



UNIVERSITY OF THE PHILIPPINES MINDANAO
Shaping minds that shape the nation

**INVITATION FOR NEGOTIATED PROCUREMENT
(DUE TO TWO FAILED BIDDINGS)**

Project Description	SUPPLY, INSTALLATION AND CONFIGURATION OF ARTIFICIAL INTELLIGENCE COMPUTING ENVIRONMENT
Approved Budget for the Contract (ABC)	P12,100,000.00 Bids received in excess of the ABC shall be automatically rejected.
Funding Source	GAA 2022
Project ID	PBM 2023-03

- UP Mindanao, through its Bids and Awards Committee (BAC), now invites technically, legally, and financially capable suppliers for the mentioned goods and services.
- The mode of procurement for this procurement project is Negotiated Procurement due to two (2) failed biddings pursuant to Section 53.1 of the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act 9184 (RA 9184), otherwise known as the “Government Procurement Reform Act” , including its Annex “H”.
The BAC will engage in negotiations with a sufficient number of suppliers to ensure effective competition. The selection of the successful offer shall be based on the best and final offer that will be submitted on the date specified below, which could sufficiently meet the technical specifications.
- Interested parties may obtain further information from the BAC Secretariat by electronic mail to bacgoods.upmin@up.edu.ph or bacsecretariat.upmindanao@up.edu.ph.
- Hereunder is the schedule of bidding activities:
Issuance and Availability of Negotiation Documents: from February 10, 2023 until March 6, 2023
Negotiation Meeting: **February 21, 2023 at 9:00 AM**. Bidders may join via Zoom.
Note: Zoom link will only be provided upon request sent to the BAC Secretariat’s email address: bacsecretariat.upmindanao@up.edu.ph.
Submission/Opening of Final Offer: **March 6, 2023 9:00AM**
The Negotiation Documents may be downloaded from the PhilGEPS website and from the UP Mindanao website and may be obtained from the given address below upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount indicated in the table below:

Approved Budget for the Contract	Cost of Bidding Documents
P500,000.00 or less	P500.00
More than P500,000.00 up to P1M	P1,000.00
More than P1,000,000.00 up to P5M	P5,000.00

5. Printed copies of bids must be submitted to the BAC through its Secretariat to the following address:

SPMO, Administration Building, UP Mindanao, Mintal, Davao City on or before the deadline.

Late bids shall not be accepted.

Online or electronic submission of bids is no longer allowed.

DOCUMENTARY REQUIREMENTS

I. Technical Component

- Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) and
- Technical Specifications.

II. Financial Component

- Bid Form (each page should bear the ink signature of the authorized signatory)
- Price Schedule (each page should bear the ink signature of the authorized signatory), and
- Authority of the Signatory (Special Power of Attorney or Board Secretary's Certificate).

Each Bidder shall submit one copy of the first and second components of its Bid. Bidders are requested to submit two additional hard copies (Copy 1 and Copy 2) of their bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

6. The University of the Philippines Mindanao reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract in accordance with Section 41 of the 2016 IRR of RA 9184, without thereby incurring any liability to the affected bidder or bidders.

You may contact the BAC Secretariat at the address above or by electronic mail to bacsecretariat.upmindanao@up.edu.ph for more details.


PROF. CLETO L. NAÑOLA JR.
 BAC Chair

TECHNICAL SPECIFICATIONS

Item	Specification	Statement of Compliance
	<p>General terms for all lots</p> <p>For Equipment:</p> <p>1) The equipment must come from a credible manufacturer with support through a distributor in the country; and</p> <p>2) The equipment must be brand new and unused.</p>	<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder’s statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>

Item	Specification	Statement of Compliance
LOT 1: ARTIFICIAL INTELLIGENCE COMPUTING ENVIRONMENT		ABC: Php 12,100,000.00
Delivery period: Thirty (30) to ninety (90) calendar days		
Delivery and Installation: CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City		
1	<p>Technical Specifications:</p> <ul style="list-style-type: none"> ○ 1 x Management Node (Must be compatible with existing custom Dell T640 server to ensure and maximize compatibility) ○ Integrated remote server management software and hardware must be iDRAC9, Enterprise 15G (Group Manager Enabled) ○ OS must be open source (Ubuntu Server) ○ 2 x Intel Xeon Silver 4309Y 2.8G, 8C/16T, 10.4GT/s, 12M Cache, Turbo, HT (105W) DDR4-2666 ○ at least 512 GB RAM, 3200 MT/s RDIMM ○ at least 7.68 TB SSD SATA Mix Use 6Gbps 512 2.5in Hot-plug AG Drive, 3 DWPD ○ 1 x Broadcom 57412 Dual Port 10GbE SFP+ Adapter ○ 1 x Broadcom 57416 Dual Port 10Gb, BASE-T Adapter ○ Dual, Hot-Plug, Fully Redundant Power Supply (1+1), 1400W, Mixed Mode ○ heat sink for 2 CPU ○ 6 x fan ○ rack rails with cable management arm ○ 2 x SFP+ to SFP+, 10GbE Direct Attach Cable, 5 meters ○ with 3 years warranty through ProSupport and Next Business Day Onsite Service ○ NOTE: PLEASE INCLUDE BROCHURE OF EQUIPMENT/ITEM, WITH ITS MAKE/MODEL/UNIT NUMBER AND SPECIFICATIONS. IF POSSIBLE, INCLUDE PERFORMANCE METRICS/REVIEWS. 	

	<ul style="list-style-type: none"> ○ 1 x AI Compute Node (Must be compatible with existing custom Dell T640 server to ensure and maximize compatibility) ○ Integrated remote server management software and hardware must be iDRAC9, Enterprise 15G (Group Manager Enabled) ○ OS must be open source (Ubuntu Server) ○ 2 x Intel Xeon Silver 4310 2.1G, 12C/24T, 10.4GT/s, 18M Cache, Turbo, HT (120W) DDR4-2666 ○ at least 256 GB RAM, 3200 MT/s RDIMM ○ at least 1.92 TB SSD SATA Mix Use 6 Gbps 512 2.5in Hot-plug AG Drive, 3 DWPD ○ 1 x Broadcom 57416 Dual Port 10GbE BASE-T Adapter ○ 1 x Broadcom 57508 Dual Port 100GbE QSFP Adapter ○ 3 x Reputable-brand GPU w/ Tensor Processing (e.g. NVIDIA, A100), with the following specifications: <ul style="list-style-type: none"> ○ GPU architecture of NVIDIA Ampere, ○ PCIe form factor, ○ at least 80 GB memory size: memory type of HBM2e, ○ at least 1935 GB/s GPU Memory Bandwidth, ○ at least 300 W Max Thermal Design Power (TDP), ○ at least 5120 bits memory bus width, ○ at least 312 TFLOPS (for FP16 and BFLOAT16 Tensor Core), ○ at least 156 TFLOPS (for TF32), ○ peak memory bandwidth of up to 1.94 TB/s, ○ up to 7 Multi-Instance GPUs (MIGs) at 10GB, ○ Dual, Hot-Plug, Power Supply Fault Tolerant Redundant (1+1), 2400W, Mixed Mode ○ With heat sink for 2 CPU ○ With rack rails ○ 2 x QSFP28 to QSFP28, 100GbE cable, 5 meters ○ with 3 years warranty through ProSupport and Next Business Day Onsite Service ○ NOTE: PLEASE INCLUDE BROCHURE OF EQUIPMENT/ITEM, WITH ITS MAKE/MODEL/UNIT NUMBER AND SPECIFICATIONS. 	
	<ul style="list-style-type: none"> ○ 2 x Storage Area Network (SAN) Switch ○ 24 x SFP+ ports ○ 6 x QSFP28 ports ○ Switching capacity: 1.68 Tbps ○ Throughput: 720 Mpps ○ 1 x 100G QSFP28 to 100G QSFP28 1-meter passive cable ○ 2 x AC power supply module 300W ○ 2 x fan module ○ Static table <ul style="list-style-type: none"> ○ static MAC address: 20k ○ static multicast MAC address: 256 ○ static ARP: 8k ○ static ND: 1k ○ static IPv4 routing table: 250k ○ static IPv6 routing table: 128k ○ EMC <ul style="list-style-type: none"> ○ FCC Part 15 Subpart B CLASS A ○ ICES-003 CLASS A ○ VCCI CLASS A ○ CISPR 32 CLASS A ○ EN 55032 CLASS A ○ AS/NZS CISPR32 CLASS A 	

	<ul style="list-style-type: none"> ○ CISPR 24 ○ EN 55024 ○ EN 61000-3-2 ○ EN 61000-3-3 ○ ETSI EN 300 386 ○ GB/T 9254 ○ YD/T 993 ○ Safety <ul style="list-style-type: none"> ○ UL 60950-1 ○ CAN/CSA C22.2 No 60950-1 ○ IEC 60950-1 ○ EN 60950-1 ○ AS/NZS 60950-1 ○ FDA 21 CFR Subchapter J ○ GB 4943.1 ○ 3 years warranty, 5x9 next business day service ○ NOTE: PLEASE INCLUDE BROCHURE OF EQUIPMENT/ITEM, WITH ITS MAKE/MODEL/UNIT NUMBER AND SPECIFICATIONS. 	
	<ul style="list-style-type: none"> ● 2 x Smart-UPS SRT 3000VA 230V 2700 Watts <ul style="list-style-type: none"> ○ lead-acid battery type ○ double conversion online ○ runtime full load (2700W) : at least 3 minutes 58 seconds ○ battery lifespan: at least 3-5 years ○ wave type: sine wave ○ bypass type: internal bypass (automatic and manual) ○ USB compatible ○ must be compatible with PowerChute UPS management software ○ rack-mounted with kit ○ with audible and visible alarms ○ heat dissipation: 703 Btu/h ○ protection: IP20 ○ power socket outlets: <ul style="list-style-type: none"> ■ 8 IEC 60320 C13 ■ 2 IEC Jumpers ■ 2 IEC 60320 C19 ○ input connection type: <ul style="list-style-type: none"> ■ BS1363A British ■ IEC 60320 C20 ■ Schuko CEE 7 / EU1-16P ○ Provided equipment: <ul style="list-style-type: none"> ■ CD with software ■ Country-specific detachable power cord ■ Documentation CD ■ Installation guide ■ Removable support feet ■ USB cable ■ Warranty card ○ 3 years repair or replacement and 2 years for battery ● NOTE: PLEASE INCLUDE BROCHURE OF EQUIPMENT/ITEM, WITH ITS MAKE/MODEL/UNIT NUMBER AND SPECIFICATIONS. 	
	<ul style="list-style-type: none"> ● 1 x 42U Rack (with PDU/s compatible with the servers, switches, and UPS units) <ul style="list-style-type: none"> ○ Height: 42U 	

	<ul style="list-style-type: none"> ○ Width: at least 600 mm ○ Depth: at least 1200 mm ○ Rack PDU, 230V, with at least 12 x C13 & at least 4 x C19 ○ at least 2 years warranty ● NOTE: PLEASE INCLUDE BROCHURE OF EQUIPMENT/ITEM, WITH ITS MAKE/MODEL/UNIT NUMBER AND SPECIFICATIONS. 	
	<p>Inclusions:</p> <ul style="list-style-type: none"> a. Inclusive of installation, configuration, knowledge transfer, service and delivery fees, and all other charges 	
<p>Additional Requirements:</p> <ol style="list-style-type: none"> 1. BROCHURE OF EACH ITEM, specifying its make/model/unit number and specifications. 		

BID FORM

Date : _____

Project Identification No. : _____

To: [name and address of Procuring Entity]

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/deliver/perform]* *[Lot No. and description of the Goods]* in conformity with the said PBDs for the sum of *[total Bid amount in words and figures]* or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein or in the Price Schedules,

If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;
- c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

The undersigned is authorized to submit the bid on behalf of *[name of the bidder]* as evidenced by the attached *[state the written authority]*.

We acknowledge that **failure to sign each and every page of this Bid Form**, including the attached **Schedule of Prices**, shall be a ground for the rejection of our bid.

Name: _____

Legal capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

(TECHNICAL SPECIFICATIONS)

BID NO : PBM 2023-03

DATE :

REQUIRED SPECIFICATIONS	OFFERED SPECIFICATIONS (please write down detailed offered specifications)	REFERENCES (include supporting documents) (attach brochure / technical data/ website, etc.)
Item 1 - Management Node (Must be compatible with existing Dell T640 server to ensure and maximize compatibility) - 1 unit	Brand and model:	
Integrated remote server management software and hardware must be iDRAC9, Enterprise 15G (Group Manager Enabled)		
OS must be open source (Ubuntu Server)		
2 x Intel Xeon Silver 4309Y 2.8G, 8C/16T, 10.4GT/s, 12M Cache, Turbo, HT (105W) DDR4-2666		
at least 512 GB RAM, 3200 MT/s RDIMM		
at least 7.68 TB SSD SATA Mix Use 6Gbps 512 2.5in Hot-plug AG Drive, 3 DWPD		
1 x Broadcom 57412 Dual Port 10GbE SFP+ Adapter		
1 x Broadcom 57416 Dual Port 10Gb, BASE-T Adapter		
Dual, Hot-Plug, Fully Redundant Power Supply (1+1), 1400W, Mixed Mode		
heat sink for 2 CPU		
6 x fan		
rack rails with cable management arm		
2 x SFP+ to SFP+, 10GbE Direct Attach Cable, 5 meters		

Note to Bidders:

The terms of payment shall be as follows: *upon complete delivery of all items/services.*

Signature of Representative _____
Name of Representative _____
Position _____
Company _____
Address _____
Telephone/Fax/Email _____

Delivery schedule: within 90 calendar days upon receipt of Notice to Proceed Place of delivery: CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City		
with 3 years warranty through ProSupport and Next Business Day Onsite Service		
Prototype/ Demo Unit Sample: [none required] (required during post-qual, if applicable; state "none required/not applicable" if not)		
Item 2 – AI Compute Node (Must be compatible with existing custom Dell T640 server to ensure and maximize compatibility) - 1 unit	Brand and model:	
Integrated remote server management software and hardware must be iDRAC9, Enterprise 15G (Group Manager Enabled)		
OS must be open source (Ubuntu Server)		
2 x Intel Xeon Silver 4310 2.1G, 12C/24T, 10.4GT/s, 18M Cache, Turbo, HT (120W) DDR4-2666		
at least 256 GB RAM, 3200 MT/s RDIMM		
at least 1.92 TB SSD SATA Mix Use 6 Gbps 512 2.5in Hot-plug AG Drive, 3 DWPD		
1 x Broadcom 57416 Dual Port 10GbE BASE-T Adapter		
1 x Broadcom 57508 Dual Port 100GbE QSFP Adapter		
3 x Reputable-brand GPU w/ Tensor Processing (e.g., NVIDIA, A100), with the following specifications: - GPU architecture of NVIDIA Ampere - PCIe form factor - at least 80 GB memory size : memory type of HBM2e - at least 1935 GB/s GPU Memory Bandwidth		

Note to Bidders:

The terms of payment shall be as follows: *upon complete delivery of all items/services.*

Signature of Representative _____
Name of Representative _____
Position _____
Company _____
Address _____
Telephone/Fax/Email _____

- at least 300 W Max Thermal Design Power (TDP) - at least 5120 bits memory bus width - at least 312 TFLOPS (for FP16 and BFLOAT16 Tensor Core) - at least 156 TFLOPS (for TF32) - peak memory bandwidth of up to 1.94 TB/s - up to 7 Multi-Instance GPUs (MIGs) at 10GB		
Dual, Hot-Plug, Power Supply Fault Tolerant Redundant (1+1), 2400W, Mixed Mode		
With heat sink for 2 CPU		
With rack rails		
2 x QSFP28 to QSFP28, 100GbE cable, 5 meters		
Delivery schedule: within 90 calendar days upon receipt of Notice to Proceed Place of delivery: CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City		
with 3 years warranty through ProSupport and Next Business Day Onsite Service		
Prototype/ Demo Unit Sample: [none required] (required during post-qual, if applicable; state “none required/not applicable” if not)		
Item 3 – Storage Area Network Switch (SAN) - 2 units	Brand and model:	
24 x SFP+ ports		
6 x QSFP28 ports		
Switching capacity: 1.68 Tbps		
Throughput: 720 Mpps		

Note to Bidders:

The terms of payment shall be as follows: *upon complete delivery of all items/services.*

Signature of Representative _____
Name of Representative _____
Position _____
Company _____
Address _____
Telephone/Fax/Email _____

1 x 100G QSFP28 to 100G QSFP28 1-meter passive cable		
2 x AC power supply module 300W		
2 x fan module		
Static table - static MAC address: 20k - static multicast MAC address: 256 - static ARP: 8k - static ND: 1k - static IPv4 routing table: 250k - static IPv6 routing table: 128k		
EMC - FCC Part 15 Subpart B CLASS A - ICES-003 CLASS A - VCCI CLASS A - CISPR 32 CLASS A - EN 55032 CLASS A - AS/NZS CISPR32 CLASS A - CISPR 24 - EN 55024 - EN 61000-3-2 - EN 61000-3-3 - ETSI EN 300 386 - GB/T 9254 - YD/T 993		
Safety - UL 60950-1 - CAN/CSA C22.2 No 60950-1 - IEC 60950-1 - EN 60950-1 - AS/NZS 60950-1		

Note to Bidders:

The terms of payment shall be as follows: *upon complete delivery of all items/services.*

Signature of Representative _____
Name of Representative _____
Position _____
Company _____
Address _____
Telephone/Fax/Email _____

- FDA 21 CFR Subchapter J - GB 4943.1		
Delivery schedule: within 90 calendar days upon receipt of Notice to Proceed Place of delivery: CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City		
3 years warranty, 5 x 9 next business day service		
Prototype/ Demo Unit Sample: [none required] (required during post-qual, if applicable; state "none required/not applicable" if not)		
Item 4 – Smart-UPS SRT 3000VA 230V 2700 Watts - 2 units	Brand and model:	
lead-acid battery type		
double conversion online		
runtime full load (2700W): at least 3 minutes 58 seconds		
battery lifespan: at least 3-5 years		
wave type: sine wave		
bypass type: internal bypass (automatic and manual)		
USB compatible		
must be compatible with PowerChute UPS management software		
<u>rack-mounted with kit</u>		
with audible and visible alarms		
heat dissipation: 703 Btu/h		

Note to Bidders:

The terms of payment shall be as follows: *upon complete delivery of all items/services.*

Signature of Representative _____
Name of Representative _____
Position _____
Company _____
Address _____
Telephone/Fax/Email _____

protection: IP20		
Power socket outlets: - 8 IEC 60320 C13 - 2 IEC Jumpers - 2 IEC 60320 C19		
Input connection type: - BS1363A British - IEC 60320 C20 - Schuko CEE 7 / EU1-16P		
Provided equipment: - CD with software - Country-specific detachable power cord - Documentation CD - Installation guide - Removable support feet - USB cable - Warranty card		
Delivery schedule: within 90 calendar days upon receipt of Notice to Proceed Place of delivery: CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City		
3 years repair or replacement and 2 years for battery		
Prototype/ Demo Unit Sample: [none required] (required during post-qual, if applicable; state “none required/not applicable” if not)		
Item 5 – 42U Rack (with PDU/s compatible with the servers, switches, and UPS units) - 1 unit	Brand and model:	
Height: 42U		
Width: at least 600 mm		

Note to Bidders:

The terms of payment shall be as follows: *upon complete delivery of all items/services.*

Signature of Representative _____
Name of Representative _____
Position _____
Company _____
Address _____
Telephone/Fax/Email _____

Depth: at least 1200 mm		
Rack PDU, 230V, with at least 12 x C13 & at least 4 x C19		
Delivery schedule: within 90 calendar days upon receipt of Notice to Proceed Place of delivery: CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City		
At least 2 years warranty		
Prototype/ Demo Unit Sample: [none required] (required during post-qual, if applicable; state “none required/not applicable” if not)		
Inclusions for Items 1 to 5: a. Inclusive of installation, configuration, knowledge transfer, service and delivery fees, and all other charges		
Additional Requirements for Items 1 to 5: 1. BROCHURE OF EACH ITEM, specifying its make/model/unit number and specifications.		

In compliance with Republic Act No. 9184, Section 18, and the 2016 Revised Implementing Rules and Regulations, Section 18, brand names are used because of compatibility with existing platforms or equipment which will maintain performance, functionality and useful life.

Note to Bidders:

The terms of payment shall be as follows: *upon complete delivery of all items/services.*

Signature of Representative _____
Name of Representative _____
Position _____
Company _____
Address _____
Telephone/Fax/Email _____

Price Schedule for Goods Offered from Within the Philippines
[shall be submitted with the Bid if bidder is offering goods from within the Philippines]

For Goods Offered from Within the Philippines

Name of Bidder _____ Project ID No. PBM 2023-03 Page ___ of ___

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price per item	Transportation and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)
	LOT 1: ARTIFICIAL INTELLIGENCE COMPUTING ENVIRONMENT								
1	Specifications: <ul style="list-style-type: none"> • 1 x Management Node (Must be compatible with existing custom Dell T640 server to ensure and maximize compatibility) <ul style="list-style-type: none"> • Integrated remote server management software and hardware must be iDRAC9, Enterprise 15G (Group Manager Enabled) • OS must be open source (Ubuntu Server) • 2 x Intel Xeon Silver 4309Y 2.8G, 8C/16T, 10.4GT/s, 12M Cache, Turbo, HT (105W) DDR4-2666 • at least 512 GB RAM, 3200 MT/s RDIMM • at least 7.68 TB SSD SATA Mix Use 6Gbps 512 2.5in Hot-plug AG Drive, 3 DWPD • 1 x Broadcom 57412 Dual Port 10GbE SFP+ Adapter • 1 x Broadcom 57416 Dual Port 10Gb, Base-T Adapter 		1						

Signature over Printed Name: _____

<ul style="list-style-type: none"> ● Dual, Hot-Plug, Fully Redundant Power Supply (1+1), 1400W, Mixed Mode ● heat sink for 2 CPU ● 6 x fan ● rack rails with cable management arm ● 2 x SFP+ to SFP+, 10GbE Direct Attach Cable, 5 meters ● with 3 years warranty through ProSupport and Next Business Day Onsite Service ● NOTE: PLEASE INCLUDE BROCHURE OF EQUIPMENT/ITEM, WITH ITS MAKE/MODEL/UNIT NUMBER AND SPECIFICATIONS. IF POSSIBLE, INCLUDE PERFORMANCE METRICS/REVIEWS. ● 1 x AI Compute Node (Must be compatible with existing custom Dell T640 server to ensure and maximize compatibility) <ul style="list-style-type: none"> ● Integrated remote server management software and hardware must be iDRAC9, Enterprise 15G (Group Manager Enabled) ● OS must be open source (Ubuntu Server) ● 2 x Intel Xeon Silver 4310 2.1G, 12C/24T, 10.4GT/s, 18M Cache, Turbo, HT (120W) DDR4-2666 ● at least 256 GB RAM, 3200 MT/s RDIMM ● at least 1.92 TB SSD SATA Mix Use 6 Gbps 512 2.5in Hot-plug AG Drive, 3 DWPD ● 1 x Broadcom 57416 Dual Port 10GbE BASE-T Adapter ● 1 x Broadcom 57508 Dual Port 100GbE QSFP Adapter ● 3 x Reputable-brand GPU w/ Tensor Processing (e.g. NVIDIA, A100), with the following specifications: <ul style="list-style-type: none"> ○ GPU architecture of NVIDIA Ampere, ○ PCIe form factor, ○ at least 80 GB memory size: memory type of HBM2e, ○ at least 1935 GB/s GPU Memory Bandwidth, ○ at least 300 W Max Thermal Design Power (TDP), ○ at least 5120 bits memory bus width, ○ at least 312 TFLOPS (for FP16 and BFLOAT16 Tensor Core), ○ at least 156 TFLOPS (for TF32), ○ peak memory bandwidth of up to 1.94 TB/s, ○ up to 7 Multi-Instance GPUs (MIGs) at 10GB, ● Dual, Hot-Plug, Power Supply Fault Tolerant Redundant (1+1), 2400W, Mixed Mode ● With heat sink for 2 CPU ● With rack rails ● 2 x QSFP28 to QSFP28, 100GbE cable, 5 meters 								
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	<ul style="list-style-type: none"> • with 3 years warranty through ProSupport and Next Business Day Onsite Service • NOTE: PLEASE INCLUDE BROCHURE OF EQUIPMENT/ITEM, WITH ITS MAKE/MODEL/UNIT NUMBER AND SPECIFICATIONS. • 2 x Storage Area Network (SAN) Switch <ul style="list-style-type: none"> • 24 x SFP+ ports • 6 x QSFP28 ports • Switching capacity: 1.68 Tbps • Throughput: 720 Mpps • 1 x 100G QSFP28 to 100G QSFP28 1-meter passive cable • 2 x AC power supply module 300W • 2 x fan module • Static table <ul style="list-style-type: none"> ○ static MAC address: 20k ○ static multicast MAC address: 256 ○ static ARP: 8k ○ static ND: 1k ○ static IPv4 routing table: 250k ○ static IPv6 routing table: 128k • EMC <ul style="list-style-type: none"> ○ FCC Part 15 Subpart B CLASS A ○ ICES-003 CLASS A ○ VCCI CLASS A ○ CISPR 32 CLASS A ○ EN 55032 CLASS A ○ AS/NZS CISPR32 CLASS A ○ CISPR 24 ○ EN 55024 ○ EN 61000-3-2 ○ EN 61000-3-3 ○ ETSI EN 300 386 ○ GB/T 9254 ○ YD/T 993 • Safety <ul style="list-style-type: none"> ○ UL 60950-1 ○ CAN/CSA C22.2 No 60950-1 ○ IEC 60950-1 ○ EN 60950-1 ○ AS/NZS 60950-1 ○ FDA 21 CFR Subchapter J ○ GB 4943.1 • 3 years warranty, 5x9 next business day service • NOTE: PLEASE INCLUDE BROCHURE OF EQUIPMENT/ITEM, WITH ITS MAKE/MODEL/UNIT NUMBER AND SPECIFICATIONS. 								
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<ul style="list-style-type: none"> ● 2 x Smart-UPS SRT 3000VA 230V 2700 Watts <ul style="list-style-type: none"> ● lead-acid battery type ● double conversion online ● runtime full load (2700W) : at least 3 minutes 58 seconds ● battery lifespan: at least 3-5 years ● wave type: sine wave ● bypass type: internal bypass (automatic and manual) ● USB compatible ● must be compatible with PowerChute UPS management software ● <u>rack-mounted with kit</u> ● with multifunction LCD status and control console ● with audible and visible alarms ● heat dissipation: 703 Btu/h ● protection: IP20 ● power socket outlets: <ul style="list-style-type: none"> ○ 8 IEC 60320 C13 ○ 2 IEC Jumpers ○ 2 IEC 60320 C19 ● input connection type: <ul style="list-style-type: none"> ○ BS1363A British ○ IEC 60320 C20 ○ Schuko CEE 7 / EU1-16P ○ 3 years repair or replacement and 2 years for battery ● Provided equipment: <ul style="list-style-type: none"> ○ CD with software ○ Country-specific detachable power cord ○ Documentation CD ○ Installation guide ○ Removable support feet ○ USB cable ○ Warranty card ● NOTE: PLEASE INCLUDE BROCHURE OF EQUIPMENT/ITEM, WITH ITS MAKE/MODEL/UNIT NUMBER AND SPECIFICATIONS. ● 1 x 42U Rack (with metered PDU/s compatible with the servers, switches, and UPS units) <ul style="list-style-type: none"> ● Height: 42U ● Width: at least 600 mm ● Depth: at least 1200 mm ● Rack PDU, 230V, with at least 12 x C13 & at least 4 x C19 ● at least 2 years warranty 								
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	<ul style="list-style-type: none"> NOTE: PLEASE INCLUDE BROCHURE OF EQUIPMENT/ITEM, WITH ITS MAKE/MODEL/UNIT NUMBER AND SPECIFICATIONS. <p>Inclusions:</p> <ul style="list-style-type: none"> Inclusive of installation, configuration, knowledge transfer, service and delivery fees, and all other charges <p>Additional Requirements:</p> <ol style="list-style-type: none"> BROCHURE OF EACH ITEM, specifying its make/model/unit number and specifications. 								
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Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____