

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 Infrastructure

March 04, 2022

### **BID BULLETIN NO. 1**

This Bid Bulletin No. 1 is issued to modify or amend items in the Bid Document with Solicitation No.: 22-02-012 for the **Completion of Academic Building for Senior High Program.** 

In the Pre-Bid Conference conducted last March 02, 2022 for the above-mentioned project, the following revisions in the bidding documents were effected:

ITB Clause	Before	Revised
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: a) Construction of Multi-storey Academic Building with multi- purpose area (minimum of 5 floors). b) Completed within five (5) years	<ul> <li>For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:</li> <li>a) Construction of Multi-storey</li> <li>Academic Building with multi-purpose area (minimum of 5 floors).</li> <li>b) Completed within five (5) years</li> </ul>
	prior to the deadline for the submission and receipt of bids.	prior to the deadline for the submission and receipt of bids.
	The key personnel must meet the required minimum years of experience set below:	The key personnel must meet the required minimum years of experience set below:
	The minimum work experience requirements for key personnel are described in Annex D1. Personnel Requirements.	The minimum work experience requirements for key personnel are described in Annex D1. Personnel Requirements.
10.4	Please follow the format in Annex D2. Curriculum Vitae Format for Key Construction Personnel.	Please follow the format in Annex D2. Curriculum Vitae Format for Key Construction Personnel.
	<ul> <li>Key Personnel</li> <li>A. Project Manager</li> <li>B. Structural Engineer</li> <li>C. Project Architect</li> <li>D. Materials Engineer</li> <li>E. Construction Safety Engineer</li> <li>F. Quality Control/Quality Assurance Officer</li> </ul>	<ul> <li>Key Personnel</li> <li>A. Project Manager</li> <li>B. Structural Engineer</li> <li>C. Project Architect</li> <li>D. Materials Engineer</li> <li>E. Construction Safety Officer</li> <li>F. Quality Control/Quality Assurance Officer</li> </ul>

### 1) Amendments to Section III - BID DATA SHEET

Page No.	Before	Revised
	VI. Similar Contract	VI. Similar Contract
33	A contract shall be considered "similar" to the contract to be bid if it involves construction of a multi-storey academic building with multi-purpose area (3 floors minimum).	A contract shall be considered "similar" to the contract to be bid if it involves construction of a multi-storey academic building with multi-purpose area (5 floors minimum).
41-42	<ul> <li>V. ELIGIBILITY REQUIREMENTS <ul> <li>A. Basic</li> <li>1. The eligibility requirement for shall comply with all provisions of Sections 23 of IRR of RA 9184.</li> <li>2. A modified set of requirements integrating eligibility documents and criteria for infrastructure projects shall be adopted in accordance with Annex "E" CONTRACT IMPLEMENTATION GUIDELINES FOR THE PROCUREMENT OF INFRASTRCUTURE PROJECTS from RIRR of R.A. 9184.</li> <li>3. The Contractor mush have completed a similar project in the amount of at least fifty percent (50%) of the ABC within the last 5 years.</li> <li>4. The contract similar to the Project refers to contracts which have the same major categories of works, which shall be Construction of Multi-storey Academic Building with minimum of 5 floors.</li> </ul> </li> </ul>	<ul> <li>V. ELIGIBILITY REQUIREMENTS <ul> <li>A. Basic</li> <li>The eligibility requirement for shall comply with all provisions of Sections 23 of IRR of RA 9184.</li> <li>A modified set of requirements integrating eligibility documents and criteria for infrastructure projects shall be adopted in accordance with Annex "E" CONTRACT</li> <li>IMPLEMENTATION GUIDELINES FOR THE PROCUREMENT OF INFRASTRCUTURE PROJECTS from RIRR of R.A. 9184.</li> <li>The Contractor mush have completed a similar project in the amount of at least fifty percent (50%) of the ABC within the last 5 years.</li> <li>The contract similar to the Project refers to contracts which have the same major categories of works, which shall be Construction of Multi-storey Academic Building with multipurpose area (minimum of 5 floors)</li> </ul> </li> </ul>
42	<ul> <li>B. Key Personnel for the Project <ol> <li>The Contractor shall provide the following key personnel during the construction phase, the Bidder must assign the project professionals as shown below:</li> </ol> </li> <li>1.1. Project Manager (1) <ol> <li>Licensed Engineer or Architect</li> <li>At least 7 years of experience in construction management</li> <li>Good oral and written communication skills</li> </ol> </li> </ul>	<ul> <li>B. Key Personnel for the Project <ol> <li>The Contractor shall provide the following key personnel during the construction phase, the Bidder must assign the project professionals as shown below:</li> </ol> </li> <li>1.1. Project Manager (1) <ol> <li>Licensed Engineer or Architect</li> <li>At least 7 years of experience in construction management</li> <li>Good oral and written communication skills</li> </ol> </li> </ul>

# 2) Amendments to Section VI – SPECIFICATIONS

1.2. Structural Engineer (1)	1.2. Structural Engineer (1)
i. Licensed Structural and Civil	i. Licensed Structural and Civil
Engineer	Engineer
ii. At least 5 years (Structural) and	ii. At least 5 years (Structural) and 3
3 years (Civil) of experience in	years (Civil) of experience in
construction management	construction management
	C C
1.3. Project Architect (1)	1.3. Project Architect (1)
i. Licensed Architect	i. Licensed Architect
ii. At least 3 years of experience in	ii. At least 3 years of experience in
construction management	construction management
iii. With experience in actual	iii. With experience in actual
construction	construction
construction	construction
1.4. Materials Engineer (1)	1.4. Materials Engineer (1)
	i. Licensed Engineer
i. Licensed Engineer ii. DPWH Accredited Material	ii. DPWH Accredited Material
Engineer II or I	Engineer II or I
iii. With experience in actual	iii. With experience in actual
construction	construction
1.5. Construction Safety Engineer (1)	1.5. Construction Safety Officer (1)
i. Licensed Engineer/Architect	i. Must have undergone the
ii. DOLE accredited/trained	prescribed 40-hour Construction
	Safety and Health Training
1.6. Quality Control/Quality Assurance	(COSH) by the Occupational
Officer (1)	Safety and Health Center, BOSH
i. Licensed Architect/Engineer	certified or any accredited
with experience as QA/QC	training institution
ii. With experience in construction	-
	1.6. Quality Control/Quality Assurance
	Officer (1)
	i. Licensed Architect/Engineer with
	experience as QA/QC
	ii. With experience in construction
	in the experience in construction

## 3) Amendments to Section VIII - BILL OF QUANTITIES

- See attached updated BOQ
- 4) Amendments to Section IX CHECKLIST OF TECHNICAL AND FINANCIAL DOCUMENTS

### **Checklist of Technical and Financial Documents**

## I. TECHNICAL COMPONENT ENVELOPE

## Class "A" Documents

#### Legal Documents

□ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) *in accordance with Section 8.5.2 of the IRR*;

#### Technical Documents

100	mncui	Documents
	(b)	Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether
		similar or not similar in nature and complexity to the contract to be bid; and
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	(c)	Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the
		contract to be bid, except under conditions provided under the rules; and
	(d)	Philippine Contractors Accreditation Board (PCAB) License at least Category B;
		<u>or</u>
		Special PCAB License in case of Joint Ventures;
		and registration for the type and cost of the contract to be bid; and
	(e)	Original copy of Bid Security. If in the form of a Surety Bond, submit also a
	(0)	
		certification issued by the Insurance Commission;
		<u>or</u>
		Original copy of Notarized Bid Securing Declaration; and
	(f)	Project Requirements, which shall include the following:
		a. Organizational chart for the contract to be bid;
		b. List of contractor's key personnel ( <i>e.g.</i> , Project Manager, Project Engineers,
		Materials Engineers, and Foremen), to be assigned to the contract to be bid,
		with their complete qualification and experience data;
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		c. List of contractor's major equipment units, which are owned, leased, and/or
		under purchase agreements, supported by proof of ownership or certification
		of availability of equipment from the equipment lessor/vendor for the duration
		of the project, as the case may be; and
		<b>r J · · · · · · · · · · · · · · · · · · ·</b>

(g) Original duly signed Omnibus Sworn Statement (OSS);
 and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

 $\square$  (h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

#### Class "B" Documents

☐ (i) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No.
 4566 and its IRR in case the joint venture is already in existence;

or

duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

Additional documentary requirement/s by the Procuring Entity

- □ (j) Supplemental Bid Bulletin/s; and
- $\Box$  (k) Certificate of Site Inspection.

### **II. FINANCIAL COMPONENT ENVELOPE**

 $\Box$  (1) Original of duly signed and accomplished Financial Bid Form; <u>and</u>

Other documentary requirements under RA No. 9184

- $\Box$  (m) Original of duly signed Bid Prices in the Bill of Quantities; and
- (n) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; and
- $\Box \quad (o) \quad Cash Flow by Quarter.$

Before	Revised
<ul> <li>1.5. Construction Safety Engineer (1)</li> <li>i. Licensed Engineer/Architect</li> <li>ii. DOLE accredited/trained</li> </ul>	1.5. Construction Safety Officer (1)i.Must have undergone the prescribed 40- hour Construction Safety and Health Training (COSH) by the Occupational Safety and Health Center, BOSH
	certified or any accredited training institution

### 5) Amendments to Annex D1 – PERSONNEL REQUIREMENTS

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,

MELANIE ANNE B. CHENG, Ph.D. Chairperson, BAC for Infrastructure

#### **BILL OF QUANTITIES**

: COMPLETION OF PSHS ACADEMIC BUILDING : Agham Road, Diliman Quezon City : Philippine Science High School Main Campus Project

Location Owner

Date : February 18, 2022

Item No.	Description	Unit	Qty	Materials		La	bor	Direct Cost	Mark Ups			Indirect Cost	Unit Cost	Total Cost
	·			Unit cost	Amount	Unit cost	Amount		ОСМ	Profit	VAT		1	
DIV. 1	GENERAL REQUIREMENTS								12%	8%	5%			
1.1	Complete Support Utilities (Field Office for the General Contractor; Storage and Fabrication Sheds; Dewatering Facilities and Drains; Temporary Enclosure; Temporary Stairs, Lifts, and Hoists; Temporary Exterior Lighting; Collection and Disposal of Waste and Oearing; Temporary Environmental Controls; and Temporary Barracks for On- Site Laborers/Man Power	lot	1.00											
1.2	Complete Supply of Health, Safety and Security (Rrst Ald Facilities; Health and Safety Officer; Security Guards for Site and Agency; Temporary Are Protection; Barricades, Warning Signs and Lights; Environmental Protection and Traffic Ways	lot	1.00											
1.3	Supply and Installation of Project Signs Complete	lot	1.00											
1.4	Demobilization SUB- TOTAL OF GENERAL REQUIREMENTS	lot	1.00											
DIV. 3	CONCRETE													
3.1	Complete Supply and Installation of Reinforcing Bars Grade 40 as per													
	Plans, Drawing Details and Specifications													
3.1.1	Column	kgs.	2,496.48											
3.1.2	Beams Slabs	kgs.	1,401.51 1,454.69											
3.1.3	Slabs Fire Exit Stairs	kgs.	2,182.47											
3.1.4	Main Stairs & Observatory Stair	kgs. kgs.	2,182.47 2,981.25											
3.1.5	Bleacher	kgs.	11,417.03											
3.1.7	Others (Specify): G.I. Tie wires	kgs.	772.06											
3.2	Complete Supply and Installation of Formworks as per specifications	кдэ.	772.00											
3.2.1	Column	sq.m.	52.68											
3.2.2	Beams	sq.m.	42.04											
3.2.3	Slabs	sq.m.	81.19											
3.2.4	Fire Exit Stairs	sq.m.	81.50											
3.2.5	Main Stairs & Observatory Stair	sq.m.	115.58											
3.2.6	Corbel Trusses	sq.m.	84.79											
3.2.7 3.3	Bleacher Complete Supply and Installation of concrete as per Plans, Drawing	sq.m.	71.67											
	Details and Specifications		22.24											
3.3.1 3.3.2	Column Beams	cu.m. cu.m.	22.21											
3.3.2	Slabs	cu.m.	8.70 13.63											
3.3.3	Fire Exit Stairs	cu.m.	9.85											
3.3.4	Main Stairs & Observatory Stair	cu.m.	30.43											
3.3.6	Corbel Trusses	cu.m.	15.98											
3.3.7	Bleacher	cu.m.	73.07											
3.4	Pre-Cast	sq.m.	530.96											
	SUB· TOTAL OF CONCRETE													
DIV.4	MASONRY													
4.1	Complete Supply and Installation of Hollow Blocks (CHB) as per Plan, Drawing Details and Specifications													
4.1.1	150mm \ 5"Thk. CHB, Including Steel Reinforcement, Mortar and Tie Wires, Complete	sq.m.	1,894.07											
4.2	Complete Supply and Installation of Concrete Zocallo as per Plan, Drawing Details and Specifications													
4.2.1	150mm Thk. Zocallo	l.m.	313.41											
4.3	Complete Supply and Installation of Lintel Beam as per Plan, Drawing Details and Specifications													
4.3.1	150mm Thk. Lintel Beam	l.m.	237.07											
4.4	Complete Supply and Installation of Stiffener Column as per Plan, Drawing Details and Specifications													
4.4.1	150mm Thk. Stiffener Column	l.m.	409.85					l .			1			

Item No.	Description	Unit	Qty	Ма	terials	La	bor	Direct Cost		Mark Ups		Indirect Cost	Unit Cost	Total Cost
				Unit cost	Amount	Unit cost	Amount		ОСМ	Profit	VAT			
	SUB- TOTAL OF MASONRY													
DIV.5	METALS													
5.1	Complete Supply and Installation of Steel Roof Framing System as per													
5.1.1	Plan, Drawing Details and Specifications Steel Trusses	kgs.	36.386.93											
5.1.2	Purlins	kgs.	44,597.54											
5.1.3	Sag Rod & Cross Bracing Support Connection & Accessories	kgs.	1,606.60											
	SUB- TOTAL OF METAL													
DIV.7	THERMAL AND MOISTURE PROTECTION													
7.1	Complete Supply and Installation of Roofing System as per Plan, Drawing Details and Specifications													
7.1.1	Rib-Type, Pre-Insulated Sandwich, Pre-Palnted Long Span Roofing Panels	sq.m.	1,450.00											
7.1.2	Roofing Accessories (Gutter, Rashing , Ridge Roll, etc .)	lot	1.00											
	Complete Supply and Installation of Waterproofing System as per													
7.2	Plan, Drawing Details and Specifications													
7.2.1	WP-1 - Polyurethane Membrane Waterproofing (Deck water proofing and Toilets)	sq.m.	632.60											
7.2.2	WP-2 - Acrylic Polymer Cementitious Waterproofing system (Ledges and parapet wall)	sq.m.	835.80											
7.2.4	WP-4 - Nanoblock Waterproofing	sq.m.	14.20 713.00											
1.2.5	WP-5 - Nanoblock Waterproofing with Water Tank Lining	sq.m.	/13.00											
	SUB- TOTAL OF THERMAL & MOISTURE PROTECTION													
DIV.8	OPENINGS													
8.1	Complete Supply and Installation of Doors complete with door knobs & accessories as per Plan, Drawing Details and Specifications													
8.1.1	D-1a - Swing Type Grille Works (5300 x 2600)	set/s	2.00											
8.1.2	D-1d- Swing Type Grille Works (1600 x 2600)	set/s	1.00											
8.1.3	D-1e- Swing Type Grille Works (1100 x 2600)	set/s	1.00											
8.2	Complete Supply and Installation of Windows complete with accessories as per Plan, Drawing Details and Specifications													
8.2.1	W-1a - Jalousie Window (1900x 2850mm)	set/s	3.00											
8.2.2	W-1b- Jalousie Window (5000 x 2400mm)	set/s	1.00											
8.2.3 8.2.4	W-2a - Jalousie Window (6000 x 2400mm) W-2b- Jalousie Window (5000 x 2400mm)	set/s set/s	4.00 2.00											
8.2.4	W-20 - Jalousie Window (3000 x 2400mm) W-2c - Jalousie Window (3000 x 2400mm)	set/s	2.00											
8.2.6	W-3 -Jalousie Window (4000 x 1700mm)	set/s	1.00											
8.2.7	W-4 - Jatousle Window (3000 x 1700mm)	set/s	5.00											
8.2.8	W-5- Jalousie Window (2000 x 1700mm)	set/s	18.00											
8.2.9 8.2.10	W-6a- Jalousie Window (1700 x 1700mm) W-6b- Jalousie Window (1600 x 1700mm)	set/s set/s	8.00 8.00											
8.2.10	W-7- Jalousle Window (1500 x 1700mm)	set/s	42.00											
8.2.12	W-8- Jalousie Window (1400 x 1700mm)	set/s	17.00											
8.2.13	W-9 - Jalousie Window (1300 x 1700mm)	set/s	17.00											
8.2.14	W-10- Jalousie Window (1200 x 1700mm)	set/s	57.00											
8.2.15 8.2.16	W-11 -Jalousie Window (1100 x 1700mm) W-12 -Jalousie Window (1000 x 1700mm)	set/s set/s	44.00 6.00											
8.2.10	W-12 - Jalousie Window (1000 x 1700mm) W-13 - Jalousie Window (950 x 1700mm)	set/s	16.00											
	W-14 -Jalousie Window (850 x 1700mm)	set/s	4.00											
8.2.19	W-15a -Jalousie Window (3000 x 750mm)	set/s	10.00											
8.2.20 8.2.21	W-15b -Jalousie Window (2000 x 750mm) W-15c -Jalousie Window (1600 x 750mm)	set/s	2.00			-								
8.2.21 8.2.22	W-15c -Jalousie Window (1600 x 750mm) W-15d -Jalousie Window (1500 x 750mm)	set/s set/s	1.00											
8.2.22	W-150 -Jalousie Window (1500 x 750mm)	set/s	5.00							1				
8.2.24	W-15f -Jalousie Window (1000 x 750mm)	set/s	8.00											
8.2.25	W-16a- Jalousie Window & Aluminum Framed Fixed Glass Panels (6000 x 1700mm)	sets	3.00											
8.2.26	W-16b- Jalousie Window & Aluminum Framed Fixed Glass Panels (5000 x 1700mm)	sets	3.00											
8.2.27	W-16c- Jalousie Window & Aluminum Framed Fixed Glass Panels (4000 x 1700mm)	sets	3.00											
8.2.28	W-16d- Jalousie Window & Aluminum Framed Fixed Glass Panels (3000 x 1700mm)	sets	10.00											
8.2.29	W-16e- Jalousie Window & Aluminum Framed Fixed Glass Panels (2000 x 1700mm)	sets	9.00											

Item No.	Description	Unit	Qty	Ma	terials	La	bor	Direct Cost		Mark Ups		Indirect Cost	Unit Cost	Total Cost
				Unit cost	Amount	Unit cost	Amount		ОСМ	Profit	VAT			
8.2.30	W-16e- Jalousie Window & Aluminum Framed Fixed Glass Panels (1000 x 1700mm)	sets	17.00											
8.2.31	W-17- Aluminum Framed Fixed Glass Panels & Sliding Windows with Jalousie Transom (3000 x 750mm)	set	1.00											
8.2.32	W-18a- Aluminum Framed Fixed Glass Panels Transom (5000 x 750mm)	set	1.00											
8.2.33	W-18b- Aluminum Framed Fixed Glass Panels Transom (3000 x 750mm)	set	1.00											
8.2.34	W-19a- Jalousie Window (6750 x 3850mm)	set	1.00											
8.2.35	W-19b- Aluminum Framed Fixed Glass Panels with Jalousie (6750 x 3850mm)	sets	2.00											
8.2.36	W-19c- Aluminum Framed Fixed Glass Panels with Jalousie (6750 x 2720mm)	set	1.00											
8.3	Complete Supply and Installation of Glass Wall Partition with accessories as per Plan, Drawing Details and Specifications													
8.3.1	GP-1- Glass Wall Partition (5200 x 2600)	sets	6.00											
8.3.2	GP-2- Glass Wall Partition (3725 x 2600)	sets	3.00											
	SUB - TOTAL OF OPENINGS													
DIV.9	FINISHES													
9.2	Complete Supply and Application of Wall Finishes as per Plan, Drawing Details and Specifications													
	WF-1a- Exterior CHB Wall (150mm Thick)	sq.m.	2,148.43											
9.2.2 9.2.3	WF-2a- Exterior Concrete Columns	sq.m.	714.89 1,639.60											
	WF-3a- Exterior Parepet Walls and Ledges WF-4a- Exterior Pre-cast Concrete Wall	sq.m. sq.m.	2,488.18											
	SUB- TOTAL OF FINISHES													
DIV. 22	PLUMBING													
22.2	Complete Supply and Installation of Sewer, Waste and Vent System as per Plans, Drawing Details and Specifications													
22.2.1	Soil Stacks and Collector													
	100mmØ PVC Pipe Soil Stacks and Collector	lm	347.85											
	150mmØ PVC Pipe Soil Stacks and Collector	Im	80.77 238.75											
	200mmØ PVC Pipe Soil Stacks and Collector Horizontal Pipes	lm	238.75					1						
	50mmØ PVC Horizontal Pipes	lm	543.97											
	Vent Stack and Vent Lines													
	50mmØ PVC Pipe Vent Stacks and Vent Lines	l.m	737.25											
	75mmØ PVC Pipe Vent Stacks and Vent Lines 100mmØ PVC Pipe Vent Stacks and Vent Lines	l.m l.m	398.12 334.22					1						
	Complete Supply and Installation of Storm Drainage system, Downspout, Collector Perforated Perimeter Pipe Including Fittings		551.22											
22.5	and Accessories as per Plans, Drawing Details and Specifications													
	Inside pipes: Downspout and collector													
	75mmØ Downspout and Collector	l.m	700.80											
	100mmØ Downspout and Collector Outside Drainage Pipes	l.m	127.00					1						
	200mmØ Pvc Drainage Pipe	l.m	10.00					1						
22.3.2.2	250mmØ Pvc Drainage Pipe	l.m	30.00											
	300mmØ Pvc Drainage Pipe	l.m	35.00											
22.3.2.4	350mmØ Pvc Drainage Pipe 400mmØ Pvc Drainage Pipe	l.m l.m	20.00 38.00											
			30.00				1	1						
22.3.3.1	75mmØ Canopy Drain	pcs	4.00											
	Area Drain/Catch Basin	pcs	19.00											
	Perforated Pipes 100mmØ Pvc Perforated Pipe	l.m	30.00											
	Floor Drains		30.00											
22.3.6.1	100mmØ Floor Drain	pcs	14.00											
	Roof / Gutter Drains													
22.3.7.1 22.3.8	100mmØ Roof/ Gutter Drain	pcs	14.00											
	Condensate Drain Pipes and Fittings w/ Insulation 25mmØ Condensate Drain Pipes and Fittings with Insulation	l.m	216.00					1						
22.3.8.2	50mmØ Condensate Drain Pipes and Fittings with Insulation	l.m	480.00											
22.3.8.3	100mmØ Condensate Drain Pipes and Fittings with Insulation	l.m	50.00											
22.3.8.4	150mmØ Condensate Drain Pipes and Fittings with Insulation	l.m	30.00											
22.4	Supply and Installation of Equipments, Controller and Accessories as per Plans, Drawing Details and Specifications													<u> </u>

Item No.	Description	Unit	Qty	Ma	terials	La	ibor	Direct Cost	Mark Ups	/lark Ups		Unit Cost	Total Cost	
				Unit cost	Amount	Unit cost	Amount		ОСМ	Profit	VAT			
	Booster Pump, Cap./Unit = 90 GPM vs 250 FT. TOH, Approx.= 10 HP Each. 2-Duty, 1-Stand By & controller	set/s	1.00											
22.4.2	Hydropneumatic tank (Diaphragm Tank) Cap. = 120 US Gals.	set/s	2.00											
	Booster Pump Cap./Unit = 75 GPM vs 262 FT. TOH Approx.= 10 HP Each, 2-Duty, 1-Stand By & controller	set/s	1.00											
	SUB-TOTAL OF PLUMBING													
DIV. 26	ELECTRICAL													
26.1	Tapping of Academic Building Power Supply Requirements to the Existing Power Source as per Plan, Drawing Details and Specifications													
26.1.1	Wire, 200mm <sup>2</sup> THHN/THW	l.m	2,790.00											
	SUB - TOTAL OF ELECTRICAL													
	TOTAL AMOUNT OF CONSTRUCTION													-