



Republic of the Philippine
TARLAC STATE UNIVERSITY
Romulo Blvd., San Vicente, Tarlac City
Tel. No.: (045) 982 4630
Website: www.tsu.edu.ph

Bidding Documents

(This Bidding Documents is in conformance with the Sixth Edition of the Philippine Bidding Documents for the Procurement of Goods)

For the Project

Supply and Delivery of IT Tools, Supplies and Accessories (APP 2025)

**With an Approved Budget for the Contract (ABC) of
Three Million One Hundred Seventy-Four Thousand Five
Hundred Twenty-Three and 9/100 Pesos (₱ 3,174,523.09)**

**Invitation to Bid No. Goods 2025-035
PhilGEPS Reference No.: 12483007**

**July 2020
6th Edition**

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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

CDA - Cooperative Development Authority.

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

DDP – Refers to the quoted price of the Goods, which means “delivered duty paid.”

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

Foreign-funded Procurement or Foreign-Assisted Project– Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

Framework Agreement – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as “Call-Offs,” are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN – United Nations.

Section I. Invitation to Bid



Republic of the Philippine
TARLAC STATE UNIVERSITY
Romulo Blvd., San Vicente, Tarlac City
Tel. No.: (045) 982 4630
Website: www.tsu.edu.ph

INVITATION TO BID

For the Project

Supply and Delivery of IT Tools, Supplies and Accessories
(APP 2025)

Invitation to Bid No. Goods 2025-035

1. The Tarlac State University, through Business Center Fund intends to apply the sum of **Three Million One Hundred Seventy-Four Thousand Five Hundred Twenty-Three and 9/100 Pesos (₱ 3,174,523.09)** to payments under the contracts for the project: **Supply and Delivery of IT Tools, Supplies and Accessories (APP 2025)**.

Bids received in excess of the ABC for shall be automatically rejected at bid opening.

Line Item No.	Description	Qty.	Unit	ABC, ₱
1.	Biometrics Device	10	Unit	230,000.00
2.	Cable, Fiber Optic	1	Unit	6,000.00
3.	Cable, Hdmi Cable (5 Meters)	1	Unit	500.00
4.	CABLE, HDMI (10 Meters)	26	Unit	26,000.00
5.	CABLE, HDMI (20 Meters)	30	Unit	75,000.00
6.	Cable, Utp Cat 6	15	Unit	127,500.00
7.	Camera, Web	16	Unit	24,000.00
8.	Charger, Dslr Battery	1	Unit	5,000.00
9.	Charger, Nimh Battery	1	Unit	2,000.00
10.	Computer Memory Kit	10	Unit	80,000.00
11.	Cooler, Laptop	2	Unit	6,000.00
12.	Gigabit Switch - 10 Port Unmanaged	10	Unit	48,000.00

13.	Gigabit Switch - 16 Port Unmanaged Rackmount	5	Unit	27,500.00
14.	Gigabit Switch - 24 Port Unmanaged Rackmount	5	Unit	42,500.00
15.	Hub, Usb C	2	Unit	3,000.00
16.	Hub, Usb-C 6-In-1	3	Unit	2,100.00
17.	Hub, Usb-C With Network Port	3	Unit	6,000.00
18.	Keyboard, Computer	10	Unit	5,000.00
19.	Monitor, Computer	8	Unit	168,000.00
20.	Mouse, Computer	15	Unit	6,000.00
21.	Media Converter, Gigabit Multi-Mode	6	Unit	19,800.00
22.	Media Converter, Smart	4	Unit	20,000.00
23.	Printer, Industrial Electronic Labeller	3	Unit	15,000.00
24.	Printer, Monochrome Multi-Function Inkjet	23	Unit	460,000.00
25.	Printer, Multi-Function Colored Ink Tank	6	Unit	121,384.62
26.	Printer, Portable Label	1	Unit	8,800.00
27.	Printer, Single Function	11	Unit	93,288.47
28.	Printer, Wide Dot Matrix	2	Unit	70,000.00
29.	Printer, Wide Format All-In-One	1	Unit	31,250.00
30.	Projector W/ Presenter Bundle & Tripod Whitescreen	2	Unit	92,000.00
31.	Router, Wireless	10	Unit	80,000.00
32.	Scanner, Barcode	5	Unit	25,000.00
33.	Scanner, High Speed	12	Unit	297,600.00
34.	Scanner, Wireless Barcode	6	Unit	42,000.00
35.	Sc-Lc Fiber Patch	50	Unit	15,000.00
36.	Soldering Iron And Hot Air	3	Unit	45,000.00
37.	Storage, External Hard Disk Drive 5tb	1	Unit	9,000.00
38.	Storage, Flash Drive 8gb	2	Unit	800.00

39.	Storage, Flash Drive 32gb	10	Unit	6,000.00
40.	Storage, Nas Hard Disk Drive 4tb	2	Unit	20,000.00
41.	Storage, Network Attached Storage	3	Unit	120,000.00
42.	Storage, Portable External Ssd 1tb	6	Unit	42,000.00
43.	Storage, Portable External Ssd 4tb	1	Unit	20,000.00
44.	Storage, Sd Card 128gb	5	Unit	6,000.00
45.	Storage, Sd Card 256gb	1	Unit	2,000.00
46.	Switch, Stackable Smart Managed Switch With 10g Uplinks Switch With Sfp Modules	10	Unit	270,000.00
47.	Tablet, Computer	9	Unit	144,000.00
48.	Tablet, Computer 7 Inch	3	Unit	36,000.00
49.	Tablet, Computer For Mobile App Development	1	Unit	25,000.00
50.	Tablet, Computer For Mobile App Development	1	Unit	49,000.00
51.	Tablet, Drawing	1	Unit	15,000.00
52.	Tablet, Wireless Drawing	5	Unit	20,000.00
53.	Transceiver, Sfp	10	Unit	18,000.00
54.	Uninterrupted Power Supply	1	Unit	8,000.00
55.	Voice Recorder	5	Unit	37,500.00

2. The Tarlac State University now invites bids for the project **Supply and Delivery IT Tools, Supplies and Accessories (APP 2025)**. Delivery of the Goods is required within **Sixty (60) calendar days** from the receipt of the Notice to Proceed. Bidders must have completed, within the last five (5) years prior to the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

4. Interested bidders may obtain further information from **Tarlac State University** and inspect the Bidding Documents at the address given below during Tuesday to Friday from 7:00 A.M. to 6:00 P.M:

BAC Secretariat
Motorpool and Administration Building
Tarlac State University
Romulo Blvd., San Vicente, Tarlac City
Tel. No. (045) 606-8110-142 / 0998 846 0206
Email: tsubacsec2025@gmail.com

5. A complete set of Bidding Documents may be acquired by interested Bidders from **October 16, 2025, to November 5, 2025**, from the aforementioned address upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **₱ 5,000.00**.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The Tarlac State University will hold a Pre-Bid Conference on **October 24, 2025 (3:00 P.M.)** at the Bids and Awards Committee Conference Room, 3rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City, which shall be open to prospective bidders.
7. Three (3) copies of the bid proposals (one original, and additional copy 1 and 2) must be submitted to the BAC which must be duly received by the BAC Secretariat through manual submission at the office address indicated in the bidding documents, on **November 5, 2025 at 2:30 P.M.** Failure of bidders to comply with the said request of additional copies shall not be a ground for disqualification.

Late submission shall not be accepted.

BAC Secretariat
Motorpool and Administration Building
Tarlac State University
Romulo Blvd., San Vicente, Tarlac City
Tel. No. (045) 606-8110-142 / 0998 846 0206
Email: bacsec@tsu.edu.ph

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.
9. Bid opening shall be on **November 5, 2025, at 3:00 P.M.**, at the Bids and Awards Committee Conference Room, 3rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City. Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below.
10. The Summary of the procurement activities is as follows:

Activities	Date and Time	Venue
Posted to PhilGEPS	October 16, 2025	N/A
Pre-Bid Conference	October 24, 2025 (3:00 PM)	BAC Conference Room, 3 rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City
Deadline of Submission of Bids	November 5, 2025 (2:30 PM)	
Opening of Bids	November 5, 2025 (3:00 PM)	

11. The Tarlac State University 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 9184, without thereby incurring any liability to the affected bidder or bidders.

12. For further information, please refer to:

Ms. Mariel C. Santos
BAC Secretariat
Motorpool and Administration Building
Tarlac State University
Romulo Blvd., San Vicente, Tarlac City
Tel. No. (045) 606-8110-142 / 0998 846 0206
Email: tsubacsec2025@gmail.com

ATTY. WILMARK J. RAMOS, DBA
BAC Chairperson – Goods and Services



Section II. Instructions to Bidders

1. Scope of Bid

1.1. The Tarlac State University wishes to receive Bids for the project: **Supply and Delivery of IT Tools, Supplies and Accessories (APP 2025)**, with identification number **Invitation to Bid No. Goods 2025-035**.

1.2. The procurement project (referred to herein as “Project”) is composed of **Fifty-Five (55) line-item** the details of which are described in Section VII. Technical Specifications.

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **2025** in the amount of **₱ 3,174,523.09**

2.2. The source of funding is the **Special Budget**.

3. Bidding Requirements

3.1. The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

3.2. Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or IB by the BAC through the issuance of a supplemental or bid bulletin.

3.3. The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder must have a SLCC that is similar to the Project, as described in the **BDS**, with a value, adjusted to current prices using the PSA’s CPI, that is at least equivalent to **fifty percent (50%) of the total ABC of the project**.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

7. Subcontracts

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that subcontracting is not allowed

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and at the address indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII. Checklist of Technical and Financial Documents**.

10.2. The Bidder's **SLCC** as indicated in **ITB** Clause 5.3 should have been completed **within five (5) years** prior to the deadline for the submission and receipt of bids.

10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII. Checklist of Technical and Financial Documents**.

11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.

11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Bid Prices

12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:

- a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;
 - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in e.
- b. For Goods offered from abroad:
 - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - ii. The price of other (incidental) services, if any, as listed in **Section VII. Technical Specifications**.

13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in Philippine Pesos.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid until **March 5, 2026**. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

15.1. Each Bidder shall submit one copy of the first and second components of its Bid.

15.2. The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

15.3. If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be

digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

16. Deadline for Submission of Bids

- 16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

- 17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

- 18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items are indicated in **Section VII. Technical Specifications**, and the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. **The Project shall be awarded as one project having several items that shall be awarded as separate contracts.**
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

- 20.1. Within a **non-extendible period of five (5) calendar days** from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

ITB Clause																																							
5.3	For this purpose, contracts similar to the Project shall be the supply and delivery of similar goods comprising the Project.																																						
7.1	No further instructions.																																						
12	The price of the Goods shall be quoted DDP Tarlac City, Philippines or the applicable International Commercial Terms (INCOTERMS) for this Project.																																						
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: a. The amount of not less than two percent (2 %) of ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than five percent (5 %) of ABC if bid security is in Surety Bond.																																						
19.3	The ABC for the project <table><tr><th>Item No.</th><th>ABC, Php</th></tr><tr><td>1.</td><td>230,000.00</td></tr><tr><td>2.</td><td>6,000.00</td></tr><tr><td>3.</td><td>500.00</td></tr><tr><td>4.</td><td>26,000.00</td></tr><tr><td>5.</td><td>75,000.00</td></tr><tr><td>6.</td><td>127,500.00</td></tr><tr><td>7.</td><td>24,000.00</td></tr><tr><td>8.</td><td>5,000.00</td></tr><tr><td>9.</td><td>2,000.00</td></tr><tr><td>10.</td><td>80,000.00</td></tr><tr><td>11.</td><td>6,000.00</td></tr><tr><td>12.</td><td>48,000.00</td></tr><tr><td>13.</td><td>27,500.00</td></tr><tr><td>14.</td><td>42,500.00</td></tr><tr><td>15.</td><td>3,000.00</td></tr><tr><td>16.</td><td>2,100.00</td></tr><tr><td>17.</td><td>6,000.00</td></tr><tr><td>18.</td><td>5,000.00</td></tr></table>	Item No.	ABC, Php	1.	230,000.00	2.	6,000.00	3.	500.00	4.	26,000.00	5.	75,000.00	6.	127,500.00	7.	24,000.00	8.	5,000.00	9.	2,000.00	10.	80,000.00	11.	6,000.00	12.	48,000.00	13.	27,500.00	14.	42,500.00	15.	3,000.00	16.	2,100.00	17.	6,000.00	18.	5,000.00
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24.	460,000.00
25.	121,384.62
26.	8,800.00
27.	93,288.47
28.	70,000.00
29.	31,250.00
30.	92,000.00
31.	80,000.00
32.	25,000.00
33.	297,600.00
34.	42,000.00
35.	15,000.00
36.	45,000.00
37.	9,000.00
38.	800.00
39.	6,000.00
40.	20,000.00
41.	120,000.00
42.	42,000.00
43.	20,000.00
44.	6,000.00
45.	2,000.00
46.	270,000.00
47.	144,000.00
48.	36,000.00
49.	25,000.00

	50.	49,000.00	
	51.	15,000.00	
	52.	20,000.00	
	53.	18,000.00	
	54.	8,000.00	
	55.	37,500.00	
20.2	No further requirements.		
21.2	No further requirements.		

Section IV. General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

2. Advance Payment and Terms of Payment

- 2.1. Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.
- 2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184

4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC, Section IV. Technical Specifications** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

- 6.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 6.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the

defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

Section V. Special Conditions of Contract

GCC Clause	
1	Delivery and Documents – For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows: The delivery terms applicable to this Contract are delivered to Tarlac State University, Romulo Blvd., San Vicente, Tarlac City. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their destination.” Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI. Schedule of Requirements.
	Packaging – The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods’ final destination and the absence of heavy handling facilities at all points in transit. The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity. The outer packaging must be clearly marked on at least four (4) sides as follows: Name of the Procuring Entity Name of the Supplier Contract Description Final Destination Gross weight Any special lifting instructions Any special handling instructions Any relevant HAZCHEM classifications A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.
	Transportation – Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.

	Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price. Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure. The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.
	Intellectual Property Rights – The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.
4	The inspections and tests that will be conducted are: visual and sensory inspection and test.

Section VI. Schedule of Requirements

The delivery date for the Goods covered by the Contract shall be within Sixty (60) calendar days upon receipt of the Notice to Proceed.

Section VII. Technical Specifications

Item No.	Description
IT Equipment	
1.	BIOMETRICS DEVICE RF Optional : 125kHz EM / 13.56MHz IC Max User(1:N): 10,000 Max Fingerprint (1:N): 3,000 standard / 10,000 Optional Max Record 100,000 TCP/IP : 10/100 M PoE Optional : 802.3 at 28W Wi-Fi : 802.11 B/G/N 3G Optional : WCDMA USB :USB 2.0 (Host) RS232 : 1 port for external printer LCD : 3.0"Color LCD Sound : 24-bit Power DC : 12V 1.5A Certificates : CE, FCC, RoHS Standard : Automatic Status Switch, Self-Service Query, DST, T9 Input, 9 Digit User ID, Scheduled Bell, Photo ID, Lock, sensor, Exit button Warranty : 1 year local supplier warranty)
2.	CABLE, FIBER OPTIC 1 core, 2km length Minimum bending radius : 3.8 cm Tensile Strength : 45 kilograms Reinforcement Material : Reinforced Phosphating Stell Wire Core count : 1 Length : 2 kilometers Color : Black Fiber Type : Outdoor Leather Fiber Optic Cable
3.	CABLE, HDMI Cable (5 Meters) Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60Hz - 1080P 60Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 15 meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braided AWG: 30AWG"
4.	CABLE, HDMI (10 meters) Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60Hz - 1080P 60Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 10 meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braided AWG: 30AWG"
5.	CABLE, HDMI (20 meters) Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60Hz - 1080P 60Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 20 Meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braided AWG: 30AWG
6.	CABLE, UTP CAT 6 Performance Level : Category 6, Cable Construction : U/UTP Flammability Rating : CM EuroClass Rating : Eca Resistance Properties : Flame-Retardant Jacket Material : Polyvinyl Chloride (PVC), Bend Radius (mm) : 24 Number of Pairs : 4, Conductor Material : Copper Conductor Type : Soli, Overall Length (m) : 305 Conductor Gauge (AWG) : 24 Insulation Material : High-Density Polyethylene, Insulation Diameter (mm) : 0.96 Standards Met : Exceeds ISO 11801 Class E and ANSI/TIA-568.2-D Category 6, IEC 61156-5, UL 1685, EN 50575: Euroclass Eca, meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications, RoHS

	Compliant. Color : Grey Product Type : Copper Cable EuroClass Flame Rating : Eca
7.	CAMERA, WEB Features: Simple HD Video Calls, Widescreen HD 720p video calls, Mono-noise reducing mic, Auto-light correction, Firm Mounting Option Max resolutions : 720p/30fps (1280x720 pixels) Camera megapixel: 0.9 Focus type: Fixed focus Lens type: Plastic Built-in Microphone type : Mono Mic range: Up to 1m Diagonal field of view (dFoV): 55° USB connectivity: USB-A plug-and-play Features : Universal mounting clip fits laptops, LCD or monitors Auto-light correction: Yes Warranty : 1 year local supplier warranty
8.	CHARGER, DSLR BATTERY CANON LC-E10C Charger (brand and model specified, it will be used with an existing CANON 1500D Camera) Original/Genuine Manufacturer Product Input Voltage Ac:100-240V Smart Charging Led Indicator Includes Universal 100-240V ac Power Cord Auto Switching Power Voltage From 100V-240V ac Designed to quickly and safely charge digital camera and camcorder battery
9.	CHARGER, NiMH BATTERY Designation: Pro Charger Color: Black Charge Capability: "AA" (2) or (4); "AAA" (2) or (4) Shutoff Mechanism: Delta V Detection; Timer (5 hours) Charging Current: 2 or 4 x AA, 500mA; 2 or 4 x AAA, 220mA Input Rating: Universal Voltage: 100-240vac, 50/60Hz, 7W Charging indication: Sound Indicators - Single Beep/Start - Double/Done; 3 Stage Status Indicators: Red - Charging 0-49%; Amber - Charging (50-99%), Green - Fully Charged Typical Weight: 113.0 grams (3.9 oz.) Dimensions (mm): 116 x 70 x 50 (H x L x W) Volume (cm3): 4060 Plug Type: Folding Rev Polarity Protection: Yes Primary Battery Detection: Yes
10.	COMPUTER MEMORY KIT Features: Optimized For Intel and AMD, Intelligent Control, Unlimited Possibilities, Performance Heritage, Compact Form Factor, One Step Overclocking Memory Type: DDR4 Memory Size : 32GB (2 x 16GB) Tested Latency : 18-22-22-42 Tested Voltage : 1.35 Tested Speed : 3600 Memory Color : BLACK LED Lighting : RGB Single Zone / Multi-Zone Lighting : Dynamic Multi-Zone SPD Latency : 15-15-15-36 SPD Speed : 2133MHz SPD Voltage : 1.2V Speed Rating : PC4-28800 (3600MHz) Compatibility : Intel 500 Series, Intel 600 Series, AMD 500 Series, AMD X570 Heat Spreader : Anodized Aluminum Package Memory Format : DIMM Performance Profile : XMP 2.0 Package Memory Pin : 288 Warranty : Limited Lifetime Warranty
11.	COOLER, LAPTOP Optimal Cooling Design Metal Mesh Contact Surface Silent Performance Multicolor LED Strip USB Connectivity Color: Black Material : Metal Mesh/Plastic/Rubber Fan Dimensions : 160 x 160 x 15mm Fan Speed : 1000±15% RPM Fan Air Flow : 57CFM Fan Noise: 26 dBA Power : USB 5V DC USB : USB 2.0 x 3, Type-C x 1 Compatibility: Supports up to 17" laptop Warranty : 2 years manufacturer warranty
12.	GIGABIT SWITCH - 10 PORT UNMANAGED Interfaces : 8 x 10/100/1000 BASE-T ports, 2 x GE Uplink Standards : IEEE 802.3u, IEEE802.3af/at, IEEE 802.3ab, IEEE 802.3az, IEEE 802.3x, Full-duplex Ethernet data link layers, IEEE 802.3z, Gigabit Ethernet fiber-optic standard Media Interface Exchange : Auto MDI/MDI-X adjustment on all ports Lighting Protection : 6KV Switching Fabric : 20

	Gbps Transmission Method : Adopt Store-and-forward Data Transfer Rates :1000 Mbps, 100 Mbps Packet Filtering / Forwarding Rates : 10M port maximum 14800pps, 100M port maximum 148800pps, 1000M port maximum 1488000pps PoE Standards IEEE 802.3af IEEE 802.3at PoE-Capable Ports : Port 1 - 8 (Port 1 - 8 PoE can support up to 250m @ 10Mbps with Extend enabled) Power Budget : 120W (30 W max. per PoE port)Power LED : Yes Link / Activity LED : Yes Certification : MI/EMC : CE Warranty : 1 year local supplier warranty
13.	GIGABIT SWITCH - 16 PORT UNMANAGED RACKMOUNT Number of Ports : Sixteen (16) 10/100/1000 Gigabit ports Standards : IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T , ANSI/IEEE 802.3 NWay auto-negotiation, IEEE 802.3x Flow Control Data Transfer Rates Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) 100 Mbps (half duplex) / 200 Mbps (full duplex), 2000 Mbps (full duplex Security Storm : Control QoS (Quality of Service) : 802.1p priority, 8 queues Protocol : CSMA/CD Switching Capacity : 32 Gbps MAC Address Learning : Self-learning, auto-aging Forwarding Mode : Store-and-forward DIP Switch : Energy-Efficient Ethernet (EEE), Flow Control, Port Isolation and Storm Control MTBF 1,882,372 hours Warranty : 1 year local supplier warranty
14.	GIGABIT SWITCH - 24 PORT UNMANAGED RACKMOUNT Number of Ports : Twenty-four (24) 10/100/1000 Gigabit ports Standards : IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T , ANSI/IEEE 802.3 NWay auto-negotiation, IEEE 802.3x Flow Control Data Transfer Rates Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) 100 Mbps (half duplex) / 200 Mbps (full duplex), 2000 Mbps (full duplex Security Storm : Control QoS (Quality of Service) : 802.1p priority, 8 queues Protocol : CSMA/CD Switching Capacity : 32 Gbps MAC Address Learning : Self-learning, auto-aging Forwarding Mode : Store-and-forward DIP Switch : Energy-Efficient Ethernet (EEE), Flow Control, Port Isolation and Storm Control MTBF : 863,100 hours Warranty : 1 year local supplier warranty
15.	HUB, USB C Ports: 1 x HDMI Port 1 x PD Port 3 x USB 3.0 Port 1 x TF/SD Reader 1 x 3.5mm Audio Port 1 x Gigabit Ethernet Port Compatible with Apple and Windows Laptop Warranty : 1 year local supplier warranty
16.	HUB, USB-C 6-IN-1 •features a 4K HDMI output, allowing you to connect to high-resolution displays effortlessly. •With SD and TF card readers, transferring files is quick and efficient, boasting a data transfer speed of up to 5 Gbps. • 1 x USB-C, 1 x HDMI 2.0, 2 X USB 3.0, 1 X SD CARD READER, 1 X MICROSD CARD READER Warranty : 1 year local supplier warranty
17.	HUB, USB-C WITH NETWORK PORT Type C Hub with HDMI RJ45 Network Port USB C Multiport Port Hub Thunderbolt 3 Type C Docking Station SD TF Card Reader Slot USB 3.0 Type C to HDMI Adapter HDMI Port supports 4k@30Hz, VGA Port supports 1080P@60Hz. When HDMI and VGA output simultaneously, the resolution is 1080P@60Hz. Multiple shielding structure, Aluminum Foil + Metal Braided + GND, to ensure stable signal transmission. Aluminum shell Efficient good heat dissipation.

18.	KEYBOARD, COMPUTER Features High-Elasticity Silicon FN Multimedia Hot Keys Comfort Roundedge Keycaps Water Splash Resistance Adjustable Keyboard Height Large Enter Key Character : Laser Engraving Report Rate: 125 Hz Plug: USB Warranty : 1 year local supplier warranty
19.	MONITOR, COMPUTER Diagonal Viewing Size : 23.8" Preset Display Area (H x V) : 527.04 mm x 296.46 mm (20.75" x 11.67") Area: 156,246.28 mm² (242.18 inches²) Panel Type : In-Plane Switching (IPS) technology Display Screen Coating : Anti-glare with 3H hardness Maximum Preset Resolution : 1920 x 1080 Refresh rate : 100 Hz Viewing Angle : 178° vertical / 178° horizontal Pixel Pitch : 0.2745 mm x 0.2745 mm Pixel Per Inch (PPI) : 92.53 Contrast Ratio : 1,500: 1 (typical) Aspect Ratio : 16:9 Backlight Technology : LED edgelight system Brightness : 250 cd/m² (typical) Response Time : 5ms gray-to-gray (Fast mode), 8ms gray-to-gray (Normal mode) Color Support : Up to 16.7 million colors Color Gamut : 99% sRGB TÜV Eye Comfort : Yes, 4-Star Flicker Free : Yes Connectivity : 1x HDMI 1.4 (HDCP 1.4) 1x DP 1.2 (HDCP 1.4), 1 x VGA, 1x USB 3.2 Gen1 Type-B upstream, 3x USB 3.2 Gen1 Type-A downstream, 1 x USB 3.2 Gen1 Type-C downstream with up to 15W PD (data only) USB Power Delivery : Yes, up to 15W via USB-C downstream port Adjustability : Height, Tilt, Swivel, Pivot Height : Up to 150 mm (5.9") Tilt : -5°/+21° Swivel : -45°/+45° Pivot : -90°/+90° Compliant Standards ENERGY STAR certified monitor, EPEAT GOLD, EPEAT Climate+, TCO Certified Displays TCO Certified Edge, RoHS-compliant Warranty : 5 years next business day on-site repair / warranty on all labor and parts by the manufacturer's authorized in-country / local technical support on computer monitor.
20.	MOUSE, COMPUTER Features: 4-way Wheel Durable Button Life Dust-Resistant Wheel Plug and Play Type: Wired Resolution 1200 DPI Buttons No: 3 Port: USB Warranty : 1 year local supplier warranty
21.	MEDIA CONVERTER, GIGABIT MULTI-MODE Standards and Protocols : IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x Basic Function : Full Duplex Flow Control (IEEE 802.3x) Extends fiber distance up to 0.5km using 50/125um fiber, Extends fiber distance up to 0.22km using 62.5/125um fiberPorts : 1 x 1000M SC/UPC port, 1 x 1000M RJ45 port (Auto MDI/MDIX) Wave Length : 850nm, Network Media 1000BASE-FX : Multi-mode Fiber, Network Media 1000BASE-SX : Multi-mode Fiber, Network Media 1000BASE-T : UTP category 5, 5e cable (maximum 100m), EIA/TIA-568 100Ω STP (maximum 100m), LED Indicators : PWR, LINK, RX Power Supply External : Power Adapter, Max Power Consumption : 5.5W Safety & Emission : FCC, CE, RoHS, Package Contents : Media Converter MC200CM, Power Adapter, Installation Guide, Warranty : 1 year local supplier warranty

22.	MEDIA CONVERTER, SMART Features : •1x 1000BASE-T RJ-45 port & 1 x 1000BASE-SX/LX LC SFP port •2000 Mbps (full-duplex)• Auto-MDI/MDIX •Can be used as a stand-alone device or installed in a chassis, Number of Ports : 1 x 1000BASE-T RJ-45 port, 1 x 1000BASE-SX/LX SC port Standards: IEEE 802.3ab for 1000BASE-TX, IEEE 802.3z for 1000BASE-SX/LX Data Transfer Rate : 2000 Mbps (full-duplex) Duplex Mode : Full-duplex Media Types : 1000BASE-T: 4-pair Cat. 5, Shielded Twisted Pair (STP) (up to 100 m), 1000BASE-SX/LX: Depends on transceiver Media Exchange Interface : Auto-MDI/MDIX Functionality: Transmission Mode, Store-and-forward Forwarding Rate : Full wire-speed forwarding rate Management : Through the DMC-1000 chassis with the DMC-1002 management module installed Management Functions : LLR, Fiber mode Diagnostic LEDs : Power, LINK/ACT AC Input : 5 V/1 A external power adapter Fiber Wavelength : 1300 nm Supported Fiber Cable Length : Depends on SFP transceiver Emission Certifications (EMI) : FCC Class A, VCCI Class A, CE Class A Warranty : 1 year local supplier warranty
23.	PRINTER, INDUSTRIAL ELECTRONIC LABELLER 16-character Graphical LCD with real print preview -AD-24ES-01 AC Power adapter (included) -6 pcs of AAA batteries -QWERTY keyboard with dedicated numeric keypad -Maximum label length of 300mm -180dpi print resolution -20mm per second fast print speed -Manual cutter -Label design -Dedicated functions for cable wrap, cable flag, face place and sequential numbering -10 font styles, 3 character sizes and 3 character widths -200 symbols including electrical, security, audio/video and safety symbols -Add frames around labels -9 programmable memory -Automatic sequential numbering for fast printing of identification numbers -Print up to 9 copies -TZe tapes: 3.5, 6, 9, 12mm
24.	PRINTER, MONOCHROME MULTI-FUNCTION INKJET Printer Type: Print, Scan, Copy, Fax with ADF Maximum Copies from Standalone:99 copies Reduction / Enlargement:25 – 400 % Auto Fit Function Maximum Copy Resolution:600 x 600 dpi Maximum Copy Size:Legal (ADF) ISO 29183, A4, Simplex (Black):Up to 17 ipm Scanner Type : Flatbed colour image scanner Sensor Type : CIS, Optical Resolution:1200 x 2400 dpi Maximum Scan Area:216 x 297 mm (8.5 x 11.7") Scanner Bit Depth (Colour):48-bit input, 24-bit output Scanner Bit Depth (Grayscale): 16-bit input, 8-bit output Scanner Bit Depth (Black & White):16-bit input, 1-bit output Scan Speed: Flatbed (200dpi): Monochrome: 12sec, Colour: 27secADF (200dpi):Monochrome: 7.0ipm ADF Capacity:64 to 95 g/m2 Paper Capacity:35 sheets of A4 paper, Number of Paper Trays:2, Input Capacity: Cassette 1: 250 Sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope; Rear Slot: 1 Sheet-A4 Plain Paper, Output Capacity: Up to 100 sheets Maximum Paper Size:215.9 x 1200 mm (8.5 x 47.24") Paper Sizes: Paper Sizes:Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm), Envelopes: #10, DL, C6 Paper Feed

	Method:Friction feed Print Margin:3 mm top, left, right, bottom via custom settings in printer driver Interface:USB 2.0 Network:Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct Network Protocol:TCP/IPv4, TCP/ LCD Screen:2.4" LCD Touch Screen PrintheadNozzle Configuration:400 x 2 nozzles Black Print Direction:Bi-directional printing Maximum Print Resolution:1200 x 2400 dpi (with Variable-Sized Droplet Technology)Minimum Ink Droplet Size:2.8 pl Print Speed:Draft Text - Memo, A4 (Black): Up to 39 ppm *1 ISO 24734, A4 (Black): Simplex: Up to 20 ipm, Duplex: 9.0 ipm First Page Out Time (Black): Approx. 6 sec (simplex) / 13 sec (duplex), Automatic 2-sided Printing:Yes With Additional 2 pieces of Maintenance Box Warranty : 4 years warranty 50,000 prints, whichever comes first. On-site repair by an authorized technician by the manufacturer.
25.	PRINTER, MULTI-FUNCTION COLORED INK TANK Printer Type: Print, Scan, Copy with ADF Nozzle Configuration: 400 x 1 nozzles Black, 128 x 1 per Colour (Cyan, Magenta, Yellow) Maximum Resolution: 4800 x 1200 dpi Automatic 2-sided Printing: Yes (Up to A4) Print Speed: Photo Default - 10 x 15 cm / 4 x 6 ": Approx. 69 sec per photo / 92 sec per photo Draft, A4 (Black / Colour): Up to 33.0 ppm / 20.0 ppm First Page Out Time from Ready Mode (Black / Colour): Approx. 9 sec / 15 sec Maximum Copy Size: Legal Copy Resolution: 600 x 600 dpi Scanner Type: Flatbed colour image scanner Sensor Type: CIS Optical Resolution: 1200 x 2400 dpi Maximum Scan Area: 216 x 297 mm (8.5 x 11.7 ") Scan Speed: Flatbed (Black / Colour): 200dpi: 12 sec / 27 sec Number of Paper Trays: 1 Maximum Paper Size: 215.9 x 1200 mm (8.5 x 47.24 ") Paper Size: Legal (8.5 x 14"), 8.5 x 13", Letter, A4, B5, A5, A6, Hagaki (100 x 148 mm), 16K (195 x 270 mm), Indian-Legal (215 x 345 mm), B6, 5 x 7", 4 x 6", Envelopes #10, DL, C6 Interface: USB 2.0, Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct With Additional 2 pieces of Maintenance Box Warranty : 2 years warranty or 50,000 prints, whichever comes first repair or replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers
26.	PRINTER, PORTABLE LABEL Width: 6, 9, 12, 18, 24 mm Tape Type: LK Tape Cartridges Printing: Cutter Type: Automatic Full Cut Printing Technology: Thermal Transfer Printing Resolution: 180 dpi / 128 dot Text Data: Printable Lines: PC / App Dependent Memory: Files (Built-in Memory): PC / App Dependent Print Setting: Repeat Printing: Up to 99 (App) / 999 (PC) Character Settings: Font Sizes: 6 (App) / PC Dependent Vertical Printing: Yes Mirror Printing: Yes Barcode Printing: Yes Wire Wrap: Yes Flag Style (Double-sided): Yes Double-sided Tab: Yes*Image Printing: Yes Interface: USB, Bluetooth Operating System: iOS, Android (Mobile), Windows, Mac OS (PC) Battery: 6AAA AC Adapter: Bundled Warranty : at least 1 year warranty
27.	PRINTER, SINGLE FUNCTION Print Speed Black Normal: Up to 20 ppm First Page Out Black: As fast as 8.3 seC, Resolution: Black (best): Up to 1200 x 1200 dpi; Black (normal): Up to 600 x 600 dp Control Panel : Buttons (Power, Cancel); LED indicator lights (Power, Toner, Attention) Duty Cycle (Monthly, A4) Up to 10,000 pages Print Technology: Laser Processor Speed: 400 MHz Connectivity, standard: Hi-Speed USB 2.0 port Paper handling input, standard 150-sheet input tray, 10-sheet priority tray Paper handling output, standard 100-sheet output tray Warranty: 4 Years Next Business Day Exchange Service

28.	PRINTER, WIDE DOT MATRIX Printing Technology: Control Panel: 6 switches and 10 LEDs Print Direction: Bi-direction with logic seeking Printing Method: Impact dot matrix Number of Pins in Head: 9 pins Control Code: ESC/P2, IBM PPDS Printhead Life: 200 million strokes/wire Mean Print Volume Between Failure (MVBF): 30 million lines (except print head) Mean Time Between Failure (MTBF): 15,000 Power On Hours (POH) (25% Duty) Bitmap Fonts Draft: 10, 12, 15 cpi Roman / Epson Sans Serif: 10, 12, 15 cpi, Proportional Scalable Fonts: Roman / Sans Serif Barcode: EAN-13, EAN-8, Interleaved 2 of 5, UPC-A, UPC-E, Code 39, Code 128, POSTNET Paper Media: Cut Sheet (Single Sheet): Entry: Front Length: 100 - 420 mm, Width: 100 - 420 mm, Thickness: 0.12 - 0.39 mm Entry: Rear Length: 100 - 420 mm, Width: 100 - 420 mm, Thickness: 0.12 - 0.39 mm Continuous Paper (Single Sheet / Multi-part): Entry: Front / Rear / Bottom : Length: 101.6 - 558.8 mm, Width: 101.6 - 406.4 mm, Thickness: 0.065 - 0.39 mm Copies: Original + 4 copies Envelope (No.6): Entry: Rear: Length: 92 mm, Width: 165 mm, Thickness: 0.16 - 0.52 mm Envelope (No.10): Entry: Rear : Length: 105 mm, Width: 241 mm, Thickness: 0.16 - 0.52 mm Label (Base Sheet): Entry: Bottom : Length: 101.6 - 558.8 mm, Width: 101.6 - 406.4 mm, Thickness: 0.16 - 0.19 mm Card: Entry: Front / Rear : Length: 100 - 148 mm, Width: 100 - 148 mm, Thickness: 0.22 mm Roll Paper: : Entry: Rear Diameter: 127mm, Width: 216 mm, Thickness: 0.07 - 0.09 mm Line Spacing: 4.23mm (1/6") or programmable in increments of 0.059mm (1/432") Input Data Buffer: 128KB Pitch: 10cpi: 136 cpl Interface: USB 2.0, Bi-directional parallel (IEEE-1284 nibble mode supported) Warranty : 1 year manufacturer's warranty or Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers
29.	PRINTER, WIDE FORMAT ALL-IN-ONE Functions / Multitasking supported : Print, copy, scan, fax / Yes Print resolution : Black (best): Up to 1200 x 1200 rendered dpi; ; Color (best): Up to 4800 by 1200 Print technology : Thermal Inkjet, Optical Thermal Inkjet Print cartridges number : 4 (1 each black, cyan, magenta, yellow) Borderless printing : Yes (up to A3/11 x 17-in) Color scanning : Yes Scan type / Technology : Flatbed, ADF / Contact Image Sensor (CIS) Scan resolution : Hardware: Up to 1200 x 1200 dpi; Optical: Up to 1200 dpi Scan Size : ADF: Two-sided (Duplex): 8.27 x 11.69 in; One-sided: 8.5 x 14 in Maximum; Flatbed: 11.69 x 17 in Copy speed : Black (ISO): Up to 18 cpm;; Color (ISO): Up to 13 cpm;; Black (draft): Up to 33 cpm;; Color (draft): Up to 31 cpm Copy resolution : Black (text and graphics): Up to 600 dpi; Up to 600 dpi; Color (text and graphics): Up to 600dpi Warranty : 4 Year Care Pack Business Priority Support with Onsite Exchange

30.	PROJECTOR W/ PRESENTER BUNDLE & TRIPOD WHITESCREEN Projection Technology: RGB liquid crystal shutter projection system (3LCD) , White Light Output (Normal/Eco): 4,000 lm, Colour Light Output: 4,000 lm, USB Interface: USB Type A: 1 USB Type B: 1 , Analog Input: Composite: 1 RCA, D-Sub 15pin: 1 Digital Input: HDMI: 1 Audio Input: 2RCA (White & Red): 1, Contrast Ratio: 16,000:1, Standard Size: Tele: 33" to 320" [1.10 to 10.89 m] , Wide: 33" to 320" [0.91 to 9.07 m], Vertical/Horizontal Keystone: $\pm 30^\circ$ / $\pm 30^\circ$ (Auto Vertical Keystone only), Quick Corner: Yes, Air Filter: High Efficiency Filter Features, Projectors Facets: Wifi, Quick Corner, Resolution, Projectors Facets: WXGA, Contrast Ratio, Projectors Facets: 16,000:1, Brightness Range Lumens, Projectors Facets: 2000, Wireless LAN Security Infrastructure: OPEN, WPA2/WPA3-PSK LCD: Size: 0.59", Native Resolution: WXGA (1280 x 800), Aspect Ratio: 16:10, Type: Optical Zoom (Manual) / Focus (Manual), Zoom Ratio: 1 – 1.2, Focal Length: 16.90 – 20.28 mm Throw Ratio: 1.30 – 1.56 (Wide to Tele), F-Number: 1.49 – 1.72. Warranty: 1 local supplier warranty Presenter Laser Class : Class 2 Laser Max Output : Less than 1mW Wireless technology 2.4 GHz wireless technology Battery type 2 AAA batteries Dimensions (+/- 10%) H x W x D: 37.8 mm x 115.5 mm x 27.4 mm Warranty: 3 years local supplier warranty PROJECTOR WHITESCREEN • Ultra bright screen surface without bellows • Wrinkle free • Thicker surface for lifetime usage • Surface doesn't change color in time • Worry-free mechanism • Strong supports stand for windproof performance Dimensions: H x W: 70" x 70" Fabric: Matte White Warranty: 1 year warranty
31.	ROUTER, WIRELESS WiFi Speeds : BE3600 • 5 GHz: 2882 Mbps (802.11be) • 2.4 GHz: 688 Mbps (802.11be) WiFi Range : 3 Bedroom Houses, 4× External Antennas, Beamforming, Dual-Band, 2×2 MU-MIMO, OFDMA, Airtime Fairness, DFS Advanced Features : Multi-Link Operation (MLO), 4K-QAM, Multi-Rus, EasyMesh-Compatible, Works with Alexa and Google Assistant, IoT Network Wireless Mode : Router Mode, Access Point Mode Network Security : • SPI Firewall • Access Control • IP & MAC Binding • Application Layer Gateway, Real-Time IoT Protection, Malicious Site Blocker, Intrusion Prevention System DDoS Attack Prevention, Home Network Scanner VPN Server • OpenVPN Server • PPTP VPN Server • L2TP VPN Server VPN Client • Open VPN Client • PPTP VPN Client • L2TP VPN Client • WiFi Encryption : • WPA • WPA2 • WPA3 • WPA/WPA2-Enterprise (802.1x) Ethernet Ports • 1× 2.5 Gbps WAN • 1× 2.5 Gbps LAN • 3× 1 Gbps LAN USB Support 1× USB 3.0 • Supported Partition Formats: NTFS, exFAT, HFS+, FAT32 • Supported Functions: FTP Server, Media Server, Samba Server Protocol • IPv4 • IPv6 WAN Type : • Dynamic IP • Static IP • PPPoE • PPTP • L2TP Quality of Service : QoS by Device NAT Forwarding : • Port Forwarding • Port Triggering • DMZ • UPnP DHCP • Address Reservation • DHCP Client List • Server Certifications : CE, FCC, RoHS Warranty : 1 year local supplier warranty

32.	SCANNER, BARCODE Single-board construction; Scratch-resistant tempered glass exit window; Accurate first-time capture of 1D bar codes; Wide working range; Multiple on-board interfaces; Plug-and-play,;with universal cable Hands-free Intellistand; Advanced Data Formatting (ADF); Dimensions: (+/- 10%) (H x W x D): 6 in. x 2.5 in. x 3.34 in.; Color: Twilight Black
33.	SCANNER, HIGH SPEED Scanner Type : A4 sheet-fed, one-pass duplex colour scanner Sensor Type Contact Image Sensor (CIS) x 2 Scanning Method Fixed carriage and moving document Optical Resolution 600 x 600 dpi Output Resolution 50 - 1,200 dpi (in 1 dpi increments) Scanner Bit Depth (Colour) 48-bit input, 24-bit output Max. Document Size 215.9 x 3,048 mm Scan Speed Resolution "200dpi: 26 ppm / 52 ipm (Monochrome, Colour) 300dpi: 26 ppm / 52 ipm (Monochrome, Colour) 600dpi: 21 ppm / 42 ipm (Monochrome), 7.0 ppm / 14 ipm (Colour)" ADF Capacity 50 sheets (80g/m2) Daily Duty Cycle up to 3,000 sheets / day Interface USB 2.0 Warranty : 1 year warranty
34.	SCANNER, WIRELESS BARCODE Maximum Scan Distance : 368mm Maximum Scan Rate : 110,000 per second 2400mAh Li-Ion battery Auto-host detect cable Deploy in every corner of the world Direct decode indicator, good decode LEDs, beeper (adjustable tone/volume) indicators Durable construction Flexible handheld or hands-free operation Input voltage range is from 4.5VDC to 5.5VDC Nova white, twilight black colour Operating temperature ranges between 0°C and 70°C Point-and-shoot scanning simplicity Standard Bluetooth version 4.0 with BLE Supported host interfaces are keyboard wedge, RS232, RS485, TGCS, USB, Wizard-Driven Truly plug-and-play Unsurpassed scanning range Warranty : 1 year local supplier warranty
35.	SC-LC FIBER PATCH Fiber Type: Single Mode Connector Type: Hybrid Size: 2.0mm Mode: Singlemode Duplex : Yes Length : 3 meters 9/125 µm Type: SC-LC OD:2.0MM UPC
36.	SOLDERING IRON AND HOT AIR Separate switches allow simultaneous operation. Long lifetime heater. Password lock function facilitates the temperature parameters control. Temperature adjustment by button, auto sleep/ OFF function available. Digital temperature calibration, easy operation. Compatible with various types of soldering iron tips and nozzles. Built-in suction pen in the hot air handle, easy to use. Brushless vortex fan, stepless and wide range of air volume, suitable for various applications. An automatic cooling system can prolong the lifetime of heating element and protect the hot air handle. Built-in vacuum pump, powerful suction, no external of external vacuum system. Precise temperature controlled by closed-loop sensor. Light soldering iron handle, easy to use.
37.	STORAGE, EXTERNAL HARD DISK DRIVE 5TB Product Features Slim Style, built-in 256-bit AES hardware encryption with password protection, comes with backup software; Capacity: 5TB Connector: Micro-B Interface: UBS 3.2 Gen 1, USB 3.0, USB 2.0 Transfer Rate: up to 5Gb/s Warranty: 3 years manufacturer warranty
38.	STORAGE, FLASH DRIVE 8GB Feature, Ultimate portability, Quick and Convenient Capacity: 8GB Speed: USB 3.2 Gen 1 compliant Warranty: 1 year local supplier warranty

39.	STORAGE, FLASH DRIVE 32GB Feature, Ultimate portability, Quick and Convenient Capacity: 32GB Speed: USB 3.2 Gen 1 compliant Warranty: 1 year local supplier warranty
40.	STORAGE, NAS HARD DISK DRIVE 4TB Formatted capacity: 4 TB, Recording technology: CMR, Interface: SATA 6 Gb/s, Form factor: 3.5-inch, Drive technology: Air, Native command queuing: Yes, Advanced Format (AF): Yes, RoHS compliant: Yes Performance Internal transfer rate: up to 180 MB/s, Cache: 256 MB, RPM: 5,400 Reliability / Data Integrity : Load/unload cycles: 600,000, Non-recoverable errors per bits read: < 1 in 10¹⁴, MTBF: 1,000,000 hours, Workload rate: 180 TB/year Warranty: 3 years local supplier warranty
41.	STORAGE, NETWORK ATTACHED STORAGE CPU : Intel Celeron J4025 2-core 2.0 GHz, burst up to 2.9 GHz Hardware Encryption Engine : Yes System Memory : 2 GB DDR4 Drive Bays : 2 Compatible Drive Type : 2 x 3.5" SATA HDD, 2.5" SATA SSD Hot Swappable Drive : Yes RJ-45 1GbE LAN Port : 2 USB 3.0 Port : 2 Internal Drives : Btrfs, EXT4 External Drives : Btrfs, EXT4, EXT3, FAT, NTFS, HFS+, exFAT Warranty : 2 years local supplier warranty NAS Hard Disk Capacity : 4TB Form Factor : 3.5" inch Rotational speed (RPM) : 5,400 RPM Interface : SATA 6Gb/s Warranty : 2 Years Local Supplier Warranty, Hard Disk Capacity : 8TB (2 x 4TB)
42.	STORAGE, PORTABLE EXTERNAL SSD 1TB Interface : Compatible with USB 3.2 Gen2 (10 Gbps), backwards compatible Capacity: 1TB Transfer Speed : Up to 1,050 MB/s Sequential writes : Up to 1,000 MB/s UASP Mode : Supported Encryption : AES 256-bit hardware encryption Certification : CE, BSMI, KC, VCCI, C-tick, FCC, IC, UL, TUV, CB, EAC Thermal Control : Yes Warranty : 3 years manufacturer warranty
43.	STORAGE, PORTABLE EXTERNAL SSD 4TB Features: Rugged Durability Keep cool at high speed Mighty Tough Compatible with your devices Durable Yet Stylish Capacity : 4TB Sequential Read Up to 1,050 MB/Sec Sequential Write Up to 1,000 MB/Sec Water/Dust Resistant : IP 65 Drop Resistant : Up to 3m Encyprtion : AES 256-bit hardware encryption Software : Yes. Compatible software Relaibilt: Humidity : 5% to 95% non-condensing Shock, Non-operating : 1,500G, duration: 0.5ms, 3 axis Vibration, Non-operating : 20~2,000Hz, 20G Certifications : CE, BSMI, KC, VCCI, C-tick, FCC, IC, UL, TUV, CB, EAC, UKCA, BIS RoHS Compliance : RoHS 2 Warranty: 3 years local supplier warranty
44.	STORAGE, SD CARD 128GB Form Factor : SDXC Capacity : 128GB Performance : Up to 200MB/s read speeds, Write speed up to 90MB/s Rated UHS Speed Class : Class 3 (U3) Video Speed Class : V30 Bus Type : UHS- Durability: Shockproof, Temperature Extremes, Waterproof, X-Ray Proof Security : Built-in write-protect switch prevents accidental data loss Warranty : 5 years local supplier warranty
45.	STORAGE, SD CARD 256GB Form Factor : SDXC Capacity : 256GB Performance : Up to 200MB/s read speeds, Write speed up to 140MB/s Rated UHS Speed Class : Class 3 (U3) Video Speed Class : V30 Bus Type : UHS-I Durability: Shockproof, Temperature Extremes, Waterproof, X-Ray Proof

	Security : Built-in write-protect switch prevents accidental data loss Warranty : 5 years local supplier warranty
46.	SWITCH, STACKABLE SMART MANAGED SWITCH WITH 10G UPLINKS SWITCH WITH SFP MODULES Port Standards & Functions : IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, 802.3ae 10 GbE, IEEE 802.3x Flow Control for Full-Duplex Mode, Auto-negotiation Number of Ports : 16 x 10/100/1000 Mbps, 2 x Gigabit SFP, 2 x 10G SFP+ Network Cables : UTP Cat. 5, Cat. 5e (100 m max.) EIA/TIA-568 100-ohm STP (100 m max.) Full/Half Duplex : Full/half-duplex for 10/100 Mbps and full-duplex for 1000 Mbps speed Media Interface Exchange : Auto or configurable MDI/MDIX Switching Capacity : 76Gbps Transmission Method : Store-and-forward Maximum 64 bytes Packet Forwarding Rate : 56.54 Mpps Diagnostic LEDs : Power/Stacking ID/Fan (per device), Link/Activity/Speed (per 10/100/1000 Mbps port), Link/Activity/Speed (per Gigabit SFP port), Link/Activity/Speed (per 10G SFP+ port) With included 2 units of 10G SFP modules, same brand with the switch to ensure compatibility. With included 2 units of 1G SFP modules, same brand with the switch to ensure compatibility. Warranty : 1 year local supplier warranty
47.	TABLET, COMPUTER Features: CPU Speed 2Ghz, 1.8Ghz CPU Type : Octa-Core Display : 10.4 inches Technology (Main Display) : TFT Color Depth (Main Display) : 16M Video Recording Resolution : FHD (1920 x 1080) @ 30fps Memory (GB) : 3 Storage (GB) : 64 External Storage Support : MicroSD (Up to 1TB) USB Version : USB 2.0 Location Technology : GPS, Glonass, Beidou, Galileo Earjack : 3.5mm Stereo Wi-Fi: 802.11 a / b / g / n / ac 2.4G+ 5GHz, VHT80 Wi-Fi Direct : Yes Bluetooth Version : Bluetooth v5.1 Bluetooth Profiles : A2DP, AVRCP, DI, HID, HOGP, OPP, PAN OS : Android Sensors : Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor Warranty : warranty care plan for two years. Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers
48.	TABLET, COMPUTER 7 INCH Processor : 2.0Ghz MediaTek MT8166 Operating System : Android 11 (Go Edition) Display : 7" SD (1024 x 600) IPS, 350 nits, TDDI LCD display, 5-point touchscreen Memory : 2 GB LPDDR4 Battery : Up to 10 hours (Web browsing time and Video Playback Time Storage : 32 GB eMMC Audio : Dolby Atmos Camera : Rear: 2MP auto-focus, Front: 2MP fixed-focus Connectivity : WiFi 5 802.11AC Bluetooth : 5.0 Ports/Slots : Headphone / mic combo, Micro-USB 2.0 Inclusions : Tablet, AC Charger, Quick Start Guide Warranty: 3 years manufacturer's warranty or Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers
49.	TABLET, COMPUTER FOR MOBILE APP DEVELOPMENT Features: CPU Speed : 2.4 GHz, 2 GHz CPU Type : Octa-Core Display : 10.9 inches Technology (Main Display) : TFT Color Depth (Main Display) : 16M Video Recording Resolution : UHD 4K (3840 x 2160) @ 30fps Memory (GB) : 6 Storage (GB) : 128 External Storage Support : MicroSD (Up to 1TB) USB Version : USB 2.0 Location Technology : GPS, Glonass, Beidou, Galileo, QZSS Wi-Fi: 802.11 a / b / g / n / ac / ax 2.4G+ 5GHz,

	HE80, MIMO, 1024-QAM Wi-Fi Direct : Yes Bluetooth Version : Bluetooth v5.3 Bluetooth Profiles : A2DP, AVRCP, DI, HID, HOGP, OPP, PAN OS : Android Sensors : Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor Warranty : warranty care plan for two years. Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers
50.	TABLET, COMPUTER FOR MOBILE APP DEVELOPMENT Capacity :256GB Display : 10.9-inch (diagonal) LED-backlit Multi-Touch display with IPS technology 2360-by-1640-pixel resolution at 264 pixels per inch (ppi) Chip : Bionic Chip, 6core CPU, 4-core graphics, 16-core Neural Engine Camera : 12MP Wide camera $f/1.8$ aperture Digital zoom up to 5x Five-element lens Front Camera : 12MP Ultra Wide camera, 122° field of view, $f/2.4$ aperture, Smart HDR 3, 1080p HD video recording at 25 fps, 30 fps, or 60 fps Microphones : Dual Microphones Wireless : Wi-Fi 6 (802.11ax) with 2x2 MIMO; speeds up to 1.2 Gbps, Simultaneous dual band, Bluetooth 5.2 Sensors : Touch ID, Three-axis gyro, Accelerometer, Barometer, Ambient light sensor Battery : Built-in 28.6-watt-hour rechargeable lithium polymer battery Inclusions : Tablet, Lightning to USB-C Cable, 20W USB-C Power Adapter Warranty : warranty care plan for one year. Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers
51.	TABLET, DRAWING Features: More Than $\frac{3}{4}$ Of Tablet Width Is Active Area 133 Electromagnetic Interactions Per Second Between Pen And Tablet Without Requiring A Battery (Pen Speed) 8.8 Mm Thin Tablet Pen Pressure Sensitivity : 4096 Battery-Free Pen Using EMR (Electro-Magnetic Resonance) Technology Bluetooth Connectivity : 4.2 Digital Tolerance : ± 0.25 Mm Accuracy Reading Height : 7mm Pen Switches: 2 Customizable Expresskeys : 4 Active Area : 10 Inches (Medium) Tablet Density : 100 Lines Per Mm Recognition Of Pen On Tablet Inclusions : Pen tablet medium with Bluetooth, Pressure-sensitive, battery-free Pen 4K, PVC-free USB cable with cable tidy and L-shaped connector, 3 extra standard nibs (located inside pen), Nib removal tool on end of pen, Quick start guide, Regulation sheet, Online User Guide Warranty : 3 Years Extended Protection Plan
52.	TABLET, WIRELESS DRAWING Pressure Sensitivity : 8,192 levels Active Area : 10 inches x 5.63 inches Resolution : 5,080 LPI Report Rate : Max. 266 RPS Shortcut Keys : 6 Customizable Shortcut Keys Roller Wheel: 1 Power Voltage : 5V Interface Support : USB Certifications : C-TICK/FCC/CE/EAC/NOM/WEEE/KC/RoHS/BIS Inclusions : 1 x Drawing Tablet, 1 x Stylus, 1 x Pen Holder, 1 x Drawing Glove, 8 x Replacement Pen Nibs, 1 x USB Cable, 1 x Green Stopper, 1 x Quick Guide Warranty : 1 year local supplier warranty
53.	TRANSCEIVER, SFP Transceiver Type : SFP Fiber Media Support : Single-Mode Speed : 1.25 Gbps Distance : 10 km Compliant Standard : IEEE802.3ah 1000BASE-BX-D Connector : Simplex LC connector Single/ Bi Direction : Bi-direction Wavelength : Tx: 1550 nm, Rx: 1310 nm Cable Type : Single-mode 9/125

	um fiber Power Supply : 3.3 VHot Pluggable : Yes MSA Compliant : Yes RoHS Compliant: Yes
54.	UNINTERRUPTED POWER SUPPLY Rated power in W: 650 W, Rated power in VA : 1200 VA , Input Connection Type : IEC 60320 C14 Output connection : 4 x universal, 1 x IEC 60320 C13 , Battery type: Lead-acid battery Mounting support Floor, Network frequency 50/60 Hz +/- 5 Hz auto-sensing Input voltage limits 140 to 300 V 230 V AC, Output frequency 50/60 Hz +/- 1 Hz sync to mains UPS type Line interactive , Wave type: Stepped approximation to a sinewave IP degree of protection: IP20, Battery voltage: 12 V, Battery capacity 9.0 Ah, Battery life 2 to 3 year(s), Surge energy rate 273: J , Mercury free: Yes Warranty: 2 years Local Supplier Warranty
55.	VOICE RECORDER Specifications: Battery Type : Built-In Lithium Battery Built-In Memory : 4 GB Built-In Microphone : Yes Calendar Search : Yes LCD Backlight : Yes Maximum Files Per Folder : 199 Maximum Files (Total) : 5,000 Files (Including Number Of Folder) PC Connectivity : Yes Playback Format LPCM/MP3/AAC/WMA Recording Format : Linear PCM/MP3 USB Connection Charging : Yes Scene Select : Yes Sync Recording Function: Yes Recording Monitor : Yes FM Radio Recording: Yes VOR : Yes A-B Repeat : Yes Digital Pitch Control (Speed Control) : Yes Divide : Yes Easy Search : Yes Erase : Yes File Copy :Yes Folder Name Change (Without Using PC) : Yes Graphic Equalizer : Yes Move File : Yes Noise Cut :Yes (Clear Voice) Protect :Yes Track Mark : Yes Features - Reduce background noise with Auto Voice Recording - Get a better sound with Auto Music Recording - Capture distant or quiet sounds with S-Microphone - Get to the point with Time Jump - Wider, brighter recording LED - Turn it up with Playback Normalization - See clearly with a larger OLED Display - USB direct connection for quick file transfer MicroSD card: Form Factor : microSDXC Capacity : 64GB Bus Speed Mode : UHS-I SDR104 Speed Class : Class 10, V10 Speed Grade : Grade 1 (U1) Transfer Speed : Up to 130MB/s Durability : 10,000 mating cycles Proof Features : Water-proof, Temperature-proof, X-ray-proof, Magnetic-proof, Drop-proof, Wearout-proof Features : Fast and Smooth, Expand and Store big, Fully protected Warranty : 1 year warranty" - Get a better sound with Auto Music Recording - Capture distant or quiet sounds with S-Microphone - Get to the point with Time Jump - Wider, brighter recording LED - Turn it up with Playback Normalization - See clearly with a larger OLED Display - USB direct connection for quick file transfer MicroSD card: Form Factor : microSDXC Capacity : 64GB Bus Speed Mode : UHS-I SDR104 Speed Class : Class 10, V10 Speed Grade : Grade 1 (U1) Transfer Speed : Up to 130MB/s Durability : 10,000 mating cycles Proof Features : Water-proof, Temperature-proof, X-ray-proof, Magnetic-proof, Drop-proof, Wearout-proof Features : Fast and Smooth, Expand and Store big, Fully protected Warranty : 1 year warranty"

Section VIII. Bid Documents Checklist

This Bid Documents Checklist is provided to guide the Bidder in preparing his/her bid. The checklist may be used by the Bidder to verify if the Bid includes all the prescribed documents.

The Bidder, in submitting the required documents, must use the prescribed forms found in Section X. Bidding Forms. However, should a bidder choose to use a different formatting style for a required document, the bidder must ensure that the substance in the form given in Section X for that particular document is substantially captured in the equivalent document.

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

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

Technical Documents

- ☐ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and
- ☐ (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; and
- ☐ (d) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission or Original copy of Notarized Bid Securing Declaration; and
- ☐ (e) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; and
- ☐ (f) Original duly signed Omnibus Sworn Statement (OSS) and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- ☐ (g) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

Class "B" Documents

- ☐ (h) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence or duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

- ☐ (i) Original of duly signed and accomplished Financial Bid Form; and
- ☐ (j) Original of duly signed and accomplished Price Schedule(s).

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[*Bidder's Letterhead*]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

List of All Ongoing Government and Private Contracts, Including Contracts Awarded But Not Yet Started

Row 1: Name of Contract Row 2: Location of Project Row 3: Contract Price	Row 1: Procuring Entity Row 2: Contact Person/Address Row 3: Telephone No.	Description of Goods	Row 1: Date of Award Row 2: Date Started Row 3: Contract Duration	Value of Outstanding Goods

Attached herewith are the following documents: Notice of Award, Notice to Proceed, and Official Receipts/Invoices, as evidences in support of the foregoing information.

I/We certify that the foregoing information and all of the supporting documents are true and correct.

[Signature]
[Name of Bidder or Authorized Representative]
[Position or Title]

[Bidder's Letterhead]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

Statement of Single Largest Completed Contract Similar to the Contract to be Bid

Row 1: Name of Contract Row 2: Location	Contract Price	Row 1: Procuring Entity Row 2: Address Row 3: Contact Person/Tel. No.	Description of Goods	Date of Award	Date Completed

Attached herewith are the following documents: Contract Agreement, Notice of Award, Notice to Proceed, Official Receipt/Invoice, Certificate of Final Inspection, and Certificate of Acceptance, as evidences in support of the foregoing information.

I/We certify that the foregoing information and all of the supporting documents are true and correct.

[Signature]
[Name of Bidder or Authorized Representative]
[Position or Title]

BID SECURING DECLARATION

REPUBLIC OF THE PHILIPPINES)

CITY OF _____) S.S.

Project Invitation to Bid No.: [Insert number]

To: Tarlac State University

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [month] [year] at [place of execution].

*[Insert NAME OF BIDDER OR ITS
AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant*

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

[Bidder’s Letterhead]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

Compliance to the Technical Specifications

Item No.	Description	Bidder’s Compliance State “Comply” below if your offer is complying with the specifications, otherwise state “We are offering the same goods with the following specifications [State the complete specifications of the alternative offer]”
IT Equipment		
1.	BIOMETRICS DEVICE RF Optional : 125kHz EM / 13.56MHz IC Max User(1:N): 10,000 Max Fingerprint (1:N): 3,000 standard / 10,000 Optional Max Record 100,000 TCP/IP : 10/100 M PoE Optional : 802.3 at 28W Wi-Fi : 802.11 B/G/N 3G Optional : WCDMA USB :USB 2.0 (Host) RS232 : 1 port for external printer LCD : 3.0”Color LCD Sound : 24-bit Power DC : 12V 1.5A Certificates : CE, FCC, RoHS Standard : Automatic Status Switch, Self-Service Query, DST, T9 Input, 9 Digit User ID, Scheduled Bell, Photo ID, Lock, sensor, Exit button Warranty : 1 year local supplier warranty)	
2.	CABLE, FIBER OPTIC 1 core, 2km length Minimum bending radius : 3.8 cm Tensile Strength : 45 kilograms Reinforcement Material : Reinforced Phosphating Stell Wire Core count : 1 Length : 2 kilometers Color : Black Fiber Type : Outdoor Leather Fiber Optic Cable	
3.	CABLE, HDMI Cable (5 Meters) Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60Hz - 1080P 60Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 15 meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braied AWG: 30AWG"	
4.	CABLE, HDMI (10 meters) Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60Hz - 1080P 60Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 10 meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braied AWG: 30AWG"	
5.	CABLE, HDMI (20 meters) Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60Hz - 1080P 60Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 20 Meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braied AWG: 30AWG"	
6.	CABLE, UTP CAT 6 Performance Level : Category 6, Cable Construction : U/UTP	

	Flammability Rating : CM EuroClass Rating : Eca Resistance Properties : Flame-Retardant Jacket Material : Polyvinyl Chloride (PVC), Bend Radius (mm) : 24 Number of Pairs : 4, Conductor Material : Copper Conductor Type : Soli, Overall Length (m) : 305 Conductor Gauge (AWG) : 24 Insulation Material : High-Density Polyethylene, Insulation Diameter (mm) : 0.96 Standards Met : Exceeds ISO 11801 Class E and ANSI/TIA-568.2-D Category 6, IEC 61156-5, UL 1685, EN 50575: Euroclass Eca, meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications, RoHS Compliant. Color : Grey Product Type : Copper Cable EuroClass Flame Rating : Eca	
7.	CAMERA, WEB Features: Simple HD Video Calls, Widescreen HD 720p video calls, Mono-noise reducing mic, Auto-light correction, Firm Mounting Option Max resolutions : 720p/30fps (1280x720 pixels) Camera megapixel: 0.9 Focus type: Fixed focus Lens type: Plastic Built-in Microphone type : Mono Mic range: Up to 1m Diagonal field of view (dFoV): 55° USB connectivity: USB-A plug-and- play Features : Universal mounting clip fits laptops, LCD or monitors Auto-light correction: Yes Warranty : 1 year local supplier warranty	
8.	CHARGER, DSLR BATTERY CANON LC-E10C Charger (brand and model specified, it will be used with an existing CANON 1500D Camera) Original/Genuine Manufacturer Product Input Voltage Ac:100-240V Smart Charging Led Indicator Includes Universal 100-240V ac Power Cord Auto Switching Power Voltage From 100V-240V ac Designed to quickly and safely charge digital camera and camcorder battery	
9.	CHARGER, NiMH BATTERY Designation: Pro Charger Color: Black Charge Capability: "AA" (2) or (4); "AAA" (2) or (4) Shutoff Mechanism: Delta V Detection; Timer (5 hours) Charging Current: 2 or 4 x AA, 500mA; 2 or 4 x AAA, 220mA Input Rating: Universal Voltage: 100- 240vac, 50/60Hz, 7W Charging indication: Sound Indicators - Single Beep/Start - Double/Done; 3 Stage Status Indicators: Red - Charging 0-49%; Amber - Charging (50-99%), Green - Fully Charged Typical Weight: 113.0 grams (3.9 oz.) Dimensions (mm): 116 x 70 x 50 (H x L x W) Volume (cm3): 4060 Plug Type: Folding Rev Polarity Protection: Yes Primary Battery Detection: Yes	
10.	COMPUTER MEMORY KIT Features: Optimized For Intel and AMD, Intelligent Control, Unlimited Possibilities, Performance Heritage, Compact Form Factor, One Step Overclocking Memory Type: DDR4 Memory Size : 32GB (2 x 16GB) Tested Latency : 18-22-22-42 Tested Voltage : 1.35 Tested Speed : 3600 Memory Color : BLACK LED Lighting : RGB Single Zone / Multi-Zone Lighting : Dynamic Multi-Zone SPD Latency : 15-15-15-36 SPD Speed : 2133MHz SPD Voltage : 1.2V Speed Rating : PC4-28800 (3600MHz) Compatibility : Intel 500 Series, Intel 600 Series, AMD 500 Series, AMD X570 Heat Spreader : Anodized Aluminum Package Memory Format : DIMM Performance Profile : XMP 2.0 Package Memory Pin : 288 Warranty : Limited Lifetime Warranty	
11.	COOLER, LAPTOP Optimal Cooling Design Metal Mesh Contact Surface Silent Performance Multicolor LED Strip USB	

	Connectivity Color: Black Material : Metal Mesh/Plastic/Rubber Fan Dimensions : 160 x 160 x 15mm Fan Speed : 1000±15% RPM Fan Air Flow : 57CFM Fan Noise: 26 dBA Power : USB 5V DC USB : USB 2.0 x 3, Type-C x 1 Compatibility: Supports up to 17" laptop Warranty : 2 years manufacturer warranty	
12.	GIGABIT SWITCH - 10 PORT UNMANAGED Interfaces : 8 x 10/100/1000 BASE-T ports, 2 x GE Uplink Standards : IEEE 802.3u, IEEE802.3af/at, IEEE 802.3ab, IEEE 802.3az, IEEE 802.3x, Full-duplex Ethernet data link layers, IEEE 802.3z, Gigabit Ethernet fiber-optic standard Media Interface Exchange : Auto MDI/MDI-Xadjustment on all ports Lighting Protection : 6KV Switching Fabric : 20 Gbps Transmission Method : Adopt Store-and-forward Data Transfer Rates :1000 Mbps, 100 Mbps Packet Filtering / Forwarding Rates : 10M port maximum 14800pps, 100M port maximum 148800pps, 1000M port maximum 1488000pps PoE Standards IEEE 802.3af IEEE 802.3at PoE-Capable Ports : Port 1 - 8 (Port 1 - 8 PoE can support up to 250m @ 10Mbps with Extend enabled) Power Budget : 120W (30 W max. per PoE port)Power LED : Yes Link / Activity LED : Yes Certification : MI/EMC : CE Warranty : 1 year local supplier warranty	
13.	GIGABIT SWITCH - 16 PORT UNMANAGED RACKMOUNT Number of Ports : Sixteen (16) 10/100/1000 Gigabit ports Standards : IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T , ANSI/IEEE 802.3 NWay auto- negotiation, IEEE 802.3x Flow Control Data Transfer Rates Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) 100 Mbps (half duplex) / 200 Mbps (full duplex), 2000 Mbps (full duplex Security Storm : Control QoS (Quality of Service) : 802.1p priority, 8 queues Protocol : CSMA/CD Switching Capacity : 32 Gbps MAC Address Learning : Self-learning, auto-aging Forwarding Mode : Store-and-forward DIP Switch : Energy- Efficient Ethernet (EEE), Flow Control, Port Isolation and Storm Control MTBF 1,882,372 hours Warranty : 1 year local supplier warranty	
14.	GIGABIT SWITCH - 24 PORT UNMANAGED RACKMOUNT Number of Ports : Twenty-four (24) 10/100/1000 Gigabit ports Standards : IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T , ANSI/IEEE 802.3 NWay auto- negotiation, IEEE 802.3x Flow Control Data Transfer Rates Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) 100 Mbps (half duplex) / 200 Mbps (full duplex), 2000 Mbps (full duplex Security Storm : Control QoS (Quality of Service) : 802.1p priority, 8 queues Protocol : CSMA/CD Switching Capacity : 32 Gbps MAC Address Learning : Self-learning, auto-aging Forwarding Mode : Store-and-forward DIP Switch : Energy- Efficient Ethernet (EEE), Flow Control, Port Isolation and Storm Control MTBF : 863,100 hours Warranty : 1 year local supplier warranty	
15.	HUB, USB C Ports: 1 x HDMI Port 1 x PD Port 3 x USB 3.0 Port 1 x TF/SD Reader 1 x 3.5mm Audio Port 1 x Gigabit Ethernet Port	

	Compatible with Apple and Windows Laptop Warranty : 1 year local supplier warranty	
16.	HUB, USB-C 6-IN-1 •features a 4K HDMI output, allowing you to connect to high-resolution displays effortlessly. •With SD and TF card readers, transferring files is quick and efficient, boasting a data transfer speed of up to 5 Gbps. • 1 x USB-C, 1 x HDMI 2.0, 2 X USB 3.0, 1 X SD CARD READER, 1 X MICROSD CARD READER Warranty : 1 year local supplier warranty	
17.	HUB, USB-C WITH NETWORK PORT Type C Hub with HDMI RJ45 Network Port USB C Multiport Port Hub Thunderbolt 3 Type C Docking Station SD TF Card Reader Slot USB 3.0 Type C to HDMI Adapter HDMI Port supports 4k@30Hz, VGA Port supports 1080P@60Hz. When HDMI and VGA output simultaneously, the resolution is 1080P@60Hz. Multiple shielding structure, Aluminum Foil + Metal Braided + GND, to ensure stable signal transmission. Aluminum shell Efficient good heat dissipation.	
18.	KEYBOARD, COMPUTER Features High-Elasticity Silicon FN Multimedia Hot Keys Comfort Roundedge Keycaps Water Splash Resistance Adjustable Keyboard Height Large Enter Key Character : Laser Engraving Report Rate: 125 Hz Plug: USB Warranty : 1 year local supplier warranty	
19.	MONITOR, COMPUTER Diagonal Viewing Size : 23.8" Preset Display Area (H x V) : 527.04 mm x 296.46 mm (20.75" x 11.67") Area: 156,246.28 mm2 (242.18 inches2) Panel Type : In-Plane Switching (IPS) technology Display Screen Coating : Anti-glare with 3H hardness Maximum Preset Resolution : 1920 x 1080 Refresh rate : 100 Hz Viewing Angle : 178° vertical / 178° horizontal Pixel Pitch : 0.2745 mm x 0.2745 mm Pixel Per Inch (PPI) : 92.53 Contrast Ratio : 1,500: 1 (typical) Aspect Ratio : 16:9 Backlight Technology : LED edgelight system Brightness : 250 cd/m2 (typical) Response Time : 5ms gray-to-gray (Fast mode), 8ms gray-to-gray (Normal mode) Color Support : Up to 16.7 million colors Color Gamut : 99% sRGB TÜV Eye Comfort : Yes, 4-Star Flicker Free : Yes Connectivity : 1x HDMI 1.4 (HDCP 1.4) 1x DP 1.2 (HDCP 1.4), 1 x VGA, 1x USB 3.2 Gen1 Type-B upstream, 3x USB 3.2 Gen1 Type-A downstream, 1 x USB 3.2 Gen1 Type-C downstream with up to 15W PD (data only) USB Power Delivery : Yes, up to 15W via USB-C downstream port Adjustability : Height, Tilt, Swivel, Pivot Height : Up to 150 mm (5.9") Tilt : -5°/+21° Swivel : -45°/+45° Pivot : -90°/+90° Compliant Standards ENERGY STAR certified monitor, EPEAT GOLD, EPEAT Climate+, TCO Certified Displays TCO Certified Edge, RoHS-compliant Warranty : 5 years next business day on-site repair / warranty on all labor and parts by the manufacturer's authorized in-country / local technical support on computer monitor.	
20.	MOUSE, COMPUTER Features: 4-way Wheel Durable Button Life Dust-Resistant Wheel Plug and Play	

	Type: Wired Resolution 1200 DPI Buttons No: 3 Port: USB Warranty : 1 year local supplier warranty	
21.	MEDIA CONVERTER, GIGABIT MULTI-MODE Standards and Protocols : IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x Basic Function : Full Duplex Flow Control (IEEE 802.3x) Extends fiber distance up to 0.5km using 50/125um fiber, Extends fiber distance up to 0.22km using 62.5/125um fiber Ports : 1 x 1000M SC/UPC port, 1 x 1000M RJ45 port (Auto MDI/MDIX) Wave Length : 850nm, Network Media 1000BASE-FX : Multi-mode Fiber, Network Media 1000BASE-SX : Multi-mode Fiber, Network Media 1000BASE-T : UTP category 5, 5e cable (maximum 100m), EIA/TIA-568 100Ω STP (maximum 100m), LED Indicators : PWR, LINK, RX Power Supply External : Power Adapter, Max Power Consumption : 5.5W Safety & Emission : FCC, CE, RoHS, Package Contents : Media Converter MC200CM, Power Adapter, Installation Guide, Warranty : 1 year local supplier warranty	
22.	MEDIA CONVERTER, SMART Features : •1x 1000BASE-T RJ-45 port & 1 x 1000BASE-SX/LX LC SFP port •2000 Mbps (full-duplex)• Auto-MDI/MDIX •Can be used as a stand-alone device or installed in a chassis, Number of Ports : 1 x 1000BASE-T RJ-45 port, 1 x 1000BASE-SX/LX SC port Standards: IEEE 802.3ab for 1000BASE-TX, IEEE 802.3z for 1000BASE-SX/LX Data Transfer Rate : 2000 Mbps (full-duplex) Duplex Mode : Full-duplex Media Types : 1000BASE-T: 4-pair Cat. 5, Shielded Twisted Pair (STP) (up to 100 m), 1000BASE-SX/LX: Depends on transceiver Media Exchange Interface : Auto-MDI/MDIX Functionality: Transmission Mode, Store-and-forward Forwarding Rate : Full wire-speed forwarding rate Management : Through the DMC-1000 chassis with the DMC-1002 management module installed Management Functions : LLR, Fiber mode Diagnostic LEDs : Power, LINK/ACT AC Input : 5 V/1 A external power adapter Fiber Wavelength : 1300 nm Supported Fiber Cable Length : Depends on SFP transceiver Emission Certifications (EMI) : FCC Class A, VCCI Class A, CE Class A Warranty : 1 year local supplier warranty	
23.	PRINTER, INDUSTRIAL ELECTRONIC LABELLER 16-character Graphical LCD with real print preview -AD-24ES-01 AC Power adapter (included) -6 pcs of AAA batteries -QWERTY keyboard with dedicated numeric keypad -Maximum label length of 300mm -180dpi print resolution -20mm per second fast print speed -Manual cutter -	

	Label design -Dedicated functions for cable wrap, cable flag, face place and sequential numbering -10 font styles, 3 character sizes and 3 character widths -200 symbols including electrical, security, audio/video and safety symbols -Add frames around labels -9 programmable memory -Automatic sequential numbering for fast printing of identification numbers -Print up to 9 copies -TZe tapes: 3.5, 6, 9, 12mm	
24.	PRINTER, MONOCHROME MULTI-FUNCTION INKJET Printer Type: Print, Scan, Copy, Fax with ADF Maximum Copies from Standalone:99 copies Reduction / Enlargement:25 – 400 % Auto Fit Function Maximum Copy Resolution:600 x 600 dpi Maximum Copy Size:Legal (ADF) ISO 29183, A4, Simplex (Black):Up to 17 ipm Scanner Type : Flatbed colour image scanner Sensor Type : CIS, Optical Resolution:1200 x 2400 dpi Maximum Scan Area:216 x 297 mm (8.5 x 11.7") Scanner Bit Depth (Colour):48-bit input, 24-bit output Scanner Bit Depth (Grayscale): 16-bit input, 8-bit output Scanner Bit Depth (Black & White):16-bit input, 1-bit output Scan Speed: Flatbed (200dpi): Monochrome: 12sec, Colour: 27secADF (200dpi):Monochrome: 7.0ipm ADF Capacity:64 to 95 g/m2 Paper Capacity:35 sheets of A4 paper, Number of Paper Trays:2, Input Capacity: Cassette 1: 250 Sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope; Rear Slot: 1 Sheet-A4 Plain Paper, Output Capacity: Up to 100 sheets Maximum Paper Size:215.9 x 1200 mm (8.5 x 47.24") Paper Sizes: Paper Sizes:Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm), Envelopes: #10, DL, C6 Paper Feed Method:Friction feed Print Margin:3 mm top, left, right, bottom via custom settings in printer driver Interface:USB 2.0 Network:Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct Network Protocol:TCP/IPv4, TCP/LCD Screen:2.4" LCD Touch Screen PrintheadNozzle Configuration:400 x 2 nozzles Black Print Direction:Bi-directional printing Maximum Print Resolution:1200 x 2400 dpi (with Variable-Sized Droplet Technology)Minimum Ink Droplet Size:2.8 pl Print Speed:Draft Text - Memo, A4 (Black): Up to 39 ppm *1 ISO 24734, A4 (Black): Simplex: Up to 20 ipm, Duplex: 9.0 ipm First Page Out Time (Black): Approx. 6 sec (simplex) / 13 sec (duplex), Automatic 2-sided Printing:Yes With Additional 2 pieces of Maintenance Box Warranty : 4 years warranty 50,000 prints, whichever comes first. On-site repair by an authorized technician by the manufacturer.	
25.	PRINTER, MULTI-FUNCTION COLORED INK TANK Printer Type: Print, Scan, Copy with ADF Nozzle Configuration: 400 x 1 nozzles Black, 128 x 1 per Colour (Cyan, Magenta, Yellow) Maximum Resolution: 4800 x 1200 dpi Automatic 2-sided Printing: Yes (Up to A4) Print Speed: Photo Default - 10 x 15 cm / 4 x 6 ": Approx. 69 sec per photo / 92 sec per photo Draft, A4 (Black / Colour): Up to 33.0 ppm / 20.0 ppm First Page Out Time from Ready Mode (Black / Colour): Approx. 9 sec / 15 sec Maximum Copy Size: Legal Copy Resolution: 600 x 600 dpi Scanner Type: Flatbed colour image scanner Sensor Type: CIS Optical Resolution: 1200 x 2400 dpi Maximum Scan Area: 216 x 297 mm (8.5 x 11.7 ") Scan Speed: Flatbed (Black / Colour):	

	200dpi: 12 sec / 27 sec Number of Paper Trays: 1 Maximum Paper Size: 215.9 x 1200 mm (8.5 x 47.24 ") Paper Size: Legal (8.5 x 14"), 8.5 x 13", Letter, A4, B5, A5, A6, Hagaki (100 x 148 mm), 16K (195 x 270 mm), Indian-Legal (215 x 345 mm), B6, 5 x 7", 4 x 6", Envelopes #10, DL, C6 Interface: USB 2.0, Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct With Additional 2 pieces of Maintenance Box Warranty : 2 years warranty or 50,000 prints, whichever comes first repair or replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers	
26.	PRINTER, PORTABLE LABEL Width: 6, 9, 12, 18, 24 mm Tape Type: LK Tape Cartridges Printing: Cutter Type: Automatic Full Cut Printing Technology: Thermal Transfer Printing Resolution: 180 dpi / 128 dot Text Data: Printable Lines: PC / App Dependent Memory: Files (Built-in Memory): PC / App Dependent Print Setting: Repeat Printing: Up to 99 (App) / 999 (PC) Character Settings: Font Sizes: 6 (App) / PC Dependent Vertical Printing: Yes Mirror Printing: Yes Barcode Printing: Yes Wire Wrap: Yes Flag Style (Double-sided): Yes Double-sided Tab: Yes*Image Printing: Yes Interface: USB, Bluetooth Operating System: iOS, Android (Mobile), Windows, Mac OS (PC) Battery: 6AAA AC Adapter: Bundled Warranty : at least 1 year warranty	
27.	PRINTER, SINGLE FUNCTION Print Speed Black Normal: Up to 20 ppm First Page Out Black: As fast as 8.3 seC, Resolution: Black (best): Up to 1200 x 1200 dpi; Black (normal): Up to 600 x 600 dp Control Panel : Buttons (Power, Cancel); LED indicator lights (Power, Toner, Attention) Duty Cycle (Monthly, A4) Up to 10,000 pages Print Technology: Laser Processor Speed: 400 MHz Connectivity, standard: Hi- Speed USB 2.0 port Paper handling input, standard 150-sheet input tray, 10-sheet priority tray Paper handling output, standard 100- sheet output tray Warranty: 4 Years Next Business Day Exchange Service	
28.	PRINTER, WIDE DOT MATRIX Printing Technology: Control Panel: 6 switches and 10 LEDs Print Direction: Bi-direction with logic seeking Printing Method: Impact dot matrix Number of Pins in Head: 9 pins Control Code: ESC/P2, IBM PPDS Printhead Life: 200 million strokes/wire Mean Print Volume Between Failure (MVBF): 30 million lines (except print head) Mean Time Between Failure (MTBF): 15,000 Power On Hours (POH) (25% Duty) Bitmap Fonts Draft: 10, 12, 15 cpi Roman / Epson Sans Serif: 10, 12, 15 cpi, Proportional Scalable Fonts: Roman / Sans Serif Barcode: EAN-13, EAN-8, Interleaved 2 of 5, UPC-A, UPC-E, Code 39, Code 128, POSTNET Paper Media: Cut Sheet (Single Sheet): Entry: Front Length: 100 - 420 mm, Width: 100 - 420 mm, Thickness: 0.12 - 0.39 mm Entry: Rear Length: 100 - 420 mm, Width: 100 - 420 mm, Thickness: 0.12 - 0.39 mm Continuous Paper (Single Sheet / Multi-part): Entry: Front / Rear / Bottom : Length: 101.6 - 558.8 mm, Width: 101.6 - 406.4 mm, Thickness: 0.065 - 0.39 mm Copies: Original + 4 copies Envelope (No.6): Entry: Rear: Length: 92 mm, Width: 165 mm, Thickness: 0.16 - 0.52 mm Envelope (No.10): Entry: Rear : Length: 105 mm, Width: 241 mm, Thickness: 0.16 - 0.52 mm	

	Label (Base Sheet): Entry: Bottom : Length: 101.6 - 558.8 mm, Width: 101.6 - 406.4 mm, Thickness: 0.16 - 0.19 mm Card: Entry: Front / Rear : Length: 100 - 148 mm, Width: 100 - 148 mm, Thickness: 0.22 mm Roll Paper: : Entry: Rear Diameter: 127mm, Width: 216 mm, Thickness: 0.07 - 0.09 mm Line Spacing: 4.23mm (1/6") or programmable in increments of 0.059mm (1/432") Input Data Buffer:128KB Pitch: 10cpi: 136 cpl Interface: USB 2.0, Bi-directional parallel (IEEE-1284 nibble mode supported) Warranty : 1 year manufacturer's warranty or Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers	
29.	PRINTER, WIDE FORMAT ALL-IN-ONE Functions / Multitasking supported : Print, copy, scan, fax / Yes Print resolution : Black (best): Up to 1200 x 1200 rendered dpi; ; Color (best): Up to 4800 by 1200 Print technology : Thermal Inkjet, Optical Thermal Inkjet Print cartridges number : 4 (1 each black, cyan, magenta, yellow) Borderless printing : Yes (up to A3/11 x 17-in) Color scanning : Yes Scan type / Technology : Flatbed, ADF / Contact Image Sensor (CIS) Scan resolution : Hardware: Up to 1200 x 1200 dpi; Optical: Up to 1200 dpi Scan Size : ADF: Two-sided (Duplex): 8.27 x 11.69 in; One-sided: 8.5 x 14 in Maximum; Flatbed: 11.69 x 17 in Copy speed : Black (ISO): Up to 18 cpm;; Color (ISO): Up to 13 cpm;; Black (draft): Up to 33 cpm;; Color (draft): Up to 31 cpm Copy resolution : Black (text and graphics): Up to 600 dpi; Up to 600 dpi; Color (text and graphics): Up to 600dpi Warranty : 4 Year Care Pack Business Priority Support with Onsite Exchange	
30.	PROJECTOR W/ PRESENTER BUNDLE & TRIPOD WHITESCREEN Projection Technology: RGB liquid crystal shutter projection system (3LCD) , White Light Output (Normal/Eco): 4,000 lm, Colour Light Output: 4,000 lm, USB Interface: USB Type A: 1 USB Type B: 1 , Analog Input: Composite: 1 RCA, D-Sub 15pin: 1 Digital Input: HDMI: 1 Audio Input: 2RCA (White & Red): 1, Contrast Ratio: 16,000:1, Standard Size: Tele: 33" to 320" [1.10 to 10.89 m] , Wide: 33" to 320" [0.91 to 9.07 m], Vertical/Horizontal Keystone: $\pm 30^\circ$ / $\pm 30^\circ$ (Auto Vertical Keystone only), Quick Corner: Yes, Air Filter: High Efficiency Filter Features, Projectors Facets: Wifi, Quick Corner, Resolution, Projectors Facets: WXGA, Contrast Ratio, Projectors Facets: 16,000:1, Brightness Range Lumens, Projectors Facets: 2000, Wireless LAN Security Infrastructure: OPEN, WPA2/WPA3-PSK LCD: Size: 0.59", Native Resolution: WXGA (1280 x 800), Aspect Ratio: 16:10, Type: Optical Zoom (Manual) / Focus (Manual), Zoom Ratio: 1 – 1.2, Focal Length: 16.90 – 20.28 mm Throw Ratio: 1.30 – 1.56 (Wide to Tele), F-Number: 1.49 – 1.72. Warranty: 1 local supplier warranty Presenter Laser Class : Class 2 Laser Max Output : Less than 1mW Wireless technology 2.4	

	GHz wireless technology Battery type 2 AAA batteries Dimensions (+/- 10%) H x W x D: 37.8 mm x 115.5 mm x 27.4 mm Warranty: 3 years local supplier warranty PROJECTOR WHITESCREEN • Ultra bright screen surface without bellows • Wrinkle free • Thicker surface for lifetime usage • Surface doesn't change color in time • Worry-free mechanism • Strong supports stand for windproof performance Dimensions: H x W: 70" x 70" Fabric: Matte White Warranty: 1 year warranty	
31.	ROUTER, WIRELESS WiFi Speeds : BE3600 • 5 GHz: 2882 Mbps (802.11be) • 2.4 GHz: 688 Mbps (802.11be) WiFi Range : 3 Bedroom Houses, 4× External Antennas, Beamforming, Dual-Band, 2×2 MU-MIMO, OFDMA, Airtime Fairness, DFS Advanced Features : Multi-Link Operation (MLO), 4K-QAM, Multi-Rus, EasyMesh-Compatible, Works with Alexa and Google Assistant, IoT Network Wireless Mode : Router Mode, Access Point Mode Network Security : • SPI Firewall • Access Control • IP & MAC Binding • Application Layer Gateway, Real-Time IoT Protection, Malicious Site Blocker, Intrusion Prevention System DDoS Attack Prevention, Home Network Scanner VPN Server • OpenVPN Server • PPTP VPN Server • L2TP VPN Server VPN Client • Open VPN Client • PPTP VPN Client • L2TP VPN Client • WiFi Encryption : • WPA • WPA2 • WPA3 • WPA/WPA2- Enterprise (802.1x) Ethernet Ports • 1× 2.5 Gbps WAN • 1× 2.5 Gbps LAN • 3× 1 Gbps LAN USB Support 1× USB 3.0 • Supported Partition Formats: NTFS, exFAT, HFS+, FAT32 • Supported Functions: FTP Server, Media Server, Samba Server Protocol • IPv4 • IPv6 WAN Type : • Dynamic IP • Static IP • PPPoE • PPTP • L2TP Quality of Service : QoS by Device NAT Forwarding : • Port Forwarding • Port Triggering • DMZ • UPnP DHCP • Address Reservation • DHCP Client List • Server Certifications : CE, FCC, RoHS Warranty : 1 year local supplier warranty	
32.	SCANNER, BARCODE Single-board construction; Scratch-resistant tempered glass exit window; Accurate first-time capture of 1D bar codes; Wide working range; Multiple on-board interfaces; Plug-and-play,;with universal cable Hands-free Intellistand; Advanced Data Formatting (ADF); Dimensions: (+/- 10%) (H x W x D): 6 in. x 2.5 in. x 3.34 in.; Color: Twilight Black	
33.	SCANNER, HIGH SPEED Scanner Type : A4 sheet-fed, one-pass duplex colour scanner Sensor Type Contact Image Sensor (CIS) x 2 Scanning Method Fixed carriage and moving document Optical Resolution 600 x 600 dpi Output Resolution 50 - 1,200 dpi (in 1 dpi increments) Scanner Bit Depth (Colour) 48-bit input, 24-bit output Max. Document Size	

	215.9 x 3,048 mm Scan Speed Resolution "200dpi: 26 ppm / 52 ipm (Monochrome, Colour) 300dpi: 26 ppm / 52 ipm (Monochrome, Colour) 600dpi: 21 ppm / 42 ipm (Monochrome), 7.0 ppm / 14 ipm (Colour)" ADF Capacity 50 sheets (80g/m2) Daily Duty Cycle up to 3,000 sheets / day Interface USB 2.0 Warranty : 1 year warranty	
34.	SCANNER, WIRELESS BARCODE Maximum Scan Distance : 368mm Maximum Scan Rate : 110,000 per second 2400mAh Li-Ion battery Auto-host detect cable Deploy in every corner of the world Direct decode indicator, good decode LEDs, beeper (adjustable tone/volume) indicators Durable construction Flexible handheld or hands-free operation Input voltage range is from 4.5VDC to 5.5VDC Nova white, twilight black colour Operating temperature ranges between 0°C and 70°C Point-and-shoot scanning simplicity Standard Bluetooth version 4.0 with BLE Supported host interfaces are keyboard wedge, RS232, RS485, TGCS, USB, Wizard-Driven Truly plug-and-play Unsurpassed scanning range Warranty : 1 year local supplier warranty	
35.	SC-LC FIBER PATCH Fiber Type: Single Mode Connector Type: Hybrid Size: 2.0mm Mode: Singlemode Duplex : Yes Length : 3 meters 9/125 µm Type: SC-LC OD:2.0MM UPC	
36.	SOLDERING IRON AND HOT AIR Separate switches allow simultaneous operation. Long lifetime heater. Password lock function facilitates the temperature parameters control. Temperature adjustment by button, auto sleep/OFF function available. Digital temperature calibration, easy operation. Compatible with various types of soldering iron tips and nozzles. Built-in suction pen in the hot air handle, easy to use. Brushless vortex fan, stepless and wide range of air volume, suitable for various applications. An automatic cooling system can prolong the lifetime of heating element and protect the hot air handle. Built-in vacuum pump, powerful suction, no external of external vacuum system. Precise temperature controlled by closed-loop sensor. Light soldering iron handle, easy to use.	
37.	STORAGE, EXTERNAL HARD DISK DRIVE 5TB Product Features Slim Style, built-in 256-bit AES hardware encryption with password protection, comes with backup software; Capacity: 5TB Connector: Micro-B Interface: UBS 3.2 Gen 1, USB 3.0, USB 2.0 Transfer Rate: up to 5Gb/s Warranty: 3 years manufacturer warranty	
38.	STORAGE, FLASH DRIVE 8GB Feature, Ultimate portability, Quick and Convenient Capacity: 8GB Speed: USB 3.2 Gen 1 compliant Warranty: 1 year local supplier warranty	
39.	STORAGE, FLASH DRIVE 32GB Feature, Ultimate portability, Quick and Convenient Capacity: 32GB Speed: USB 3.2 Gen 1 compliant Warranty: 1 year local supplier warranty	
40.	STORAGE, NAS HARD DISK DRIVE 4TB Formatted capacity: 4 TB, Recording technology: CMR, Interface: SATA 6 Gb/s, Form factor: 3.5-inch, Drive technology: Air,	

	Native command queuing: Yes, Advanced Format (AF): Yes, RoHS compliant: Yes Performance Internal transfer rate: up to 180 MB/s, Cache: 256 MB, RPM: 5,400 Reliability / Data Integrity : Load/unload cycles: 600,000, Non-recoverable errors per bits read: < 1 in 10¹⁴, MTBF: 1,000,000 hours, Workload rate: 180 TB/year Warranty: 3 years local supplier warranty	
41.	STORAGE, NETWORK ATTACHED STORAGE CPU : Intel Celeron J4025 2-core 2.0 GHz, burst up to 2.9 GHz Hardware Encryption Engine : Yes System Memory : 2 GB DDR4 Drive Bays : 2 Compatible Drive Type : 2 x 3.5" SATA HDD, 2.5" SATA SSD Hot Swappable Drive : Yes RJ-45 1GbE LAN Port : 2 USB 3.0 Port : 2 Internal Drives : Btrfs, EXT4 External Drives : Btrfs, EXT4, EXT3, FAT, NTFS, HFS+, exFAT Warranty : 2 years local supplier warranty NAS Hard Disk Capacity : 4TB Form Factor : 3.5" inch Rotational speed (RPM) : 5,400 RPM Interface : SATA 6Gb/s Warranty : 2 Years Local Supplier Warranty, Hard Disk Capacity : 8TB (2 x 4TB)	
42.	STORAGE, PORTABLE EXTERNAL SSD 1TB Interface : Compatible with USB 3.2 Gen2 (10 Gbps), backwards compatible Capacity: 1TB Transfer Speed : Up to 1,050 MB/s Sequential writes : Up to 1,000 MB/s UASP Mode : Supported Encryption : AES 256-bit hardware encryption Certification : CE, BSMI, KC, VCCI, C-tick, FCC, IC, UL, TUV, CB, EAC Thermal Control : Yes Warranty : 3 years manufacturer warranty	
43.	STORAGE, PORTABLE EXTERNAL SSD 4TB Features: Rugged Durability Keep cool at high speed Mighty Tough Compatible with your devices Durable Yet Stylish Capacity : 4TB Sequential Read Up to 1,050 MB/Sec Sequential Write Up to 1,000 MB/Sec Water/Dust Resistant : IP 65 Drop Resistant : Up to 3m Encryption : AES 256-bit hardware encryption Software : Yes. Compatible software Reliability: Humidity : 5% to 95% non-condensing Shock, Non-operating : 1,500G, duration: 0.5ms, 3 axis Vibration, Non-operating : 20~2,000Hz, 20G Certifications : CE, BSMI, KC, VCCI, C-tick, FCC, IC, UL, TUV, CB, EAC, UKCA, BIS RoHS Compliance : RoHS 2 Warranty: 3 years local supplier warranty	
44.	STORAGE, SD CARD 128GB Form Factor : SDXC Capacity : 128GB Performance : Up to 200MB/s read speeds, Write speed up to 90MB/s Rated UHS Speed Class : Class 3 (U3) Video Speed Class : V30 Bus Type : UHS- Durability: Shockproof, Temperature Extremes, Waterproof, X-Ray Proof Security : Built-in write-protect switch prevents accidental data loss Warranty : 5 years local supplier warranty	
45.	STORAGE, SD CARD 256GB Form Factor : SDXC Capacity : 256GB Performance : Up to 200MB/s read speeds, Write speed up to 140MB/s Rated UHS Speed Class : Class 3 (U3) Video Speed Class : V30 Bus Type : UHS-I Durability: Shockproof, Temperature Extremes, Waterproof, X-Ray Proof Security : Built-in write-protect switch prevents accidental data loss Warranty : 5 years local supplier warranty	

46.	SWITCH, STACKABLE SMART MANAGED SWITCH WITH 10G UPLINKS SWITCH WITH SFP MODULES Port Standards & Functions : IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, 802.3ae 10 GbE, IEEE 802.3x Flow Control for Full-Duplex Mode, Auto-negotiation Number of Ports : 16 x 10/100/1000 Mbps, 2 x Gigabit SFP, 2 x 10G SFP+ Network Cables : UTP Cat. 5, Cat. 5e (100 m max.) EIA/TIA-568 100-ohm STP (100 m max.) Full/Half Duplex : Full/half-duplex for 10/100 Mbps and full-duplex for 1000 Mbps speed Media Interface Exchange : Auto or configurable MDI/MDIX Switching Capacity : 76Gbps Transmission Method : Store-and-forward Maximum 64 bytes Packet Forwarding Rate : 56.54 Mpps Diagnostic LEDs : Power/Stacking ID/Fan (per device), Link/Activity/Speed (per 10/100/1000 Mbps port), Link/ Activity/Speed (per Gigabit SFP port), Link/Activity/Speed (per 10G SFP+ port) With included 2 units of 10G SFP modules, same brand with the switch to ensure compatibility. With included 2 units of 1G SFP modules, same brand with the switch to ensure compatibility. Warranty : 1 year local supplier warranty	
47.	TABLET, COMPUTER Features: CPU Speed 2Ghz, 1.8Ghz CPU Type : Octa-Core Display : 10.4 inches Technology (Main Display) : TFT Color Depth (Main Display) : 16M Video Recording Resolution : FHD (1920 x 1080) @ 30fps Memory (GB) : 3 Storage (GB) : 64 External Storage Support : MicroSD (Up to 1TB) USB Version : USB 2.0 Location Technology : GPS, Glonass, Beidou, Galileo Earjack : 3.5mm Stereo Wi-Fi: 802.11 a / b / g / n / ac 2.4G+ 5GHz, VHT80 Wi-Fi Direct : Yes Bluetooth Version : Bluetooth v5.1 Bluetooth Profiles : A2DP, AVRCP, DI, HID, HOGP, OPP, PAN OS : Android Sensors : Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor Warranty : warranty care plan for two years. Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers	
48.	TABLET, COMPUTER 7 INCH Processor : 2.0Ghz MediaTek MT8166 Operating System : Android 11 (Go Edition) Display : 7" SD (1024 x 600) IPS, 350 nits, TDDI LCD display, 5-point touchscreen Memory : 2 GB LPDDR4 Battery : Up to 10 hours (Web browsing time and Video Playback Time Storage : 32 GB eMMC Audio : Dolby Atmos Camera : Rear: 2MP auto-focus, Front: 2MP fixed-focus Connectivity : WiFi 5 802.11AC Bluetooth : 5.0 Ports/Slots : Headphone / mic combo, Micro-USB 2.0 Inclusions : Tablet, AC Charger, Quick Start Guide Warranty: 3 years manufacturer's warranty or Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers	
49.	TABLET, COMPUTER FOR MOBILE APP DEVELOPMENT Features: CPU Speed : 2.4 GHz, 2 GHz CPU Type : Octa-Core Display : 10.9 inches Technology (Main Display) : TFT Color Depth (Main Display) : 16M Video Recording Resolution : UHD 4K (3840 x 2160) @ 30fps Memory (GB) : 6 Storage (GB) : 128 External Storage Support : MicroSD (Up to 1TB) USB Version :	

	USB 2.0 Location Technology : GPS, Glonass, Beidou, Galileo, QZSS Wi-Fi: 802.11 a / b / g / n / ac / ax 2.4G+ 5GHz, HE80, MIMO, 1024-QAM Wi-Fi Direct : Yes Bluetooth Version : Bluetooth v5.3 Bluetooth Profiles : A2DP, AVRCP, DI, HID, HOGP, OPP, PAN OS : Android Sensors : Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor Warranty : warranty care plan for two years. Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers	
50.	TABLET, COMPUTER FOR MOBILE APP DEVELOPMENT Capacity :256GB Display : 10.9-inch (diagonal) LED-backlit Multi-Touch display with IPS technology 2360-by-1640-pixel resolution at 264 pixels per inch (ppi) Chip : Bionic Chip, 6core CPU, 4-core graphics, 16-core Neural Engine Camera : 12MP Wide camera f/1.8 aperture Digital zoom up to 5x Five-element lens Front Camera : 12MP Ultra Wide camera, 122° field of view, f/2.4 aperture, Smart HDR 3, 1080p HD video recording at 25 fps, 30 fps, or 60 fps Microphones : Dual Microphones Wireless : Wi-Fi 6 (802.11ax) with 2x2 MIMO; speeds up to 1.2 Gbps, Simultaneous dual band, Bluetooth 5.2 Sensors : Touch ID, Three-axis gyro, Accelerometer, Barometer, Ambient light sensor Battery : Built-in 28.6-watt-hour rechargeable lithium polymer battery Inclusions : Tablet, Lightning to USB-C Cable, 20W USB-C Power Adapter Warranty : warranty care plan for one year. Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers	
51.	TABLET, DRAWING Features: More Than $\frac{3}{4}$ Of Tablet Width Is Active Area 133 Electromagnetic Interactions Per Second Between Pen And Tablet Without Requiring A Battery (Pen Speed) 8.8 Mm Thin Tablet Pen Pressure Sensitivity : 4096 Battery-Free Pen Using EMR (Electro-Magnetic Resonance) Technology Bluetooth Connectivity : 4.2 Digital Tolerance : +/- 0.25 Mm Accuracy Reading Height : 7mm Pen Switches: 2 Customizable Expresskeys : 4 Active Area : 10 Inches (Medium) Tablet Density : 100 Lines Per Mm Recognition Of Pen On Tablet Inclusions : Pen tablet medium with Bluetooth, Pressure-sensitive, battery-free Pen 4K, PVC-free USB cable with cable tidy and L-shaped connector, 3 extra standard nibs (located inside pen), Nib removal tool on end of pen, Quick start guide, Regulation sheet, Online User Guide Warranty : 3 Years Extended Protection Plan	
52.	TABLET, WIRELESS DRAWING Pressure Sensitivity : 8,192 levels Active Area : 10 inches x 5.63 inches Resolution : 5,080 LPI Report Rate : Max. 266 RPS Shortcut Keys : 6 Customizable Shortcut Keys Roller Wheel: 1 Power Voltage : 5V Interface Support : USB Certifications : C-TICK/FCC/CE/EAC/NOM/WEEE/KC/RoHS/BIS Inclusions : 1 x Drawing Tablet, 1 x Stylus, 1 x Pen Holder, 1 x Drawing Glove, 8 x Replacement Pen Nibs, 1 x USB Cable, 1 x Green Stopper, 1 x Quick Guide	

	Warranty : 1 year local supplier warranty	
53.	TRANSCEIVER, SFP Transceiver Type : SFP Fiber Media Support : Single-Mode Speed : 1.25 Gbps Distance : 10 km Compliant Standard : IEEE802.3ah 1000BASE-BX-D Connector : Simplex LC connector Single/ Bi Direction : Bi-direction Wavelength : Tx: 1550 nm, Rx: 1310 nm Cable Type : Single-mode 9/125 um fiber Power Supply : 3.3 V Hot Pluggable : Yes MSA Compliant : Yes RoHS Compliant: Yes	
54.	UNINTERRUPTED POWER SUPPLY Rated power in W: 650 W, Rated power in VA : 1200 VA , Input Connection Type : IEC 60320 C14 Output connection : 4 x universal, 1 x IEC 60320 C13 , Battery type: Lead-acid battery Mounting support Floor, Network frequency 50/60 Hz +/- 5 Hz auto-sensing Input voltage limits 140 to 300 V 230 V AC, Output frequency 50/60 Hz +/- 1 Hz sync to mains UPS type Line interactive , Wave type: Stepped approximation to a sinewave IP degree of protection: IP20, Battery voltage: 12 V, Battery capacity 9.0 Ah, Battery life 2 to 3 year(s), Surge energy rate 273: J , Mercury free: Yes Warranty: 2 years Local Supplier Warranty	
55.	VOICE RECORDER Specifications: Battery Type : Built-In Lithium Battery Built-In Memory : 4 GB Built-In Microphone : Yes Calendar Search : Yes LCD Backlight : Yes Maximum Files Per Folder : 199 Maximum Files (Total) : 5,000 Files (Including Number Of Folder) PC Connectivity : Yes Playback Format LPCM/MP3/AAC/WMA Recording Format : Linear PCM/MP3 USB Connection Charging : Yes Scene Select : Yes Sync Recording Function: Yes Recording Monitor : Yes FM Radio Recording: Yes VOR : Yes A-B Repeat : Yes Digital Pitch Control (Speed Control) : Yes Divide : Yes Easy Search : Yes Erase : Yes File Copy : Yes Folder Name Change (Without Using PC) : Yes Graphic Equalizer : Yes Move File : Yes Noise Cut : Yes (Clear Voice) Protect : Yes Track Mark : Yes Features - Reduce background noise with Auto Voice Recording - Get a better sound with Auto Music Recording - Capture distant or quiet sounds with S-Microphone - Get to the point with Time Jump - Wider, brighter recording LED - Turn it up with Playback Normalization - See clearly with a larger OLED Display - USB direct connection for quick file transfer MicroSD card: Form Factor : microSDXC Capacity : 64GB Bus Speed Mode : UHS-I SDR104 Speed Class : Class 10, V10 Speed Grade : Grade 1 (U1) Transfer Speed : Up to 130MB/s Durability : 10,000 mating cycles Proof Features : Water-proof, Temperature-proof, X-ray-proof, Magnetic-proof, Drop-proof, Wearout-proof Features : Fast and Smooth, Expand and Store big, Fully protected Warranty : 1 year warranty" - Get a better sound with Auto Music Recording - Capture distant or quiet sounds with S-Microphone - Get to the point with Time Jump - Wider, brighter recording LED - Turn it up with Playback Normalization - See clearly with a larger OLED Display - USB direct connection for quick file transfer MicroSD card: Form Factor : microSDXC Capacity : 64GB Bus Speed Mode : UHS-I SDR104 Speed Class : Class 10, V10 Speed	

	Grade : Grade 1 (U1) Transfer Speed : Up to 130MB/s Durability : 10,000 mating cycles Proof Features : Water-proof, Temperature-proof, X-ray-proof, Magnetic-proof, Drop-proof, Wearout-proof Features : Fast and Smooth, Expand and Store big, Fully protected Warranty : 1 year warranty"	
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Note: Bidders must state in the Statement of Compliance either “**Comply**” or “**Not Comply**” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provision of **ITB** Clause 4.

Attached herewith are the manufacturer’s product literature(s) and certification(s) that we are authorized to sell the goods.

We certify that the foregoing information and the supporting documents are true and correct.

[Signature]

[Name of Authorized Signatory]

[Position/Title of Authorized Signatory]

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, *[Name of Affiant]*, of legal age, *[Civil Status]*, *[Nationality]*, and residing at *[Address of Affiant]*, after having been duly sworn in accordance with law, do hereby depose and state that:

1. **Select one, delete the other:**

- b. *If a sole proprietorship:* I am the sole proprietor or authorized representative of *[Name of Bidder]* with office address at *[address of Bidder]*;
- c. *If a partnership, corporation, cooperative, or joint venture:* I am the duly authorized and designated representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

2. **Select one, delete the other:**

- a. *If a sole proprietorship:* As the owner and sole proprietor, or authorized representative of *[Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Name of the Project]* of the *[Name of the Procuring Entity]*, as shown in the attached duly notarized *Special Power of Attorney*;
 - b. *If a partnership, corporation, cooperative, or joint venture:* I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Name of the Project]* of the *[Name of the Procuring Entity]*, as shown in the attached *[state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)]*;
3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. **Select one, delete the rest:**

- a. *If a sole proprietorship:* The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
- b. *If a partnership or cooperative:* None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of

the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

- c. *If a corporation or joint venture:* None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. [Name of Bidder] complies with existing labor laws and standards; and

8. [Name of Bidder] is aware of and has undertaken the following responsibilities as a Bidder:

- a. Carefully examine all of the Bidding Documents;
- b. Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
- c. Made an estimate of the facilities available and needed for the contract to be bid, if any; and
- d. Inquire or secure Supplemental/Bid Bulletin(s) issued for the [Name of the Project].

9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. In case advance payment was made or given, failure to perform or deliver any of obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to delivery certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this ____ day of ____, 20__ at _____, Philippines.

Bidder's Representative/Authorized Signatory

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ____ at _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____
Notary Public for _____ until _____
Roll of Attorneys No. _____
PTR No. _____ [date issued], [place issued]
IBP No. _____ [date issued], [place issued]

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

[Bidder's Letterhead]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

NET FINANCIAL CONTRACTING CAPACITY

Based on our Income Tax Return and Audited Financial Statement for the Fiscal Year [YEAR], duly submitted to the Bureau of Internal Revenue, and which form part of our Bid, the summary of our firm's financial condition is as given below:

		Year [YEAR]
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

Based on the aforementioned data and the Value of Outstanding Works from the Statement of All Ongoing Government and Private Contracts, which also form part of our Bid, our Net Financial Contracting Capacity (NFCC) is:

NFCC = [(current asset minus current liabilities) (**15**)] minus [value of all outstanding or uncompleted portions of the projects under ongoing contracts including awarded contracts yet to be started coinciding with the contract to be bid].

NFCC =

I/We certify that the foregoing information and all of the supporting documents are true and correct.

[Signature]
[Name of Bidder or Authorized Representative]
[Position or Title]

[Bidder’s Letterhead]

[Date]

FINANCIAL BID FORM

To: Tarlac State University
Re: Invitation to Bid No.

Date : _____

Project Invitation to Bid No. : _____

To: Tarlac State University

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/deliver/perform]* *[description of the Goods]* in conformity with the said PBDs for the sum of *[total Bid amount in words and figures]* or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein or in the Price Schedules,

If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;
- c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

[Insert this paragraph if Foreign-Assisted Project with the Development Partner:

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of agent	Amount	Purpose
	Currency	Commission or gratuity
_____	_____	_____
_____	_____	_____
_____	_____	_____

[(if none, state “None”)]

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

The undersigned is authorized to submit the bid on behalf of *[name of the bidder]* as evidenced by the attached *[state the written authority]*.

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Name: _____
Legal capacity: _____
Signature: _____
Duly authorized to sign the Bid for and behalf of: _____
Date: _____

[Bidder's Letterhead]

[Date]

To: Tarlac State University
 Re: Invitation to Bid No.

SCHEDULE OF PRICES

Item No.	Description	Qty.	Unit	Unit Price	Total Price
IT Equipment					
1.	BIOMETRICS DEVICE RF Optional : 125kHz EM / 13.56MHz IC Max User(1:N): 10,000 Max Fingerprint (1:N): 3,000 standard / 10,000 Optional Max Record 100,000 TCP/IP : 10/100 M PoE Optional : 802.3 at 28W Wi-Fi : 802.11 B/G/N 3G Optional : WCDMA USB :USB 2.0 (Host) RS232 : 1 port for external printer LCD : 3.0"Color LCD Sound : 24-bit Power DC : 12V 1.5A Certificates : CE, FCC, RoHS Standard : Automatic Status Switch, Self-Service Query, DST, T9 Input, 9 Digit User ID, Scheduled Bell, Photo ID, Lock, sensor, Exit button Warranty : 1 year local supplier warranty)	10	Unit		
2.	CABLE, FIBER OPTIC 1 core, 2km length Minimum bending radius : 3.8 cm Tensile Strength : 45 kilograms Reinforcement Material : Reinforced Phosphating Stell Wire Core count : 1 Length : 2 kilometers Color : Black Fiber Type : Outdoor Leather Fiber Optic Cable	1	Unit		
3.	CABLE, HDMI Cable (5 Meters) Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60Hz - 1080P 60Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 15 meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braied AWG: 30AWG"	1	Unit		
4.	CABLE, HDMI (10 meters) Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60Hz - 1080P 60Hz Conductor Material: Pure Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 10 meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braied AWG: 30AWG"	26	Unit		
5.	CABLE, HDMI (20 meters) Color: Black Interface Type: Standard HDMI Interface Process: Gold-plated Resolution: 4K 60Hz - 1080P 60Hz Conductor Material: Pure	30	Unit		

	Copper Jacket: PVC Head: Two-color PVC injection Cable Length: 20 Meters Cable OD: 8.0mm/9.5mm Shielding: Aluminium foil mylar+Metal Braided AWG: 30AWG				
6.	CABLE, UTP CAT 6 Performance Level : Category 6, Cable Construction : U/UTP Flammability Rating : CM EuroClass Rating : Eca Resistance Properties : Flame-Retardant Jacket Material : Polyvinyl Chloride (PVC), Bend Radius (mm) : 24 Number of Pairs : 4, Conductor Material : Copper Conductor Type : Solid, Overall Length (m) : 305 Conductor Gauge (AWG) : 24 Insulation Material : High-Density Polyethylene, Insulation Diameter (mm) : 0.96 Standards Met : Exceeds ISO 11801 Class E and ANSI/TIA-568.2-D Category 6, IEC 61156-5, UL 1685, EN 50575: Euroclass Eca, meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications, RoHS Compliant. Color : Grey Product Type : Copper Cable EuroClass Flame Rating : Eca	15	Unit		
7.	CAMERA, WEB Features: Simple HD Video Calls, Widescreen HD 720p video calls, Mono-noise reducing mic, Auto-light correction, Firm Mounting Option Max resolutions : 720p/30fps (1280x720 pixels) Camera megapixel: 0.9 Focus type: Fixed focus Lens type: Plastic Built-in Microphone type : Mono Mic range: Up to 1m Diagonal field of view (dFoV): 55° USB connectivity: USB-A plug-and-play Features : Universal mounting clip fits laptops, LCD or monitors Auto-light correction: Yes Warranty : 1 year local supplier warranty	16	Unit		
8.	CHARGER, DSLR BATTERY CANON LC-E10C Charger (brand and model specified, it will be used with an existing CANON 1500D Camera) Original/Genuine Manufacturer Product Input Voltage Ac:100-240V Smart Charging Led Indicator Includes Universal 100-240V ac Power Cord Auto Switching Power Voltage From 100V-240V ac Designed to quickly and safely charge digital camera and camcorder battery	1	Unit		
9.	CHARGER, NiMH BATTERY Designation: Pro Charger Color: Black Charge Capability: "AA" (2) or (4); "AAA" (2) or (4) Shutoff Mechanism: Delta V Detection; Timer (5 hours) Charging Current: 2 or 4 x AA, 500mA; 2 or 4 x AAA, 220mA Input Rating: Universal Voltage: 100-240vac, 50/60Hz, 7W Charging indication: Sound Indicators - Single Beep/Start - Double/Done; 3 Stage Status Indicators: Red - Charging 0-49%; Amber - Charging (50-99%),	1	Unit		

	Green - Fully Charged Typical Weight: 113.0 grams (3.9 oz.) Dimensions (mm): 116 x 70 x 50 (H x L x W) Volume (cm3): 4060 Plug Type: Folding Rev Polarity Protection: Yes Primary Battery Detection: Yes				
10.	COMPUTER MEMORY KIT Features: Optimized For Intel and AMD, Intelligent Control, Unlimited Possibilities, Performance Heritage, Compact Form Factor, One Step Overclocking Memory Type: DDR4 Memory Size : 32GB (2 x 16GB) Tested Latency : 18-22-22-42 Tested Voltage : 1.35 Tested Speed : 3600 Memory Color : BLACK LED Lighting : RGB Single Zone / Multi-Zone Lighting : Dynamic Multi-Zone SPD Latency : 15-15-15-36 SPD Speed : 2133MHz SPD Voltage : 1.2V Speed Rating : PC4-28800 (3600MHz) Compatibility : Intel 500 Series, Intel 600 Series, AMD 500 Series, AMD X570 Heat Spreader : Anodized Aluminum Package Memory Format : DIMM Performance Profile : XMP 2.0 Package Memory Pin : 288 Warranty : Limited Lifetime Warranty	10	Unit		
11.	COOLER, LAPTOP Optimal Cooling Design Metal Mesh Contact Surface Silent Performance Multicolor LED Strip USB Connectivity Color: Black Material : Metal Mesh/Plastic/Rubber Fan Dimensions : 160 x 160 x 15mm Fan Speed : 1000±15% RPM Fan Air Flow : 57CFM Fan Noise: 26 dBA Power : USB 5V DC USB : USB 2.0 x 3, Type-C x 1 Compatibility: Supports up to 17" laptop Warranty : 2 years manufacturer warranty	2	Unit		
12.	GIGABIT SWITCH - 10 PORT UNMANAGED Interfaces : 8 x 10/100/1000 BASE-T ports, 2 x GE Uplink Standards : IEEE 802.3u, IEEE802.3af/at, IEEE 802.3ab, IEEE 802.3az, IEEE 802.3x, Full-duplex Ethernet data link layers, IEEE 802.3z, Gigabit Ethernet fiber-optic standard Media Interface Exchange : Auto MDI/MDI-X adjustment on all ports Lighting Protection : 6KV Switching Fabric : 20 Gbps Transmission Method : Adopt Store-and-forward Data Transfer Rates : 1000 Mbps, 100 Mbps Packet Filtering / Forwarding Rates : 10M port maximum 14800pps, 100M port maximum 148800pps, 1000M port maximum 1488000pps PoE Standards IEEE 802.3af IEEE 802.3at PoE-Capable Ports : Port 1 - 8 (Port 1 - 8 PoE can support up to 250m @ 10Mbps with Extend enabled) Power Budget : 120W (30 W max. per PoE port) Power LED : Yes Link / Activity LED :	10	Unit		

	Yes Certification : MI/EMC : CE Warranty : 1 year local supplier warranty				
13.	GIGABIT SWITCH - 16 PORT UNMANAGED RACKMOUNT Number of Ports : Sixteen (16) 10/100/1000 Gigabit ports Standards : IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T , ANSI/IEEE 802.3 NWay auto-negotiation, IEEE 802.3x Flow Control Data Transfer Rates Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) 100 Mbps (half duplex) / 200 Mbps (full duplex), 2000 Mbps (full duplex) Security Storm : Control QoS (Quality of Service) : 802.1p priority, 8 queues Protocol : CSMA/CD Switching Capacity : 32 Gbps MAC Address Learning : Self-learning, auto-aging Forwarding Mode : Store-and-forward DIP Switch : Energy-Efficient Ethernet (EEE), Flow Control, Port Isolation and Storm Control MTBF 1,882,372 hours Warranty : 1 year local supplier warranty	5	Unit		
14.	GIGABIT SWITCH - 24 PORT UNMANAGED RACKMOUNT Number of Ports : Twenty-four (24) 10/100/1000 Gigabit ports Standards : IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T , ANSI/IEEE 802.3 NWay auto-negotiation, IEEE 802.3x Flow Control Data Transfer Rates Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) 100 Mbps (half duplex) / 200 Mbps (full duplex), 2000 Mbps (full duplex) Security Storm : Control QoS (Quality of Service) : 802.1p priority, 8 queues Protocol : CSMA/CD Switching Capacity : 32 Gbps MAC Address Learning : Self-learning, auto-aging Forwarding Mode : Store-and-forward DIP Switch : Energy-Efficient Ethernet (EEE), Flow Control, Port Isolation and Storm Control MTBF : 863,100 hours Warranty : 1 year local supplier warranty	5	Unit		
15.	HUB, USB C Ports: 1 x HDMI Port 1 x PD Port 3 x USB 3.0 Port 1 x TF/SD Reader 1 x 3.5mm Audio Port 1 x Gigabit Ethernet Port Compatible with Apple and Windows Laptop Warranty : 1 year local supplier warranty	2	Unit		
16.	HUB, USB-C 6-IN-1 •features a 4K HDMI output, allowing you to connect to high-resolution displays effortlessly. •With SD and TF card readers, transferring files is quick and efficient, boasting a data transfer speed of up to 5 Gbps. • 1 x USB-C, 1 x HDMI 2.0, 2 X USB 3.0, 1 X SD CARD READER, 1 X	3	Unit		

	MICROSD CARD READER Warranty : 1 year local supplier warranty				
17.	HUB, USB-C WITH NETWORK PORT Type C Hub with HDMI RJ45 Network Port USB C Multiport Port Hub Thunderbolt 3 Type C Docking Station SD TF Card Reader Slot USB 3.0 Type C to HDMI Adapter HDMI Port supports 4k@30Hz, VGA Port supports 1080P@60Hz. When HDMI and VGA output simultaneously, the resolution is 1080P@60Hz. Multiple shielding structure, Aluminum Foil + Metal Braided + GND, to ensure stable signal transmission. Aluminum shell Efficient good heat dissipation.	3	Unit		
18.	KEYBOARD, COMPUTER Features High-Elasticity Silicon FN Multimedia Hot Keys Comfort Roundedge Keycaps Water Splash Resistance Adjustable Keyboard Height Large Enter Key Character : Laser Engraving Report Rate: 125 Hz Plug: USB Warranty : 1 year local supplier warranty	10	Unit		
19.	MONITOR, COMPUTER Diagonal Viewing Size : 23.8" Preset Display Area (H x V) : 527.04 mm x 296.46 mm (20.75" x 11.67") Area: 156,246.28 mm2 (242.18 inches2) Panel Type : In-Plane Switching (IPS) technology Display Screen Coating : Anti-glare with 3H hardness Maximum Preset Resolution : 1920 x 1080 Refresh rate : 100 Hz Viewing Angle : 178° vertical / 178° horizontal Pixel Pitch : 0.2745 mm x 0.2745 mm Pixel Per Inch (PPI) : 92.53 Contrast Ratio : 1,500: 1 (typical) Aspect Ratio : 16:9 Backlight Technology : LED edgelight system Brightness : 250 cd/m2 (typical) Response Time : 5ms gray-to-gray (Fast mode), 8ms gray-to-gray (Normal mode) Color Support : Up to 16.7 million colors Color Gamut : 99% sRGB TÜV Eye Comfort : Yes, 4-Star Flicker Free : Yes Connectivity : 1x HDMI 1.4 (HDCP 1.4) 1x DP 1.2 (HDCP 1.4), 1 x VGA, 1x USB 3.2 Gen1 Type-B upstream, 3x USB 3.2 Gen1 Type-A downstream, 1 x USB 3.2 Gen1 Type-C downstream with up to 15W PD (data only) USB Power Delivery : Yes, up to 15W via USB-C downstream port Adjustability : Height, Tilt, Swivel, Pivot Height : Up to 150 mm (5.9") Tilt : -5°/+21° Swivel : -45°/+45° Pivot : -90°/+90° Compliant Standards ENERGY STAR certified monitor, EPEAT GOLD, EPEAT Climate+, TCO Certified Displays TCO Certified Edge, RoHS-compliant Warranty : 5 years next business day on-site repair / warranty on all labor and parts by	8	Unit		

	the manufacturer's authorized in-country / local technical support on computer monitor.				
20.	MOUSE, COMPUTER Features: 4-way Wheel Durable Button Life Dust-Resistant Wheel Plug and Play Type: Wired Resolution 1200 DPI Buttons No: 3 Port: USB Warranty : 1 year local supplier warranty	15	Unit		
21.	MEDIA CONVERTER, GIGABIT MULTI-MODE Standards and Protocols : IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x Basic Function : Full Duplex Flow Control (IEEE 802.3x) Extends fiber distance up to 0.5km using 50/125um fiber, Extends fiber distance up to 0.22km using 62.5/125um fiber Ports : 1 x 1000M SC/UPC port, 1 x 1000M RJ45 port (Auto MDI/MDIX) Wave Length : 850nm, Network Media 1000BASE-FX : Multi-mode Fiber, Network Media 1000BASE-SX : Multi-mode Fiber, Network Media 1000BASE-T : UTP category 5, 5e cable (maximum 100m), EIA/TIA-568 100Ω STP (maximum 100m), LED Indicators : PWR, LINK, RX Power Supply External : Power Adapter, Max Power Consumption : 5.5W Safety & Emission : FCC, CE, RoHS, Package Contents : Media Converter MC200CM, Power Adapter, Installation Guide, Warranty : 1 year local supplier warranty	6	Unit		
22.	MEDIA CONVERTER, SMART Features : •1x 1000BASE-T RJ-45 port & 1 x 1000BASE-SX/LX LC SFP port •2000 Mbps (full-duplex)• Auto-MDI/MDIX •Can be used as a stand-alone device or installed in a chassis, Number of Ports : 1 x 1000BASE-T RJ-45 port, 1 x 1000BASE-SX/LX SC port Standards: IEEE 802.3ab for 1000BASE-TX, IEEE 802.3z for 1000BASE-SX/LX Data Transfer Rate : 2000 Mbps (full-duplex) Duplex Mode : Full-duplex Media Types : 1000BASE-T: 4-pair Cat. 5, Shielded Twisted Pair (STP) (up to 100 m), 1000BASE-SX/LX: Depends on transceiver Media Exchange Interface : Auto-MDI/MDIX Functionality: Transmission Mode, Store-and-forward Forwarding Rate : Full wire-speed forwarding rate Management : Through the DMC-1000 chassis	4	Unit		

	with the DMC-1002 management module installed Management Functions : LLR, Fiber mode Diagnostic LEDs : Power, LINK/ACT AC Input : 5 V/1 A external power adapter Fiber Wavelength : 1300 nm Supported Fiber Cable Length : Depends on SFP transceiver Emission Certifications (EMI) : FCC Class A, VCCI Class A, CE Class A Warranty : 1 year local supplier warranty				
23.	PRINTER, INDUSTRIAL ELECTRONIC LABELLER 16-character Graphical LCD with real print preview -AD-24ES-01 AC Power adapter (included) -6 pcs of AAA batteries -QWERTY keyboard with dedicated numeric keypad -Maximum label length of 300mm -180dpi print resolution -20mm per second fast print speed -Manual cutter -Label design -Dedicated functions for cable wrap, cable flag, face place and sequential numbering -10 font styles, 3 character sizes and 3 character widths -200 symbols including electrical, security, audio/video and safety symbols -Add frames around labels -9 programmable memory -Automatic sequential numbering for fast printing of identification numbers -Print up to 9 copies -TZe tapes: 3.5, 6, 9, 12mm	3	Unit		
24.	PRINTER, MONOCHROME MULTI-FUNCTION INKJET Printer Type: Print, Scan, Copy, Fax with ADF Maximum Copies from Standalone:99 copies Reduction / Enlargement:25 – 400 % Auto Fit Function Maximum Copy Resolution:600 x 600 dpi Maximum Copy Size:Legal (ADF) ISO 29183, A4, Simplex (Black):Up to 17 ipm Scanner Type : Flatbed colour image scanner Sensor Type : CIS, Optical Resolution:1200 x 2400 dpi Maximum Scan Area:216 x 297 mm (8.5 x 11.7") Scanner Bit Depth (Colour):48-bit input, 24-bit output Scanner Bit Depth (Grayscale): 16-bit input, 8-bit output Scanner Bit Depth (Black & White):16-bit input, 1-bit output Scan Speed: Flatbed (200dpi): Monochrome: 12sec, Colour: 27sec ADF (200dpi):Monochrome: 7.0ipm ADF Capacity:64 to 95 g/m2 Paper Capacity:35 sheets of A4 paper, Number of Paper Trays:2, Input Capacity: Cassette 1: 250 Sheets-A4 / Letter Plain Paper (80 g/m2); 10-sheets-Envelope; Rear Slot: 1 Sheet-A4 Plain Paper, Output Capacity: Up to 100 sheets Maximum Paper Size:215.9 x 1200 mm (8.5 x 47.24") Paper Sizes: Paper Sizes:Legal, Indian-Legal (215 x 345 mm), 8.5 x	23	Unit		

	13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm), Envelopes: #10, DL, C6 Paper Feed Method:Friction feed Print Margin:3 mm top, left, right, bottom via custom settings in printer driver Interface:USB 2.0 Network:Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct Network Protocol:TCP/IPv4, TCP/LCD Screen:2.4" LCD Touch Screen PrintheadNozzle Configuration:400 x 2 nozzles Black Print Direction:Bi-directional printing Maximum Print Resolution:1200 x 2400 dpi (with Variable-Sized Droplet Technology)Minimum Ink Droplet Size:2.8 pl Print Speed:Draft Text - Memo, A4 (Black): Up to 39 ppm *1 ISO 24734, A4 (Black): Simplex: Up to 20 ipm, Duplex: 9.0 ipm First Page Out Time (Black): Approx. 6 sec (simplex) / 13 sec (duplex), Automatic 2-sided Printing:Yes With Additional 2 pieces of Maintenance Box Warranty : 4 years warranty 50,000 prints, whichever comes first. On-site repair by an authorized technician by the manufacturer.				
25.	PRINTER, MULTI-FUNCTION COLORED INK TANK Printer Type: Print, Scan, Copy with ADF Nozzle Configuration: 400 x 1 nozzles Black, 128 x 1 per Colour (Cyan, Magenta, Yellow) Maximum Resolution: 4800 x 1200 dpi Automatic 2-sided Printing: Yes (Up to A4) Print Speed: Photo Default - 10 x 15 cm / 4 x 6 ": Approx. 69 sec per photo / 92 sec per photo Draft, A4 (Black / Colour): Up to 33.0 ppm / 20.0 ppm First Page Out Time from Ready Mode (Black / Colour): Approx. 9 sec / 15 sec Maximum Copy Size: Legal Copy Resolution: 600 x 600 dpi Scanner Type: Flatbed colour image scanner Sensor Type: CIS Optical Resolution: 1200 x 2400 dpi Maximum Scan Area: 216 x 297 mm (8.5 x 11.7 ") Scan Speed: Flatbed (Black / Colour): 200dpi: 12 sec / 27 sec Number of Paper Trays: 1 Maximum Paper Size: 215.9 x 1200 mm (8.5 x 47.24 ") Paper Size: Legal (8.5 x 14"), 8.5 x 13", Letter, A4, B5, A5, A6, Hagaki (100 x 148 mm), 16K (195 x 270 mm), Indian-Legal (215 x 345 mm), B6, 5 x 7", 4 x 6", Envelopes #10, DL, C6 Interface: USB 2.0, Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct With Additional 2 pieces of Maintenance Box Warranty : 2 years warranty or 50,000 prints, whichever comes first repair or replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers	6	Unit		

26.	PRINTER, PORTABLE LABEL Width: 6, 9, 12, 18, 24 mm Tape Type: LK Tape Cartridges Printing: Cutter Type: Automatic Full Cut Printing Technology: Thermal Transfer Printing Resolution: 180 dpi / 128 dot Text Data: Printable Lines: PC / App Dependent Memory: Files (Built-in Memory): PC / App Dependent Print Setting: Repeat Printing: Up to 99 (App) / 999 (PC) Character Settings: Font Sizes: 6 (App) / PC Dependent Vertical Printing: Yes Mirror Printing: Yes Barcode Printing: Yes Wire Wrap: Yes Flag Style (Double-sided): Yes Double-sided Tab: Yes*Image Printing: Yes Interface: USB, Bluetooth Operating System: iOS, Android (Mobile), Windows, Mac OS (PC) Battery: 6AAA AC Adapter: Bundled Warranty : at least 1 year warranty	1	Unit		
27.	PRINTER, SINGLE FUNCTION Print Speed Black Normal: Up to 20 ppm First Page Out Black: As fast as 8.3 seC, Resolution: Black (best): Up to 1200 x 1200 dpi; Black (normal): Up to 600 x 600 dp Control Panel : Buttons (Power, Cancel); LED indicator lights (Power, Toner, Attention) Duty Cycle (Monthly, A4) Up to 10,000 pages Print Technology: Laser Processor Speed: 400 MHz Connectivity, standard: Hi-Speed USB 2.0 port Paper handling input, standard 150-sheet input tray, 10-sheet priority tray Paper handling output, standard 100- sheet output tray Warranty: 4 Years Next Business Day Exchange Service	11	Unit		
28.	PRINTER, WIDE DOT MATRIX Printing Technology: Control Panel: 6 switches and 10 LEDs Print Direction: Bi-direction with logic seekingPrinting Method: Impact dot matrix Number of Pins in Head: 9 pins Control Code: ESC/P2, IBM PPDS Printhead Life: 200 million strokes/wire Mean Print Volume Between Failure (MVBFB): 30 million lines (except print head) Mean Time Between Failure (MTBF): 15,000 Power On Hours (POH) (25% Duty) Bitmap Fonts Draft: 10, 12, 15 cpi Roman / Epson Sans Serif: 10, 12, 15 cpi, Proportional Scalable Fonts: Roman / Sans Serif Barcode: EAN-13, EAN-8, Interleaved 2 of 5, UPC-A, UPC-E, Code 39, Code 128, POSTNET Paper Media: Cut Sheet (Single Sheet): Entry: Front Length: 100 - 420 mm, Width: 100 - 420 mm, Thickness: 0.12 - 0.39 mm Entry: Rear Length: 100 - 420 mm, Width: 100 - 420 mm, Thickness: 0.12 - 0.39 mm Continuous Paper (Single Sheet / Multi-part): Entry: Front / Rear / Bottom : Length: 101.6 - 558.8 mm, Width: 101.6 - 406.4 mm, Thickness:	2	Unit		

	0.065 - 0.39 mm Copies: Original + 4 copies Envelope (No.6): Entry: Rear: Length: 92 mm, Width: 165 mm, Thickness: 0.16 - 0.52 mm Envelope (No.10): Entry: Rear : Length: 105 mm, Width: 241 mm, Thickness: 0.16 - 0.52 mm Label (Base Sheet): Entry: Bottom : Length: 101.6 - 558.8 mm, Width: 101.6 - 406.4 mm, Thickness: 0.16 - 0.19 mm Card: Entry: Front / Rear : Length: 100 - 148 mm, Width: 100 - 148 mm, Thickness: 0.22 mm Roll Paper: : Entry: Rear Diameter: 127mm, Width: 216 mm, Thickness: 0.07 - 0.09 mm Line Spacing: 4.23mm (1/6") or programmable in increments of 0.059mm (1/432") Input Data Buffer:128KB Pitch: 10cpi: 136 cpl Interface: USB 2.0, Bi-directional parallel (IEEE-1284 nibble mode supported) Warranty : 1 year manufacturer's warranty or Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers				
29.	PRINTER, WIDE FORMAT ALL-IN-ONE Functions / Multitasking supported : Print, copy, scan, fax / Yes Print resolution : Black (best): Up to 1200 x 1200 rendered dpi; ; Color (best): Up to 4800 by 1200 Print technology : Thermal Inkjet, Optical Thermal Inkjet Print cartridges number : 4 (1 each black, cyan, magenta, yellow) Borderless printing : Yes (up to A3/11 x 17-in) Color scanning : Yes Scan type / Technology : Flatbed, ADF / Contact Image Sensor (CIS) Scan resolution : Hardware: Up to 1200 x 1200 dpi; Optical: Up to 1200 dpi Scan Size : ADF: Two-sided (Duplex): 8.27 x 11.69 in; One-sided: 8.5 x 14 in Maximum; Flatbed: 11.69 x 17 in Copy speed : Black (ISO): Up to 18 cpm;; Color (ISO): Up to 13 cpm;; Black (draft): Up to 33 cpm;; Color (draft): Up to 31 cpm Copy resolution : Black (text and graphics): Up to 600 dpi; Up to 600 dpi; Color (text and graphics): Up to 600dpi Warranty : 4 Year Care Pack Business Priority Support with Onsite Exchange	1	Unit		
30.	PROJECTOR W/ PRESENTER BUNDLE & TRIPOD WHITESCREEN Projection Technology: RGB liquid crystal shutter projection system (3LCD) , White Light Output (Normal/Eco): 4,000 lm, Colour Light Output: 4,000 lm, USB Interface: USB Type A: 1 USB Type B: 1 , Analog Input: Composite: 1 RCA, D-Sub 15pin: 1 Digital Input: HDMI: 1	2	Unit		

	Audio Input: 2RCA (White & Red): 1, Contrast Ratio: 16,000:1, Standard Size: Tele: 33" to 320" [1.10 to 10.89 m] , Wide: 33" to 320" [0.91 to 9.07 m], Vertical/Horizontal Keystone: $\pm 30^\circ$ / $\pm 30^\circ$ (Auto Vertical Keystone only), Quick Corner:Yes, Air Filter: High Efficiency Filter Features, Projectors Facets: Wifi, Quick Corner, Resolution, Projectors Facets: WXGA, Contrast Ratio, Projectors Facets: 16,000:1, Brightness Range Lumens, Projectors Facets: 2000, Wireless LAN Security Infrastructure: OPEN, WPA2/WPA3-PSK LCD: Size: 0.59", Native Resolution: WXGA (1280 x 800), Aspect Ratio: 16:10, Type: Optical Zoom (Manual) / Focus (Manual), Zoom Ratio: 1 – 1.2, Focal Length: 16.90 – 20.28 mm Throw Ratio: 1.30 – 1.56 (Wide to Tele), F-Number: 1.49 – 1.72. Warranty: 1 local supplier warranty Presenter Laser Class : Class 2 Laser Max Output : Less than 1mW Wireless technology 2.4 GHz wireless technology Battery type 2 AAA batteries Dimensions (+/- 10%) H x W x D: 37.8 mm x 115.5 mm x 27.4 mm Warranty: 3 years local supplier warranty PROJECTOR WHITESCREEN • Ultra bright screen surface without bellows • Wrinkle free • Thicker surface for lifetime usage• Surface doesn't change color in time • Worry-free mechanism • Strong supports stand for windproof performance Dimensions: H x W: 70" x 70" Fabric: Matte White Warranty: 1 year warranty				
31.	ROUTER, WIRELESS WiFi Speeds : BE3600 • 5 GHz: 2882 Mbps (802.11be) • 2.4 GHz: 688 Mbps (802.11be) WiFi Range : 3 Bedroom Houses, 4× External Antennas, Beamforming, Dual-Band, 2×2 MU-MIMO, OFDMA, Airtime Fairness, DFS Advanced Features : Multi-Link Operation (MLO), 4K-QAM, Multi-Rus, EasyMesh-Compatible, Works with Alexa and Google Assistant, IoT Network Wireless Mode : Router Mode, Access Point Mode Network Security : • SPI Firewall• Access Control • IP & MAC Binding • Application Layer Gateway, Real-Time IoT Protection, Malicious Site Blocker, Intrusion Prevention System DDoS Attack Prevention, Home Network Scanner VPN Server • OpenVPN Server • PPTP VPN Server • L2TP VPN Server VPN Client • Open VPN Client • PPTP VPN Client • L2TP VPN Client • WiFi Encryption : • WPA • WPA2 • WPA3 •	10	Unit		

	WPA/WPA2-Enterprise (802.1x) Ethernet Ports • 1× 2.5 Gbps WAN • 1× 2.5 Gbps LAN • 3× 1 Gbps LAN USB Support 1× USB 3.0 • Supported Partition Formats: NTFS, exFAT, HFS+, FAT32 • Supported Functions: FTP Server, Media Server, Samba Server Protocol• IPv4• IPv6 WAN Type : • Dynamic IP • Static IP • PPPoE • PPTP • L2TP Quality of Service : QoS by Device NAT Forwarding : • Port Forwarding • Port Triggering • DMZ • UPnP DHCP • Address Reservation • DHCP Client List • Server Certifications : CE, FCC, RoHS Warranty : 1 year local supplier warranty				
32.	SCANNER, BARCODE Single-board construction; Scratch-resistant tempered glass exit window; Accurate first-time capture of 1D bar codes; Wide working range; Multiple on-board interfaces; Plug-and-play,;with universal cable Hands-free Intellistand; Advanced Data Formatting (ADF); Dimensions: (+/- 10%) (H x W x D): 6 in. x 2.5 in. x 3.34 in.; Color: Twilight Black	5	Unit		
33.	SCANNER, HIGH SPEED Scanner Type : A4 sheet-fed, one-pass duplex colour scanner Sensor Type Contact Image Sensor (CIS) x 2 Scanning Method Fixed carriage and moving document Optical Resolution 600 x 600 dpi Output Resolution 50 - 1,200 dpi (in 1 dpi increments) Scanner Bit Depth (Colour) 48-bit input, 24-bit output Max. Document Size 215.9 x 3,048 mm Scan Speed Resolution "200dpi: 26 ppm / 52 ipm (Monochrome, Colour) 300dpi: 26 ppm / 52 ipm (Monochrome, Colour) 600dpi: 21 ppm / 42 ipm (Monochrome), 7.0 ppm / 14 ipm (Colour)" ADF Capacity 50 sheets (80g/m2) Daily Duty Cycle up to 3,000 sheets / day Interface USB 2.0 Warranty : 1 year warranty	12	Unit		
34.	SCANNER, WIRELESS BARCODE Maximum Scan Distance : 368mm Maximum Scan Rate : 110,000 per second 2400mAh Li-Ion battery Auto-host detect cable Deploy in every corner of the world Direct decode indicator, good decode LEDs, beeper (adjustable tone/volume) indicators Durable construction Flexible handheld or hands-free operation Input voltage range is from 4.5VDC to 5.5VDC Nova white, twilight black colour Operating temperature ranges between 0°C and 70°C Point-and-shoot scanning simplicity Standard Bluetooth version	6	Unit		

	4.0 with BLE Supported host interfaces are keyboard wedge, RS232, RS485, TGCS, USB, Wizard-Driven Truly plug-and-play Unsurpassed scanning range Warranty : 1 year local supplier warranty				
35.	SC-LC FIBER PATCH Fiber Type: Single Mode Connector Type: Hybrid Size: 2.0mm Mode: Singlemode Duplex : Yes Length : 3 meters 9/125 μ m Type: SC-LC OD:2.0MM UPC	50	Unit		
36.	SOLDERING IRON AND HOT AIR Separate switches allow simultaneous operation. Long lifetime heater. Password lock function facilitates the temperature parameters control. Temperature adjustment by button, auto sleep/OFF function available. Digital temperature calibration, easy operation. Compatible with various types of soldering iron tips and nozzles. Built-in suction pen in the hot air handle, easy to use. Brushless vortex fan, stepless and wide range of air volume, suitable for various applications. An automatic cooling system can prolong the lifetime of heating element and protect the hot air handle. Built-in vacuum pump, powerful suction, no external of external vacuum system. Precise temperature controlled by closed-loop sensor. Light soldering iron handle, easy to use.	3	Unit		
37.	STORAGE, EXTERNAL HARD DISK DRIVE 5TB Product Features Slim Style, built-in 256-bit AES hardware encryption with password protection, comes with backup software; Capacity: 5TB Connector: Micro-B Interface: UBS 3.2 Gen 1, USB 3.0, USB 2.0 Transfer Rate: up to 5Gb/s Warranty: 3 years manufacturer warranty	1	Unit		
38.	STORAGE, FLASH DRIVE 8GB Feature, Ultimate portability, Quick and Convenient Capacity: 8GB Speed: USB 3.2 Gen 1 compliant Warranty: 1 year local supplier warranty	2	Unit		
39.	STORAGE, FLASH DRIVE 32GB Feature, Ultimate portability, Quick and Convenient Capacity: 32GB Speed: USB 3.2 Gen 1 compliant Warranty: 1 year local supplier warranty	10	Unit		
40.	STORAGE, NAS HARD DISK DRIVE 4TB Formatted capacity: 4 TB, Recording technology: CMR, Interface: SATA 6 Gb/s, Form factor: 3.5-inch, Drive technology: Air, Native command queuing: Yes, Advanced Format (AF): Yes, RoHS compliant: Yes Performance Internal transfer rate: up to 180 MB/s, Cache: 256	2	Unit		

	MB, RPM: 5,400 Reliability / Data Integrity : Load/unload cycles: 600,000, Non-recoverable errors per bits read: < 1 in 10 ¹⁴ , MTBF: 1,000,000 hours, Workload rate: 180 TB/year Warranty: 3 years local supplier warranty				
41.	STORAGE, NETWORK ATTACHED STORAGE CPU : Intel Celeron J4025 2-core 2.0 GHz, burst up to 2.9 GHz Hardware Encryption Engine : Yes System Memory : 2 GB DDR4 Drive Bays : 2 Compatible Drive Type : 2 x 3.5" SATA HDD, 2.5" SATA SSD Hot Swappable Drive : Yes RJ-45 1GbE LAN Port : 2 USB 3.0 Port : 2 Internal Drives : Btrfs, EXT4 External Drives : Btrfs, EXT4, EXT3, FAT, NTFS, HFS+, exFAT Warranty : 2 years local supplier warranty NAS Hard Disk Capacity : 4TB Form Factor : 3.5" inch Rotational speed (RPM) : 5,400 RPM Interface : SATA 6Gb/s Warranty : 2 Years Local Supplier Warranty, Hard Disk Capacity : 8TB (2 x 4TB)	3	Unit		
42.	STORAGE, PORTABLE EXTERNAL SSD 1TB Interface : Compatible with USB 3.2 Gen2 (10 Gbps), backwards compatible Capacity: 1TB Transfer Speed : Up to 1,050 MB/s Sequential writes : Up to 1,000 MB/s UASP Mode : Supported Encryption : AES 256-bit hardware encryption Certification : CE, BSMI, KC, VCCI, C-tick, FCC, IC, UL, TUV, CB, EAC Thermal Control : Yes Warranty : 3 years manufacturer warranty	6	Unit		
43.	STORAGE, PORTABLE EXTERNAL SSD 4TB Features: Rugged Durability Keep cool at high speed Mighty Tough Compatible with your devices Durable Yet Stylish Capacity : 4TB Sequential Read Up to 1,050 MB/Sec Sequential Write Up to 1,000 MB/Sec Water/Dust Resistant : IP 65 Drop Resistant : Up to 3m Encyprtion : AES 256-bit hardware encryption Software : Yes. Compatible software Relaibiltiy: Humidity : 5% to 95% non-condensing Shock, Non-operating : 1,500G, duration: 0.5ms, 3 axis Vibration, Non-operating : 20~2,000Hz, 20G Certifications : CE, BSMI, KC, VCCI, C-tick, FCC, IC, UL, TUV, CB, EAC, UKCA, BIS RoHS Compliance : RoHS 2 Warranty: 3 years local supplier warranty	1	Unit		
44.	STORAGE, SD CARD 128GB Form Factor : SDXC Capacity : 128GB Performance : Up to 200MB/s read speeds, Write speed up to 90MB/s Rated UHS Speed Class : Class 3 (U3) Video Speed Class : V30 Bus Type : UHS- Durability: Shockproof, Temperature Extremes, Waterproof, X-Ray Proof Security :	5	Unit		

	Built-in write-protect switch prevents accidental data loss Warranty : 5 years local supplier warranty				
45.	STORAGE, SD CARD 256GB Form Factor : SDXC Capacity : 256GB Performance : Up to 200MB/s read speeds, Write speed up to 140MB/s Rated UHS Speed Class : Class 3 (U3) Video Speed Class : V30 Bus Type : UHS-I Durability: Shockproof, Temperature Extremes, Waterproof, X-Ray Proof Security : Built-in write-protect switch prevents accidental data loss Warranty : 5 years local supplier warranty	1	Unit		
46.	SWITCH, STACKABLE SMART MANAGED SWITCH WITH 10G UPLINKS SWITCH WITH SFP MODULES Port Standards & Functions : IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, 802.3ae 10 GbE, IEEE 802.3x Flow Control for Full-Duplex Mode, Auto-negotiation Number of Ports : 16 x 10/100/1000 Mbps, 2 x Gigabit SFP, 2 x 10G SFP+ Network Cables : UTP Cat. 5, Cat. 5e (100 m max.) EIA/TIA-568 100-ohm STP (100 m max.) Full/Half Duplex : Full/half-duplex for 10/100 Mbps and full-duplex for 1000 Mbps speed Media Interface Exchange : Auto or configurable MDI/MDIX Switching Capacity : 76Gbps Transmission Method : Store-and-forward Maximum 64 bytes Packet Forwarding Rate : 56.54 Mpps Diagnostic LEDs : Power/Stacking ID/Fan (per device), Link/Activity/Speed (per 10/100/1000 Mbps port), Link/ Activity/Speed (per Gigabit SFP port), Link/Activity/Speed (per 10G SFP+ port) With included 2 units of 10G SFP modules, same brand with the switch to ensure compatibility. With included 2 units of 1G SFP modules, same brand with the switch to ensure compatibility. Warranty : 1 year local supplier warranty	10	Unit		
47.	TABLET, COMPUTER Features: CPU Speed 2Ghz, 1.8Ghz CPU Type : Octa-Core Display : 10.4 inches Technology (Main Display) : TFT Color Depth (Main Display) : 16M Video Recording Resolution : FHD (1920 x 1080) @ 30fps Memory (GB) : 3 Storage (GB) : 64 External Storage Support : MicroSD (Up to 1TB) USB Version : USB 2.0 Location Technology : GPS, Glonass, Beidou, Galileo Earjack : 3.5mm Stereo Wi-Fi: 802.11 a / b / g / n / ac 2.4G+ 5GHz, VHT80 Wi-Fi Direct : Yes Bluetooth Version : Bluetooth v5.1 Bluetooth Profiles : A2DP,	9	Unit		

	AVRCP, DI, HID, HOGP, OPP, PAN OS : Android Sensors : Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor Warranty : warranty care plan for two years. Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers				
48.	TABLET, COMPUTER 7 INCH Processor : 2.0Ghz MediaTek MT8166 Operating System : Android 11 (Go Edition) Display : 7" SD (1024 x 600) IPS, 350 nits, TDDI LCD display, 5-point touchscreen Memory : 2 GB LPDDR4 Battery : Up to 10 hours (Web browsing time and Video Playback Time Storage : 32 GB eMMC Audio : Dolby Atmos Camera : Rear: 2MP auto-focus, Front: 2MP fixed-focus Connectivity : WiFi 5 802.11AC Bluetooth : 5.0 Ports/Slots : Headphone / mic combo, Micro-USB 2.0 Inclusions : Tablet, AC Charger, Quick Start Guide Warranty: 3 years manufacturer's warranty or Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers	3	unit		
49.	TABLET, COMPUTER FOR MOBILE APP DEVELOPMENT Features: CPU Speed : 2.4 GHz, 2 GHz CPU Type : Octa-Core Display : 10.9 inches Technology (Main Display) : TFT Color Depth (Main Display) : 16M Video Recording Resolution : UHD 4K (3840 x 2160) @ 30fps Memory (GB) : 6 Storage (GB) : 128 External Storage Support : MicroSD (Up to 1TB) USB Version : USB 2.0 Location Technology : GPS, Glonass, Beidou, Galileo, QZSS Wi-Fi: 802.11 a / b / g / n / ac / ax 2.4G+ 5GHz, HE80, MIMO, 1024-QAM Wi-Fi Direct : Yes Bluetooth Version : Bluetooth v5.3 Bluetooth Profiles : A2DP, AVRCP, DI, HID, HOGP, OPP, PAN OS : Android Sensors : Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor Warranty : warranty care plan for two years. Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers	1	Unit		
50.	TABLET, COMPUTER FOR MOBILE APP DEVELOPMENT Capacity :256GB Display : 10.9-inch (diagonal) LED-backlit Multi-Touch display with IPS technology 2360-by-1640-pixel resolution at 264 pixels per inch (ppi) Chip : Bionic Chip, 6core CPU, 4-core graphics, 16-core Neural Engine Camera : 12MP Wide camera f/1.8 aperture Digital zoom up to 5x Five-element lens Front	1	Unit		

	Camera : 12MP Ultra Wide camera, 122° field of view, <i>f</i>/2.4 aperture, Smart HDR 3, 1080p HD video recording at 25 fps, 30 fps, or 60 fps Microphones : Dual Microphones Wireless : Wi-Fi 6 (802.11ax) with 2x2 MIMO; speeds up to 1.2 Gbps, Simultaneous dual band, Bluetooth 5.2 Sensors : Touch ID, Three-axis gyro, Accelerometer, Barometer, Ambient light sensor Battery : Built-in 28.6-watt-hour rechargeable lithium polymer battery Inclusions : Tablet, Lightning to USB-C Cable, 20W USB-C Power Adapter Warranty : warranty care plan for one year. Repair or Replacement, coverage both parts and labor, from manufacturer's authorized technicians or service centers				
51.	TABLET, DRAWING Features: More Than ¾ Of Tablet Width Is Active Area 133 Electromagnetic Interactions Per Second Between Pen And Tablet Without Requiring A Battery (Pen Speed) 8.8 Mm Thin Tablet Pen Pressure Sensitivity : 4096 Battery-Free Pen Using EMR (Electro-Magnetic Resonance) Technology Bluetooth Connectivity : 4.2 Digital Tolerance : +/- 0.25 Mm Accuracy Reading Height : 7mm Pen Switches: 2 Customizable Expresskeys : 4 Active Area : 10 Inches (Medium) Tablet Density : 100 Lines Per Mm Recognition Of Pen On Tablet Inclusions : Pen tablet medium with Bluetooth, Pressure-sensitive, battery-free Pen 4K, PVC-free USB cable with cable tidy and L-shaped connector, 3 extra standard nibs (located inside pen), Nib removal tool on end of pen, Quick start guide, Regulation sheet, Online User Guide Warranty : 3 Years Extended Protection Plan	1	Unit		
52.	TABLET, WIRELESS DRAWING Pressure Sensitivity : 8,192 levels Active Area : 10 inches x 5.63 inches Resolution : 5,080 LPI Report Rate : Max. 266 RPS Shortcut Keys : 6 Customizable Shortcut Keys Roller Wheel: 1 Power Voltage : 5V Interface Support : USB Certifications : C-TICK/FCC/CE/EAC/NOM/WEEE/KC/RoHS/BIS Inclusions : 1 x Drawing Tablet, 1 x Stylus, 1 x Pen Holder, 1 x Drawing Glove, 8 x Replacement Pen Nibs, 1 x USB Cable, 1 x Green Stopper, 1 x Quick Guide Warranty : 1 year local supplier warranty	5	Unit		
53.	TRANSCEIVER, SFP Transceiver Type : SFP Fiber Media Support : Single-Mode Speed : 1.25 Gbps Distance : 10 km	10	Unit		

	Compliant Standard : IEEE802.3ah 1000BASE-BX-D Connector : Simplex LC connector Single/Bi Direction : Bi-direction Wavelength : Tx: 1550 nm, Rx: 1310 nm Cable Type : Single-mode 9/125 um fiber Power Supply : 3.3 V Hot Pluggable : Yes MSA Compliant : Yes RoHS Compliant: Yes				
54.	UNINTERRUPTED POWER SUPPLY Rated power in W: 650 W, Rated power in VA : 1200 VA , Input Connection Type : IEC 60320 C14 Output connection : 4 x universal, 1 x IEC 60320 C13 , Battery type: Lead-acid battery Mounting support Floor, Network frequency 50/60 Hz +/- 5 Hz auto-sensing Input voltage limits 140 to 300 V 230 V AC, Output frequency 50/60 Hz +/- 1 Hz sync to mains UPS type Line interactive , Wave type: Stepped approximation to a sinewave IP degree of protection: IP20, Battery voltage: 12 V, Battery capacity 9.0 Ah, Battery life 2 to 3 year(s), Surge energy rate 273: J , Mercury free: Yes Warranty: 2 years Local Supplier Warranty	1	Unit		
55.	VOICE RECORDER Specifications: Battery Type : Built-In Lithium Battery Built-In Memory : 4 GB Built-In Microphone : Yes Calendar Search : Yes LCD Backlight : Yes Maximum Files Per Folder : 199 Maximum Files (Total) : 5,000 Files (Including Number Of Folder) PC Connectivity : Yes Playback Format LPCM/MP3/AAC/WMA Recording Format : Linear PCM/MP3 USB Connection Charging : Yes Scene Select : Yes Sync Recording Function: Yes Recording Monitor : Yes FM Radio Recording: Yes VOR : Yes A-B Repeat : Yes Digital Pitch Control (Speed Control) : Yes Divide : Yes Easy Search : Yes Erase : Yes File Copy : Yes Folder Name Change (Without Using PC) : Yes Graphic Equalizer : Yes Move File : Yes Noise Cut : Yes (Clear Voice) Protect : Yes Track Mark : Yes Features - Reduce background noise with Auto Voice Recording - Get a better sound with Auto Music Recording - Capture distant or quiet sounds with S-Microphone - Get to the point with Time Jump - Wider, brighter recording LED - Turn it up with Playback Normalization - See clearly with a larger OLED Display - USB direct connection for quick file transfer	5	Unit		

MicroSD card: Form Factor : microSDXC Capacity : 64GB Bus Speed Mode : UHS-I SDR104 Speed Class : Class 10, V10 Speed Grade : Grade 1 (U1) Transfer Speed : Up to 130MB/s Durability : 10,000 mating cycles Proof Features : Water- proof, Temperature-proof, X-ray-proof, Magnetic-proof, Drop-proof, Wearout-proof Features : Fast and Smooth, Expand and Store big, Fully protected Warranty : 1 year warranty" - Get a better sound with Auto Music Recording - Capture distant or quiet sounds with S- Microphone - Get to the point with Time Jump - Wider, brighter recording LED - Turn it up with Playback Normalization - See clearly with a larger OLED Display - USB direct connection for quick file transfer MicroSD card: Form Factor : microSDXC Capacity : 64GB Bus Speed Mode : UHS-I SDR104 Speed Class : Class 10, V10 Speed Grade : Grade 1 (U1) Transfer Speed : Up to 130MB/s Durability : 10,000 mating cycles Proof Features : Water-proof, Temperature-proof, X- ray-proof, Magnetic-proof, Drop-proof, Wearout- proof Features : Fast and Smooth, Expand and Store big, Fully protected Warranty : 1 year warranty"				
Aggregate Bid Amount				

[Signature]

[Name of Authorized Signatory]

[Position/Title of Authorized Signatory]