Republic of the Philippines
Department of Science and Technology
PHILIPPINE SCIENCE HIGH SCHOOL MAIN CAMPUS
Agham Road, Diliman, Quezon City
(02) 8929-1606

Bids and Awards Committee for ICT

November 8, 2022

BID BULLETIN NO. 1

This Bid Bulletin No. 1 is issued to modify or amend items in the Bid Document with Solicitation No.: 22-10-105 for the **Procurement of MITHI-ICT Infrastructure: Fiber Backbone for Philippine Science High School – Main Campus Science and Humanities Building, and Access Points for Full Wi-Fi Coverage of the Peripheral Rooms of the First Floor of the Science and Humanities Building.**

In the Pre-Bid Conference conducted last November 4, 2022 for the above-mentioned project, the following revisions in the bidding documents were effected:

1) Amendments to Section I – INVITATION TO BID

No.	***Before***	***Revised***
4	Prospective Bidders may obtain further information from *PHILIPPINE SCIENCE HIGH SCHOOL – MAIN CAMPUS* and inspect the Bidding Documents at the address given below during *[insert office hours]*.	Prospective Bidders may obtain further information from *PHILIPPINE SCIENCE HIGH SCHOOL – MAIN CAMPUS* and inspect the Bidding Documents at the address given below during *8:00 a.m. to 3:00 p.m.*.

2) Amendments to Section III – BID DATA SHEET

ITB Clause	***Before***	***Revised***
5.3	For this purpose, contracts similar to the Project shall be: a. ***Procurement of MITHI-ICT INFRASTRUCTURE: Fiber Backbone for Philippine Science High School – Main Campus Science and Humanities Building, and Access Points for Full Wi-Fi Coverage of the Peripheral Rooms of the First Floor of the Science and Humanities Building***. b. completed within ***five (3) years*** prior to the deadline for the submission and receipt of bids.	For this purpose, contracts similar to the Project shall be: a. ***Procurement of MITHI-ICT INFRASTRUCTURE: Fiber Backbone for Philippine Science High School – Main Campus Science and Humanities Building, and Access Points for Full Wi-Fi Coverage of the Peripheral Rooms of the First Floor of the Science and Humanities Building***. b. completed within ***three (3) years*** prior to the deadline for the submission and receipt of bids.

3) Amendments to Section VII – TECHNICAL SPECIFICATIONS

Before	***Revised***
MITHI-ICT INFRASTRUCTURE: Fiber Backbone for Philippine Science High School – Main Campus Science and Humanities Building, and Access Points for Full Wi-Fi Coverage of the Peripheral Rooms of the First Floor of the Science and Humanities Building	**MITHI-ICT INFRASTRUCTURE: Fiber Backbone for Philippine Science High School – Main Campus Science and Humanities Building, and Access Points for Full Wi-Fi Coverage of the Peripheral Rooms of the First Floor of the Science and Humanities Building**
Site Preparation/ Scope of Works (Piping, Cabling, Installation)	**Site Preparation/ Scope of Works (Piping, Cabling, Installation)**
1. Mobilization of workers, delivery of tools & materials	1. Mobilization of workers, delivery of tools & materials
2. Utilize existing idf cabinets from old bldg	2. Utilize existing idf cabinets from old bldg
3. Utilize existing mdf cabinet from new blgd., (admin)	3. Utilize existing mdf cabinet from new blgd., (admin)
4. Supply & installation of 2 units (2ft) idf cabinet at the 4th/floor old bldg	4. Supply & installation of 2 units (2ft) idf cabinet at the 4th/floor old bldg
5. Supply & installation pvc conduit pipe with fittings, pull boxes w/ c-clamp and mount from the propose idf cabinets & mdf cabinet of new bldg. (admin) and old bldg.	5. Supply & installation pvc conduit pipe with fittings, pull boxes w/ c-clamp and mount from the propose idf cabinets & mdf cabinet of new bldg. (admin) and old bldg.
6. For the fiber optic data backbone cable supply & installation of 12 port om3 fiber optic patch panel loaded	6. For the fiber optic data backbone cable supply & installation of 12 port om3 fiber optic patch panel loaded
7. Supply cable measurement and pulling of fiber optic cable 12 core om3 (lc) from mdf 2/floor (admin) new bldg., to idf g/floor front old bldg.,	7. Supply cable measurement and pulling of fiber optic cable 12 core om3 (lc) from mdf 2/floor (admin) new bldg., to idf g/floor front old bldg.,
8. Supply cable measurement and pulling of 2 runs utp cable cat 6 from idf g/floor front to idf 2nd /floor front, idf 2nd /floor back, idf 3rd /floor front & idf 4th/floor	8. Supply cable measurement and pulling of 2 runs utp cable cat 6 from idf g/floor front to idf 2nd /floor front, idf 2nd /floor back, idf 3rd /floor front & idf 4th/floor
9. Supply cable measurement and pulling of 2 runs utp cable cat 6 from idf g/floor back to idf 3rd/floor back, & idf 4th/floor back	9. Supply cable measurement and pulling of 2 runs utp cable cat 6 from idf g/floor back to idf 3rd/floor back, & idf 4th/floor back
10. Termination on both ends of utp cable cat 6 using rj 45	10. Termination on both ends of utp cable cat 6 using rj 45
11. Termination on both ends fiber optic cable om3 12 core using pigtail (lc)	11. Termination on both ends fiber optic cable om3 12 core using pigtail (lc)
12. Level III Testing utp cable using slt (single line tester)	12. Level III Testing utp cable using slt (single line tester)
13. Level III Testing fiber optic cable using power meter	13. Level III Testing fiber optic cable using power meter
14. Labelling all copper backbones	14. Labelling all copper backbones
15. Labor and technical services	15. Labor and technical services
16. Clean of affected work areas.	16. Clean of affected work areas.
17. Knowledge transfer, as-built documentation, maintenance training	17. Knowledge transfer, as-built documentation, maintenance training
Cablings (Patch Cords, Patch Panels, Fiber Optics, Cabinet)	**Cablings (Patch Cords, Patch Panels, Fiber Optics, Cabinet)**
FIBER OPTIC INDOOR CABLE	***FIBER OPTIC INDOOR CABLE***

This 12 fiber indoor cable is OM3, Riser (OFNR) rated and features 900µm buffered fibers.		This 12 fiber indoor cable is OM3, Riser (OFNR) rated and features 900µm buffered fibers.	
Has corresponding fiber port adaptors for the switches		Has corresponding fiber port adaptors for the switches	
Estimated at 50 meters		Estimated at 50 meters	
Standard & Flamerating		Standard & Flamerating	
Riser cable flammability Rating	Must pass UL 1666 standard	Riser cable flammability Rating	Must pass UL 1666 standard
Flame Retardant Quality	Must pass IEC 60332-1 standard	Flame Retardant Quality	Must pass IEC 60332-1 standard
Low Smoke and Zero Halogen	Must pass IEC 61034 and IEC 60754-2 standard	Low Smoke and Zero Halogen	Must pass IEC 61034 and IEC 60754-2 standard
Absence of Hazardous Materials	Must be RoHS Compliant	Absence of Hazardous Materials	Must be RoHS Compliant
Fiber Type	OM3 (up to 300m, aqua-colored jacket)	Fiber Type	OM3 (up to 300m, aqua-colored jacket)
Number of Fibers	12	Number of Fibers	12
Buffered, Loose Tube or Ribbon	900um Tight Buffered (indoor)	Buffered, Loose Tube or Ribbon	900um Tight Buffered (indoor)
FIBER PATCH PANEL LOADED – 1 unit		***FIBER PATCH PANEL LOADED – 1 unit***	
LC Fiber Adapter Panel, OM3/OM4, LC Duplex		LC Fiber Adapter Panel, OM3/OM4, LC Duplex	
Connection Type	LC	Connection Type	LC
Fiber Type	OM3/OM4	Fiber Type	OM3/OM4
Material	Zirconia Ceramic	Material	Zirconia Ceramic
Ports	At least 6, modular (i.e. easily replaceable ports)	Ports	At least 6, modular (i.e. easily replaceable ports)
Standards Met	RoHS compliant. Meets or exceeds TIA/EIA-568-C.3 requirements	Standards Met	RoHS compliant. Meets or exceeds TIA/EIA-568-C.3 requirements
Product Type	Front Loading Adapter Panel	Product Type	Front Loading Adapter Panel
FIBER PATCH CORD DUAL LC 2 METERS – 4 pcs.		***FIBER PATCH CORD DUAL LC 2 METERS – 4 pcs.***	
2 Fiber Patch Cord, OM3, LC Duplex, Riser		2 Fiber Patch Cord, OM3, LC Duplex, Riser	
Fiber Type	OM3 (Aqua-colored)	Fiber Type	OM3 (Aqua-colored)
Number of Fibers	1	Number of Fibers	1
Connector 1 Type	LC Simplex	Connector 1 Type	LC Simplex
Connector 2 Type	Pigtail	Connector 2 Type	Pigtail
Maximum Connector Insertion Loss (dB)	0.15	Maximum Connector Insertion Loss (dB)	0.15
Minimum Connector Return Loss (dB)	26	Minimum Connector Return Loss (dB)	26
Overall Length (m)	1	Overall Length (m)	1
Fiber Diameter (µm)	50um (for inter/ intra building connections)	Fiber Diameter (µm)	50um (for inter/ intra building connections)
Standards Met	Meets or exceeds ISO/IEC 11801, TIA/EIA-568-C.3,	Standards Met	Meets or exceeds ISO/IEC 11801, TIA/EIA-568-C.3,

	TIA-604-3 (FOCIS-3), TIA-604-10 (FOCIS-10)		TIA-604-3 (FOCIS-3), TIA-604-10 (FOCIS-10)
Body Style	Duplex	Body Style	Duplex
LC TO PIGTAIL, OM3 Fiber Patch Cord, OM3, LC to Pigtail – 16 pcs		***LC TO PIGTAIL, OM3 Fiber Patch Cord, OM3, LC to Pigtail – 16 pcs***	
Fiber Type	OM3 (Aqua-colored)	Fiber Type	OM3 (Aqua-colored)
Number of Fibers	1	Number of Fibers	1
Connector 1 Type	LC Simplex	Connector 1 Type	LC Simplex
Connector 2 Type	Pigtail	Connector 2 Type	Pigtail
Maximum Connector Insertion Loss (dB)	0.15	Maximum Connector Insertion Loss (dB)	0.15
Minimum Connector Return Loss (dB)	26	Minimum Connector Return Loss (dB)	26
Overall Length (m)	1	Overall Length (m)	1
Fiber Diameter (µm)	50um (for inter/ intra building connections)	Fiber Diameter (µm)	50um (for inter/ intra building connections)
Standards Met	Meets or exceeds ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-3 (FOCIS-3), TIA-604-10 (FOCIS-10)	Standards Met	Meets or exceeds ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-3 (FOCIS-3), TIA-604-10 (FOCIS-10)
Body Style	Duplex	Body Style	Duplex
CABLE MANAGEMENT 1U Horizontal Single Sided Manager, 1RU, 3.7 in. Depth – 2 pcs.		***CABLE MANAGEMENT 1U Horizontal Single Sided Manager, 1RU, 3.7 in. Depth – 2 pcs.***	
Product Type	Single Sided Manager	Product Type	Single Sided Manager
Body Material	ABS	Body Material	ABS
Orientation	Horizontal	Orientation	Horizontal
Cover Material	PVC	Cover Material	PVC
Finger Duct Material	ABS plastic	Finger Duct Material	ABS plastic
Overall Height (In.)	1.7	Overall Height (In.)	1.7
Overall Height (mm)	44.1	Overall Height (mm)	44.1
Overall Width (In.)	19	Overall Width (In.)	19
Overall Width (mm)	483	Overall Width (mm)	483
Overall Depth (In.)	3.7	Overall Depth (In.)	3.7
Overall Depth (mm)	93.7	Overall Depth (mm)	93.7
Number of Rack Units	1	Number of Rack Units	1
Environment	Indoor	Environment	Indoor
Color	Black	Color	Black
Standards Met	RoHS Compliant	Standards Met	RoHS Compliant
Copper Cable, Cat 6, 24 AWG, UTP, Blue – 3 rolls		***Copper Cable, Cat 6, 24 AWG, UTP, Blue – 3 rolls***	
Environment	Indoor	Environment	Indoor
Performance Level	Category 6	Performance Level	Category 6
Cable Construction	U/UTP	Cable Construction	U/UTP
Flammability Rating	CM (Communications Multipurpose)	Flammability Rating	CM (Communications Multipurpose)
EuroClass Rating	Eca	EuroClass Rating	Eca
Jacket Material	Polyvinyl Chloride (PVC)	Jacket Material	Polyvinyl Chloride (PVC)

Number of Pairs	4	Number of Pairs	4
Conductor Material	Copper	Conductor Material	Copper
Conductor Type	Solid	Conductor Type	Solid
Overall Length (m)	305	Overall Length (m)	305
Conductor Gauge (AWG)	24	Conductor Gauge (AWG)	24
Insulation Material	HDPE (high density polyethylene)	Insulation Material	HDPE (high density polyethylene)
Insulation Diameter (In.)	0.036	Insulation Diameter (In.)	0.036
Insulation Diameter (mm)	0.92	Insulation Diameter (mm)	0.92
Maximum Voltage (V)	80	Maximum Voltage (V)	80
Standards Met	Meets or Exceeds ISO 11801 Class E and ANSI/TIA-568.2-D Category 6, IEC 61156-5, UL 1685, EN 50575: Euroclass Eca, IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications, RoHS Compliant.	Standards Met	Meets or Exceeds ISO 11801 Class E and ANSI/TIA-568.2-D Category 6, IEC 61156-5, UL 1685, EN 50575: Euroclass Eca, IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications, RoHS Compliant.
Color	Blue	Color	Blue
Overall Length (ft.)	1000	Overall Length (ft.)	1000
Product Type	Copper Cable	Product Type	Copper Cable
Flame Rating	Must pass EN 60332-1-2 standard (EuroClass Eca)	Flame Rating	Must pass EN 60332-1-2 standard (EuroClass Eca)
PATCH CORD 1.5 METERS (Slim type) – 10 pcs.		***PATCH CORD 1.5 METERS (Slim type) – 10 pcs.***	
Copper Patch Cord cat6		Copper Patch Cord cat6	
Applicable Applications	(1) 1000BASE-T (Gigabit Ethernet), 100BASE-T (Fast Ethernet) (2) 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM (3) Digital video and broadband/baseband analog video(4) Voice/data systems (5) Voice over Internet Protocol (VoIP)	Applicable Applications	(1) 1000BASE-T (Gigabit Ethernet), 100BASE-T (Fast Ethernet) (2) 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM (3) Digital video and broadband/baseband analog video(4) Voice/data systems (5) Voice over Internet Protocol (VoIP)
Product Type	Copper Patch Cord	Product Type	Copper Patch Cord
Conductor Gauge (AWG)	28	Conductor Gauge (AWG)	28
Performance Level	Category 6	Performance Level	Category 6
Conductor Type	Stranded	Conductor Type	Stranded
Cable Construction	U/UTP	Cable Construction	U/UTP
Jacket Material	Polyvinyl Chloride	Jacket Material	Polyvinyl Chloride
Connector 1 Type	RJ45 8	Connector 1 Type	RJ45 8

Connector 2 Type	RJ45 8	Connector 2 Type	RJ45 8
Overall Length (m)	2	Overall Length (m)	2
Nominal Cable Outside Diameter (mm)	3.8	Nominal Cable Outside Diameter (mm)	3.8
Maximum Operating Temperature (°C)	75	Maximum Operating Temperature (°C)	75
Minimum Operating Temperature (°C)	-10	Minimum Operating Temperature (°C)	-10
Flammability Rating	Dual Rated (CM/LSZH) or better	Flammability Rating	Dual Rated (CM/LSZH) or better
DATA CABINET 2FT. – 2 units		***DATA CABINET 2FT. – 2 units***	
Wall mountable		Wall mountable	
H = 2'ft. x W= 600mm x D= 600mm		H = 2'ft. x W= 600mm x D= 600mm	
Top panel w/ 2 exhaust fan		Top panel w/ 2 exhaust fan	
Swing out flexi glass front door w/ push lock		Swing out flexi glass front door w/ push lock	
Vented detachable side panel w/camlock key Without back panel		Vented detachable side panel w/camlock key Without back panel	
4 x vertical adjustable mounting rail		4 x vertical adjustable mounting rail	
Vertical PDU 4 outlets duplex 3 prong universal		Vertical PDU 4 outlets duplex 3 prong universal	
Vertical cable manager at the back With Cage nut		Vertical cable manager at the back With Cage nut	
ACCESS POINT – 30 units		***ACCESS POINT – 16 units***	
It should have an approved heatmap to guarantee full W-Fi coverage for the designated areas		It should have an approved heatmap to guarantee full W-Fi coverage for the designated areas	
		Upon post-qual, a standard AP Wifi Heat Map would be required that incorporates the effects of walls/ partitions to wifi signal strength. The heat map should show the results in terms of ranges of color to denote the expected signal strength at every area of interest. The final heat map should show that there is full-wifi coverage (i.e. no dead spots) in the peripheral rooms of the first floor of the Science and Humanities Building (SHB) using at most 16 Access Points that conform to the bid specifications.	
Configure, install, and test access points		The project shall include Access Point configuration, testing and documentation for the new AP's to be jointly managed with the cluster of AP's currently deployed and used on campus.	
At least 1 Gbps maximum real-world speed (HE80/HE20)		At least 1 Gbps maximum real-world speed (HE80/HE20)	
Supports WPA3 and Enhanced Open security		Supports WPA3 and Enhanced Open security	
Good customer reviews (e.g. NO sticky client issues for Wi-Fi 6 and Wi-Fi 5 devices by placing Wi-Fi 6 capable devices on the best available AP)		Good customer reviews (e.g. NO sticky client issues for Wi-Fi 6 and Wi-Fi 5 devices by placing Wi-Fi 6 capable devices on the best available AP)	
support Orthogonal frequency-division multiple access (OFDMA) (for enhanced multi-user efficiency)		support Orthogonal frequency-division multiple access (OFDMA) (for enhanced multi-user efficiency)	
supports up to 2 spatial streams (2SS) and 80MHz channel bandwidth (HE80),		supports up to 2 spatial streams (2SS) and 80MHz channel bandwidth (HE80),	

supports handling multiple Wi-Fi 6 capable clients on each channel simultaneously, regardless of device or traffic type.	supports handling multiple Wi-Fi 6 capable clients on each channel simultaneously, regardless of device or traffic type.
supports Channel utilization optimization by handling each transaction via smaller sub-carriers or resource units (RUs)	supports Channel utilization optimization by handling each transaction via smaller sub-carriers or resource units (RUs)
supports controller-less mode and can provide SLA-grade performance by allocating radio resources, such as time, frequency, and spatial streams, to specific traffic types	supports controller-less mode and can provide SLA-grade performance by allocating radio resources, such as time, frequency, and spatial streams, to specific traffic types
supports Layer 7 deep packet inspection (DPI) to identify user roles and applications, the APs will dynamically allocate the bandwidth needed	supports Layer 7 deep packet inspection (DPI) to identify user roles and applications, the APs will dynamically allocate the bandwidth needed
supports Wi-Fi 6 aware client optimization by steering mobile devices to the best AP based on available bandwidth, types of applications being used and traffic type –even as users roam.	supports Wi-Fi 6 aware client optimization by steering mobile devices to the best AP based on available bandwidth, types of applications being used and traffic type –even as users roam.
supports Advanced Cellular Coexistence (ACC) uses built-in filtering to automatically minimize the impact of interference from cellular networks, distributed antenna systems (DAS), and commercial small cell or femtocell equipment.	supports Advanced Cellular Coexistence (ACC) uses built-in filtering to automatically minimize the impact of interference from cellular networks, distributed antenna systems (DAS), and commercial small cell or femtocell equipment.
supports continuously monitor and report hardware energy consumption. can also be configured to enable or disable capabilities based on available PoE power	supports continuously monitor and report hardware energy consumption. can also be configured to enable or disable capabilities based on available PoE power
supports WPA2-MPSK MPSK enables simpler passkey management for WPA2 devices	supports WPA2-MPSK MPSK enables simpler passkey management for WPA2 devices
supports VPN Tunnels can be used to establish a secure SSL/IPSec VPN tunnel to a VPN concentrator	supports VPN Tunnels can be used to establish a secure SSL/IPSec VPN tunnel to a VPN concentrator
supports Trusted Platform Module (TPM) for secure storage of credentials and keys, and boot code	supports Trusted Platform Module (TPM) for secure storage of credentials and keys, and boot code
supports flexible management platform either standalone, controller-less,controller-based, cloud-based and On-premise Network Management System (NMS)	supports flexible management platform either standalone, controller-less,controller-based, cloud-based and On-premise Network Management System (NMS)
supports Transmit beamforming (TxBF) Increased signal reliability and range	supports Transmit beamforming (TxBF) Increased signal reliability and range
supports Passpoint Wi-Fi (Release 2) (Hotspot 2.0) (for Seamless cellular-to-Wi-Fi carryover for guests)	supports Passpoint Wi-Fi (Release 2) (Hotspot 2.0) (for Seamless cellular-to-Wi-Fi carryover for guests)
supports Maximum Ratio Combining(MRC) Improved receiver performance	supports Maximum Ratio Combining(MRC) Improved receiver performance
support Cyclic Delay/Shift Diversity (CDD/CSD) Greater downlink RF performance	support Cyclic Delay/Shift Diversity (CDD/CSD) Greater downlink RF performance
support Space-Time Block Coding Increased range and improved reception	support Space-Time Block Coding Increased range and improved reception
support Low-Density Parity Check (LDPC) High-efficiency error correction	support Low-Density Parity Check (LDPC) High-efficiency error correction

Indoor-type , dual radio, 5GHz and 2.4GHz 802.11ax 2x2 MIMO or better	Indoor-type , dual radio, 5GHz and 2.4GHz 802.11ax 2x2 MIMO or better
Additional Documentary Requirements shall be submitted with Conformity of the Technical Specifications during the bid opening	**Additional Documentary Requirements shall be submitted with Conformity of the Technical Specifications during the bid opening**
1. Original or downloaded copies in English text from its website of any of the following □ Brochures □ Operation / Parts / Service Manuals with technological diagram or Other Product Literature and must be submitted with the bid documents.	1. Original or downloaded copies in English text from its website of any of the following □ Brochures □ Operation / Parts / Service Manuals with technological diagram or Other Product Literature and must be submitted with the bid documents.
2. Manufacturer's Certificate or Manufacturer's Authorization that the bidder is an authorized dealer/reseller for the following components: • Access Points • Cabling Products and Peripherals	2. Manufacturer's Certificate or Manufacturer's Authorization that the bidder is an authorized dealer/reseller for the following components: • Access Points • Cabling Products and Peripherals
3. The Bidder shall have a single largest completed contract similar in nature within the last three (3) years from the date of the bid opening and a completion certificate with at least very satisfactory rating.	3. The Bidder shall have a single largest completed contract similar in nature within the last three (3) years from the date of the bid opening and a completion certificate with at least very satisfactory rating.
4. Vendors Support Information (Contact Person, Complete Address, Contact Number, Email Address) of the duly authorized representative/s of the Bidder;	4. Vendors Support Information (Contact Person, Complete Address, Contact Number, Email Address) of the duly authorized representative/s of the Bidder;
5. Bidder should have a project management team to assure smooth implementation of the project: composed of at least one (1) senior certified Project Management Professional (PMP) with at least five (5) years' experience in project management and one (1) Assistant Project Manager during the implementation to oversee the project and shall be required to attend all site meetings, project meetings and project status report meetings.	5. The bidder shall have a project management team to assure smooth implementation of the project composed of: • at least one (1) PMP-trained Project Manager with certificate, to attend and oversee all project-related meetings. He or she shall have at least five (5) years of experience in project management of similar projects. • one (1) Assistant Project Manager to assist in coordination and to substitute the Project Manager in at most 20% of the meetings during cases where the Project Manager is unavailable.
6. The bidder's Project Managers shall submit a certificate of employment, CVs and a copy of a valid PMP certificate.	6. The bidder's Project Managers shall submit a certificate of employment, CVs and a copy of a valid PMP certificate.

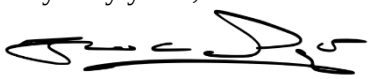
Installation practices shall comply to manufacturer best practices: • Structured cabling warranty should be at least 20 years. • One (1) Year Warranty on Workmanship	Installation practices shall comply to manufacturer best practices: • Structured cabling warranty should be at least 20 years. • One (1) Year Warranty on Workmanship

4) Floor Plan of the Science and Humanities Building (see attached)
   - SHB 1st Floor, 2nd Floor, 3rd Floor, and 4th Floor

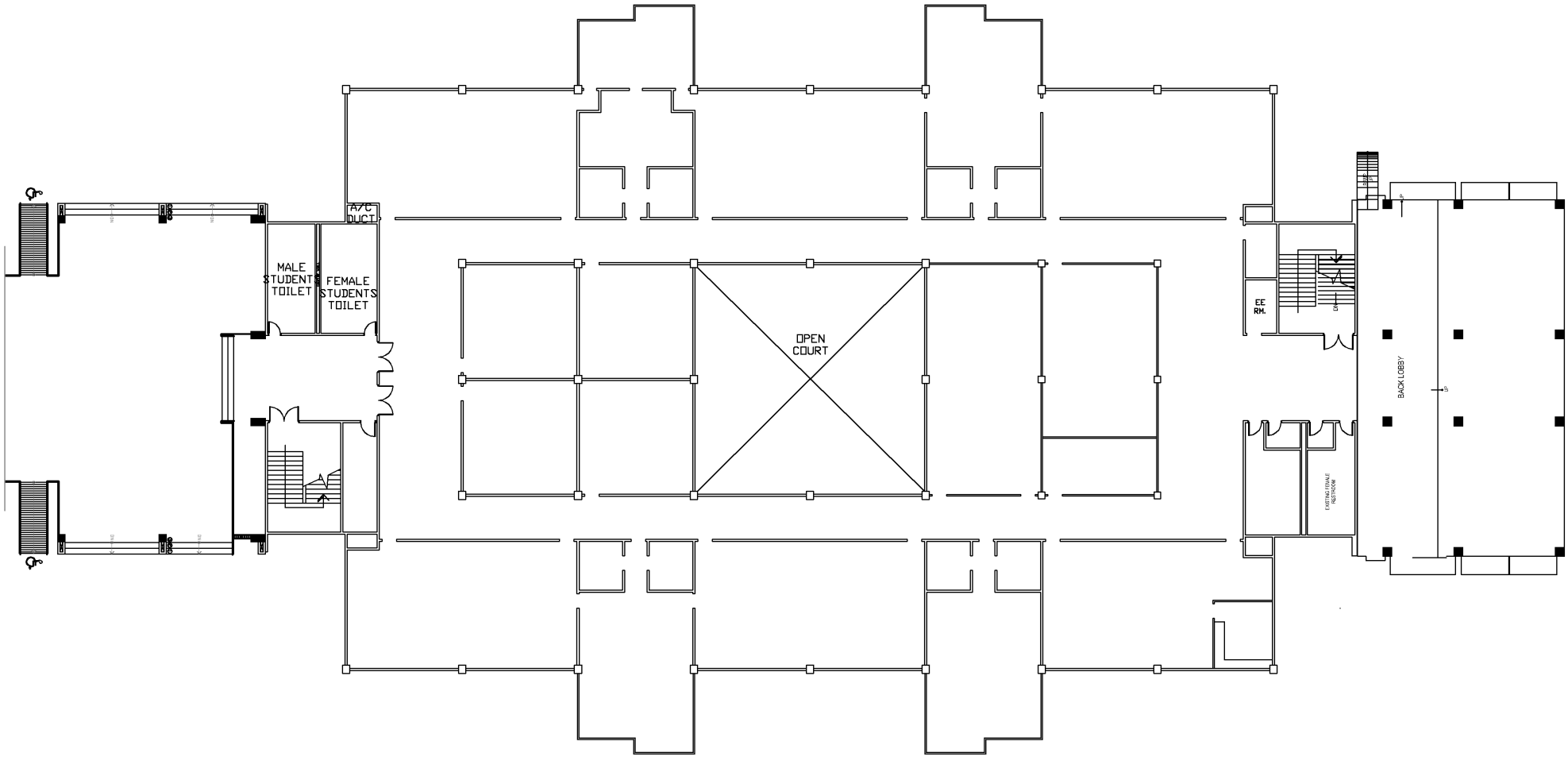
This Supplemental Bid Bulletin No. 1 shall form part of the Bidding Documents. Any provision in the Bidding Documents inconsistent herewith is hereby amended, modified and superseded accordingly.

For guidance and information of all concerned.

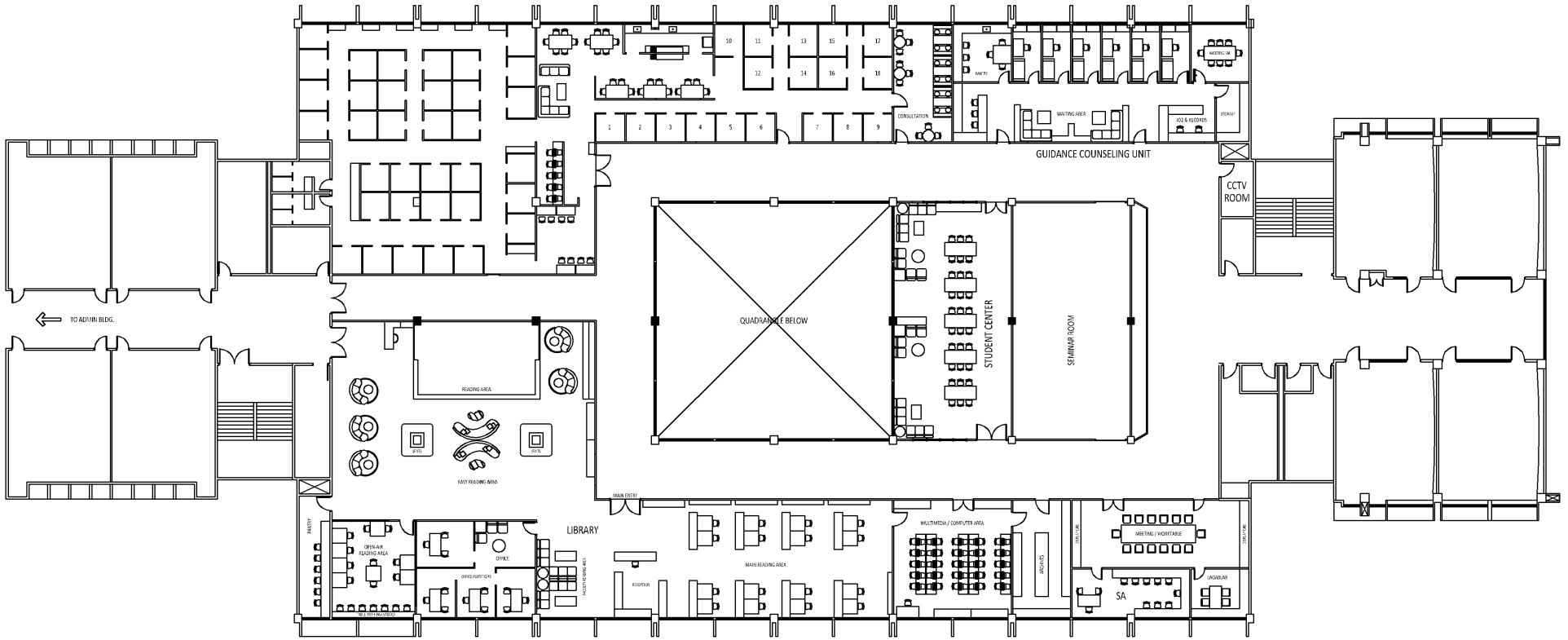
Very truly yours,



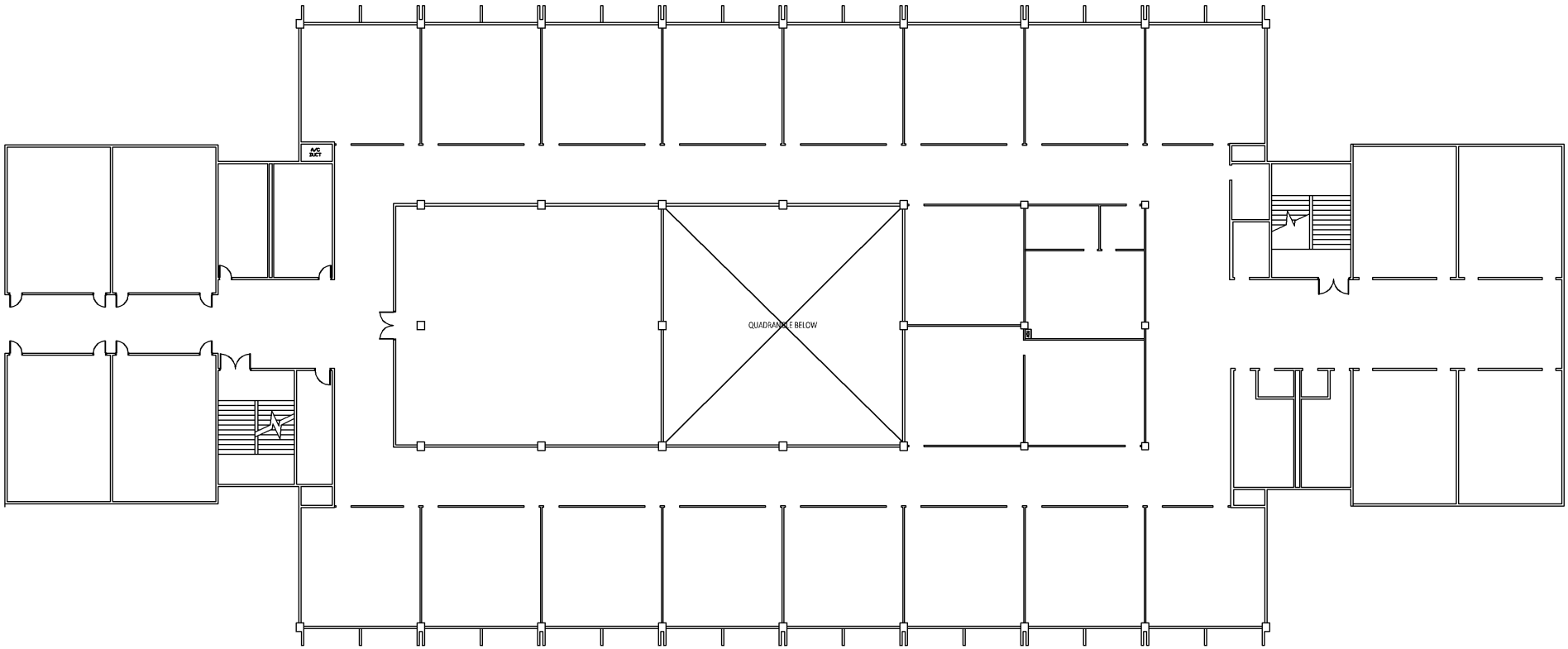
LEO ANDREI A. CRISOLOGO
Chairperson, BAC for ICT



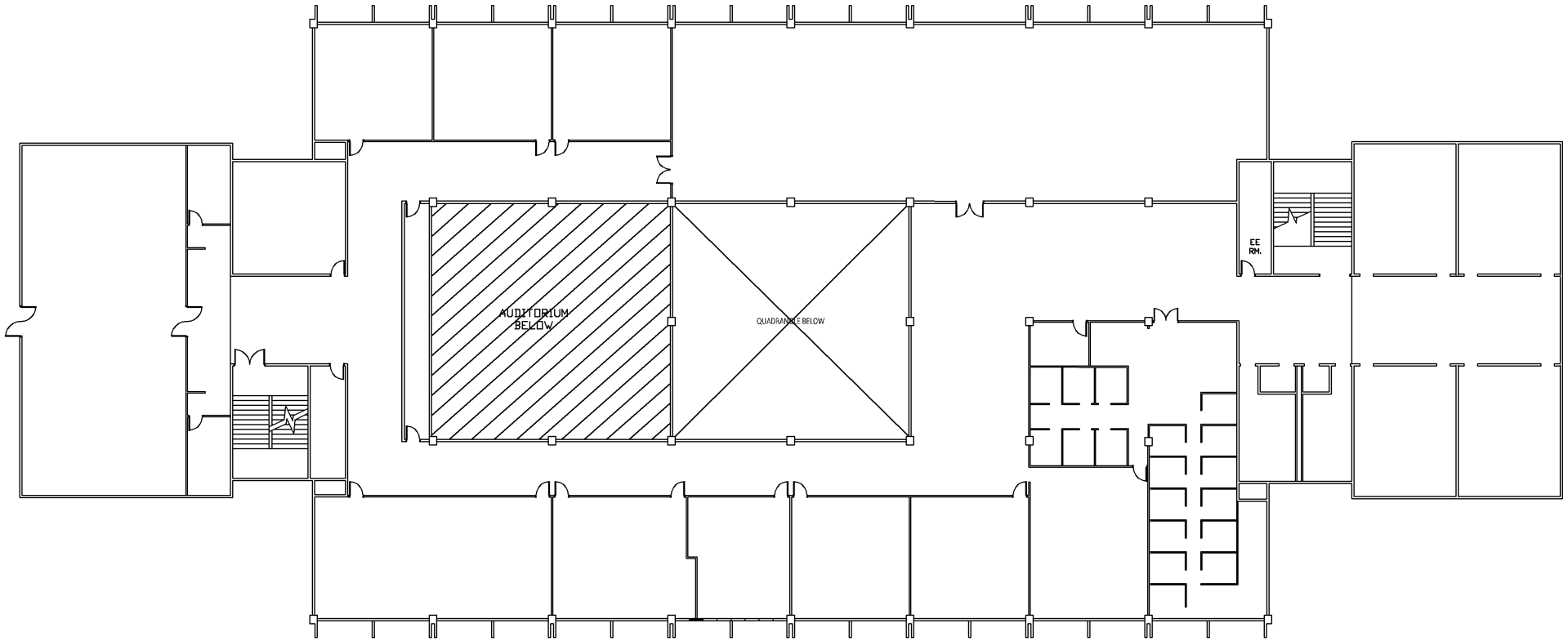
SHB 1ST FLOOR



SHB 2ND FLOOR



SHB 3RD FLOOR



SHB 4TH FLOOR