.: 01	Effectivity Date: March 01, 2017	Page 2 of 4



## WORK ORDER

DELIVERY DUE DATE:

Procurement Unit Tel No.: 045-606-8142/606-8157

Supplier :	IP SOLUTIONS, INC.	Work Order No.:	2021-052
Address :	<u>Unit 502 Solare Bldg., Capri Oasis, Pasig Dr. Sixto</u>	Date :	3/24/2021
	<u>Antonio Ave., Maybunga, Pasig City</u>	JO No. :	2020-078
TIN:	<u>008-924-552-000 VAT Reg.</u>	Date :	9/16/2020
Tel. No. :	(02) 514-4575/ 505-2946/ 643-8944	Mode of Procurement:	Public Bidding
		Mode of Payment:	N/30

SIR/MADAM:

QTY.	UNIT	DESCRIPTION		UNIT COST	TOTAL COST
		<ul> <li>The solution must be hardware-agnostic, ab reside on any brand or unbranded server, the must be able to cluster servers with different together and still be workable.</li> <li>Must have a distributed firewall to offer mice segmentation and segregation of VMs to ensulateral security.</li> <li>Must be able to continue operation even with simultaneous power supply unit (PSU) failure. Must have the capability to move virtual mathematic appliance server to another of physical appliance server failure. This capa shall be either automatic or manually control. The management platform must be integrated license and separated installation.</li> <li>The storage virtualization component must lembedded into the hypervisor instead of inst storage VMs, for better performance and sim management.</li> <li>The management console must be integrated hypervisor with a single Graphical User Inter separated component) to manage the networ compute, security. The production diagram in able to be designed via drawable and modifia topology by drag draw. The management conhave the following minimum capabilities: Create/Destroy VMs, Create/Manage the network and computer, Create VM snapshots, VM temply VM copies, Manage the virtual firewall</li> <li>Rated line voltage of physical appliance: 100 VAC</li> </ul>	e product brands ro- ure the h two (2) es chines er in case ability lled. ed with no be alling pler d inside face (not k, storage, nust be ble nsole shall work anage the c, storage plates and	COMMISSION R E C E By:	NAURT-TSU VED 16 ARR 2021
CONFORME & RECE	<u>Geert</u> C. Hrdigetor		ereof)	FUNDS AVAILABLE: LLEA MAY Head, Budg APPROVED: DR. MYRNA C Presic	2. MALLARI
Bank Address:	CE 10		-	Authorized	
Form No. : TSU-PRO	-SF 10	Revision No.: 01	Effectivit	y Date: March 01, 2017	Page 3 of 4



## WORK ORDER

DELIVERY DUE DATE:

Procurement Unit Tel No.: 045-606-8142/606-8157

Supplier :	IP SOLUTIONS, INC.	Work Order No.:	2021-052
Address :	<u>Unit 502 Solare Bldg., Capri Oasis, Pasig Dr. Sixto</u>	Date :	3/24/2021
	<u>Antonio Ave., Maybunga, Pasig City</u>	JO No. :	2020-078
TIN:	<u>008-924-552-000 VAT Reg</u> .	Date :	9/16/2020
Tel. No. :	<u>(02) 514-4575/ 505-2946/ 643-8944</u>	Mode of Procurement:	Public Bidding
		Mode of Paymont	N/20

SIR/MADAM:

QTY.	UNIT	DESCRIPTION		UNIT COST	TOTAL COST
		<ul> <li>The HCI solution must be in standard rack-m form not exceeding 6U. All the accessories to solution in the Server Room must be included.</li> <li>The solution has the capability to automatica resources (CPU, RAM, storage) with the supp of guest OS once critical level is reached</li> <li>The solution must be able to conduct one cli check to locate the problem and offer workar</li> <li>The solution must provide an embedded bac system and snapshot that utilizes historical s of VMs</li> <li>In case of future expansion, the solution sho ready to add additional security components Virtual Next Generation Firewall (Not traditio with Botnet Detection and Defense, virtual W optimization, virtual SSL VPN, virtual bandwi manager</li> <li>with the same brand by adding the license</li> <li>The HCI must have end to end security funct 1. Distributed firewall to offer micro-segment VMs</li> <li>Web Application Firewall for the platform 3. Virtual Next Generation Application Firewal to activate as needed thru license)</li> </ul>	deploy the d ally extend oortability ck health cound ckup napshots uld be such onal UTM) /AN idth cionality tation for		
				COMMISSION ON RECEA By: Date:	AUDIT- TSU VEADR 2021
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Date Bank Account Name Bank Account Numb Bank Name: Bank Address:			_	Presid	
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