

Tender No.: e-Tender/Technical Services/Laptop/2020-21/17 Dated 11.03.2021.

Tender for Supply of Laptop

ADGP, Technical Services Wing, Punjab Police invites online bids (two bid system) for the purchase of following equipment: -

Sr. No.	Name of the equipment	Qty	Earnest Money (In Rs)	Tender fee
1.	Laptop i-7 with Touch Display	01	35000	500
2.	Laptop i-7	09		
3.	Laptop i-5	01		

Note: - Required Technical Specifications of above equipment is specified in Annexure-A.

1. Important Dates and other conditions: -

- | | | | |
|------|--------------------------|---|------------------------------|
| i) | Publication of Tender | : | 11.03.2021 |
| ii) | Tender Closing Date | : | 25.03.2021 |
| iii) | Opening of Technical Bid | : | 25.03.2021 |
| iv) | Opening of Financial Bid | : | To be informed subsequently. |

- a. For participating in the above e-Tendering process, the bidder shall have to get themselves registered with **www.eproc.punjab.gov.in** and get **user ID and Password**. Class 3 digital signature is mandatory to participate in the e-Tendering process. For any clarification/difficulty regarding e-Tendering process, bidders may contact NIC helpdesk No. 0172-2970236/2970284.
- b. A copy of Tender document can be downloaded from eproc.punjab.gov.in. The Bidder shall submit the Tender fee of Rs. 500/- (Rupees Five Hundred Only) through online/electronic mode as provided on eproc.punjab.gov.in.
- c. The Tender is floated through the e-Tendering process and only e-bids shall be accepted. Bids are invited in two bid systems, i.e. Technical Bid and Financial Bid.
- d. Bidder shall deposit a processing fee as mentioned in the above portal through online mode provided.
- e. The Tender shall be uploaded on the www.eproc.punjab.gov.in. For any technical help, please contact on numbers provided on the said website.
- f. Punjab Police reserve the right to vary the quantity of material at the time of placement of Supply Order/Signing of Contract.

- g. Punjab Police reserve the right to place additional orders at the same rates upto 12 months of placing of supply order.
- h. Punjab Police reserve the right to accept any bid and to annul the bid process and reject all bids at any time, without assigning any reason, prior to placement of supply order/ signing of contract, without thereby incurring any liability to the affected Bidder(s) or any obligation to inform the affected Bidder(s) of the grounds for the Punjab Police's action.
- i. The Bidder shall mention the unit price including GST (as applicable)/any other applicable Tax or Duty and/or any other incidental expenses as per the format of financial bid provided on the **website www.eproc.punjab.gov.in**. The bidder shall be selected on the basis of total price inclusive any taxes and charges, if any.
- j. Bidders are advised to study this Tender document carefully before participating. It shall be deemed that submission of Bid by the bidder has been done after their careful study and examination of the Tender document with full understanding to its implications.

2. Nodal Officer

The Nodal officer for this Tender is as below:-

Sh. Tarvinder Singh, PPS,
DSP Modernization, Technical Services, Punjab, Chandigarh
Room No.124, Ground Floor
Punjab Police Headquarters,
Sector- 9-A, Chandigarh.
Contact no. 0172-2748100-06 Extn 2136
Mobile No. 94176-32475

Note: For any query, please contact from 9:30 A.M to 4:30 P.M on working days.

3. Scope of Work

The selected bidder would be required to supply the required number of equipment as per the following table:

SR	Name of Equipment	Tentative Quantity
1.	Laptop i-7 with Touch Display	01
2.	Laptop i-7	09
3.	Laptop i-5	01

Note-1 :- The quantity may increase or decrease as per requirement or any other reason (s).

Note-2 :- Required Technical Specifications of above item are specified in Annexure-A.

- (i) **Equipment Delivery:-** The selected bidder shall ensure the free on-site delivery of the complete order at the I.T Stores, Level-1, Punjab Police Headquarters, Sector-9 Chandigarh.
- (ii) **Warranty:-** Selected bidder shall supply equipment along with the warranty against manufacturing defects.

4. Eligibility Criteria for Bidders and documents required to be submitted along with Technical Bid.

- A. This Tender is open to all firms/companies registered in India.
- B. The OEM of the equipment should be registered in India since last 10 years.
- C. The bidder must be in the business of supplying and maintenance of same category equipment for at-least last three years. The bidder shall upload relevant documentary proof regarding the same along with the technical bid.
- D. The bidder or its OEM should have supplied same or similar category products for at least 50% of bid value, in last two years before the bid opening date to any State/Central Government department/agency or any Government company/PSU or any State/Central Government PSU. The bidder must attach at least one supply order alongwith Technical/financial bid.
- E. In case the bidder is not the OEM of the equipment, the bidder must be authorized to bid for the equipment by the OEM. Bidder shall upload an authorization letter from the OEM, along with the technical bid.
- F. Average annual turnover during the last three financial years (ending 31st March 2020) of the bidding company must be at least Rupees 5 crore. Bidder shall upload the copy of the Balance Sheet and Profit & Loss Accounts for the last three financial years or a certificate from the Chartered Accountant certifying the year wise turnover from the related equipment for the last three financial years (ending 31st March 2020) along with technical bid.
- G. Average annual turnover during the last three financial years (ending 31st March 2020) of the concerned OEM must be at least Rupees 100 crore. Bidder shall upload the copy of the Balance Sheet and Profit & Loss Accounts for the last three financial years or a certificate from the Chartered Accountant certifying the year wise turnover for the last three financial years (ending 31st March 2020) along with technical bid.
- H. Relaxation of Norms in Public procurement for Start-ups based in Punjab shall be given as per the Government of Punjab, Department of Industries and Commerce, (Controller of Stores) Notification No. COS/Start-ups/2019/11288 dated 16.08.2019 and No. COS/PPO-2019/11726 dated 03.09.2019.

- I. Bidder must not be blacklisted by any State/ Central Government, PSU or Government Company. The Bidder must attach an affidavit undertaking the same along with the Technical Bid.
- J. The Bidder is required to submit an undertaking, that the price quoted by them are not higher than those quoted to GeM, other State/ Central Government/PSUs or Government Company during the current financial year. This undertaking shall be uploaded along with Technical Bid.
- K. The OEM should have well-staffed and functional support centres in major cities in the State. The bidder will have to submit supporting documents regarding the same with the bid.
- L. The bidder will have to submit/upload Technical Data sheet of the product with the bid for verification of Technical Specifications.
- M. The bidder will have to submit/upload OEM warranty declaration regarding the offered product with the bid.

5. Earnest Money Deposit (EMD)

The Bidders shall submit the Earnest Money Deposit (EMD), through online/electronic mode as provided on eproc.punjab.gov.in. No interest shall be payable by Punjab Police on the Earnest Money deposited by Bidder.

6. Performance Bank Guarantee

The selected bidder shall submit a Performance Bank Guarantee (PBG) amounting to 5 % of the contract value of Goods to be supplied in favour of ADGP/Technical Services, Punjab, Chandigarh within Seven days of the award of the contract/issue of supply order. This PBG will be released after expiry of warranty period.

7. Delivery

Free on-site delivery of the equipment shall be made by the selected bidder at I.T Stores, Level-1, Punjab Police Headquarters, Sector-9 Chandigarh.

8. Period of Validity of Offer

Offer shall remain valid for 365 days, from the last date of submission of the bids. An offer valid for a shorter period may be rejected by Punjab Police as non-responsive.

9. Language of the Bid Proposal

The bidder shall submit documents pertaining to bid, supporting documents and all correspondence etc. in English or Punjabi.

10. Amendment of Tender Document

The amendments, if any, in any part of the Tender Document shall be uploaded in form of corrigendum on website: www.eproc.punjab.gov.in and will also be available on websites www.punjabpolice.gov.in and www.punjab.gov.in. All prospective bidders are advised to check these websites from time to time for any updates.

11. Withdrawal of Bid

No bid or any part of it will be permitted to be withdrawn/changed subsequent to the deadline for the submission of the bids.

12. Evaluation of Bids

The duly formed Technical committee will technically evaluate the bids of all as per the following schedule/pattern: -

- (A) Conditional bids shall be summarily rejected.
- (B) The **Technical bids** shall be evaluated as per the following:
 - (B.1) Compliance to eligibility criteria: Compliance to the eligibility criteria and supporting documents specified in this Tender document. Non-compliance of ANY eligibility criteria shall result in dis-qualification of the bid.
 - (B.2) Compliance to the equipment specifications specified in this Tender: The bids found eligible according to the eligibility criteria would then be checked for compliance to the equipment's technical specifications mentioned in this Tender document. Non-compliance of any required specification shall result in dis-qualification of the bid.
 - (B.3) Live demo of the proposed equipment: The bidders would be required to give a live demonstration of the equipment (if required by Punjab Police) to the Technical Committee in Room No. 118, Level-1, PPHQ, Sector -9, Chandigarh.
- (C) The Tender Committee, on the recommendation of Technical Committee, may disqualify any bid if the proposed equipment fails to meet the requirements on any one or more of the above-mentioned parameters.
- (D) The Financial Bids of only the technically qualified bidders would be opened by the Tender Committee. The venue, date and time of the opening of the Financial Bids shall be notified separately. The bid with the lowest financial offer shall be awarded the contract and the bidder shall be selected on the basis of total price inclusive of all applicable taxes and charges, if any.

13. General criteria for Disqualification

Punjab Police will have the discretion to disqualify any bid(s) if: -

- A. The Bidder fails to provide the information required in the Bid Proposal or any additional information as requested by Punjab Police during the Tendering process.

- B. The Bidder not fulfilling any terms & conditions specified in Tender document.
- C. Material inconsistencies in the information uploaded.
- D. Misrepresentations in the Bid Proposal or any supporting documentation.
- E. Incomplete or conditional bids that do not fulfil all or any of the conditions specified in this Tender document and/or bids not quoted as per the Tender document.
- F. Use of unfair means.
- G. Bids found unsigned, bids signed by unauthorized person and unsigned corrections in the bids.
- H. Bid offer with price variation clause.
- I. Price quoted in the Technical Bid.
- J. Non-compliance of any requirement of this Tender document.

14. Acceptance of the Bid

Punjab Police reserve the right to accept any bid, reject all or any bids and to annul the Tendering process at any time without assigning any reason, thereby without incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds of the action.

15. Cross Checking

Punjab Police reserve the right to contact and verify information, references and data uploaded by the bidder in the bid.

16. Cost involved in Tendering

The Bidder shall bear all costs associated with the preparation and submission of their Bid, including the cost of live demonstration of the proposed model of the equipment. Punjab Police will in no case be responsible or liable for any costs.

17. Return of EMD to unselected bidders

The Earnest Money Deposit (EMD) of the disqualified / unselected bidder(s) will be returned back to their account (from which the amount was paid) automatically.

18. Right to vary quantities at the time of award

Punjab Police reserve the right to vary the quantities and/or split the order among the selected bidder(s) and re-fix a delivery schedule. Punjab Police also reserve the right to order additional quantities during the contract period at a price not more than the unit price quoted in the contract/supply order.

19. Additional Information/Clarification

Punjab Police reserve the right to seek any additional information and samples, as they may deem necessary to evaluate the bid. Bidders shall provide such additional information or clarification as sought by Punjab Police within the provided time frame.

20. Bidder's obligation to carefully examine the Tender document

The bidder is expected to examine all the instructions, forms, terms & conditions and specifications in the Tender document carefully. Failure to furnish all the information required by the Tender document may result in rejection of the bid.

21. Prices

- A. The prices quoted in financial bid should be in **Indian Rupees** only.
- B. Price will be calculated as total price of the equipment inclusive of GST and any other applicable Taxes/Duties
- C. The prices quoted shall remain constant throughout the period of contract and shall not be subject to any upward modification whatsoever.
- D. A bid uploaded with a variable price will be treated as non-responsive and would be rejected.
- E. No upward revision shall be allowed in case of any fluctuation in the foreign currency.
- F. Punjab Police reserves the right to place additional orders at the same rates upto 12 months of placing of supply order.
- G. Bidder should certify that they have read and understood the terms and conditions applicable to the bidder and they undertake to supply as per these terms and conditions.
- H. The bid offer shall remain valid for 365 days, from the last date of submission of the bids. A bid offer valid for a shorter period may be rejected by Punjab Police as non-responsive.

22. Delivery SLA and penalty on SLA

A. Delivery SLA and Penalties

- (i) Supply of the equipment shall be completed within 45 days from the date of placement of supply order at the site as mentioned hereinbefore in the Tender document.
- (ii) If the selected bidder fails to complete the task within the delivery period prescribed above, the delayed consignment will be subject to 2% penalty per consignment per month or part thereof recoverable on the value of stores supplied.
- (iii) In case of non-payment of penalty by the vendor, recovery will be made from his dues or Performance Bank Guarantee. Provided that:
 - a. No recovery of penalty will be made, if Punjab Police accept the delayed completion of task and decide that the delay was due to reasons beyond the control of the bidder.
 - b. On the failure of the selected bidder to complete the task within the stipulated period, ADGP/Technical Services or authority authorized by him/her can affect the Risk purchase. The said purchase at the cost of selected bidder will be made within 6 months from technically pre-qualified bidders who have participated in the bid or after inviting short-term Tenders. The excess cost thus incurred will be recovered from the selected bidder from his pending bills or Earnest Money / Performance Bank Guarantee or through court of law. This procedure will be adopted after serving a registered notice to the selected bidder to seek his explanation within 15 days and in the event of the selected bidder failing to reply or being unable to explain up to the satisfaction of ADGP/Technical Services.

- (iv) Where a part of consignment is rejected by Punjab Police subsequent to the inspection, the supplier will re-offer the material for inspection within 14 days from the date of issue of rejection note, after removing the defects. Any delay beyond the period of 14 days will invite a penalty @ 2% per month or a part thereof.
- (v) The unexcused delay in the completion of task by the selected bidder in the prescribed delivery period may render him liable to any or all of the following penalties: -
- a. The penalty as mentioned in this Tender document.
 - b. Forfeiture of earnest money/ PBG/Security Deposit.
 - c. Black listing or debarring from participating in any Tender released by Punjab Government in future.
 - d. Technical Services Wing of Punjab Police may initiate the risk purchase mechanism as specified in this Tender.

23. Warranty and Penalties

- A. During the warranty period, the bidder would be required to address the complaints within 24 hours.
- B. If the complaint is not addressed within the stipulated period of 48 hours, a penalty upto @ 0.05% of the total contract value per day will be levied on the bidder.
- C. If, however, the complaint is not addressed within 5 days period, a penalty upto @ 0.1% of the total contract value will be levied on per day basis, after the expiry of 5 days.
- D. No recovery of penalty will be made, if Technical Services Wing of Punjab Police accepts the delayed completion of task and decides that the delay was due to reasons beyond the control of the bidder.

24. Responsibilities during Warranty period

- A. It shall be the responsibility of the selected bidder to effect necessary repairs and maintenance of equipment as and when required, during the contract period, otherwise it shall be treated as non-performance on the part of the selected bidder and penalty as mentioned in this Tender document shall be invoked.
- B. The Performance Bank Guarantee shall be kept by Technical Services wing of Punjab Police as a security during the three-year warranty period. Penalty on SLA shall be deducted from the Dues/ PBG.

25. Inspection/Tests of the Equipment

- A. The inspection of the equipment may be carried out by Technical Services Wing of Punjab Police who shall have the power to inspect/verify the equipment supplied as per the supply order at any time before, during or after commissioning and to reject the same or any part or portion, in case of non-compliance of the supply order/contract specifications.

- B. The inspection of the stores to be supplied under this supply order shall be carried out at destination or any other place to be specified in the supply order/contract.
- C. Selected bidder shall neither claim nor be entitled to payment for any damage that rejected supplies may suffer from any harm whatsoever incidental to a full and proper inspection of such supplies.
- D. Rejected supplies, if any, shall be removed by the selected bidder at their own expense within 10 days after notice has been issued to them of such rejection, and failing such removal of rejected goods, the Technical Services wing of Punjab Police will be at liberty to charge the selected bidder the market rent for the space occupied by such rejected goods.

26. Payment Schedule

Sr. No.	Milestone	Payment
1	100% Delivery and Physical Inspection of equipment and successful commissioning.	100% of the contract value (after deducting penalties, if any)

27. Invoicing

- A. Invoice along with Delivery Challan in duplicate are to be sent by the selected bidder to the consignee. The duplicate of Delivery Challan will be returned by the respective indenting officers with the quantities or numbers received duly noted and signed thereon to the selected bidder.
- B. The payment shall be released after the inspection/verification of the equipment by Punjab Police and will be subject to the clearance of Bills by concerned Treasury of Punjab Government.

28. Sub- Contracting of the order

The selected bidder shall not assign or sublet the contract supply order without prior written approval of Punjab Police.

29. Compliance with laws and permits

The selected bidder shall comply with all relevant rules, regulations, ordinances, codes and laws relating to the work or the conduct thereof and shall secure and pay for any permits and/or licenses necessary for the execution of the work and selected bidder shall be responsible for the same.

30. Forfeiture of Earnest Money Deposit and Performance Bank Guarantee

- A. If the Bidder withdraws his bid before the expiry of validity or after the acceptance of the bid, the Earnest Money Deposited by the bidder will be forfeited.
- B. If the Bidder fails to comply with any of the terms, conditions or requirement of order and the technical specifications as indicated in the Tender document, the Earnest Money deposited by the Bidder will be forfeited.

- C. In case selected bidder fails to comply with the terms and conditions of this Tender then the earnest money deposit and performance bank guarantee will be forfeited.

31. Cancellation of Order

A. In the event of the selected bidder: -

- (i) Failing to fulfil the order, or
- (ii) commit breach of any terms and conditions of this contract/supply order, or
- (iii) found repeatedly supplying goods liable to rejection hereunder, or
- (iv) failing, declining, neglecting or delaying to comply with any demand or requisition or otherwise not executing the same in accordance with terms of this contract/supply order, or
- (v) the bidder or their agent or servants being guilty of fraud in respect of this contract, or
- (vi) bidder and/or any of their partners or representatives found promising or offering any bribe or any pecuniary benefit or otherwise to any official/person connected with this Tender, or
- (vii) the bidder or any of their partners become insolvent or apply for relief as insolvent debtor or commence any insolvency proceedings or make any composition with their creditors or attempt to do so,

Punjab Police shall be at liberty to cancel the supply order forthwith, to blacklist the bidder, to reclaim all or part of the money paid to the bidder and to initiate any criminal/civil proceedings against the bidder and/or their partners.

- B. During the currency of execution of this supply order, if the selected bidder becomes bankrupt or otherwise insolvent or is likely to become insolvent or bankrupt, Punjab Police may, at any time, cancel the order by giving written notice to the selected bidder. Notwithstanding anything above, such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to Punjab Police.

32. Consequences of Cancellation of Order

- A. Upon cancellation of order, the selected bidder shall deliver or cause to be delivered all data and records required from or on account of the Technical Services wing of Punjab Police.
- B. Cancellation of order shall not affect any continuing obligations of the selected bidder under this Contract, which, either expressly or by necessary implication, are to survive its expiry or termination, such as but not limited to confidentiality obligations of the selected bidder.
- C. Upon cancellation of order for any reason whatsoever, the selected bidder shall return any and all confidential information and any other property of Punjab Police to the Technical Services Wing of Punjab Police.

- D. Punjab Police may procure services similar to those undelivered, upon such terms and in such manner, as they deem appropriate, at the risk and responsibility of the selected bidder and the selected bidder shall be liable for any additional costs for such services.
- E. The selected bidder shall continue the performance of the contract/ supply order to the extent of not being terminated.
- F. Upon cancellation of contract/ supply order for reasons whatsoever, Punjab Police shall have the right to impose any or all of the following penalties: -
 - (i) Forfeiture of Earnest Money deposited
 - (ii) Forfeiture of PBG
 - (iii) Black listing of the bidder
 - (iv) Initiation of civil/criminal proceedings as the case may be
 - (v) Any other penalty as deemed appropriate

33. Force Majeure

If the selected bidder is prevented from performing any of its services under the Contract Agreement due to causes such as fire, Acts of God, or elements, embargoes, governmental orders, the selected bidder shall be excused from the non-performance of its obligations during the period that such cause continues to exist, but if such cause continues to exist and prevents performance by the selected bidder of its obligations for more than 60 days, ADGP/Technical Services Wing of Punjab Police may terminate the Contract Agreement in whole or part thereof effective upon delivery to the selected bidder of written notice of such termination. Upon termination of the Contract Agreement under this Section, the provisions regarding consequences of cancellation set out in this Tender hereinbefore shall apply.

34. Arbitration

Any dispute, claim or difference relating to or arising out of this contract/supply order shall be referred for arbitration to the Director General of Police, Punjab or any other officer/official appointed by him/her and the decision so taken by the arbitrator shall be final and binding on all concerned. Where the matter involves claim of any amount that is awarded in such arbitration, the same shall be recoverable from the bidder out of dues pending/PBG/an order of the civil court.

35. Acquaintance with all conditions

The bidder should acknowledge that they have made themselves fully acquainted with all the conditions and circumstances under which the supplies required under the contract will have to be made or furnished and with all the terms, clauses, conditions, specifications and other details of the contract and the bidder shall not plead ignorance of any of those as excuse in case of complaint against or on rejection of supplies tendered by them or with a view either to asking for encashment

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of any rates agreed to in the contract or to evading any of their obligations under the contract.

Annexure-A

Sr.no.	Detail	Minimum Specifications
Laptop i5		
1	Operating system	Windows 10 Home 64
2	Processor Name	Intel® Core™ i5-1135G7 (up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores)
3	Processor footnote	[6] Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel’s numbering, branding and/or naming is not a measurement of higher performance.
		[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information.
4	Processor family	11th Generation Intel® Core™ i5 processor
5	Chipset	Intel® Integrated SoC

6	Form factor	Standard laptop
7	Memory	8 GB DDR4-2666 SDRAM (2 x 4 GB)
8	Memory Note	Transfer rates up to 2666 MT/s.
9	Hard drive description	1 TB 5400 rpm SATA HDD
10	Storage type	HDD
11	Optical drive	Optical drive not included
12	Cloud service	Dropbox
13	Cloud service footnote	[1] New Dropbox users are eligible to get 25 GB of Dropbox space free for 12 months from date of registration. For complete details and terms of use, including cancellation policies, visit the Dropbox website at https://www.dropbox.com/help/space/promotion . Internet service required and not included.
14	Display	15.6" diagonal, FHD (1920 x 1080), IPS, micro-edge, anti-glare, 250 nits, 45% NTSC
15	Display	39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, micro-edge, anti-glare, 250 nits, 45% NTSC

16	Graphics	NVIDIA® GeForce® MX350 (2 GB DDR5 dedicated)
17	Ports	1 SuperSpeed USB Type-C® 5Gbps signaling rate; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 HDMI 1.4b; 1 RJ-45; 1 AC smart pin; 1 headphone/microphone combo
18	Expansion slots	1 multi-format SD media card reader
19	Audio features	Dual speakers
20	Webcam	True Vision 720p HD camera with integrated dual array digital microphones
21	Pointing device	Touchpad with multi-touch gesture support; Precision Touchpad Support
22	Keyboard	Full-size, jet black keyboard with numeric keypad
23	Network interface	Integrated 10/100/1000 GbE LAN
24	Wireless	Realtek RTL8822CE 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 combo
25	Wireless note	Miracast compatible; MU-MIMO supported
26	Power supply type	65 W Smart AC power adapter
27	Battery type	3-cell, 41 Wh Li-ion
28	Battery life video playback	Up to 7 hours and 15 minutes
29	Battery weight	210 g

30	Energy Efficiency Compliance	ENERGY STAR® certified; EPEAT® Silver registered
31	Dimensions without stand (W x D x H)	35.85 x 24.2 x 1.99 cm
32	Dimension note (metric)	Dimensions vary by configuration
33	Package dimensions (W x D x H)	6.9 x 52 x 30.5 cm
34	Weight	1.75 kg
35	Weight note (metric)	Weight varies by configuration
36	Package weight	2.53 kg
37	Product color	Jet black
38	Product design	Mesh knit pattern with texture finish
39	Software included	McAfee LiveSafe™ , Microsoft Office H&S 2019
40	Software footnote	[2] Free 30 day subscription of McAfee LiveSafe service included. Internet access required and not included. Subscription required after expiration.
41	Pre-installed software	Netflix
42	Software - Productivity & finance	1 month trial for new Microsoft 365 customers
43	Software - Productivity & finance footnote	[24] Must activate within 180 days of Windows activation.

Sr. No	Parameters	Specifications
<u>Laptop i7 with Touch Screen Display</u>		
1	Operating system	Windows 10 Home Single Language 64 Plus
2	Processor Name	Intel® Core™ i7-10750H (2.6 GHz base frequency, up to 5 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores)
3	Processor footnote	<p>[6] Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel’s numbering is not a measurement of higher performance. Intel, Pentium, Intel Core, Celeron, Intel logo and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries.</p>
		<p>[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information.</p>
4	Processor family	10th Generation Intel® Core™ i7 processor
5	Chipset	Intel® HM470
6	Form factor	Convertible
7	Special features	Touch display

8	Memory	8 GB DDR4-2933 SDRAM (onboard)
10	Memory Note	Transfer rates up to 2933 MT/s.
11	Hard drive description	512 GB PCIe® NVMe™ TLC M.2 SSD
12	Storage type	SSD
13	Cloud service	Dropbox
14	Cloud service footnote	[2] Dropbox
		[3] Dropbox: 25GB of free online storage for 6 months from date of registration. For complete details and terms of use, including cancellation policies, visit the website at www.dropbox.com . Internet service required and not included. Available only in the US.
15	Display	39.62 cm(15.6) diagonal 4K UHD, IPS, micro-edge, WLED-backlit, multitouch-enabled, edge-to-edge glass with anti-reflection Corning® Gorilla® Glass NBT™, 340 nits, 72% NTSC (3840 x 2160)
16	Graphics	NVIDIA® GeForce® GTX 1650 Ti with Max-Q design (4 GB GDDR6 dedicated)
17	Graphic card footnote 2	[8] e-Service
18	Ports	2 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, Sleep and Charge); 1 SuperSpeed USB Type-A 10Gbps signaling rate (Sleep and Charge); 1 HDMI 2.0b; 1 AC smart pin; 1 headphone/microphone combo

19	Expansion slots	1 microSD media card reader
20	Audio features	Audio by Bang & Olufsen, quad speakers, Audio Boost 2.0
21	Webcam	TrueVision HD IR camera with integrated dual array digital microphone
22	Sensors	Accelerometer; Gyroscope; eCompass; IR Thermal sensor
23	Pointing device	Imagepad with multi-touch gesture support; Precision Touchpad Support
24	Keyboard	Full-size, backlit, nightfall black keyboard with numeric keypad
25	Wireless	Intel® Wi-Fi 6 AX 201 (2x2) and Bluetooth® 5 Combo (Supporting Gigabit file transfer speeds)
26	Wireless note	MU-MIMO supported; Miracast compatible
27	Power supply type	135 W Smart AC power adapter
28	Battery type	6-cell, 72.9 Wh Li-ion polymer
29	Battery weight	280 g
30	Energy Efficiency Compliance	ENERGY STAR® certified; EPEAT® Silver registered
31	Dimensions without stand (W x D x H)	35.99 x 22.64 x 1.99 cm
32	Dimension note (metric)	Dimensions vary by configuration
33	Package dimensions (W x D x H)	14.5 x 45.5 x 34.5 cm
34	Weight	Starting at 1.92 kg

35	Weight note (metric)	Weight varies by configuration
36	Package weight	3.9 kg
37	Product color	Nightfall black
38	Security management	Mic Mute key; Webcam kill switch; Trusted Platform Module (TPM) support
39	Apps	Audio Switch; Documentation; e-Service; JumpStart; Support Assistant; Connection Optimizer; Command Center; PC Hardware Diagnostics Windows
40	Apps footnote	[8] e-Service
41	Software included	McAfee LiveSafe™
42	Software footnote	[1] McAfee LiveSafe 12-month free trial offer (Internet access required. First 12 months included. Subscription required for live updates afterwards.)
43	Pre-installed software	Alexa; ExpressVPN (30 day free trial); iQiyi; LastPass password manager (30 day free trial); Xiaowei
44	Pre-installed software footnote	[4] Alexa: Availble for Australia, India and Japan only.
		[9] iQiyi, Xiaowei
		[10] ExpressVPN (30 day free trial), LastPass password manager (30 day free trial

45	Software - Productivity & finance	Microsoft® Office Home & Student 2019
46	Warranty	1 year limited parts and labour
Sr. No.	Parameters	Specifications

Laptop i7

1.	Processor Make	Intel
2.	Processor Generation	Minimum 10
3.	Number of Cores per Processor	Minimum 4
4.	Processor Base Frequency (GHz)	Minimum 1.8
5.	Processor Turbo Frequency (GHz)	Minimum 4.9
6.	Processor Description	Intel Core i7 or above
7.	Processor Number	Intel Core i7 10510U
8.	Number of sockets available on the motherboard	Minimum 1
9.	Number of Sockets populated with the Processors	Minimum 1
10.	Cache (MB)	Minimum 8
11.	Out of Band Management	NA
12.	Chipset Number	Integrated

13.	Expansion Slots (PCIe x 1) (Number)	0
14.	Expansion Slots (PCIe x 4) (Number)	Minimum 1
15.	Expansion Slots (PCIe x 8) (Number)	0
16.	Expansion Slots (PCIe x 16) (Number)	0
17.	Expansion Slots (PCI) (Number)	0
18.	Graphics Type	Integrated
19.	Number of Graphic Cards	0
20.	Graphic Card Description	NA
21.	Operating System (Factory Pre-Loaded)	Windows 10 Professional 64 bit or above
22.	Recovery Image Media	CD from the OEM / Stored in Partition of the Hard Disk / USB Drive from the OEM / On Line / Cloud
23.	OS Certification	Windows
24.	Applications Compatible with the Workstation (Requisite document may be furnished as and when demanded by the buyer)	Dassault Systèmes SolidWorks,Dassault Systèmes CATIA,PTC Creo,Siemens NX
25.	RAM Type	DDR4
26.	RAM Speed (GHz)	Minimum 2.6
27.	Type of Memory	Non ECC

28.	RAM Size (GB)	Minimum 16
29.	Total Numbers of DIMM Slots Available	Minimum 2
30.	Number of DIMM Slots Populated	Minimum 1
31.	RAM Expandability upto using spare DIMM Slots (GB)	Minimum 32 GB
32.	Type of Drives used to populate the internal Bays	PCle
33.	Number of Drives	Minimum 1
34.	RAID for Operating System	NA
35.	Capacity of each Drive (GB)	Minimum 512
36.	Type of Drives used to populate the Internal Bays	NA
37.	Total number of Internal Bays available for SATA Drive	0
38.	Number of Internal Bays populated with SATA Drive	0
39.	Each SATA Drive Capacity (GB)	0
40.	Speed of each SATA Drive (RPM)	0
41.	Total SATA Drive Capacity (GB)	0
42.	Total number of Internal Bays available for SAS Drive	0
43.	Number of Internal Bays populated with SAS Drive	0

44.	Capacity of each SAS Drive (GB)	0
45.	Speed of each SAS Drive (RPM)	0
46.	Total SAS Drive Capacity (GB)	0
47.	Total number of Internal Bays available for SSD	0
48.	Number of Internal Bays populated with SSD Drive	0
49.	Capacity of each SSD Drive (GB)	0
50.	Total SSD Capacity (GB)	Minimum 512 GB
51.	Total number of Internal Bays available for PCIe SSD	Minimum 1
52.	Number of Internal Bays populated with PCIe Drive	Minimum 1
53.	Capacity of each PCIe Drive (GB)	Minimum 512
54.	Total PCIe Drive Capacity (GB)	Minimum 512
55.	Class of PCIe Drives	Class 40
56.	RAID level	0
57.	Number of RAID Controller Ports	0
58.	Speed of RAID Controller Ports (Gbps)	0
59.	RAID Controller Cache (GB)	0

60.	Type of Ethernet Ports	Single Gigabit NIC 10/100/1000
61.	Number of Ethernet Ports	Minimum 1
62.	Wireless Connectivity	Yes
63.	If Yes, Type of Wireless Connectivity	Wi-Fi 802.11ac
64.	Bluetooth Connectivity	Yes
65.	If Yes, Version of Bluetooth Available	Minimum 5
66.	Number of USB Version 2 Point 0 Ports	0
67.	Number of USB Version 3 point 0 / 3 point 1, Gen 1 Ports	Minimum 2
68.	Number of USB Version 3 point 1, Gen 2 Ports	0
69.	Number of USB Type C Ports	Minimum 2
70.	Number of VGA Ports	0
71.	Number of HDMI Ports	Minimum 1

72.	Number of Mini DP Ports	0
73.	Number of DP Ports	0
74.	Display Availability	Integrated
75.	Display Size (cm)	35 – 39
76.	Display Type	Touch/Non Touchable
77.	Panel Type	Flat
78.	Panel Technology	IPS
79.	Display Resolution (Pixels)	1920x1080
80.	LED Backlit	Yes
81.	TCO Compliance for Monitor	NA
82.	Colour Gamut	45% Color Gamut
83.	Monitor Stand	NA
84.	Maximum Power (Watts)	Minimum 65
85.	Minimum Power Efficiency (%)	Minimum 80
86.	Power Management Unit	Yes

87.	Redundant Power Supply	No
88.	Mouse Connectivity, If available	NA
89.	Type of Mouse, If available	NA
90.	Keyboard Connectivity, if available	NA
91.	Type of Keyboard, if available	Standard
92.	Type of Keyboard in case of Mobile Workstation	Backlit
93.	Optical Drive	NA
94.	Number of External Bays	0
95.	Security	H/W Based
96.	Docking Station for Mobile Workstation	No
97.	Availability of Bundled Software	Yes
98.	Type of Bundled Software	Remote Collaboration Software & Performance Advisor
99.	Finger Print Reader in case of Mobile Workstation	Yes/No

100.	Carry Case in case of Mobile Workstation	Back Pack
101.	BIS Registration under CRS of Meity (Requisite certificate may be furnished as and when demanded by the buyer)	Yes
102.	BIS Registration Number and its Validity	R-41000949
103.	ROHS Compliance	Yes
104.	Other Certification Available (Requisite certificate may be furnished as and when demanded by the buyer)	UL/EN/CE/IEC-60950 for Safety,CE/FCC for EMC & Immunity,UL,CE,FCC,WEEE for Waste management
105.	Minimum Operating Temperature (Degree C)	0
106.	Maximum Operating Temperature (DEgree C)	Minimum 35
107.	Minimum Operating Humidity (%RH)	Minimum 10
108.	Maximum Operating Humidity (%RH)	Minimum 90
109.	Battery Warranty in case of Mobile Workstation	Minimum 3

110.	On Site OEM Warranty (Year)	Minimum 3
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