

PB-T/Q/SSE/2024-2025/01
**SUPPLY AND DELIVERY OF TOOLS AND CONSUMABLES FOR
 SHELL ECO MARATHON COMPETITION,
 SCHOOL OF SCIENCE AND ENGINEERING, POLITEKNIK BRUNEI,
 NEGARA BRUNEI DARUSSALAM**

ITEM ITEM	BANYAK QUANTITY	KETERANGAN DESCRIPTION
1	1 set	Socket Set (24 pieces) The set include: <ul style="list-style-type: none"> • 1/2 inch drive quick release ratchet x1 • 1/2 inch drive extensions: 130mm & 250mm x1 • 1/2 inch drive universal joint x1 • 1/2 inch drive sliding T-handle x1 • 1/2 inch drive spark plug socket: 21mm x1 • 1/2 inch drive 6 point socket in mm x18 (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 27, 30, 32mm)
2	1 set	Extra Long Type Ball Point Hex Key Wrench Set (9 pieces) <ul style="list-style-type: none"> • Size: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm
3	1 set	Ring Spanner Set (8 pieces) <ul style="list-style-type: none"> • Sizes: 4 - 8mm
4	1 unit	Utility Cutter <ul style="list-style-type: none"> • Blade guard and tool lock to provide safe storage • Cutting depth: Approximately 0.28" • Dimensions (LxWxH): Approximately 9.65" x 2.5" x 1.08" • Weight: Approximately 0.92lb
5	1 unit	Wire Cutter <ul style="list-style-type: none"> • Length: Approximately 6"
6	1 unit	Scissor <ul style="list-style-type: none"> • Material: stainless steel with plastic handle • Length: Approximately 180mm
7	1 pack	Steel Hex Nut M4
8	1 pack	Head Machine screw
9	1 unit	Sliding T-Handle <ul style="list-style-type: none"> • Drive Size: 1/2" • Length: Approximately 303mm
10	3 sets	Philip Slotted Anti Slip Screwdriver <ul style="list-style-type: none"> • 1 set (3 slotted head and 3 Philips head) x6 pcs • Material: Non-slippery grip for handle • Length: - 3 slotted heads: 1/8" x 2", 3/16" x 4" and 1/4" x 4" - 3 Philip heads: #0 x 2-1/2", #1 x 3" and #2 x 4"
11	1 unit	Slip Joint Plier <ul style="list-style-type: none"> • Length: Approximately 6"

12	1 unit	Diagonal Cutting Pliers
		<ul style="list-style-type: none"> • Overall length: Approximately 15.6cm • Material: Steel • Jaw length: Approximately 1.8cm • Jaw width: Approximately 1.9cm • Jaw thickness: Approximately 2.1cm • Cutting knives: Standard • Cutting style: Standard • Handle finish: Plastic dipped • Weight: Approximately 172g
13	1 unit	Box joint water pump pliers
		<ul style="list-style-type: none"> • Size: Approximately 10" • Grip capacity: 42mm (diameter)
14	1 unit	Flat Nose pliers
		<ul style="list-style-type: none"> • Length: Approximately 160mm • Jaw opening: Approximately 14mm • Jaw width: Approximately 9mm • Zinc plated handles with soft plastic grips
15	1 unit	Soft face hammer (replaceable)
		<ul style="list-style-type: none"> • Comes with two interchangeable and replaceable soft faces hammer heads, PU (yellow) and Nylon (white) durable plastic material • Head diameter: Approximately 35mm • Length: Approximately 303mm
16	1 unit	Dead blow hammer
		<ul style="list-style-type: none"> • Head weight: Approximately 1500g
17	1 set	File set
		Set includes:
		<ul style="list-style-type: none"> • 8" square file • 8" flat file • 8" half round file • 8" round file
18	1 unit	Handy File
		<ul style="list-style-type: none"> • Length: Approximately 8"
19	1 set	Pin pouch set (6 pcs)
		<ul style="list-style-type: none"> • Pinch punch diameter: 2mm, 3mm, 4mm, 5mm, 6mm and 8mm
20	4 units	Tie Rod
		<ul style="list-style-type: none"> • M6 with length 11"
21	5 units	DC DC Converter 5V 500mA
		<ul style="list-style-type: none"> • Mounting style: Through hole • Number of outputs: 1 • Output power: 3 W • Input voltage (min): 4.5V • Input voltage (max): 9 V • Output voltage channel 1: 5V • Output current channel 1: 500mA

22	4 units	Heatsink Solder Mount
		<ul style="list-style-type: none"> • Stock length: Approximately 75" • Width: Approximately 8.46" • Overall height: Approximately 1.3" • Fin height: Approximately 1" • Base height: Approximately 0.3"
23	1 unit	Nylon Round Standoff M5
		<ul style="list-style-type: none"> • Gender type: male/female • Material: Nylon • Body Shape: Round • Finish: Plain • Body length: 25mm • Thread size: M5 x M5 • Stud length: 10mm • Outside diameter: 10mm • Hole depth: 9.5mm
24	8 units	Aluminium Electrolyte Capacitor
		<ul style="list-style-type: none"> • Capacitance: 470uF • Voltage: 80V
25	7 units	CBB81 Metallized Polypropylene Film Capacitor
		<ul style="list-style-type: none"> • Capacitance: 4700pF • Voltage rating: 2kV • Capacitance -nF: 4.7nF • Operating voltage: 2000V • Material: Polypropylene
26	3 units	Infineon Three Phase MOSFET Power Driver
		<ul style="list-style-type: none"> • Mounting style: through hole • Package/case: TO-220-3 • Transistor polarity: N-Channel • Number of channels: 1 channel • Drain source breakdown voltage: 75V • Continuous drain current: 195A • Drain source resistance: 2.6mOhms • Gate source voltage: -20V , +20V • Gate source threshold voltage: 3.7V • Gate charge: 271nC • Minimum operating temperature: -55° • Maximum operating temperature: 175° • Power dissipation: 375 W • Dimensions (L x H x W): 10 x 15.65 x 4.4 mm • Transistor type: 1 N-Channel • Typical turn off delay time: 180 ns • Typical turn on delay time: 21s • Weight: Approximately 0.068784 oz
27	1 unit	Potentiometer
		<ul style="list-style-type: none"> • Resistance range: 0 - 10K ohms
28	1 unit	Stand jack
		<ul style="list-style-type: none"> • Weight capacity: 1 ton • Height: 11" (min) and 16" (max)
29	1 unit	Fire Blanket
		<ul style="list-style-type: none"> • Dimensions: 1.2m x 1.2m

30	1 unit	Heat Gun
		<ul style="list-style-type: none"> • Ceramic heater • LED indicating • 6pcs electrilyzed accessories • Rated voltage: Approximately 220 - 230 V • Rated frequency: Approximately 50/60 HZ • Input power: Approximately 2500W • Air flow: Approximately 350 - 550 L / min • Air temperature: Approximately 60 - 600 degree celsius
31	1 unit	Cordless Drill
		<ul style="list-style-type: none"> • Voltage: Approximately 10.8 V • Amps: Approximately 1.3 Ah • Battery cell type: lithium ion x 2 • Charge time: 3 hours • Chuck size: 3/8 inch • Speed: Approximately 0 - 600 rpm • Torque settings: Approximately 11 • Height: Approximately 7.75 inch • Weight: Approximately 1.2 pounds • Storage case included
32	2 units	Multipurpose lithium grease 3oz
33	3 units	Disc Brake Pad
		<ul style="list-style-type: none"> • Brake pad: 9P • Weight: Approximately 0.704 ounces • Dimensions: Approximately 4.75 x 3.75 x 0.75 inches
34	2 units	E Bike Twist Throttle
		<ul style="list-style-type: none"> • Voltage: 36V • Cable length: Approximately 1.5m • Waterproof
35	1 unit	Velcro tape
		<ul style="list-style-type: none"> • Dimensions: 45ft x 3/4"
36	1 unit	Fire Extinguisher
		<ul style="list-style-type: none"> • ABC Fire Extinguisher • Weight: 1kg
37	1 unit	Helmet
		<ul style="list-style-type: none"> • Size: Small • Cheek pad size: Approximately 40mm • Hat size: Approximately 6 7/8" - 7" • Dropdown face shield
38	1 unit	Relay 5 pin
		<ul style="list-style-type: none"> • Voltage: 12V • Current: 20A or 30A
39	1 unit	MicroSD Card 16GB
40	1 unit	Battery & charger
		<ul style="list-style-type: none"> • Voltage: 36V
41	1 unit	Brushless DC Motors
		<ul style="list-style-type: none"> • Power: 6 - 42W • Voltage: 15 - 36V • 28mm round frame

42	2 pieces	Fuse 30A
43	2 units	Safety belt <ul style="list-style-type: none"> • 3" polyester webbing • 5 point design - single 2" crotch strap • 3" hardware ends installed • Double adjustable for ease of installation • Shoulders adjust from 25" to 72" • Lap belt adjusts 30" to 70" • Twin individual shoulder belts • Lightweight aluminium alloy cam buckle
44	2 kits	First Aid Kit <ul style="list-style-type: none"> • Class A or Class B • Portable with comprehensive content
45	2 cans	WD-40 Spray 328ml
46	2 units	Toolbox Material: <ul style="list-style-type: none"> • Option 1: Heavy Duty Plastic • Option 2: Heavy Duty Steel • Colour: Preferably Black/Green Dimensions: <ul style="list-style-type: none"> • Length: Approximately 44cm - 47cm • Width: Approximately 22cm - 23cm • Height: Approximately 21cm - 23cm
47	1 unit	Electrical Toolbox Material: <ul style="list-style-type: none"> • Option 1: Heavy Duty Plastic • Option 2: Heavy Duty Steel Dimensions: <ul style="list-style-type: none"> • Length: Approximately 32cm • Width: Approximately 27cm • Height: Approximately 8cm

PERHATIAN:

1. Jika anda berminat untuk mengemukakan tawaran, anda dikehendaki membuat pembayaran sebanyak **BND\$5.00** ke **Bahagian Kewangan Politeknik Brunei, Tingkat 12, Jalan Ong Sum Ping.**
2. Anda juga dikehendaki mengisi **BORANG PENYERTAAN** secara dalam talian (*online*) di <https://bit.ly/3Hp2RLt> dan memuatnaik resit pembayaran ke dalam borang tersebut. Borang Sebutharga (RFQ) dan dokumen yang berkaitan akan dihantar melalui emel.
3. Jika anda memerlukan maklumat lanjut, sila hubungi aqilah.arzmi@pb.edu.bn atau menghubungi di talian +673 8193698

Terima kasih di atas penyertaan anda.

NOTE:

1. *If you are interested in submitting an offer, you are required to make a payment of **BND\$5.00** to **Finance Division Politeknik Brunei, 12th floor, Jalan Ong Sum Ping.***
2. *You are also required to fill in the online **PARTICIPATION FORM** at <https://bit.ly/3Hp2RLt> and upload the payment receipt into the form. Quotation Form (RFQ) and related documents will be sent via email.*
3. *If you require further information, please do not hesitate to contact aqilah.arzmi@pb.edu.bn or contact via +673 8193698*

Thank you and looking forward to your participation.