



ASTI-FM 03-10  
REV 4/ 9 MAR 2022

**DOST-ASTI Bids and Awards Committee  
REQUEST FOR QUOTATION**

<b>Kind of Procurement Activity:</b>	Negotiated Procurement:Small-value Procurement		
<b>Deadline of Submission of Bids:</b>	Jul-26-2022, 2:00 PM		
<b>RFQ No.:</b>	22-07-3949	<b>Date:</b>	July-21-2022
<b>PR No.:</b>	GAA-22-05-13957	<b>Date:</b>	May-30-2022

The Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), intends to procure the enlisted item/s below. Bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, except otherwise specified in the requirements. Award may be considered for prospective bidder/s proven to be the single/lowest calculated and responsive quotation among all other quotations. Guidelines on the format of quotations and eligibility documents are listed below. Kindly follow the prescribed GUIDELINES to avoid DISQUALIFICATION.

Quotations may be submitted 1) manually to the BAC Secretariat at G/F DOST-ASTI Bldg., UP Technology Park Complex, CP Garcia Ave., UP Campus, Diliman, Quezon City or 2) sent via electronic mail at bac-sec@asti.dost.gov.ph. For further information, please contact the BAC Secretariat at +63 2 8249-8500 loc. 1206/1212.

Thank you.

**BAYANI BENJAMIN R. LARA**  
BAC Chairperson

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p><b>47uF Capacitor</b></p> <p>1. GENERAL:</p> <p>1.1. 100 pcs of 47 <math>\mu</math>F 25 V Aluminum Electrolytic Capacitors Radial, Can - SMD 360mOhm @ 100kHz 2000 Hrs @ 105°C</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Mfr: Panasonic Electronic Components</p> <p>2.2. Capacitance: 47 <math>\mu</math>F</p> <p>2.3. Tolerance: <math>\pm</math>20%</p> <p>2.4. Voltage - Rated: 25 V</p> <p>2.5. ESR (Equivalent Series Resistance): 360mOhm @ 100kHz</p> <p>2.6. Lifetime @ Temp.: 2000 Hrs @ 105°C</p> <p>2.7. Operating Temperature: -55°C ~ 105°C</p> <p>2.8. Polarization: Polar</p> <p>2.9. Ripple Current @ Low Frequency: 156 mA @ 120 Hz</p> <p>2.10. Ripple Current @ High Frequency: 240 mA @ 100 kHz</p> <p>2.11. Size / Dimension: 0.197" Dia (5.00mm)</p> <p>2.12. Height - Seated (Max): 0.240" (6.10mm)</p> <p>2.13. Surface Mount Land Size: 0.209" L x 0.209" W (5.30mm x 5.30mm)</p> <p>2.14. Mounting Type: Surface Mount</p> <p>3. PACKAGE INCLUSION:</p>	1	set	2860.00	2,860.00

	<p>3.1. One (1) set - One hundred (100) pcs - 47uF Capacitor</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
2	<p><b>0.1uF Capacitor</b></p> <p>1. GENERAL:</p> <p>1.1. 500 pcs of 0.1 <math>\mu</math>F <math>\pm</math>10% 25V Ceramic Capacitor X7R 0603 (1608 Metric)</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Capacitance: 0.1 <math>\mu</math>F</p> <p>2.2. Tolerance: <math>\pm</math>10%</p> <p>2.3. Voltage - Rated: 25V</p> <p>2.4. Temperature Coefficient: X7R</p> <p>2.5. Operating Temperature: -55°C ~ 125°C</p> <p>2.6. Mounting Type: Surface Mount, MLCC</p> <p>2.7. Package / Case: 0603 (1608 Metric)</p> <p>2.8. Size / Dimension: 0.063" L x 0.031" W (1.60mm x 0.80mm)</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) set - Five hundred (500) pcs - 0.1uF Capacitor</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	1	set	1380.00	1,380.00
3	<p><b>1uF Capacitor</b></p> <p>1. GENERAL:</p> <p>1.1. 500 pcs of 1 <math>\mu</math>F <math>\pm</math>10% 25V Ceramic Capacitor X5R 0603 (1608 Metric)</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Capacitance: 1 <math>\mu</math>F</p> <p>2.2. Tolerance: <math>\pm</math>10%</p> <p>2.3. Voltage - Rated: 25V</p> <p>2.4. Temperature Coefficient: X5R</p> <p>2.5. Operating Temperature: -55°C ~ 85°C</p> <p>2.6. Mounting Type: Surface Mount, MLCC</p> <p>2.7. Package / Case: 0603 (1608 Metric)</p> <p>2.8. Size / Dimension: 0.063" L x 0.031" W (1.60mm x 0.80mm)</p> <p>2.9. Thickness (Max): 0.034" (0.87mm)</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) set - Five hundred (500) pcs - 1uF Capacitor</p>	1	set	1940.00	1,940.00

	<p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
4	<p><b>22pF Capacitor</b></p> <p>1. GENERAL:</p> <p>1.1. 500 pcs of 22 pF <math>\pm 5\%</math> 50V Ceramic Capacitor C0G, NP0 0603 (1608 Metric)</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Capacitance: 22 pF</p> <p>2.2. Tolerance: <math>\pm 5\%</math></p> <p>2.3. Voltage - Rated: 50V</p> <p>2.4. Temperature Coefficient: C0G, NP0</p> <p>2.5. Operating Temperature: <math>-55^{\circ}\text{C} \sim 125^{\circ}\text{C}</math></p> <p>2.6. Features: Low ESL</p> <p>2.7. Mounting Type: Surface Mount, MLCC</p> <p>2.8. Package / Case: 0603 (1608 Metric)</p> <p>2.9. Size / Dimension: 0.063" L x 0.031" W (1.60mm x 0.80mm)</p> <p>2.10. Thickness (Max): 0.034" (0.87mm)</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) set - Five hundred (500) pcs - 22pF Capacitor</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	1	set	500.00	500.00
5	<p><b>1.6kV 1A General Purpose Diode</b></p> <p>1. GENERAL:</p> <p>1.1. 100 pcs of Diode Standard 1600 V 1A Surface Mount DO-214AC (SMA)</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Diode Type: Standard</p> <p>2.2. Voltage - DC Reverse (<math>V_r</math>) (Max): 1600 V</p> <p>2.3. Current - Average Rectified (<math>I_o</math>): 1A</p> <p>2.4. Voltage - Forward (<math>V_f</math>) (Max) @ <math>I_f</math>: 1.25 V @ 1 A</p> <p>2.5. Speed: Standard Recovery <math>&gt;500\text{ns}</math>, <math>&gt; 200\text{mA}</math> (<math>I_o</math>)</p> <p>2.6. Reverse Recovery Time (<math>t_{rr}</math>): 2.5 <math>\mu\text{s}</math></p> <p>2.7. Current - Reverse Leakage @ <math>V_r</math>: 5 <math>\mu\text{A}</math> @ 1600 V</p> <p>2.8. Mounting Type: Surface Mount</p> <p>2.9. Package / Case: DO-214AC, SMA</p> <p>2.10. Supplier Device Package: DO-214AC (SMA)</p> <p>2.11. Operating Temperature - Junction: <math>-55^{\circ}\text{C} \sim</math></p>	1	set	1870.00	1,870.00

	<p>150°C</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) set - Five hundred (500) - 1.6kV 1A General Purpose Diode</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
6	<p><b>Green LED</b></p> <p>1. GENERAL:</p> <p>1.1. 100 pcs of Green 569nm LED Indication - Discrete 2.1V 0805 (2012 Metric)</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Color: Green</p> <p>2.2. Configuration: Standard</p> <p>2.3. Lens Color: Colorless</p> <p>2.4. Lens Transparency: Clear</p> <p>2.5. Millicandela Rating: 6mcd</p> <p>2.6. Lens Style: Rectangle with Flat Top</p> <p>2.7. Lens Size: 1.40mm x 1.25mm</p> <p>2.8. Voltage - Forward (Vf) (Typ): 2.1V</p> <p>2.9. Current - Test: 10mA</p> <p>2.10. Viewing Angle: 130°</p> <p>2.11. Mounting Type: Surface Mount</p> <p>2.12. Wavelength - Dominant: 569nm</p> <p>2.13. Wavelength - Peak: 565nm</p> <p>2.14. Package / Case: 0805 (2012 Metric)</p> <p>2.15. Size / Dimension: 2.00mm L x 1.25mm W</p> <p>2.16. Height (Max): 1.10mm</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One set (1) - One hundred (100) pcs - Green LED</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	1	set	720.00	720.00
7	<p><b>Yellow LED</b></p> <p>1. GENERAL:</p> <p>1.1. 100 pcs of Yellow 591nm LED Indication - Discrete 2.1V 0805 (2012 Metric)</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Color: Yellow</p> <p>2.2. Configuration: Standard</p> <p>2.3. Lens Color: Colorless</p> <p>2.4. Lens Transparency: Clear</p>	1	set	770.00	770.00

	<p>2.5. Millicandela Rating: 70mcd  2.6. Lens Style: Rectangle with Flat Top  2.7. Lens Size: 1.40mm x 1.25mm  2.8. Voltage - Forward (Vf) (Typ): 2.1V  2.9. Current - Test: 20mA  2.10. Viewing Angle: 130°  2.11. Mounting Type: Surface Mount  2.12. Wavelength - Dominant: 591nm  2.13. Wavelength - Peak: 588nm  2.14. Package / Case: 0805 (2012 Metric)  2.15. Size / Dimension: 2.00mm L x 1.25mm W  2.16. Height (Max): 1.10mm</p> <p>3. PACKAGE INCLUSION:  3.1. One (1) set - One hundred (100) pcs - Yellow LED</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>				
8	<p><b>Resettable Fuse</b></p> <p>1. GENERAL:  1.1. 10 pcs of Polymeric PTC Resettable Fuse 15V 500 mA Ih Surface Mount 1812 (4532 Metric), Concave</p> <p>2. TECHNICAL SPECS:  2.1. Type: Polymeric  2.2. Voltage - Max: 15V  2.3. Current - Max: 100 A  2.4. Current - Hold (Ih) (Max): 500 mA  2.5. Current - Trip (It): 1 A  2.6. Time to Trip: 150 ms  2.7. Resistance - Initial (Ri) (Min): 150 mOhms  2.8. Resistance - Post Trip (R1) (Max): 1 Ohms  2.9. Operating Temperature: -40°C ~ 85°C  2.10. Ratings: AEC-Q200  2.11. Mounting Type: Surface Mount  2.12. Package / Case: 1812 (4532 Metric), Concave  2.13. Size / Dimension: 0.179" L x 0.128" W (4.55mm x 3.24mm)  2.14. Thickness (Max): 0.033" (0.85mm)  2.15. Approval Agency: cURus, TUV</p> <p>3. PACKAGE INCLUSION:  3.1. One (1) set - Ten (10) pcs - Resettable Fuse</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p>	1	set	280.00	280.00

	4.4. Payment upon full delivery.				
9	<p><b>300hm Ferrite Bead</b></p> <p>1. GENERAL:</p> <p>1.1. 10 pcs of 30 Ohms @ 100 MHz 1 Power Line Ferrite Bead 0805 (2012 Metric) 4A 14mOhm</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Filter Type: Power Line</p> <p>2.2. Number of Lines: 1</p> <p>2.3. Impedance @ Frequency: 30 Ohms @ 100 MHz</p> <p>2.4. Current Rating (Max): 4A</p> <p>2.5. DC Resistance (DCR) (Max): 14mOhm</p> <p>2.6. Operating Temperature: -55°C ~ 125°C</p> <p>2.7. Package / Case: 0805 (2012 Metric)</p> <p>2.8. Mounting Type: Surface Mount</p> <p>2.9. Height (Max): 0.041" (1.05mm)</p> <p>2.10. Size / Dimension: 0.079" L x 0.049" W (2.00mm x 1.25mm)</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) set - Ten (10) pcs - 30Ohm Ferrite Bead</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	1	set	100.00	100.00
10	<p><b>2.5X5.5mm Power Connector Jack</b></p> <p>1. GENERAL:</p> <p>1.1. 40 pcs of Power Barrel Connector Jack 2.50mm ID (0.098"), 5.50mm OD (0.217") Through Hole, Right Angle</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Connector Type: Jack</p> <p>2.2. Gender: Male</p> <p>2.3. Industry Recognized Mating Diameter: 2.50mm ID (0.098"), 5.50mm OD (0.217")</p> <p>2.4. Actual Diameter: 0.098" (2.50mm ID), 0.256" (6.50mm OD)</p> <p>2.5. Number of Positions/Contacts: 2 Conductors, 3 Contacts</p> <p>2.6. Internal Switch(s): Single Switch, Normally Closed</p> <p>2.7. Mounting Type: Through Hole, Right Angle</p> <p>2.8. Termination: Solder</p> <p>2.9. Shielding: Unshielded</p> <p>2.10. Voltage - Rated: 24VDC</p> <p>2.11. Current Rating (Amps): 5 A</p> <p>2.12. Mating Length/Depth: 0.354" (9.00mm)</p> <p>2.13. Material Flammability Rating: UL94 V-0</p> <p>2.14. Contact Material - Plating: Silver</p> <p>2.15. Operating Temperature: -25°C ~ 85°C</p> <p>2.16. Housing Material: Polybutylene Terephthalate (PBT)</p> <p>2.17. Contact Material: Brass, Copper Alloy</p> <p>2.18. Body Color: Black</p>	1	pack	2530.00	2,530.00

	<p>3. PACKAGE INCLUSION:  3.1. One (1) pack - Forty (40) pcs - 2.5X5.5mm Power Connector Jack</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>				
11	<p><b>10 Position Receptacle Connector</b></p> <p>1. GENERAL:  1.1. 10 pcs of 10 Position Receptacle Connector 0.100" (2.54mm) Through Hole Tin</p> <p>2. TECHNICAL SPECS:  2.1. Product: Headers  2.2. Type: Receptacle  2.3. Number of Positions: 10 Position  2.4. Pitch: 2.54 mm  2.5. Number of Rows: 1 Row  2.6. Mounting Style: Through Hole  2.7. Termination Style: Solder Pin  2.8. Contact Gender: Socket (Female)  2.9. Contact Plating: Tin  2.10. Series: M20  2.11. Minimum Operating Temperature: - 40 C  2.12. Maximum Operating Temperature: + 105 C  2.13. Packaging: Tube  2.14. Brand: Harwin  2.15. Product Type: Headers &amp; Wire Housings  2.16. Unit Weight: 0.032064 oz</p> <p>3. PACKAGE INCLUSION:  3.1. One (1) pack - Ten (10) pcs - 10 Position Receptacle Connector</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>	1	pack	1060.00	1,060.00
12	<p><b>8 Position Receptacle Connector</b></p> <p>1. GENERAL:  1.1. 10 pcs of Position Receptacle Connector 0.100" (2.54mm) Through Hole Tin</p> <p>2. TECHNICAL SPECS:  2.1. Connector Type: Receptacle  2.2. Contact Type: Forked  2.3. Style: Board to Board or Cable  2.4. Number of Positions: 8  2.5. Number of Positions Loaded: All</p>	3	pack	1230.00	3,690.00

	<p>2.6. Pitch - Mating: 0.100" (2.54mm)  2.7. Number of Rows: 1  2.8. Mounting Type: Through Hole  2.9. Termination: Kinked Pin, Solder  2.10. Fastening Type: Push-Pull  2.11. Contact Finish - Mating: Tin  2.12. Insulation Color: Black  2.13. Insulation Height: 0.335" (8.51mm)  2.14. Contact Length - Post: 0.104" (2.64mm)  2.15. Operating Temperature: -55°C ~ 105°C  2.16. Material Flammability Rating: UL94 V-0  2.17. Contact Finish - Post: Tin  2.18. Current Rating (Amps): 5.7A per Contact  2.19. Insulation Material: Liquid Crystal Polymer (LCP)  2.20. Contact Shape: Square  2.21. Contact Material: Phosphor Bronze</p> <p>3. PACKAGE INCLUSION:  3.1. Three (3) packs - Ten (10) pcs - 8 Position Receptacle Connector</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>				
13	<p><b>36 Position Receptacle Connector</b></p> <p>1. GENERAL:  1.1. 10 pcs of 36 Position Receptacle Connector 0.100" (2.54mm) Through Hole Tin</p> <p>2. TECHNICAL SPECS:  2.1. Connector Type: Header  2.2. Contact Type: Female Socket  2.3. Style: Board to Board  2.4. Number of Positions: 36  2.5. Number of Positions Loaded: All  2.6. Pitch - Mating: 0.100" (2.54mm)  2.7. Number of Rows: 2  2.8. Row Spacing - Mating: 0.100" (2.54mm)  2.9. Mounting Type: Through Hole  2.10. Termination: Solder  2.11. Fastening Type: Push-Pull  2.12. Contact Finish - Mating: Gold  2.13. Contact Finish Thickness - Mating: Flash  2.14. Insulation Color: Black  2.15. Insulation Height: 0.335" (8.51mm)  2.16. Contact Length - Post: 0.126" (3.20mm)  2.17. Operating Temperature: -40°C ~ 105°C  2.18. Material Flammability Rating: UL94 V-0  2.19. Contact Finish - Post: Gold  2.20. Current Rating (Amps): 3A  2.21. Voltage Rating: 250V  2.22. Insulation Material: Polyester  2.23. Contact Shape: Square  2.24. Contact Material: Phosphor Bronze</p>	1	pack	1705.00	1,705.00



	<p>2.25. Contact Finish Thickness - Post: Flash</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) pack - Ten (10) pcs - 36 Position Receptacle Connector</p> <p>4. NOTES:</p> <p>4.1 The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2 Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4 Payment upon full delivery.</p>				
14	<p><b>Right Angle 4 Position Connector Header</b></p> <p>1. GENERAL:</p> <p>1.1. Connector Header Through Hole, Right Angle 3 position 0.100" (2.54mm)</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Connector Type: Header</p> <p>2.2. Contact Type: Male Pin</p> <p>2.3. Pitch - Mating: 0.100" (2.54mm)</p> <p>2.4. Number of Positions: 4</p> <p>2.5. Number of Rows: 1</p> <p>2.6. Number of Positions Loaded: All</p> <p>2.7. Style: Board to Board or Cable</p> <p>2.8. Shrouding: Unshrouded</p> <p>2.9. Mounting Type: Through Hole, Right Angle</p> <p>2.10. Termination: Solder</p> <p>2.11. Fastening Type: Push-Pull</p> <p>2.12. Contact Length - Mating: 0.230" (5.84mm)</p> <p>2.13. Contact Length - Post: 0.090" (2.29mm)</p> <p>2.14. Insulation Height: 0.119" (3.02mm)</p> <p>2.15. Contact Shape: Square</p> <p>2.16. Contact Finish - Mating: Tin</p> <p>2.17. Contact Finish - Post: Tin</p> <p>2.18. Contact Material: Phosphor Bronze</p> <p>2.19. Insulation Material: Polybutylene Terephthalate (PBT)</p> <p>2.20. Operating Temperature: -55°C ~ 105°C</p> <p>2.21. Material Flammability Rating: UL94 V-0</p> <p>2.22. Insulation Color: Black</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) pack - Ten (10) pcs - Right Angle 4 Position Connector Header</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	1	pack	390.00	390.00
15	<p><b>USB 2.0 Receptacle Connector</b></p> <p>1. GENERAL:</p>	1	pack	1110.00	1,110.00

	<p>1.1. 10 pcs of USB-B (USB TYPE-B) USB 2.0 Receptacle Connector 4 Position Through Hole, Right Angle</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Connector Type: USB-B (USB TYPE-B)</p> <p>2.2. Number of Contacts: 4</p> <p>2.3. Gender: Receptacle</p> <p>2.4. Specifications: USB 2.0</p> <p>2.5. Mounting Type: Through Hole, Right Angle</p> <p>2.6. Mounting Feature: Horizontal</p> <p>2.7. Termination: Solder</p> <p>2.8. Features: Board Lock</p> <p>2.9. Operating Temperature: -40°C ~ 105°C</p> <p>2.10. Number of Ports: 1</p> <p>2.11. Current Rating (Amps): 1.5A</p> <p>2.12. Voltage - Rated: 30V</p> <p>2.13. Mating Cycles: 1500</p> <p>2.14. Shielding: Shielded</p> <p>2.15. Contact Finish: Gold</p> <p>2.16. Shell/Shielding Material: Brass</p> <p>2.17. Material Flammability Rating: UL94 V-0</p> <p>2.18. Insulation Color: White</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) pack - Ten (10) pcs - USB 2.0 Receptacle Connector</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
16	<p><b>Right Angle 6 Position Receptacle Connector</b></p> <p>1. GENERAL:</p> <p>1.1. 6 Position Receptacle Connector 0.100" (2.54mm) Through Hole, Right Angle Gold</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Connector Type: Receptacle</p> <p>2.2. Contact Type: Forked</p> <p>2.3. Style: Board to Board or Cable</p> <p>2.4. Number of Positions: 6</p> <p>2.5. Number of Positions Loaded: All</p> <p>2.6. Pitch - Mating: 0.100" (2.54mm)</p> <p>2.7. Number of Rows: 1</p> <p>2.8. Mounting Type: Through Hole, Right Angle</p> <p>2.9. Termination: Solder</p> <p>2.10. Fastening Type: Push-Pull</p> <p>2.11. Contact Finish - Mating: Gold</p> <p>2.12. Contact Finish Thickness - Mating: 3.00µin (0.076µm)</p> <p>2.13. Insulation Color: Black</p> <p>2.14. Insulation Height: 0.095" (2.41mm)</p> <p>2.15. Contact Length - Post: 0.100" (2.54mm)</p> <p>2.16. Operating Temperature: -55°C ~ 125°C</p> <p>2.17. Material Flammability Rating: UL94 V-0</p> <p>2.18. Contact Finish - Post: Tin</p>	1	pack	1350.00	1,350.00

	<p>2.19. Current Rating (Amps): 5.7A per Contact</p> <p>2.20. Insulation Material: Liquid Crystal Polymer (LCP)</p> <p>2.21. Contact Shape: Square</p> <p>2.22. Contact Material: Phosphor Bronze</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) pack - Ten (10) pcs - Right Angle 6 Position Receptacle Connector</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
17	<p><b>Right Angle 4 Position Receptacle Connector</b></p> <p>1. GENERAL:</p> <p>1.1. 4 Position Receptacle Connector 0.100" (2.54mm) Through Hole, Right Angle Tin</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Connector Type: Receptacle</p> <p>2.2. Contact Type: Forked</p> <p>2.3. Style: Board to Board or Cable</p> <p>2.4. Number of Positions: 4</p> <p>2.5. Number of Positions Loaded: All</p> <p>2.6. Pitch - Mating: 0.100" (2.54mm)</p> <p>2.7. Number of Rows: 1</p> <p>2.8. Mounting Type: Through Hole, Right Angle</p> <p>2.9. Termination: Solder</p> <p>2.10. Fastening Type: Push-Pull</p> <p>2.11. Contact Finish - Mating: Tin</p> <p>2.12. Insulation Color: Black</p> <p>2.13. Insulation Height: 0.095" (2.41mm)</p> <p>2.14. Contact Length - Post: 0.100" (2.54mm)</p> <p>2.15. Operating Temperature: -55°C ~ 105°C</p> <p>2.16. Material Flammability Rating: UL94 V-0</p> <p>2.17. Contact Finish - Post: Tin</p> <p>2.18. Current Rating (Amps): 5.7A per Contact</p> <p>2.19. Insulation Material: Liquid Crystal Polymer (LCP)</p> <p>2.20. Contact Shape: Square</p> <p>2.21. Contact Material: Phosphor Bronze</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. Ten (10) pcs - Right Angle 4 Position Receptacle Connector</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	10	pc	90.00	900.00

18	<p><b>10uH Inductor</b></p> <p>1. GENERAL:  1.1. 25 pcs of 10 <math>\mu</math>H Shielded Multilayer Inductor 15 mA 1.15Ohm Max 0805 (2012 Metric)</p> <p>2. TECHNICAL SPECS:  2.1. Type: Multilayer  2.2. Material - Core: Ferrite  2.3. Inductance: 10 <math>\mu</math>H  2.4. Tolerance: <math>\pm</math>10%  2.5. Current Rating (Amps): 15 mA  2.6. Shielding: Shielded  2.7. DC Resistance (DCR): 1.15Ohm Max  2.8. Q @ Freq: 45 @ 2MHz  2.9. Frequency - Self Resonant: 24MHz  2.10. Operating Temperature: -55°C ~ 125°C  2.11. Inductance Frequency - Test: 2 MHz  2.12. Mounting Type: Surface Mount  2.13. Package / Case: 0805 (2012 Metric)  2.14. Supplier Device Package: 0805 (2012 Metric)  2.15. Size / Dimension: 0.079" L x 0.049" W (2.00mm x 1.25mm)  2.16. Height - Seated (Max): 0.057" (1.45mm)</p> <p>3. PACKAGE INCLUSION:  3.1. One (1) set - Twenty five (25) pcs - 10uH Inductor</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>	1	set	180.00	180.00
19	<p><b>6 Position Connector Header</b></p> <p>1. GENERAL:  1.1. 25 pcs of Connector Header Through Hole 6 position 0.100" (2.54mm)</p> <p>2. TECHNICAL SPECS:  2.1. Connector Type: Header  2.2. Contact Type: Male Pin  2.3. Pitch - Mating: 0.100" (2.54mm)  2.4. Number of Positions: 6  2.5. Number of Rows: 2  2.6. Row Spacing - Mating: 0.100" (2.54mm)  2.7. Number of Positions Loaded: All  2.8. Style: Board to Board or Cable  2.9. Shrouding: Unshrouded  2.10. Mounting Type: Through Hole  2.11. Termination: Solder  2.12. Fastening Type: Push-Pull  2.13. Contact Length - Mating: 0.230" (5.84mm)  2.14. Contact Length - Post: 0.100" (2.54mm)  2.15. Overall Contact Length: 0.430" (10.92mm)  2.16. Insulation Height: 0.100" (2.54mm)  2.17. Contact Shape: Square  2.18. Contact Finish - Mating: Gold  2.19. Contact Finish Thickness - Mating: 10.0<math>\mu</math>in</p>	1	pack	1390.00	1,390.00

	<p>(0.25µm)  2.20. Contact Finish - Post: Gold  2.21. Contact Material: Phosphor Bronze  2.22. Insulation Material: Polybutylene Terephthalate (PBT)  2.23. Operating Temperature: -55°C ~ 125°C  2.24. Material Flammability Rating: UL94 V-0  2.25. Insulation Color: Black  Contact Finish Thickness - Post: 3.00µin (0.076µm)  3. PACKAGE INCLUSION:  3.1. One (1) pack - Twenty five (25) pcs - 6 Position Connector Header  4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>				
20	<p><b>Right Angle 6 Position Connector Header</b>  1. GENERAL:  1.1. 10 pcs of Connector Header Through Hole, Right Angle 6 position 0.100" (2.54mm)  2. TECHNICAL SPECS:  2.1. Connector Type: Header  2.2. Contact Type: Male Pin  2.3. Pitch - Mating: 0.100" (2.54mm)  2.4. Number of Positions: 6  2.5. Number of Rows: 1  2.6. Number of Positions Loaded: All  2.7. Style: Board to Board or Cable  2.8. Shrouding: Unshrouded  2.9. Mounting Type: Through Hole, Right Angle  2.10. Termination: Solder  2.11. Fastening Type: Push-Pull  2.12. Contact Length - Mating: 0.230" (5.84mm)  2.13. Contact Length - Post: 0.090" (2.29mm)  2.14. Insulation Height: 0.119" (3.02mm)  2.15. Contact Shape: Square  2.16. Contact Finish - Mating: Gold  2.17. Contact Finish Thickness - Mating: 3.00µin (0.076µm)  2.18. Contact Finish - Post: Tin  2.19. Contact Material: Phosphor Bronze  2.20. Insulation Material: Polybutylene Terephthalate (PBT)  2.21. Operating Temperature: -55°C ~ 125°C  2.22. Material Flammability Rating: UL94 V-0  2.23. Insulation Color: Black  3. PACKAGE INCLUSION:  3.1. One (1) pack - Ten (10) pcs - Right Angle 6 Position Connector Header  4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p>	1	pack	660.00	660.00

	<p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
21	<p><b>P-Channel MOSFET</b></p> <p>1. GENERAL:</p> <p>1.1. 10 pcs of MOSFET P-Channel 20V 3.7A</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. FET Type: P-Channel</p> <p>2.2. Technology: MOSFET (Metal Oxide)</p> <p>2.3. Drain to Source Voltage (Vdss): 20 V</p> <p>2.4. Current - Continuous Drain (Id) @ 25°C: 3.7A (Ta)</p> <p>2.5. Drive Voltage (Max Rds On, Min Rds On): 2.5V, 4.5V</p> <p>2.6. Rds On (Max) @ Id, Vgs: 65mOhm @ 3.7A, 4.5V</p> <p>2.7. Vgs(th) (Max) @ Id: 1.2V @ 250µA</p> <p>2.8. Gate Charge (Qg) (Max) @ Vgs: 12 nC @ 5 V</p> <p>2.9. Vgs (Max): ±12V</p> <p>2.10. Input Capacitance (Ciss) (Max) @ Vds: 633 pF @ 10 V</p> <p>2.11. Power Dissipation (Max): 1.3W (Ta)</p> <p>2.12. Operating Temperature: -55°C ~ 150°C (TJ)</p> <p>2.13. Mounting Type: Surface Mount</p> <p>2.14. Supplier Device Package: Micro3™/SOT-23</p> <p>2.15. Package / Case: TO-236-3, SC-59, SOT-23-3</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) set - Ten (10) pcs - P-Channel MOSFET</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	1	set	420.00	420.00
22	<p><b>10kOhm Resistor</b></p> <p>1. GENERAL:</p> <p>1.1. 100 pcs of 10 kOhms ±5% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200 Thick Film</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Resistance: 10 kOhms</p> <p>2.2. Tolerance: ±5%</p> <p>2.3. Power (Watts): 0.063W, 1/16W</p> <p>2.4. Composition: Thick Film</p> <p>2.5. Features: Automotive AEC-Q200</p> <p>2.6. Temperature Coefficient: ±100ppm/°C</p> <p>2.7. Operating Temperature: -55°C ~ 155°C</p> <p>2.8. Package / Case: 0402 (1005 Metric)</p> <p>2.9. Supplier Device Package: 0402</p> <p>2.10. Ratings: AEC-Q200</p>	2	set	60.00	120.00

	<p>2.11. Size / Dimension: 0.039" L x 0.020" W (1.00mm x 0.50mm)</p> <p>2.12. Height - Seated (Max): 0.016" (0.40mm)</p> <p>2.13. Number of Terminations: 2</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. Two (2) set - One hundred (100) pcs - 10kOhm Resistor</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
23	<p><b>1kOhm Resistor</b></p> <p>1. GENERAL:</p> <p>1.1. 100 pcs of 1 kOhms <math>\pm 5\%</math> 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Automotive AEC-Q200 Thick Film</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Resistance: 1 kOhms</p> <p>2.2. Tolerance: <math>\pm 5\%</math></p> <p>2.3. Power (Watts): 0.25W, 1/4W</p> <p>2.4. Composition: Thick Film</p> <p>2.5. Features: Automotive AEC-Q200</p> <p>2.6. Temperature Coefficient: <math>\pm 200\text{ppm}/^\circ\text{C}</math></p> <p>2.7. Operating Temperature: <math>-55^\circ\text{C} \sim 155^\circ\text{C}</math></p> <p>2.8. Package / Case: 1206 (3216 Metric)</p> <p>2.9. Supplier Device Package: 1206</p> <p>2.10. Ratings: AEC-Q200</p> <p>2.11. Size / Dimension: 0.126" L x 0.063" W (3.20mm x 1.60mm)</p> <p>2.12. Height - Seated (Max): 0.024" (0.60mm)</p> <p>2.13. Number of Terminations: 2</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. Two (2) set - One hundred (100) pcs - 1kOhm Resistor</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	2	set	300.00	600.00
24	<p><b>1MOhm Resistor</b></p> <p>1. GENERAL:</p> <p>1.1. 100 pcs of 1 MOhms <math>\pm 5\%</math> 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Resistance: 1 MOhms</p>	1	set	130.00	130.00

	<p>2.2. Tolerance: <math>\pm 5\%</math></p> <p>2.3. Power (Watts): 0.1W, 1/10W</p> <p>2.4. Composition: Thick Film</p> <p>2.5. Features: Automotive AEC-Q200</p> <p>2.6. Temperature Coefficient: <math>\pm 200\text{ppm}/^\circ\text{C}</math></p> <p>2.7. Operating Temperature: <math>-55^\circ\text{C} \sim 155^\circ\text{C}</math></p> <p>2.8. Package / Case: 0603 (1608 Metric)</p> <p>2.9. Supplier Device Package: 0603</p> <p>2.10. Ratings: AEC-Q200</p> <p>2.11. Size / Dimension: 0.063" L x 0.033" W (1.60mm x 0.85mm)</p> <p>2.12. Height - Seated (Max): 0.020" (0.50mm)</p> <p>2.13. Number of Terminations: 2</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) set - One hundred (100) pcs - 1M<math>\Omega</math> Resistor</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
25	<p><b>220<math>\Omega</math> Resistor</b></p> <p>1. GENERAL:</p> <p>1.1. 100 pcs of 22 Ohms <math>\pm 5\%</math> 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resistant Thick Film</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Resistance: 22 Ohms</p> <p>2.2. Tolerance: <math>\pm 5\%</math></p> <p>2.3. Power (Watts): 0.1W, 1/10W</p> <p>2.4. Composition: Thick Film</p> <p>2.5. Features: Moisture Resistant</p> <p>2.6. Temperature Coefficient: <math>\pm 200\text{ppm}/^\circ\text{C}</math></p> <p>2.7. Operating Temperature: <math>-55^\circ\text{C} \sim 155^\circ\text{C}</math></p> <p>2.8. Package / Case: 0603 (1608 Metric)</p> <p>2.9. Supplier Device Package: 0603</p> <p>2.10. Size / Dimension: 0.063" L x 0.031" W (1.60mm x 0.80mm)</p> <p>2.11. Height - Seated (Max): 0.022" (0.55mm)</p> <p>2.12. Number of Terminations: 2</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) set - One hundred (100) pcs - 220<math>\Omega</math> Resistor</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	1	set	70.00	70.00



26	<p><b>Varistor</b></p> <p>1. GENERAL:  1.1. 10 pcs of Varistor 1 Circuit Surface Mount, MLCV 0603 (1608 Metric)</p> <p>2. TECHNICAL SPECS:  2.1. Maximum DC Volts: 5 V  2.2. Number of Circuits: 1  2.3. Capacitance @ Frequency: 0.5 pF @ 1 MHz  2.4. Operating Temperature: -40°C ~ 85°C (TA)  2.5. Mounting Type: Surface Mount, MLCV  2.6. Package / Case: 0603 (1608 Metric)</p> <p>3. PACKAGE INCLUSION:  3.1. Two (2) set - Ten (10) pcs - Varistor</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>	2	set	341.00	682.00
27	<p><b>Tactile Switch</b></p> <p>1. GENERAL:  1.1. 10 pcs of Tactile Switch SPST-NO Top Actuated Surface Mount</p> <p>2. TECHNICAL SPECS:  2.1. Circuit: SPST-NO  2.2. Switch Function: Off-Mom  2.3. Contact Rating @ Voltage: 0.05A @ 24VDC  2.4. Actuator Type: Standard  2.5. Mounting Type: Surface Mount  2.6. Actuator Height off PCB, Vertical: 4.30mm  2.7. Actuator Orientation: Top Actuated  2.8. Termination Style: Gull Wing  2.9. Outline: 6.60mm x 6.00mm  2.10. Illumination: Non-Illuminated  2.11. Operating Force: 230gf  2.12. Ingress Protection: IP67 - Dust Tight, Waterproof  2.13. Features: Grounding Pin, Sealed - Fully  2.14. Operating Temperature: -25°C ~ 70°C  2.15. Switch Travel: 0.25mm  2.16. Mechanical Life: 300,000 Cycles</p> <p>3. PACKAGE INCLUSION:  3.1. One (1) pack - Ten (10) pcs - Tactile Switch</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>	1	pack	700.00	700.00

28	<p><b>Fixed 5V Output Linear Voltage Regulator</b></p> <p>1. GENERAL:  1.1. 10 pcs of Linear Voltage Regulator IC Positive Fixed 1 Output 800mA SOT-223-3</p> <p>2. TECHNICAL SPECS:  2.1. Output Configuration: Positive  2.2. Output Type: Fixed  2.3. Number of Regulators: 1  2.4. Voltage - Input (Max): 15V  2.5. Voltage - Output (Min/Fixed): 5V  2.6. Voltage Dropout (Max): 1.2V @ 800mA  2.7. Current - Output: 800mA  2.8. Current - Quiescent (Iq): 10 mA  2.9. PSRR: 75dB (120Hz)  2.10. Protection Features: Over Temperature  2.11. Operating Temperature: 0°C ~ 125°C  2.12. Mounting Type: Surface Mount  2.13. Package / Case: TO-261-4, TO-261AA  2.14. Supplier Device Package: SOT-223-3</p> <p>3. PACKAGE INCLUSION:  3.1. One (1) tube - Ten (10) pcs - Fixed 5V Output Linear Voltage Regulator</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>	1	tube	4730.00	4,730.00
29	<p><b>General Purpose Amplifier</b></p> <p>1. GENERAL:  1.1. 25 pcs of General Purpose Amplifier 2 Circuit Rail-to-Rail 8-VSSOP</p> <p>2. TECHNICAL SPECS:  2.1. Amplifier Type: General Purpose  2.2. Number of Circuits: 2  2.3. Output Type: Rail-to-Rail  2.4. Slew Rate: 1V/μs  2.5. Gain Bandwidth Product: 1 MHz  2.6. Current - Input Bias: 15 nA  2.7. Voltage - Input Offset: 1.7 mV  2.8. Current - Supply: 210μA (x2 Channels)  2.9. Current - Output / Channel: 40 mA  2.10. Voltage - Supply Span (Min): 2.7 V  2.11. Voltage - Supply Span (Max): 5.5 V  2.12. Operating Temperature: -40°C ~ 125°C (TA)  2.13. Mounting Type: Surface Mount  2.14. Package / Case: 8-TSSOP, 8-MSOP (0.118", 3.00mm Width)  2.15. Supplier Device Package: 8-VSSOP</p> <p>3. PACKAGE INCLUSION:  3.1. One (1) set - Twenty five (25) pcs - General Purpose Amplifier</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified</p>	1	set	1100.00	1,100.00

	<p>above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
30	<p><b>Fixed 3.3V Output Linear Voltage Regulator</b></p> <p>1. GENERAL:</p> <p>1.1. 10 pcs of Linear Voltage Regulator IC Positive Fixed 1 Output 150mA SOT-23-5</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Output Configuration: Positive</p> <p>2.2. Output Type: Fixed</p> <p>2.3. Number of Regulators: 1</p> <p>2.4. Voltage - Input (Max): 16V</p> <p>2.5. Voltage - Output (Min/Fixed): 3.3V</p> <p>2.6. Voltage Dropout (Max): 0.58V @ 150mA</p> <p>2.7. Current - Output: 150mA</p> <p>2.8. Current - Quiescent (Iq): 95 µA</p> <p>2.9. Current - Supply (Max): 2.5 mA</p> <p>2.10. PSRR: 45dB (1kHz)</p> <p>2.11. Control Features: Enable</p> <p>2.12. Protection Features: Over Current, Over Temperature, Short Circuit</p> <p>2.13. Operating Temperature: -40°C ~ 125°C</p> <p>2.14. Mounting Type: Surface Mount</p> <p>2.15. Package / Case: SC-74A, SOT-753</p> <p>2.16. Supplier Device Package: SOT-23-5</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) set - Twenty five (25) pcs - Fixed 3.3V Output Linear Voltage Regulator</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	1	set	460.00	460.00
31	<p><b>16MHz Microcontroller</b></p> <p>1. GENERAL:</p> <p>1.1. AVR series Microcontroller IC 8-Bit 16MHz 16KB (8K x 16) FLASH 32-VQFN (5x5)</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Core Processor: AVR</p> <p>2.2. Core Size: 8-Bit</p> <p>2.3. Speed: 16MHz</p> <p>2.4. Connectivity: SPI, UART/USART, USB</p> <p>2.5. Peripherals: Brown-out Detect/Reset, POR, PWM, WDT</p> <p>2.6. Number of I/O: 22</p> <p>2.7. Program Memory Size: 16KB (8K x 16)</p> <p>2.8. Program Memory Type: FLASH</p> <p>2.9. EEPROM Size: 512 x 8</p>	10	pc	330.00	3,300.00

	<p>2.10. RAM Size: 512 x 8</p> <p>2.11. Voltage - Supply (Vcc/Vdd): 2.7V ~ 5.5V</p> <p>2.12. Oscillator Type: Internal</p> <p>2.13. Operating Temperature: -40°C ~ 85°C (TA)</p> <p>2.14. Mounting Type: Surface Mount</p> <p>2.15. Package / Cas: 32-VFQFN Exposed Pad</p> <p>2.16. Supplier Device Package: 32-VQFN (5x5)</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. Ten (10) pcs - 16MHz Microcontroller</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
32	<p><b>20MHz Microcontroller</b></p> <p>1. GENERAL:</p> <p>1.1. MCU 32KB In-system Flash 20MHz 1.8V-5.5V</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Series: ATmega328P</p> <p>2.2. Mounting Style: SMD/SMT</p> <p>2.3. Package / Case: TQFP-32</p> <p>2.4. Core: AVR</p> <p>2.5. Program Memory Size: 32 kB</p> <p>2.6. Data Bus Width: 8 bit</p> <p>2.7. ADC Resolution: 10 bit</p> <p>2.8. Maximum Clock Frequency: 20 MHz</p> <p>2.9. Number of I/Os: 23 I/O</p> <p>2.10. Data RAM Size: 2 kB</p> <p>2.11. Operating Supply Voltage: 1.8 V to 5.5 V</p> <p>2.12. Minimum Operating Temperature: - 40 C</p> <p>2.13. Maximum Operating Temperature: + 85 C</p> <p>2.14. Brand: Microchip Technology / Atmel</p> <p>2.15. Data RAM Type: SRAM</p> <p>2.16. Data ROM Size: 1 kB</p> <p>2.17. Data ROM Type: EEPROM</p> <p>2.18. Height: 1 mm</p> <p>2.19. Interface Type: I2C, SPI, USART</p> <p>2.20. Length: 7 mm</p> <p>2.21. Moisture Sensitive: Yes</p> <p>2.22. Number of ADC Channels: 8 Channel</p> <p>2.23. Number of Timers/Counters: 3 Timer</p> <p>2.24. Processor Series: megaAVR</p> <p>2.25. Product: MCU</p> <p>2.26. Product Type: 8-bit Microcontrollers - MCU</p> <p>2.27. Program Memory Type: Flash</p> <p>2.28. Subcategory: Microcontrollers - MCU</p> <p>2.29. Supply Voltage - Max: 5.5 V</p> <p>2.30. Supply Voltage - Min: 1.8 V</p> <p>2.31. Tradename: AVR</p> <p>2.32. Width: 7 mm</p> <p>2.33. Unit Weight: 0.002469 oz</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. Ten (10) pcs - 20MHz Microcontroller</p> <p>4. NOTES:</p>	10	pc	260.00	2,600.00

	<p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
33	<p><b>16MHz Crystal</b></p> <p>1. GENERAL:</p> <p>1.1. 50 pcs of 16 MHz <math>\pm</math>30ppm Crystal 20pF 40 Ohms HC-49/US</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Type: MHz Crystal</p> <p>2.2. Frequency: 16 MHz</p> <p>2.3. Frequency Stability: <math>\pm</math>50ppm</p> <p>2.4. Frequency Tolerance: <math>\pm</math>30ppm</p> <p>2.5. Load Capacitance: 20pF</p> <p>2.6. ESR (Equivalent Series Resistance): 40 Ohms</p> <p>2.7. Operating Mode: Fundamental</p> <p>2.8. Operating Temperature: -20°C ~ 70°C</p> <p>2.9. Mounting Type: Through Hole</p> <p>2.10. Package / Case: HC-49/US</p> <p>2.11. Size / Dimension: 0.447" L x 0.183" W (11.35mm x 4.65mm)</p> <p>2.12. Height - Seated (Max): 0.142" (3.60mm)</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) pack - Fifty (50) pcs - 16MHz Crystal</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	1	pack	1210.00	1,210.00
34	<p><b>Industrial Machine USB Camera</b></p> <p>1. GENERAL:</p> <p>1.1. A 2MP USB camera based on Sony IMX 322 Sensor</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Model: ELP-USBFHD06H-SFV(5-50mm)</p> <p>2.2. Sensor: Sony IMX322</p> <p>2.3. Lens Size: 1/2.9 inch</p> <p>2.4. Pixel Size: 12.8X11.6 mm</p> <p>2.5. image area 2000(H)X1121(V) approx. 2.24 M pixels</p> <p>2.6. Max. Resolution: 1080P</p> <p>2.7. Compression format: H264 /MJPEG / YUV2?YUYV?</p> <p>2.8. Resolution &amp; frame:</p> <p>2.8.1. H264: 320X240@ 30fps /352X288@ 30fps /640X360@ 30fps /640X480@ 30fps /800X600@ 30fps/1280X720@</p>	1	unit	7920.00	7,920.00

	<p>30fps/1920X1080@ 30fps</p> <p>2.8.2. MJPEG: 320X240@ 30fps /352X288@ 30fps /640X360@ 30fps /640X480@ 30fps /800X600@ 30fps/1280X720@30fps/1920X1080@ 30fps</p> <p>2.8.3. YUV 320X240@ 30fps /352X288@ 30fps /640X360@ 30fps /640X480@ 30fps /800X600@ 15 fps</p> <p>2.9. S/N Ratio: 42dB</p> <p>2.10. Dynamic Range: 86dB</p> <p>2.11. Sensitivity: 5.0V/lux-sec@550nm</p> <p>2.12. Mini illumination: 0.01 lux</p> <p>2.13. Shutter Type: Electronic rolling shutter / Frame exposure</p> <p>2.14. Connecting Port type: USB2.0 High Speed</p> <p>2.15. Free Drive Protocol: USB Video Class UVC</p> <p>2.16. Support OTG Protocol: USB2.0 OTG</p> <p>2.17. AEC: Support</p> <p>2.18. AEB: Support</p> <p>2.19. AGC: Support</p> <p>2.20. Adjustable parameters: Brightness, Contrast, Saturation, Hue, Sharpness, Gamma, Gain, White balance, Backlight Contrast, Exposure</p> <p>2.21. Lens Parameter: Standard 2.8-12mm varifocal lens, optional 5-50mm varifocal lens</p> <p>2.22. Digital audio: High quality digital MIC, support single, dual channel</p> <p>2.23. LED board power connector: Support 2P-2.0mm socket</p> <p>2.24. Power supply: USB BUS POWER 4P-2.0mm socket</p> <p>2.25. Power supply: DC5V</p> <p>2.26. Operating Voltage: 140mA~190mA</p> <p>2.27. Working current: -10~70°C</p> <p>2.28. Working temperature: -20~85°C</p> <p>2.29. Board size /Weight: 41x41mm / about 400g</p> <p>2.30. Cable: Standard 3M / optional 2M,5M</p> <p>2.31. Operating system request: Win7 Win8; Linux 2.6 or above; Android 4.0 or above</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) unit - Industrial Machine USB Camera</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
35	<p><b>USB Camera Module</b></p> <p>1. GENERAL:</p> <p>1.1. An 8MP USB camera based on the AR0821 CMOS</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Sensor: AR0821 from onsemi®</p>	1	unit	23820.00	23,820.00

	<p>2.2. Focus Type: Fixed focus  2.3. Sensor Resolution: 8MP  2.4. Chroma: Color  2.5. Shutter type: Electronic Rolling Shutter  2.6. Optical Format: 1/2"  2.7. Output Format: Uncompressed UYVY and Compressed MJPEG  2.8. Pixel size: 2.1 µm x 2.1 µm  2.9. Sensor Active Area: 3848(H) x 2168(V)  2.10. Responsivity: 15.4 ke-/lux-secSNR:41.8 dB  2.11. Dynamic Range: Max upto 140 dB  2.12. Array Size: 3848(H) x 2168(V)  2.13. Holder: M12 (S-Mount)  2.14. DFOV: 8MP - 120° (with the lens provided by e-con)</p> <p>3. PACKAGE INCLUSION:  3.1. One (1) unit - USB Camera Module</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>				
36	<p><b>Single Board Computer Development Board for ARM (Advance RISC Machine)</b></p> <p>1. GENERAL  1.1. 4GB RAM, Hexa-Core ARM, HDMI Display, USB port M.2 Wireless.</p> <p>2. TECHNICAL SPECS:  2.1. Processor: 64 bit Quad-core Arm® Cortex®-A53 @ 1.5 GHz, Dual-core Arm® Cortex®-A72 @ 2.0 GHz.  2.2. GPU: Arm T860 MP4 @ 800 MHz  2.3. Display:  2.3.1. 1 x HDMI™ with CEC hardware ready  2.3.2. 1 x USB Type-C® (DP Alt Mode)  2.3.3. 1 x 22-pin MIPI DSI (4 lane)  2.4. Memory: Dual-CH LPDDR4 4GB  2.5. Audio:  2.5.1. 1 x HDMI™ audio output  2.5.2. 1 x S/PDIF TX pin (from GPIO)  2.5.3. 1 x PCM/I2S pins (from GPIO)  2.6. USB:  2.6.1. 3 x USB 3.2 Gen1 Type-A ports  2.6.2. 1 x USB 3.2 Gen1 Type-C® OTG port  2.7. Connectivity:  2.7.1. 1 x GbE LAN  2.7.2. 1 x M.2 - 802.11 a/b/g/n/ac wireless &amp; BT 5.0 (2T2R)  2.8. Camera Interface: 1 x 15-pin MIPI CSI-2 (2 lane)  2.9. Input power: 1 x 12~19V DC Power Input Jack (5.5/2.5 mm)  2.10 Internal Headers  2.10.1. 28 x GPIO pins  2.10.2. 2 x SPI Bus  2.10.3. 2 x I2C Bus</p>	2	unit	15680.00	31,360.00

	<p>2.10.4. 2 x UART  2.10.5. 3 x PWM  2.10.6. 1 x PCM/I2S  2.10.7. 1 x S/PDIF TX  2.10.8. 2 x 5V power Pins  2.10.9. 8 x ground Pins  2.10.10. 2 x Recovery header  2.10.11. 2 x Power-on header  2.10.12. 2 x Reset header  2.10.13. 2 x Debug UART header  2.10.14. 2 x DC Fan header  2.10.15. 2 x RTC Battery header  2.11 OS Support: Debian9/ Android 10  2.12. Environment: Operating temperature 0–60°C, Non Operational temperature: -40–85°C, Non operation humidity: 0% ~ 85% (Non condensing)  2.13. Storage:  2.13.1. 16GB eMMC  2.13.2. Micro SD(TF) card Slot (push/pull)  2.14. Compatibility: Must be similar with TinkerBoard 2s Specification and must support Tinker Android OS  3. PACKAGE INCLUSION:  3.1. One (1) Unit - Single Board Computer Development Board for ARM(Advance RISC Machine)  4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>				
37	<p><b>Single Board Computer Development Board for Advance RISC Machine with M.2 Slot for Non-Volatile Memory Express</b>  1. GENERAL  1.1. 4GB RAM, Hexa-Core ARM, HDMI Display, Display Port, USB port, M.2 NVME Slot. Built In Wireless.  2. TECHNICAL SPECS:  2.1. Processor: 64 bit Quad-core Arm® Cortex®-A53 @ 1.4 GHz, Dual-core Arm® Cortex®-A72 @ 1.8 GHz  2.2. GPU: Arm® T860 MP4 @ 800 MHz.  2.3. Display:  2.3.1. 1 x Micro HDMI™ 2.0 up to 4k@60(Type A).  2.3.2. 1 x Mini DP 1.2 up to 2560x1440@60.  2.3.3. 1 x MIPI DSI 2 lanes via FPC connector, two of HDMI/DP/MIPI DSI can work at the same time.  2.4. Memory: 64bit Dual-CH LPDDR4 4GB.  2.5. Audio: Audio: 3.5mm jack with mic.  2.6. USB:  2.6.1. 1 x USB 3.2 Gen1 Type-A ports.  2.6.2. 1 x USB 3.2 Gen1 Type-C® OTG port.  2.6.3 2 x USB 2.0 .  2.7. Connectivity:  2.7.1. 1 x GbE LAN with PoE support.  2.7.2. 1 x 802.11 a/b/g/n/ac wireless &amp; BT 5.0</p>	2	unit	7920.00	15,840.00



	<p>(Onboard Antenna).</p> <p>2.8. Camera Interface: 1 x 15-pin MIPI CSI-2 (2 lane) via FPC Connector.</p> <p>2.9 Input and Output</p> <p>2.9.1. 1 x UART.</p> <p>2.9.2. 2 x SPI Bus.</p> <p>2.9.3. 2 x I2C Bus.</p> <p>2.9.4. 1 x PCM/I2s.</p> <p>2.9.5. 1 x SPIF.</p> <p>2.9.6. 1 x PWM.</p> <p>2.9.7. 1 x ADC.</p> <p>2.9.8. 6 x GPIO.</p> <p>2.9.9. 2 x 5V DC Power in.</p> <p>2.9.10 2 x 3.3V power pin.</p> <p>2.10. Input power: USB Type C PD 2.0, 9V/2A, 12V/2A, 15V/2A, 20V/2A.</p> <p>2.11 OS Support: Debian9/ Android 10.</p> <p>2.12. Environment: Operating temperature 0–60°C, Non Operational temperature: -40–85°C, Non operation humidity: 0% ~ 85% (Non condensing)</p> <p>2.13. Storage:</p> <p>2.13.1. 1x 16GB eMMC.</p> <p>2.13.2. 1x Micro SD slot up to 128GB.</p> <p>2.13.3 1x M.2 connector supports up to 2T M.2 NVME SSD</p> <p>2.14. Compatibility: Must be similar with Rock Pi 4 Model C/C+ Specification</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. One (1) Unit - Single Board Computer Development Board for Advance RISC Machine with M.2 Slot for Non-Volatile Memory Express</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
38	<p><b>Microcontroller</b></p> <p>1. GENERAL:</p> <p>1.1. Contains one or more CPUs (processor cores) along with memory and programmable input/output peripherals.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Built-in LED Pin: 13</p> <p>2.2. Digital I/O Pins: 54</p> <p>2.3. Analog input pins: 16</p> <p>2.4. PWM pins: 15</p> <p>2.5. UART: Yes, 4</p> <p>2.6. I2C: Yes</p> <p>2.7. SPI: Yes</p> <p>2.8. I/O Voltage: 5V</p> <p>2.9. Input voltage (nominal): 7-12V</p> <p>2.10. DC Current per I/O Pin: 20 mA</p> <p>2.11. Supported battery: 9V battery</p> <p>2.12. Power Supply Connector: Barrel Plug</p>	3	pc	3382.50	10,147.50

	<p>2.13. Main Processor: ATmega2560 16 MHz</p> <p>2.14. USB-Serial Processor: ATmega16U2 16 MHz</p> <p>2.15. ATmega2560: 8KB SRAM, 256KB FLASH, 4KB EEPROM</p> <p>2.16. Weight: 37g</p> <p>2.17. Width: 53.3mm</p> <p>2.18. Length: 101.5 mm</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 3 pcs - Microcontroller kit</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
39	<p><b>Solenoid</b></p> <p>1. GENERAL:</p> <p>1.1. A type of electromagnet formed by a helical coil of wire whose length is substantially greater than its diameter, which generates a controlled magnetic field.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Solenoid Type: Pull-Type (Linear)</p> <p>2.2. Voltage Rating: 3V</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 60 pcs - Solenoid</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	60	pc	400.00	24,000.00
40	<p><b>Power Switch</b></p> <p>1. GENERAL:</p> <p>1.1. Controls the flow of power to an electric device.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Rating: 20A/125VAC, 15A/250 VAC, 3/4 HP - 125 VAC/250 VAC</p> <p>2.2. Body colour: Black</p> <p>2.3. Actuator colour: Red</p> <p>2.4. Marking: 1 and 0</p> <p>2.5. Marking colour: White</p> <p>2.6. Mechanical Life: &gt;50000 cycles</p> <p>2.7. Protection degree: IP40</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 3 pcs - Power switch</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p>	3	pc	260.00	780.00

	<p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
41	<p><b>Light Dependent Resistor</b></p> <p>1. GENERAL:</p> <p>1.1. An electronic component that is sensitive to light.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Light resistance: ~1k Ohm</p> <p>- 2.2. Dark resistance: ~10k Ohm</p> <p>2.3. Max voltage: 150V</p> <p>2.4. Max power: 100mW</p> <p>2.5. Dimension: 2x4x5mm</p> <p>2.6. 4mm between pins</p> <p>2.7. 31mm lead length</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 60 pieces - LDR sensor</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	60	pc	15.00	900.00
42	<p><b>Transistor TIP120</b></p> <p>1. GENERAL:</p> <p>1.1. A device that regulates current or voltage flow and acts as a switch or gate for electronic signals.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Transistor Type: NPN</p> <p>2.2. Maximum Continuous Collector Current: 8 A</p> <p>2.3. Maximum Collector Emitter Voltage: 60 V</p> <p>2.4. Maximum Emitter Base Voltage: 5 V</p> <p>2.5. Package Type: TO-220</p> <p>2.6. Mounting Type: Through Hole</p> <p>2.7. Pin Count: 3</p> <p>2.8. Transistor Configuration: Single</p> <p>2.9. Number of Elements per Chip: 1</p> <p>2.10. Minimum DC Current Gain: 1000</p> <p>2.11. Maximum Collector Base Voltage: 60 V</p> <p>2.12. Maximum Collector Emitter Saturation Voltage: 4 V</p> <p>2.13. Maximum Collector Cut-off Current: 0.5mA</p> <p>2.14. Dimensions: 15.75 x 10.28 x 4.82mm</p> <p>2.15. Height: 4.82mm</p> <p>2.16. Length: 15.75mm</p> <p>2.17. Width: 10.28mm</p> <p>2.18. Minimum Operating Temperature: -65 °C</p> <p>2.19. Maximum Power Dissipation: 65 W</p> <p>2.20. Maximum Operating Temperature: +150 °C</p> <p>3. PACKAGE INCLUSION:</p>	60	pc	60.00	3,600.00

	<p>3.1. 60 pcs - TIP120 NPN Darlington Transistor</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
43	<p><b>Diode 1N4001</b></p> <p>1. GENERAL:</p> <p>1.1. An electrical component that allows the flow of current in only one direction.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Mounting type: Through hole</p> <p>2.2. Operating temp: -65°C ~ 175°C</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 60 pcs - 1N4001 diode</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	60	pc	14.30	858.00
44	<p><b>Resistor 4.7 kOhms</b></p> <p>1. GENERAL:</p> <p>1.1. An electrical component that limits or regulates the flow of electrical current in an electronic circuit.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Resistance 4.7 kOhms</p> <p>2.2. Wattage: 0.25 W</p> <p>2.3. Tolerance: ±5%</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 60 pcs - 4.7 kOhms resistor</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	60	pc	3.85	231.00
45	<p><b>Stepper Motor</b></p> <p>1. GENERAL:</p> <p>1.1. An electric motor whose main feature is that its shaft rotates by performing steps.</p> <p>2. TECHNICAL SPECS:</p>	3	pc	900.00	2,700.00

	<p>2.1. Form Factor: Nema 17  2.2. Step Angle: 1.8 degrees  2.3. Motor Length: 40 mm  2.4 Rated Voltage: 4.1 V  2.5. Rated Current: 0.5 A  2.6. Phase Resistance: 8 Ω  2.7. Phase Inductance: 15 mH  2.8. Holding Torque: 2600 g-cm  2.9. No. of Lead Wires: 4  2.10. Rotor Inertia: 54 g-cm<sup>2</sup>  2.11. Detent Torque: 220 g-cm  2.12. Motor Weight: 0.26 kg</p> <p>3. PACKAGE INCLUSION:  3.1. 3 pcs - Stepper motor</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>				
46	<p><b>Bearing KLF001</b></p> <p>1. GENERAL:  1.1. A machine element that constrains relative motion to only the desired motion, and reduces friction between moving parts.</p> <p>2. TECHNICAL SPECS:  2.1. Type: Pillow block bearing  2.2. Housing Material: Zinc Alloy.  2.3. Bearing Material: Chrome Steel</p> <p>3. PACKAGE INCLUSION:  3.1. 60 packs - KLF001 Bearing</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>	60	pack	220.00	13,200.00
47	<p><b>Bearing KP001</b></p> <p>1. GENERAL:  1.1. A machine element that constrains relative motion to only the desired motion, and reduces friction between moving parts.</p> <p>2. TECHNICAL SPECS:  2.1. Ball material: Chrome steel  2.2. Housing material: Zinc-Aluminum Alloy  2.3. Working Temperature: -40 to 160 Degrees celcius</p> <p>3. PACKAGE INCLUSION:  3.1. 6 pcs - KP01 bearing</p>	6	pc	260.00	1,560.00

	<p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
48	<p><b>Pulley (60T)</b></p> <p>1. GENERAL:</p> <p>1.1. A wheel on an axle or shaft that is designed to support movement and change of direction of a taut cable or belt, or transfer of power between the shaft and cable or belt.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Tooth Profile: GT2 (2GT)</p> <p>2.2. Pitch: 2mm</p> <p>2.3. Number of Teeth: 60</p> <p>2.4. Belt Width: 10mm</p> <p>2.5. Bore Diameter: 12mm</p> <p>2.6. Material: Aluminum</p> <p>2.7. Pulley Shape: with flanges and hub with at least 2 locking set screws</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 1 pc – 20T Pulley</p> <p>3.2. 2 pcs – set screw</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	3	set	380.00	1,140.00
49	<p><b>Pulley (20T)</b></p> <p>1. GENERAL:</p> <p>1.1. A wheel on an axle or shaft that is designed to support movement and change of direction of a taut cable or belt, or transfer of power between the shaft and cable or belt.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Tooth Profile: GT2 (2GT)</p> <p>2.2. Pitch: 2mm</p> <p>2.3. Number of Teeth: 20</p> <p>2.4. Belt Width: 10mm</p> <p>2.5. Bore Diameter: 5mm</p> <p>2.6. Material: Aluminum</p> <p>2.7. Pulley Shape: with flange and hub with at least 2 locking set screws</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 1 pc – 20T Pulley</p> <p>3.2. 2 pcs – set screw</p> <p>4. NOTES:</p>	3	set	200.00	600.00

	<p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
50	<p><b>Belt</b></p> <p>1. GENERAL:</p> <p>1.1. A belt is used to transfer power (rotary energy) from one source to another.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. 1 Meter per piece</p> <p>2.2. GT2 or GT3 for your choice</p> <p>2.3. Single Sided Belt</p> <p>2.4. GT2 Belt Pitch: 2mm</p> <p>2.5. GT3 Belt Pitch: 3mm</p> <p>2.6. GT2 Belt Width: 5mm/6mm/9mm/10mm/15mm (for choice)</p> <p>2.7. GT3 Belt Width: 5mm/6mm/9mm/10mm (for choice)</p> <p>2.8. Tension Member: Fiberglass</p> <p>2.9. Color: Black</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 3 pcs - Belt</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	3	pc	290.00	870.00
51	<p><b>Motor Bracket</b></p> <p>1. GENERAL:</p> <p>1.1. A bracket use to secure a motor next to or within the equipment it is operating.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Model: BR00007-1</p> <p>2.2. Material: Aluminum</p> <p>2.3. Finished: Black anodized</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 1 pc - NEMA 17 Motor Mounting Bracket Plate</p> <p>3.2. 4 pc - M3 x 5mm screws</p> <p>3.3. 4 pc - M3 x 10mm screws</p> <p>3.4. 4 pc - M3 Nuts</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC</p>	3	set	150.00	450.00

	Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds). 4.4. Payment upon full delivery.				
52	<p><b>Aluminum Extrusion 20 x 20</b></p> <p>1. GENERAL: 1.1. Extruded aluminum used for framing and prototyping.</p> <p>2. TECHNICAL SPECS: 2.1. Size: 20mm x 20mm 2.2. Length: 610 mm</p> <p>3. PACKAGE INCLUSION: 3.1. 21 pcs - Aluminum Extrusion</p> <p>4. NOTES: 4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above. 4.2. Price is inclusive of all government fees, taxes and other fees. 4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds). 4.4. Payment upon full delivery.</p>	21	pc	970.00	20,370.00
53	<p><b>Shaft</b></p> <p>1. GENERAL: 1.1. A rotating machine element, usually circular in cross section, which is used to transmit power from one part to another, or from a machine which produces power to a machine which absorbs power.</p> <p>2. TECHNICAL SPECS: 2.1. Diameter: Ø12mm 2.2. Length: 150mm, 300mm, 500mm, 1000mm 2.3. Material: 316 Stainless Steel</p> <p>3. PACKAGE INCLUSION: 3.1. 9 pcs - Shaft</p> <p>4. NOTES: 4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above. 4.2. Price is inclusive of all government fees, taxes and other fees. 4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds). 4.4. Payment upon full delivery.</p>	9	pc	1540.00	13,860.00
54	<p><b>LED Wall Mounted Outdoor Type Lamp</b></p> <p>1. GENERAL: 1.1. A device used to produce light for specific area or location.</p> <p>2. TECHNICAL SPECS: 2.1. Wattage: 10 watts 2.2. Light type: LED 2.3. Light Color: White</p> <p>3. PACKAGE INCLUSION: 3.1. 3 pcs - LED Outdoor type Lamp</p> <p>4. NOTES:</p>	3	pc	1250.00	3,750.00



	<p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
55	<p><b>RTC Module</b></p> <p>1. GENERAL:</p> <p>1.1. Modules that are time and date remembering systems which have battery setup which in the absence of external power keeps the module running. This keeps the time and date up to date.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Timing IC: DS1302</p> <p>2.2. Working voltage: 2.0-5.5 V</p> <p>2.3. RAM data transmission modes: Single byte / many bytes</p> <p>2.4. Interface: 3-line</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 3 pcs - RTC Module</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	3	pc	75.00	225.00
56	<p><b>Wireless Module</b></p> <p>1. GENERAL:</p> <p>1.1. A module that contains wireless elements and protocols that is used for communication between the hardware and the user.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Product Dimensions: 50.0mm x 46.0mm x 7.0mm / 2.0" x 1.8" x 0.3"</p> <p>2.2. Product Weight: 50.0g / 1.8oz</p> <p>2.3. 16 acquisition channels</p> <p>2.4. GPS L1 C/A code</p> <p>2.5. Sensitivity Tracking: -157 dBm</p> <p>2.6. Cold starts : -144 dBm</p> <p>2.7. Time-To-First-Fix:</p> <p>Cold starts: 100s (typ.)</p> <p>Hot starts: 1s (typ.)</p> <p>2.8. Accuracy: approx 2.5 meters</p> <p>2.9. RF technology: Mobile Communication (Cellular)</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 3 pcs - Wireless module</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p>	3	pc	7500.00	22,500.00

	<p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
57	<p><b>L298N Motor Driver</b></p> <p>1. GENERAL:</p> <p>1.1. A module used to drive inductive loads that requires forward and reverse function with speed control such as DC Motors, and Stepper Motors.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Driver: L298 Dual H Bridge DC Motor Driver IC</p> <p>2.2. Operating Voltage: 7 to 35V</p> <p>2.3. Peak current: 2A</p> <p>2.4. Maximum power consumption: 20W (when the temperature T = 75 °C)</p> <p>2.5. Driver Board Size: 55mm * 49mm * 33mm (with fixed copper pillar and the heat sink height)</p> <p>2.6. Driver Board Weight: 33g</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 3 pcs - L298N Motor Driver Module</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	3	pc	120.00	360.00
58	<p><b>Multiplexer Module</b></p> <p>1. GENERAL:</p> <p>1.1. A breakout board for the 16-Channel Analog/Digital Multiplexer/Demultiplexer.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. IC/Part : 74HC4067</p> <p>2.2. Channels: 16</p> <p>2.3. Operational voltage: 2V to 6V</p> <p>2.4. On resistance: 70 ohms at 4.5V</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 6 pcs - Multiplexer module</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	6	pc	260.00	1,560.00
59	<p><b>M2x5 Socket Head Cap Screws</b></p> <p>1. GENERAL:</p>	500	pc	8.14	4,070.00

	<p>1.1. A simple machine that consists of an inclined plane wrapped around a central cylinder. Use to combine two or more parts.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Thread Size: M2</p> <p>2.2. Length: 5mm</p> <p>2.3. Head Shape: Hex Socket Head Cap</p> <p>2.4. DIN Standard: DIN 912</p> <p>2.5. Material: Stainless Steel (A2)</p> <p>2.6. Thread Type: Metric</p> <p>2.7. Thread Pitch: 0.4</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. Five hundred (500) pcs – M2x5 Hex Socket Head Cap Screws</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
60	<p><b>M2x10 Socket Head Cap Screws</b></p> <p>1. GENERAL:</p> <p>1.1. A simple machine that consists of an inclined plane wrapped around a central cylinder. Use to combine two or more parts.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Thread Size: M2</p> <p>2.2. Length: 10mm</p> <p>2.3. Head Shape: Hex Socket Head Cap</p> <p>2.4. DIN Standard: DIN 912</p> <p>2.5. Material: Stainless Steel (A2)</p> <p>2.6. Thread Type: Metric</p> <p>2.7. Thread Pitch: 0.4</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. Five hundred (500) pcs – M2x10 Hex Socket Head Cap Screws</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	500	pc	8.14	4,070.00
61	<p><b>M3x5 Socket Head Cap Screws</b></p> <p>1. GENERAL:</p> <p>1.1. A simple machine that consists of an inclined plane wrapped around a central cylinder. Use to combine two or more parts..</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Thread Size: M3</p>	500	pc	4.62	2,310.00

	<p>2.2. Length: 5mm</p> <p>2.3. Head Shape: Hex Socket Head Cap</p> <p>2.4. DIN Standard: DIN 912</p> <p>2.5. Material: Stainless Steel (A2)</p> <p>2.6. Thread Type: Metric</p> <p>2.7. Thread Pitch: 0.5</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. Five hundred (500) pcs – M3x5 Hex Socket Head Cap Screws</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>				
62	<p><b>M3x10 Socket Head Cap Screws</b></p> <p>1. GENERAL:</p> <p>1.1. A simple machine that consists of an inclined plane wrapped around a central cylinder. Use to combine two or more parts..</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Thread Size: M3</p> <p>2.2. Length: 10mm</p> <p>2.3. Head Shape: Hex Socket Head Cap</p> <p>2.4. DIN Standard: DIN 912</p> <p>2.5. Material: Stainless Steel (A2)</p> <p>2.6. Thread Type: Metric</p> <p>2.7. Thread Pitch: 0.5</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. Five hundred (500) pcs – M3x10 Hex Socket Head Cap Screws</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery.</p>	500	pc	5.83	2,915.00
63	<p><b>No. 2 x 3/16 Self Tapping Screws</b></p> <p>1. GENERAL:</p> <p>1.1. A simple machine that consists of an inclined plane wrapped around a central cylinder. Use to combine two or more parts.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Thread Size: No. 2</p> <p>2.2. Length: 3/16in</p> <p>2.3. Head Shape: Pan</p> <p>2.4. DIN Standard: DIN 7981C</p> <p>2.5. Material: Stainless Steel (A2)</p> <p>2.6. Thread Type: Imperial</p>	500	pc	5.83	2,915.00

	<p>3. PACKAGE INCLUSION:  3.1. Five hundred (500) pcs – No. 2 x 3/16 Self Tapping Screws</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>				
64	<p><b>No. 4 x 3/16 Self Tapping Screws</b></p> <p>1. GENERAL:  1.1. A simple machine that consists of an inclined plane wrapped around a central cylinder. Use to combine two or more parts..</p> <p>2. TECHNICAL SPECS:  2.1. Thread Size: No. 4  2.2. Length: 3/16in  2.3. Head Shape: Pan  2.4. DIN Standard: DIN 7981C  2.5. Material: Stainless Steel (A2)  2.6. Thread Type: Imperial</p> <p>3. PACKAGE INCLUSION:  3.1. Five hundred (500) pcs – No. 4 x 3/16 Self Tapping Screws</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes and other fees.  4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).  4.4. Payment upon full delivery.</p>	500	pc	10.00	5,000.00
65	<p><b>Wires (AWG 26) Black, Solid</b></p> <p>"1. GENERAL:  1.1. A long thin piece of metal that is used to carry electric current</p> <p>2. TECHNICAL SPECS:  2.1. Cross Sectional Area: 0.12 mm<sup>2</sup>  2.2. Sheath Colour: Black  2.3. American Wire Gauge: 26 AWG  2.4. Core Strands: 1/0.40 mm  2.5. Insulation Material: ETFE  2.6. Length: 50m  2.7. Voltage Rating:300 V</p> <p>3. PACKAGE INCLUSION:  3.1. 6 rolls of 50m AWG26 Black Solid Wires</p> <p>4. NOTES:  4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.  4.2. Price is inclusive of all government fees, taxes</p>	6	roll	1920.00	11,520.00

	<p>and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery. "</p>				
66	<p><b>Wires (AWG 26) Red, Solid</b></p> <p>"1. GENERAL:</p> <p>1.1. A long thin piece of metal that is used to carry electric current</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Cross Sectional Area: 0.12 mm<sup>2</sup></p> <p>2.2. Sheath Colour: Red</p> <p>2.3. American Wire Gauge: 26 AWG</p> <p>2.4. Core Strands: 1/0.40 mm</p> <p>2.5. Insulation Material: ETFE</p> <p>2.6. Length: 50m</p> <p>2.7. Voltage Rating: 300 V</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 6 rolls of 50m AWG26 Red Solid Wires</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery. "</p>	6	roll	1860.00	11,160.00
67	<p><b>Wires (AWG 26) Black, Stranded</b></p> <p>"1. GENERAL:</p> <p>1.1. A long thin piece of metal that is used to carry electric current.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Cross Sectional Area: 0.13 mm<sup>2</sup></p> <p>2.2. Sheath Colour: Black</p> <p>2.3. American Wire Gauge: 26 AWG</p> <p>2.4. Core Strands: 7/0.16 mm</p> <p>2.5. Insulation Material: XLPE</p> <p>2.6. Length: 100m</p> <p>2.7. Voltage Rating: 300 V</p> <p>2.8. Outer Diameter: 1.3mm</p> <p>2.9. Conductor Material: Tinned Copper</p> <p>2.10. Wire Style: UL3266</p> <p>2.11. Maximum Operating Temperature: +125 degrees Celsius</p> <p>2.12. Minimum Operating Temperature: 0 degrees Celsius</p> <p>2.13. Insulation Wall Thickness: 0.4mm</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 3 rolls of 100m Black Stranded Wires</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p>	3	roll	1430.00	4,290.00

	<p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery. "</p>				
68	<p><b>Wires (AWG 26) Red, Stranded</b></p> <p>"1. GENERAL:</p> <p>1.1. A long thin piece of metal that is used to carry electric current.</p> <p>2. TECHNICAL SPECS:</p> <p>2.1. Cross Sectional Area: 0.13 mm<sup>2</sup></p> <p>2.2. Sheath Colour: Red</p> <p>2.3. American Wire Gauge: 26 AWG</p> <p>2.4. Core Strands: 7/0.16 mm</p> <p>2.5. Insulation Material: XLPE</p> <p>2.6. Length: 100m</p> <p>2.7. Voltage Rating: 300 V</p> <p>2.8. Outer Diameter: 1.3mm</p> <p>2.9. Conductor Material: Tinned Copper</p> <p>2.10. Wire Style: UL3266</p> <p>2.11. Maximum Operating Temperature: +125 degrees Celsius</p> <p>2.12. Minimum Operating Temperature: 0 degrees Celsius</p> <p>2.13. Insulation Wall Thickness: 0.4mm</p> <p>3. PACKAGE INCLUSION:</p> <p>3.1. 3 rolls of 100m Red Stranded Wires</p> <p>4. NOTES:</p> <p>4.1. The Bidder shall supply all items with the specifications equal to or better than as specified above.</p> <p>4.2. Price is inclusive of all government fees, taxes and other fees.</p> <p>4.3. Must be delivered to EPDC Bldg., MIRDC Compound, Bicutan, Taguig City on or before October 31, 2022 (delivery beyond this date will be subject to availability of funds).</p> <p>4.4. Payment upon full delivery. "</p>	3	roll	1640.00	4,920.00

**TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):**

**Php 297,278.50**

**GUIDELINES**

**A. Content and Format of Quotations**

1. The Quotation/s must include the RFQ Number or the PR Number indicated above
2. Bidders must specify the BRAND NAMES and MODEL NAMES/NUMBER for the following goods:
  - a. Computer and electronic equipment and its accessories or peripherals
  - b. Software applications, programs, and digital licenses
  - c. Commercial off-the-shelf electronic devices or components
3. The Quotation/s must indicate the registered business name of the company (or individual), business address and contact number. It must also include the full name and signature of the company's authorized representative.
4. BIR Certificate of Registration for new DOST-ASTI suppliers.

## **B. Eligibility Requirements**

Pursuant to Annex "H" or Consolidated Guidelines for the Alternative Methods of Procurement of the 2016 Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184, the following documents shall be submitted except for Repeat Order, Shopping under Section 52.1(a), and Negotiated Procurement under Sections 53.1 (Two-Failed Biddings), and 53.5 (Agency-to-Agency):

### **For Procurement of Goods**

1. Upon submission of quotation
  - a. Valid PhilGEPS Registration Number / Organization ID
  - b. Valid Mayor's/Business Permit
2. Upon issuance of Notice of Award (NOA)
  - a. Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)
  - b. Income/Business Tax Return (For ABCs above P500,000.00)

### **For Procurement of Infrastructure**

1. Upon submission of quotation
  - a. Valid PhilGEPS Registration Number / Organization ID
  - b. Valid Mayor's/Business Permit
  - c. Valid PCAB License
2. Upon issuance of NOA
  - a. Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)
  - b. Income/Business Tax Return (For ABCs above P500,000.00)

*\*Requirements under Section 53.6 (Scientific, Scholarly or Artistic Work, Exclusive Technology and Media Services) of the revised IRR of RA No. 9184 will not apply to artists such as singer, performer, poet, writer, painter and sculptor who are engaged in business.*

*\*\*Requirements under Section 53.10 (Lease of Real Property or Venue) of the revised IRR of RA No. 9184, specifically Mayor's/Business Permit, PhilGEPS Registration Number and Income/Business Tax Return will not apply to government agencies as lessors.*

*\*\*\*For methods of procurement requiring Mayor's Permit and PhilGEPS Registration Number, valid Certificate of Platinum Membership may be submitted in lieu of the said documents.*

## **C. Terms and Conditions**

1. Additional requirements, if necessary, may be requested by the BAC depending on the item to be bid;
2. All transactions are subject to creditable withholding tax and final Value Added Tax or percentage tax per revenue regulation/s of the BIR;
3. Liquidated damages of at least equal to one-tenth of one percent (0.001) of the cost of the unperformed portion for every day of delay shall be imposed by the DOST-ASTI pursuant to Section 68 of the revised IRR of RA No. 9184; and
4. The DOST-ASTI reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.