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Bhutan Automation & Engineering Limited

(A Joint Venture Company of  **DrukGreen** and )



STANDARD BIDDING DOCUMENT

SUPPLY AND DELIVERY OF COMPUTERS & NETWORK ITEMS.

NIT No. BA0010/2025, dated 08/02/2025

File No. BHUTAN AUTOMATION/Computer/2025/0018

These documents are meant for the exclusive purpose of bidding against this NIT and shall not be transferred, reproduced or otherwise used for purposes other than that for which they are specifically issued.



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NOTICE INVITING TENDER

NIT No. **BA0010/2025**

Dated: 08/02/2025

Bhutan Automation & Engineering Limited (BHUTAN AUTOMATION) invites sealed bid(s) from eligible Bhutanese vendors for the **Supply and Delivery of Computer & Network Items** as per the following Terms and Conditions:

TERMS AND CONDITIONS

1 Scope of Supply

- 1.1 The scope of supply under this invitation shall be as per the Technical Specification and Price Schedule attached to this Bidding Document.
- 1.2 The bidder(s) can obtain further information and clarifications from **Mr. Kinley Tshering, Procurement Assistant @ email kinley.p.tshering@bhutanautomation.com or +975 77607659**, latest by **2 Days** before the date of bid submission.

2 Documents comprising Bid

- 2.1 The bid must be accompanied by the following documents:
 - a) Bid Security
 - b) Valid Trade License/Certificate of Incorporation
 - c) Latest Tax Clearance
 - d) Price Schedule
 - e) Power of Attorney (if applicable)
 - f) Bid Submission Form

3 Bid Price

- 3.1 All prices shall be quoted in **BTN**. The quoted price shall be firm during the entire period of the performance of the contract and shall not be subject to variation on any account unless otherwise specified by the Purchaser in the Bid Documents.
- 3.2 The final place of delivery is **CIP, BHUTAN AUTOMATION, Bjachhog, Chukha Bhutan.**
- 3.3 The bidder(s) may quote for any or all items under this invitation. Each item shall be evaluated, and a contract awarded separately to the firm(s) offering the lowest evaluated price for each item. **(Item Wise Evaluation)**



4 Taxes and Duties

- 4.1 For Goods manufactured outside Bhutan, the Supplier shall bear and pay all applicable taxes, stamp duties, license fees and other similar levies imposed outside Bhutan as applicable in line with the Incoterms. Any domestic taxes, duties and any other levies imposed on import of goods into Bhutan, except TDS, shall be borne and paid by the Purchaser.
- 4.2 For Goods manufactured or supplied by the Suppliers from the Kingdom of Bhutan, the Supplier shall bear all applicable taxes, duties, license fees and other similar levies incurred until delivery of the contracted Goods to the Place of Delivery.
- 4.3 Bidders participating from India and supplying materials and services from within India for bonafide use in the Kingdom of Bhutan shall quote the rates for the items in the Price Schedule exclusive of any effect of Indian Goods and Service Tax (IGST). The IGST on the export of goods and services or both are covered under Zero Rated Supply as per Chapter VII, 16(1) of the INTEGRATED GOODS AND SERVICES TAX ACT, 2017 of India. *(Not applicable for this contract)*

5 Bid Validity

- 5.1 The bid shall be valid for **30 days from the date of the bid submission, i.e. up to 24/03/2025** from the date of submission of the bid. In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may solicit the Bidder's consent to an extension of the bid validity period. The request and responses shall be made in writing. A bid valid for a shorter period shall be considered non-responsive.

6 Bid Security

- 6.1 The bid shall be accompanied by the bid security of **BTN. 13,500.00/-** in the form of Cash Warrant/Unconditional Bank Guarantee/Banker Cheque/Demand draft in the name of BHUTAN AUTOMATION, issued by the Financial Institution enforceable in any Banks in Bhutan.
- The Bid security shall be valid up to **24/05/2025**
 - The Bid Security is to be submitted as a part of the Bid.
 - Any Bid not accompanied by bid security of adequate value and validity shall be rejected by the Purchaser as non-responsive.
- 6.2 The bid security shall be forfeited in the following cases:
- If the Bidder withdraws the bid after Bid opening during the period of Bid validity.
 - If the Bidder does not accept the correction of the Bid price.
 - In the case of a successful bidder, if the bidder fails within the specified time limit to sign the Contract or furnish Performance Security.



7 Submission of Bids

- 7.1 The bidder(s) shall submit one original bid and clearly mark ORIGINAL. The bid including all documents should be duly filled, signed and sealed in an envelope and addressed to and delivered at the following address.

Name: **Kinley Tshering/Yangchen Lhamo**

Designation: **Assistant Procurement Officer**

Address: **Bhutan Automation & Engineering Ltd, Chhukha**

Telephone: +975-77607659/+975 17 73 88 46

E-mail: kinley.p.tshering@bhutanautomation.com

The bid shall contain the NIT reference and date including the date of opening. The same should be clearly mentioned on the outer envelope.

- 7.2 Alternatively, bid including all documents duly filled, signed and sealed/stamped may be submitted electronically with pass word protection as follows: *The bid shall be sent to kinley.p.tshering@bhutanautomation.com on or before opening date mentioned in NIT and Password to same mail ID 30 minute before the bid opening time.*
- 7.3 The deadline for receipt of your bid(s) by the Purchaser shall be **25/02/2025 at 15:00 hrs (BST)**
- 7.4 The Bidder shall submit the Bid Submission Form using the Form attached in this Bidding Document. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled with the information requested.
- 7.5 A bid in which the Bid Submission Form is not duly filled, signed and sealed by the bidder shall be rejected.

8 Bid Opening

- 8.1 The bid(s) will be opened in the presence of bidders or their authorized representatives who choose (not more than two representatives) to attend on **25/02/2025 at 15:30hrs. (BST), BHUTAN AUTOMATION**. In case, due date of the opening of the bid falls on a non-working day, the opening of the bid shall be on the next working day at the same time.

9 Evaluation of Bid

- 9.1 Bids determined to be substantially responsive to the technical specifications and commercial conditions shall be evaluated by comparison of their quoted prices. In evaluating the bids, the Purchaser shall determine for each bids the evaluated price by adjusting the priced bid by making any correction for any arithmetical errors as follows;
- where there is a discrepancy between amounts in figures and in words, the amount in words shall govern;



- b) where there is discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted shall govern unless in the opinion of the Purchaser there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line-item total as quoted shall govern, and the unit rate shall be corrected.

9.2 To assist in the evaluation and comparison of the Bids, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to the request by the Purchaser shall not be considered.

10 Right to Accept or Reject Bids

10.1 The Purchaser is not bound to accept the lowest bid and reserves the right to accept or reject any or all the bids without assigning any reason whatsoever.

11 Quantity Variation

11.1 Depending on the final requirement, at the time of the award of the Contract, the Purchaser may increase or decrease the quantities by twenty five percent (25%) of the total quantity of the item without any change in the unit prices or other terms and conditions of the Bid and the Bidding Document.

12 Award of Contract

12.1 The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated Bid meeting the specifications. The Purchaser shall issue Notification of Award/Purchase Order to the successful Bidder. The successful bidder shall sign a contract as per the format attached to this Bidding Document. Until a formal Contract is executed, the Notification of Award shall constitute a binding Contract.

13 Delivery Schedule

13.1 The supply of the Goods and related service shall be completed within **30** days from the date of issue of the Notification of Award/Purchase Order.

14 Performance Security

14.1 The Supplier shall be required to furnish Performance Security of 10% of the contract price in the form of cash warrant, demand draft or unconditional Bank Guarantee in the name of **Bhutan Automation & Engineering Limited** issued by a financial institution enforceable in any Banks in Bhutan, which shall be furnished upon issuance of notification of the award. Performance Security shall be valid till the end of the warranty period and shall be returned after the end of the warranty period. Under exceptional circumstances, if submission of Performance Security in the above forms is not possible, the Supplier shall be allowed to deposit Performance Security in the form of cash deposit through bank transfer.



15 Retention Money

- 15.1 When the value evaluated contract is up to BTN. 0.50 million, 10% of payment shall be retained as a security deposit and shall be returned at the end of the warranty period.
- 15.2 Retention money will not be applicable for the item without a warranty period. However, in the case of part supply, 10% of the invoiced amount will be kept as retention money until the execution of full supply of goods is in good condition.

16 Liquidated Damage

- 16.1 If the Supplier fails to deliver any or all of the Goods by the date(s) of delivery or fails to perform the related Services within the period specified in the Contract/Purchase Order, the Purchaser shall deduct Liquidated Damages at the rate as follows per day for each day of delay to a maximum of 10% (Ten) percentage of the total value of delayed goods or unperformed services.

Delivery Period	LD% Applicable
<120 days	0.30%
120 to 149 days	0.25%
150 to 199 days	0.20%
200 to 299 days	0.15%
300 to 599 days	0.15%
>599 days	0.05%

In case of a delay in the supply of an item which can be made in parts, but the item cannot be put to use unless the supplies are complete, the liquidated damage shall be levied up to the maximum 10% of the Contract Price.

17 Force Majeure

- 17.1 The Supplier shall not be liable for forfeiture of its Performance Security/Retention Money, liquidated damages or termination for default if and to the extent that it's delays in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.



- 17.2 For purposes of this Clause, “Force Majeure” means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, war, civil insurrection, fire, floods, epidemics, earthquakes, quarantine restrictions and freight embargoes.
- 17.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

18 Payment Terms

18.1 The Contract Price, including any advance payments, if applicable, shall be paid as under:

- *100% payment shall be made within 30 (Thirty) days from the date of receipt of materials and complete submission of shipping/delivery documents through bank transfer or RTGS. Bank charges for payment, if any, shall be borne by the Purchaser.*

Payments shall be made promptly by the Purchaser, no later than Thirty (30) days after the receipt of invoices and documents, provided that the documents are compliant with all the requirements of the Purchaser. In case of incomplete/ non-compliant invoices and documents, the Purchaser shall ask the Supplier to re-submit the invoices and documents with full compliance. The purchaser cannot be held responsible for delay in payment resulting due to incomplete documents submitted by suppliers.

18.2 At the time of release of payment, Tax Deducted at Source [TDS] from the gross amount of bills shall be as per the Income Tax Act of Bhutan. The Purchaser shall furnish the necessary TDS Certificate to the Suppliers.

19 Warranty Period

- 19.1 The Supplier shall provide the warranty for a period of **365 days**, for the goods to be supplied and confirm that if any faults are detected within the warranty period in the supplied/installed Goods, the Supplier shall be bound to rectify the fault or replace the Goods as the case may be. The performance security shall be used to cover the cost of supplies not delivered or defective items not replaced or rectified.
- 19.2 Any goods found defective during the warranty period shall be replaced/repared by the supplier at his cost. If the supplier fails to rectify and or replace the defective goods, the Purchaser shall do it at the cost of the supplier.



20 Termination

- 20.1 The Purchaser may, by written notice, terminate the Purchase Order or Contract [if applicable] in whole or in part at any time for its convenience under following cases:
- If the Supplier fails to perform any other terms and conditions specified with the Purchase Order/ Contract, or exceeds the maximum amount of Liquidated Damages; or
 - If the Supplier fails to perform any other obligation(s) under the Purchase Order/Contract, and if the Supplier does not take any remedial action within a period of **30 days** after receipt of a notice of default from the Purchaser specifying the nature of the default(s); or
 - If the Supplier, in the judgment of the Purchaser, has engaged in any corrupt or fraudulent practices in competing for or in executing the tasks under this Purchase Order.

21 Governing Law

- 21.1 The Contract shall be governed by and interpreted in accordance with the Laws of the Kingdom of Bhutan.

22 Dispute Resolution

- 22.1 The Purchaser and the Supplier shall make every effort to resolve this amicably by direct informal negotiation of any disagreement or dispute arising between them under or in connection with the contract. If the parties fail to resolve such a dispute or difference by mutual consultation within 30 days from commencement of such consultation, either party may require that the dispute be referred for resolution to the formal mechanisms as specified hereunder.
- 22.2 Any dispute, controversy or claim arising out of or relating to this contract, or breach, termination or invalidity thereof, that could not be resolved through amicable negotiation, shall be settled by arbitration in accordance with the Alternative Dispute Resolution Act of Bhutan 2013 for Bhutanese Supplier and the United Nations Commission on International Trade Law [UNCITRAL] Arbitration Rules of 1976 for International Supplier.

23 Inspection & Test

All materials manufactured by the Supplier himself and/or his sub-Contractor shall be subject to inspection, check and/or test by the purchaser or his authorized representative at all stages and places, before, during and after the manufacture. All these tests shall be carried out in the presence of Supplier and/or his authorized representative. Supplier shall notify BHUTAN AUTOMATION at least 10 days in advance when the material is ready for inspection / dispatch along with the draft copy of the invoice for the verification. Only after inspection verification of the material and invoice, shall the dispatch clearance be provided. If upon delivery the material does not meet the specifications, the materials shall be rejected and returned to the supplier for repairs/modifications etc. or for replacement. In such cases all expenses including the to and for freight, repacking charges etc. shall be to the account of the Supplier. The Supplier is required to furnish the Purchaser with a report detailing the outcomes of any tests and/or inspections conducted, in addition to the delivery paperwork and invoice



Please find the price Schedule at the end of the document

TECHNICAL SPECIFICATION OF THE GOODS REQUIRED (if any)

SN	Item	Description & Details (minimum specifications of goods to be supplied)
1		
2		
3		

You may add up the rows at your convenience as per the number of items

The Supplier is required to mention make/model (as applicable) of the goods to be supplied and must attach the appropriate original printed literature/brochures for the various items listed.

Signature of Supplier:	Supplier's Official Stamp
Name of Supplier:	
Date:	



BID SUBMISSION FORM

[The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: **25/02/2025**

Tender No.: **BA0010/2025**

To

***Bhutan Automation & Engineering Limited.
Chhukha: Bhutan***

Dear Sir,

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda number..... *[insert the number and date of issue of each addendum]*;
- (b) We offer to supply in conformity with the Bidding Documents and in accordance with the Schedule of Supply the following Goods and Related Services: *[insert a brief description of the Goods and Related Services]*;
- (c) The total price of our Bid, excluding any discounts offered in item is: *[insert the Bid Price in words and figures, indicating the various amounts and their respective currencies]*;
- (d) The discounts offered and the methodologies for their application are:

Discounts. If our Bid is accepted, the following discounts shall apply: *[Specify in detail each discount offered and the specific item of the Schedule of Supply to which it applies.]*

Methodology of Application of the Discounts. The discounts shall be applied using the following methodology: *[Specify in detail the methodology that shall be used to apply the discounts]*;

- (e) Our Bid shall be valid for a period of *[insert number]* from the date fixed for the Bid submission deadline and it shall remain binding upon us and may be accepted at any time before expiry of that period;
- (f) If our Bid is accepted, we commit to provide a Performance Security in accordance with Clause 15 for the due performance of the Contract;
- (g) We, including any subcontractors or suppliers for any part of the Contract, have nationality from eligible countries, viz: *[insert the nationality of the Bidder, including that of all parties that comprise the Bidder if the Bidder is a JV/ Consortium, and the nationality each subcontractor and supplier]*
- (h) We have no conflict of interest;
- (i) Our firm, its affiliates or subsidiaries - including any subcontractors or suppliers for any part of the contract - has not been declared ineligible by the Purchaser under the laws or official regulations of Bhutan;
- (j) We have read the terms and conditions carefully, understood and agree to comply with all the clauses which are mentioned therein. In case of any breach of any condition on our part, we



shall be liable for actions as per terms and conditions of the Contract;

- (k) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (l) We understand that you are not bound to accept the lowest evaluated Bid or any other Bid that you may receive; and
- (m) We accept the Vendor Performance Management System.

Thanking you.

Yours sincerely,

Signed: *[insert signature of person whose name and capacity are shown]*

In the capacity of *[insert legal capacity of person signing the Bid Submission Form]*

Name: *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____ *[insert date of signing]*



CONTRACT AGREEMENT

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS CONTRACT AGREEMENT made the *[insert number]* day of *[insert month]*, *[insert year]*,

BETWEEN

- 1) *[insert complete name of Purchaser]*, a *[insert description of type of legal entity, for example, an agency of the Ministry of.... of the Government of Bhutan, or corporation incorporated under the laws of Bhutan]* and having its principal place of business at *[insert address of Purchaser]* (hereinafter called “the Purchaser”), and
- 2) *[insert name of Supplier]*, a corporation incorporated under the laws of *[insert: country of Supplier]* and having its principal place of business at *[insert: address of Supplier]* (hereinafter called “the Supplier”).

WHEREAS the Purchaser invited Bids for certain Goods and ancillary services, viz., *[insert brief description of Goods and Services]* and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of *[insert Contract Price in words and figures, expressed in the Contract currency(ies)]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1) In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- 2) The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract, viz.:
 - a) This Contract Agreement;
 - b) Terms and Conditions of the PO;
 - c) Technical Requirements (including Price Schedule and Technical Specifications);
 - d) The Supplier’s Bid and original Price Schedules;
 - e) The Purchaser’s Notification of Award of Contract;
 - f) The Performance Security *(where applicable)*;
 - g) *[insert here any other document(s) forming part of the Contract]*
- 3) This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.
- 4) In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.



- 5) The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Related Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Bhutan on the day, month and year indicated above.



For and on behalf of the Purchaser Signed:
in the capacity of *[Procurement Assistant]*

in the presence of
in the capacity of *[Procurement Assistant]*

A handwritten signature in blue ink, appearing to be 'G. Gyedu', written over a light blue grid background.

For and on behalf of the Supplier
Signed: *[insert signature of authorized representative(s) of the Supplier]*
in the capacity of *[insert title or other appropriate designation]*

in the presence of *[insert signature]*
[insert identification of official witness]



PRICE SCHEDULE

S. N	Materials Group/Code	DESCRIPTION	QTY. REQD	UOM	UNIT RATE		TOTAL AMOUNT	BRAND/ MAKE	COUNTRY OR ORIGIN
					IN FIGURE	IN WORD			
1	ITAEAURM 5000001077	Dell Computer Precision 5860 Tower <i>(Technical Specification as attached Annexure I)</i>	2	NO					
2	ITAEAURM 5000001078	Dell Monitor Screen U2422H <i>(Technical Specification as attached Annexure II)</i>	2	NO					
3	ITAEAURM 5000001079	UPS 3KVA <i>(Technical Specification as attached Annexure III)</i>	2	NO					
4	ITAEAURM 5000001080	Printer HP Laser Jet Pro <i>(Technical Specification as attached Annexure IV)</i>	2	NO					
Total Amount in word:									



Annexures:

I. Technical Specification for Client Computer

SL.NO	Description	Specification
1	Make	Dell
2	Model	Precision 5860 Tower
3	Processor	Intel® Xeon® W3-2423 , 15MB cache, 6 cores, 2.1GHz to 4.2GHz
4	RAM	16GB, 1 x 16GB, DDR5 ECC, 1 DPC, 4800MHz
5	Hard Disk	M.2 2280, 1TB, PCIe NVMe Gen4 x4, SSD, Class 40
6	Graphics	NVIDIA® T400, 4GB GDDR6
7	I/O Ports	<p>Front:</p> <ul style="list-style-type: none"> 1-USB 3.2 Gen 1 Type A 1 -USB 3.2 Gen 2 Type-C Port with PowerShare 1 -USB 3.2 Gen 2-Type-C Port Universal audio port SD-card slot <p>Rear: HDMI and DP display port.</p> <ul style="list-style-type: none"> 1- USB 3.2 Gen 2 Type-C ports 1- USB 3.2 Gen 1 ports USB 3.2 Gen 1 port with Smart Power On RJ45 Ethernet port Line-out port Serial port (optional) 2- PS2 ports (optional)
8	Operating System	Windows 11 Pro
9	Power Supply	220-230 VAC
10	Antivirus	All the computers are activated with McAfee Antivirus Software. Valid up to 1 year after the commissioning.
1	Other software	Microsoft Office Professional 2021 (32 bit System) (Perpetual License)
12	Ambient Temperature	Storage: -20°C to 60°C (32°F to 104°F) Operation: 0°C to 40°C (-4°F to 140°F)
13	Audio and Speakers	Internal speakers
14	Add-In Cards	Intel i225 2.5Gb Ethernet Adapter
15	Quantity	2 set

II. Technical Specification for Video Display Unit (Monitor)

Sl. No	Description	Specification
1	Make	Dell
2	Model	Dell U2422H
3	Dimension	604*527*296 mm
4	Viewable size	24''
5	Display Type	AH-IPS, GB-r LED, 2560x1440 pixels
6	Viewing angles (H/V)	178* / 178*
7	Native Resolution	1920*1080 pixels Full HD/1080p
8	Connectivity	1*USB 3.2 (Type-C; Gen 2; Upstream; data Only) 1*USB 3.2 (Type-C; downstream; 15W) 3*USB 3.2 (Type-A; Gen 2; Downstream) 1*HDMI 1.4 1*DisplayPort 1.4 (out with MST) 1*DisplayPort 1.4 1*3.5 mm Audio Out
9	Power Supply	220-240 VAC, (50/60)Hz
10	Power Consumption	63 W Maximum
11	Colour Support	16777216 colours 24bits
12	Environmental Parameters	Humidity Range Operating: 10-80% (non-considering)
		Max & Min Temp: 0-35 °C
13	Quantity	2 Set

III. Technical Specification for UPS

Sl. No	Description	Specification
1	Model	SRC3000XLI
2	Make	APC
3	Run Time for load	2100W
4	Min-Max Load	210-2100 W
5	Max. Capacity Used	100%
6	Main Input Voltage	230V
7	Other Input Voltage	220V
8	Main Output Voltage	230V
9	Other Output Voltage	220V
10	Rated power in W	2100
11	Rated power in VA	3000VA
12	Input Connection Type	IEC 60320 C20
13	Output Connection Type	8 IEC 60320 C13
14	Output Connection Type	Hard wire 3-wire (H N +E) 1
15	Number of rack Unit	4U
16	Cable Length	2.4m
17	Provided equipment	CD with software Smart UPS signalling RS-232 cable User Manual
18	Battery Type	Lead-acid battery

19	Number of batteries filled slots	1
20	Number of battery free slots	1
21	Battery recharge time	2 h
22	Battery charger power	344W rated
23	Battery Life	3-5 Years
24	Extended runtime	1
25	UPS type	Double conversion online
26	Redundant	No
27	Color	Black
28	Dimension	(175*432*457) mm (HWD)
29	Net Weight	34kg
30	Mounting Location	Front
31	Mounting Preference	Lower
32	Mounting Mode	Rack-mount with kit
33	USB compatible	No
34	Network Frequency	50/60Hz +/- 5Hz auto sensing
35	Input Voltage Limits	160-280V
36	Switching Current Capacity	20A
37	Maximum Configurable Power in VA and W	3000VA, 2100W

38	Output frequency	50/60Hz +/-3 Hz user adjustable +/- 0.1 Hz sync to mains
39	Wave Type	Sine wave
40	Efficiency	89% (full load)
41	Harmonic Distortion	Less than 3%
42	Crest Factor	3 : 1
43	Bypass type	Built in bypass
44	Ambient Air temperature for operation	0-40°C
45	Relative Humidity	0-95%
46	Operating Altitude	0-10000 ft
47	Acoustic level	45dBA
48	Heat Dissipation	652 Btu/h
49	Free Slots	1
50	Alarm	Alarm when on battery: distinctive low battery alarm: overload continuous tone alarm
51	Emergency Power off	Yes
52	Accessories	Powershute Serial shutdown software
53	Noise Suppression	Full time multi-pole noise filtering: 0.3% IEEE surge let-through: Zero clamping response time: meets UL 1449
54	Data line protection	RJ45 modem/fax protection (four wire dual line)
55	Quantity	2 Nos

IV. Technical Specification for Printer

Sl. No	Description	Specification
1	Make	HP
2	Type	HP Laser Jet Pro P1108 Plus
3	Dimensions (mm)	Maximum Dimension: 349Wx436Hx298D
4	Number of Print Cartridge	1 (Black)
5	Print Speed Black	Up to 18 ppm (ISO/IEC 24734)
6	Print Quality Black (best)	Black: Up to 600 * 600 dpi Color
7	First Page out (ready)	As fast as 9.7sec (ISO/IEC 17629)
8	Duty Cycle (monthly, A4)	Up to 5000 pages
9	Processor Speed	1 GHz
10	Display	None
11	Print Language	PCLm, PWG, PCLMs
12	Wireless capability	No
13	Mobile printing capability	USB Only
14	Minimum System Requirements	Microsoft® Windows® 11, 10: 32-bit or 64-bit, 2 GB available hard disk space, Internet connection, USB port.
15	Compatible Operating Systems	Windows 11; Windows 10; Linux
16	Media sizes, custom	150-sheet input tray: 76 x 127 to 216 x 356 mm
17	Paper handling input, standard	150-sheet input tray
18	Paper handling output, standard	100-sheet output bin
19	Maximum output capacity (sheets)	Up to 100 sheets
20	Duplex printing	Manual (driver support provided)
21	Media types	Paper (laser, plain, rough, vellum), envelopes, labels, cardstock, transparencies, postcards, HP EcoFFICIENT
22	Media weight, supported	60 to 163 g/m ²
23	Power	220-volt input voltage: 220 to 240 VAC (+/- 10%), 50 Hz (+/- 2 Hz), 6 A

24	Power consumption	334 watts (active printing), 3.0 watts (ready), 0.46 watts (sleep), 0.46 watts (Auto Off/Wake on USB, enabled at shipment), 0.06 watts (Auto-off/Manual-on), 0.06 (Manual Off) Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Power consumption values typically based on measurement of 220V device.
25	Weight	5.2 kg
26	Acoustic power emissions (ready)	Inaudible Configuration tested: simplex printing, A4 paper at an average of 18 ppm
27	Quantity	2