## Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item No.	Description	Quantity	Unit	Delivered, Weeks/Months
1	Box Wrench 46pcs Tool Box Set socket wrench	2	sets	Sixty (60) calendar days
2	Claw Hammer 8Oz. Fiber Glass	2	pcs	Sixty (60) calendar days
3	Cordless Reciprocating Saw 48V, +4 Saw blades Metal Cutting Wood Tool Portable Woodworking Cutters With 2PCS Batteries	2	sets	Sixty (60) calendar days
4	Digital Clamp Meter AC Current NCV AC/DC Voltage Tester	15	pcs	Sixty (60) calendar days
5	Digital Multimeter 6000 Counts/2000 Counts True RMS Auto Ranging NCV AC/DC Voltage Current Resistance Multi-Tester	15	pcs	Sixty (60) calendar days
6	Heavy Duty Bolt Cutter 18""/450mm AK-0625	2	pcs	Sixty (60) calendar days
7	Metal Drill Hand Tool punch1x 155mm Centre Punch Automatic Adjustable Spring Loaded	2	pcs	Sixty (60) calendar days
8	Multifunctional Electrician Pliers Long Nose Pliers Wire Stripper Cable Cutter Terminal Crimping Hand Tools	20	pcs	Sixty (60) calendar days
9	Original Spirit Level 80 cm	2	pcs	Sixty (60) calendar days
10	Pipe bender in 1 Tube Bender	2	pcs	Sixty (60) calendar days
11	Pipe Threader PVC Thread Maker Pipe Threader Tool Set 1/2 3/4 1 NPT Tube	2	sets	Sixty (60) calendar days
12	rechargeable wood cutting saw 20V Lithium automatic DC Cordless Battery 20V cordless reciprocating saw cutting metal	2	pcs	Sixty (60) calendar days
13	Soldering Iron 90W Constant Temperature Electric Soldering Iron 180~480°C Temperature 300 watts	10	pcs	Sixty (60) calendar days
14	Tap Reamer 12Pcs/Set Metric Hand Tap Die Set M3-M12 Screw Thread Plugs Straight Taper Wrench Reamer Tool	2	sets	Sixty (60) calendar days
15	Wire Stripper Long Needle Nose Nipper Electric Wire Stripper Cable Cutting Tool Pliers	2	pcs	Sixty (60) calendar days

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Schedule of Requirements - Proposed Procurement for the Supply and Delivery of EMT Laboratory Equipment

Sixty (60) Wire Stripping Tool Self-adjusting & 20 16 pcs Automatic calendar days Sixty (60) Ball Pein Hammer 2 17 pcs calendar days Sixty (60) Electrician Knife 2 18 pcs calendar days 19 **ELECTRO-PNEUMATICS TRAINER** Includes the following: Aluminum profile frame with Aluminum bar rack,1200(L)x750(W)x30(T)mm Air service unit Air distributor Single-acting cylinder (Ø: 25mm, stroke: 50 Double-acting cylinder w/ cushion/proximity switch (Ø: 25 mm, stroke: 125 mm) T-connector, 4mm One-way flow control valve 3/2-way solenoid valve (N/C) Solenoid Valve Module (24 Vdc, with 4mm terminal bushings) • 5/2-way Single Solenoid Valve (3 units) • 5/2-way Double Solenoid Valve (3 units) • Shut-off Valve (1 unit) Cylinder Control Module • Double-acting cylinder (3 units) • Reed sensors for detecting movement (6 pcs) Sixty (60) 1 pcs 5/2-way single solenoid valve calendar days 5/2-way double solenoid valve 5/3-way solenoid Valve (All Block) Input Switch Module with ( with 4mm terminal bushings) 4 Push-button switches 2 Selector switches 1 Emergency switch 8 Toggle switches 4 Digits Thumb wheel digital switch Relay unit module with 3 relays (4-set changeover contacts each coil)) Digital Timer relay module (1 On-dealy and 1 Off delay) 1~99 sec delay Inductive sensor, PNP, 10~30 Vdc Capacitive sensor, PNP, 10~30 Vdc Optical sensor, PNP, 10~30 Vdc Optical Fiber Sensor, PNP, 12~24 VDC +/-10% Electrical limit switch, left-actuated Electrical limit switch, right-actuated

 $Schedule\ of\ Requirements-Proposed\ Procurement\ for\ the\ Supply\ and\ Delivery\ of\ EMT\ Laboratory\ Equipment\ for\ USTP-Villanueva\ Campus$ 

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	Pneumatic hose 4mm Pneumatic Hose 6mm Hose cutter Cable set (4mm of various colors and lengths sufficient to the exercises) Power supply (24 Vdc, 5A) Electro-pneumatics textbook Electro-pneumatics workbook (Advanced level) Air Compressor			
20	FLAT FILE SMOOTH 6"	2	pcs	Sixty (60) calendar days
21	Heat Gun 2000W	5	pcs	Sixty (60) calendar days
22	PROGRAMMABLE LOGIC CONTROLLER TRAINER Includes the following: Programmable Logic Controller Trainer • Programmable Logic Controller • Digital Input: at least 14 • Digital Output: at least 10 • 4 mm Safety socket type I/O terminals • DB-25 Input and Output interface. • Power switch, AC cord, Fuse holder with Fuse • Ethernet cable • TIA Portal Software • Aluminum enclosure with 2 sets of one-touch clamp system Push-button Switch Set Module • Power: DC 24V • 2 sets Momentary push-buttons with pilot indicator • 1 set of Detent / Locking push-button with pilot indicator • 4 mm bushings for I/O terminals • Contact: 4-set each buttons (2 N.O. and 2 N.C.) • Contact allowable: Max, 1A • Aluminum enclosure with 2 sets of one-touch clamp mounting Output Display Module • 2 Pilot lights • 8 LED lights • 1 Buzzer • 4 Digits Display (FND) • 4mm bushings / terminal socket • DB-25 Interface • Aluminum enclosure with 2 sets of one-touch clamp mounting Optical Fiber Sensor	l	pcs	Sixty (60) calendar days

 $Schedule\ of\ Requirements\ -\ Proposed\ Procurement\ for\ the\ Supply\ and\ Delivery\ of\ EMT\ Laboratory\ Equipment\ for\ USTP-Villanueva\ Campus$ 

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	Output: Normally Open / Normally Closed,     PNP			
	• Power: 12~24 VDC +/- 10%			
	Metal bracket mounted on one-touch clamp			
	mounting			
	Terminals with 4mm bushing socket			
	Optic Fiber w/ Separated Bracket			
	• Fiber cable diameter: 2.2 mm, Length: 2,000			
	mm			
	Metal brackets mounted on one-touch clamp			
	mounting			
	Optic Fiber w/ a bracket			
	• Fiber cable diameter: 2.2 mm, Length: 2,000			
	mm			
	Metal brackets mounted on one-touch clamp			
	mounting			
	PLC Manual and Exercises			
23	6pcs Insulated Screwdriver Set 1000V, Round	2	nog	Sixty (60)
23	Shank IHT	2	pcs	calendar days
24	Basic ARDUINO Package			
	The Arduino Starter Kits featuring the Arduino			
	Uno microcontroller board			
	Primarily an educational tool for newcomers to			
	Arduino and electronics,			
	the starter kits are also suitable for the			
	experienced designer.			
	Using the included Arduino Projects Book, you			
	can gain step-by-step knowledge on code, circuits and bread-boards			
	via 15 suggested projects			
	(although the starter kit is not limited to these			
	projects).			
	projects).			
	The ARDUINO Trainer must able to perform	4	pcs	Sixty (60)
	the following experiments:		P	calendar days
	1) Learning the tools			
	2) Spaceship interface			
	3) Love-o-meter			
	4) Colour Mixing Lamp			
	5) Servo-motor Mood indicator			
	6) Light Theremin			
	7) Keyboard			
	8) Digital Hourglass			
	9) Motorised Pinwheel			
	10) Zoetrope			
	11) Magic 8-ball 12) Knock lock			
	,			
	13) Touch Sensor Lamp	L,		



***** Nothing Follows****				
25	Wire Stripper / Splicer	10	pcs	Sixty (60)
	projects).			
	via 15 suggested projects (although the starter kit is not limited to these			
	knowledge on code, circuits and bread-boards			
	can gain step-by-step			
	Using the included Arduino Projects Book, you			
	the starter kits are also suitable for the experienced designer.			
	Arduino and electronics,			
	Primarily an educational tool for newcomers to			
	The Arduino Starter Kits featuring the Arduino Uno microcontroller board			
	· 8 green LEDs			
	· 1 RGB LED · 8 red LEDs			
	· I white LED			
	· 1 LCD (16x2i)			
	· I tilt sensor			
	· I temperature sensor			
	· 3 trimmer d10KOhm · 10 pushbuttons			
	· 6 photoresistors			
	· 2 flexible cables			
	· 1 70 hard cables			
	· 1 9V battery snap			
	· 1 Easy to assemble wood base			
	· 1 USB cable · 1 Breadboard			
	· 1 Arduino Uno rev.3 microcontroller board			
	· 1 Arduino Project Book (170 pages)			
	following technical data:			
	The Arduino Kit must composed of the			
	<ul><li>14) Tweak the Arduino logo</li><li>15) Hacking buttons</li></ul>			

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