



**GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE DIRECTOR GENERAL OF POLICE
POLICE HEADQUARTERS: ITANAGAR**

NO.PHQ (PROV)- 16/2025-26

Dated Itanagar, the 14th November, 2025.

TENDER NOTICE – CUM – TERMS AND CONDITIONS

On behalf of the Governor of Arunachal Pradesh, the Director General of Police, Arunachal Pradesh invites Sealed Tender under two-bid system (Technical Bid & Financial Bid) from manufacturers, authorized agents, dealers, or suppliers of reputed firms for entering into a contract for the supply & installation of Security/SB/Cyber Crime/Computer Cell & Training Equipments for Arunachal Pradesh Police during the year 2025-26. For details please visit our website-www. arunpol.nic.in.

1. Description of items to be procured / Approx. Cost of tender / Earnest money required etc.:

SL No	Description of items to be procured	Approx. Cost of tender	Earnest money required	Tender Fee (Non-refundable)
1.	Procurement & installation of Security / SB / Cyber Crime / Computer Cell & Training Equipments for Arunachal Pradesh Police during the year 2025-26. Items details along with specifications attached at Annexure- "A"	Rs. 1,39,31,000/- Note: However, subjected to the availability of fund release by the MHA, Gol.	Rs. 2,79,000 /-	Rs. 1,000/- to be deposited through egras Portal of Govt. of Arunachal Pradesh in favour of AIGP (E), PHQ, Itanagar.

2. Critical date sheet:

Sl.	Particulars	Date	Time
1	Date of publication of Tender	15/11/2025	
2	Bid submission start date	From the date of publication onward	
3	Bid submission end date	08/12/2025	1100 hrs
4	Submission of Tender fees (cost of tender documents)	Tenderers who wish to obtain tender document from PHQ, Itanagar, must submit a copy of challan paid through the eGras Portal of Govt. of Arunachal Pradesh in favour of AIGP(E), PHQ, Itanagar.	
5	Date of Technical bid opening	08/12/2025	1130 hrs

3. The Tender documents must be provided in two (02) covers:

4. Cover-1 (Technical BID): It shall contain scanned copies of eligibility information as under:

- (a) Technical bid along with its specifications leaflet, brochure, catalogue / literature, if any, of each tendered item.

- (b) Tender documents duly completed and signed but without any indication of the rates "Quoted".
 - (c) Earnest Money must be attached in the form of TDR / FDR / Demand Draft / NSC / KVP etc. from Nationalized Bank / Post offices duly pledged in favour of Asstt. Inspector General of Police (E), PHQ, Itanagar. The firms registered under MSME are exempted for earnest money. They must submit copy of registration certificate of MSME.
 - (d) Attested copy of PAN.
 - (e) Attested copy of firm registration.
 - (f) Attested copy of firm GST Registration.
 - (g) Valid Trading license issued by competent authority for the tendered items.
 - (h) Current and valid Certificate/ Letter of authority from the Original Manufacturer.
 - (i) Latest Financially soundness certificate / Bank Solvency Certificate.
 - (j) Undertaking letter about non-blacklisting of the firm.
 - (k) Any other relevant document which the firm wishes to submit.
 - (l) All the tender papers must be serialized / numbered, and an index / checklist must be submitted at the beginning of the tender papers indicating the pages of the relevant documents. Tenders without index / checklist shall be summarily rejected.
 - (m) Technical compliance statement should be enclosed along with the technical bid, clearly specifying and deviation, if any for all specifications mentioned in the tender.
 - (n) 10 (Ten) years service and spare parts support after the warranty period should be provided on a payment basis. In this regard, an undertaking must be submitted by the participating firms.
5. **Cover-2 (Financial BID):** It shall contain documents on "Financial Bid". Financial bid shall be opened only of those bidders who have been declared technically qualified by the technical committee. The criteria for eligibility and qualifications are to be met by the bidders such as minimum level of experience / past performance (if any), facilities and financial position etc. The date of opening of "Financial Bid" will be intimated to the firms which will be found qualified in technical compliance statement in due course of time.

GENERAL INSTRUCTIONS:

1. The tenders received after scheduled date & time will not be entertained. The tenderers or their representative may remain present at the time of opening of tenders.
2. Rates must be clearly written in figures as well as in words, showing GST Separately.
3. There should be no cutting or overwriting.
4. The Tenderer / Firm who fails to fulfill the eligibility conditions will be summarily rejected.
5. The Tenderer must clearly mention the origin/ manufacture of the equipment being supplied. In line with Government of India Policies order. Imported items should be declared and categorized appropriately.
6. Import Clearance Responsibilities related to customs clearance, import duties, logistics, and inland transportation shall be borne by the Indian distributor/ dealer.
7. The offered equipment and all related components must comply with relevant Indian statutory, safety and environmental regulations.



8. Firms must submit all documents (as mentioned in cover-1) including the EMD, cost of Tender Documents, to the office of Assistant Inspector General of Police (E), Police Head Quarters, Itanagar, Arunachal Pradesh on or before **08/12/2025 at 1100 hrs.** The experience certificate (if any) must contain the name, designation, address, Phone No., Mail ID of issuing officer. The certificate should be countersigned by concerned OFFICE HEAD/DEPT. HEAD.
9. In case tender opening day is declared as holiday or bandh call at Itanagar, the tenders shall be received up to next working day till 1100 hrs. and opened on the same day at 1130 hrs.
- a) The bidders should keep checking the website for any addendum / corrigendum to the notice/ Bidding documents till the date of submission of bids and the bidder should incorporate the same in his bid documents.
 - b) Conditional bids and the bids not meeting the qualifying criteria on the date of receipt of bids shall Be summarily rejected.
 - c) Bids will be opened as per time & schedule mentioned.
 - d) Before submission of bids, bidders must ensure that scanned copies of all necessary documents have been attached with bid.
 - e) The department will not be responsible for delay in submission due to any reason(s).
 - f) All the required information for the bid must be filled and submitted.
 - g) The details of EMD and other documents specified in the tender documents should be same as submitted (scanned copies), otherwise tender will be summarily rejected.
 - h) **Conditions:** The goal of the Procurement & installation of Security / SB / Cyber Crime / Computer Cell & Training Equipments for Arunachal Pradesh Police project is to complete the design, implementation and installation of the system and to achieve full production operations within 12 weeks after contract award or as soon as technical feasible.
 - i) If the tenderer who fails to supply the material/ perform the task assigned to him in the purchase order, within the period prescribed for such delivery specified above, the AIGP (E), or other competent authority, shall be entitled at his discretion to the actions as under:
Graded liquidated damages for delay in the delivery of all or any good or performance of services will be liable for:
 - (i) For first 30 days @ 1% of the value of the goods.
 - (ii) For next 60 days @2% of the value of the goods.
 - (iii) For delay above 2 month/ over & up to 4 months @ 4% of the value of the goods.
 - (iv) Beyond 4 months and up to 6 months @5% of the value of the goods & on expiry of 6 months the contract would automatically get nullified and Security Money Deposit would be forfeited.
10. The tender papers containing full details with specifications and terms and conditions can be obtained from Dy. Superintendent of Police (Provisioning), PHQ Itanagar, on showing of Payment receipt of Rs. 1,000/- (Non-refundable) in favour of the Asstt. Inspector General of Police (E), PHQ, Itanagar, Arunachal Pradesh paid through egras Portal of Govt. of Arunachal Pradesh on any working day from 0930 hrs.to 1600 hrs w.e.f. **17/11/2025 to 07/12/2025.** The tender documents may also be downloaded from our website. The tenderers downloading the documents from website are also required to submit a copy of challan of Rs. 1,000/- as tender fees in favour of the Asstt. Inspector General of Police (E), PHQ, Itanagar, Arunachal Pradesh paid through egras Portal of Govt. of Arunachal Pradesh. No other mode of payment will be accepted.
11. The technical information provided with the references must demonstrate or support the capability of the proposed technology to satisfy the identification functionality and performance requirements of this solicitation tender.



12. Successful tenderers will be required to deposit 5% of the total value of the articles to be supplied as security money within 10 days from the date of issue of letter of acceptance of tender. The successful tenders will have to enter into a "DEED OF AGREEMENT" stipulating the Terms and Conditions of the contract.
13. Non fulfillment of any or all the Terms & Conditions of Contract, performance security deposit and EMD of the successful tenderer will be forfeiture and supply order issued to the firm shall be cancelled.
14. Rates should be quoted F.O.R Central Store, PHQ, Itanagar (A.P) and rates quoted other than F.O.R Central Store, PHQ, Itanagar (A.P) shall not be accepted. No packing or forwarding charges will be allowed. The rate of GST (as applicable) may be charged/quoted by the tenderers and the amount be clearly mentioned for all items. The rate should be quoted in Indian currency both in figure and words clearly. Tenders must be legible and clear in all respects else the tenders shall be liable to be rejected.
15. Tenders should be addressed to the undersigned by designation and not by name. The separate sealed envelope containing all the tender documents (i.e. two separate Covers (i) Technical Bids and (ii) Financial Bid) should be subscribed as **"Tender for Procurement & installation of Security / SB / Cyber Crime / Computer Cell & Training Equipments for Arunachal Pradesh Police during the year 2025-26"** and sent by Registered Post / Speed Post / Courier Service or put in the Tender Box kept in the office of the undersigned (Provisioning Branch) on any working day from 0930 hrs.to 1600 hours. *The tenders received after scheduled date & time will not be entertained.*
16. Any breakage or loss of items will be at the supplier's risk.
17. Delivery of the stores will have to be completed within 90 days from the date of issue of supply order. In case of failure to supply the items in time, violation of any provision of Deed of Agreement, the firm is liable to be blacklisted.
18. If any item is found damaged or otherwise unacceptable at the time of delivery/inspection, the supplier will be required to remove the same from Central Store, PHQ, Itanagar, Arunachal Pradesh at their own cost within 15 days. The demonstration of the items shall be conducted at the time of acceptance by the Board of Officers. The items not found as per specifications shall be rejected.
19. Payment will be made to the supplier directly on completion of supplies / installation and after acceptance/ inspection by the Govt. constituted Board.
20. The Director General of Police, Arunachal Pradesh, Itanagar reserves the right to reject the lowest or all or any of the tenders without assigning any reason thereof.
21. The Director General of Police of Arunachal Pradesh, Itanagar shall have the right to ask the firms to demonstrate their items before the items are accepted.
22. List of equipments/items with description & specification is enclosed at Annexure- "A". The quantities mentioned in the enclosure are all approximation and subject to variation as per actual availability of funds.
23. Tenders will remain valid up to **31-03-2026**.
24. All items to be supplied shall be under warranty as mentioned in Annexure-A against each items/ equipments from the date of acceptance.
25. In case of any dispute, the legal jurisdiction will be at Itanagar, Arunachal Pradesh.



26. In case of any query, the tenderers may contact at following phone no./mail ID.

Officers	Telephone	E-mail ID
Asstt. Inspector General of Police (E), PHQ, Itanagar	94360-40005(Mobile)	arpolice@rediffmail.com.
Sub-Inspector (Prov), PHQ, Itanagar	81190-91663 (Mobile)	arpolice@rediffmail.com.

Note: In view of the Govt. policy of “Vocal for Local” and “AtmaNirbhar Bharat” to encourage local entrepreneurs vide No. FIN/E-30/2017/675 dated 19/08/2020, the firm registered within Arunachal Pradesh can only participate in the tender process.

Asstt. Inspector General of Police (E)
Police Head Quarters, Itanagar
Arunachal Pradesh
Asstt. Inspector General of Police (E)
Police Head Quarters, Itanagar
Arunachal Pradesh

SPECIFICATIONS FOR SECURITY/SB/CYBER CRIME/COMPUTER CELL/ TRAINING EQUIPMENTS

(A) SECURITY EQUIPMENTS			
SL NO.	Name of Item	Technical Specifications	Quantity (in No.)
1.	Bomb Suit	(i) Material: Aramid / Kevlar with flame retardant outer cover. (ii) Protection: Against fragments, overpressure & heat. (iii) Helmet & Visor: Bullet resistant with communication system. (iv) Weight: 25-30 Kg (Full Suit). (v) Mobility: Flexible design for movement. (vi) Warranty: 1 Year	01
2.	Binocular (High – Powered Surveillance)	(i) Age Range (Description) Adult. (ii) Distinctive feature Lighter weight. (iii) Diameter of objective lens 50. (iv) Magnification Maximum 16. (v) 20 x magnification and 50 mm objective diameter. (vi) Multicoated optics guarantees superior light transmission and brightness. (vii) Patented 1-touch Insta Focus system keep your subject in sharp focus. (viii) Nonslip rubber armor focusing distance. (ix) 45 foot close focusing distance (x) 170- foot field of view at 1,000 yards. (xi) Weighs 30- ounces. (xii) Warranty: 1 Year. (xiii)	40
3.	Binocular (Infrared Night Vision)	(i) Lens: F1.2 large aperture, f= 25mm, 3 grades IR filter (ii) Lens Dimensions: 28 mm X 35.5 mm. (iii) Lens Weight: 43 g (iv) Display Screen: Inner 3.0" TFT IPS full viewing angle. (v) External Screen Size: 106mm 048mm. (vi) Operation buttons: 6 buttons. (vii) Storage Memory: TF Card. (viii) USB Interface: Type –C. (ix) Display Brightness: 8 Level. (x) Digital Zoom: 8X. (xi) IR Vision: Up to 150mt with inbuilt IR. (xii) Power supply: 8*5AA alkaline batteries. (xiii) IP Rating: IP53. (xiv) Warranty: 1 Year.	05

(B) SB EQUIPMENTS

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**65" IWB Android
Touch Screen**

01

PANEL

- (i) Screen Size 65"
- (ii) Panel Technology IPS.
- (iii) Back Light Type Direct.
- (iv) Aspect Ratio 16 : 9.
- (v) Native Resolution 3,840 x 2,160 (UHD).
- (vi) Refresh Rate 60 Hz.
- (vii) Brightness w/o Glass : 490 nit (Max.), 390 nit (Typ.)
w/ Glass : 450 nit (Max.), 350 nit (Typ.)
- (viii) Contrast Ratio 1,200:1
- (ix) Colour gamut NTSC 68%
- (x) Viewing Angle (H x V) 178 x 178 Color Depth 10bit,
1.07Billion colours
- (xi) Response Time 8ms (G to G)
- (xii) Surface Treatment(Haze) Anti Glare, 7H (Mohs)
- (xiii) Life time 30,000 Hrs (Min.) Operation Hours
(Hours/Day) 16/7 Portrait / Landscape No / Yes

CONNECTIVITY(JACK INTERFACE)

- (i) Input HDMI (3, HDCP2.2/1.4), RGB, Audio In,
RS232C IN, RJ45(LAN), USB3.0 Type A(3), USB2.0
Type A(3)
- (ii) Output Audio Out, Optical, Touch USB (2)

MECHANICAL SPECIFICATION

- (i) Bezel Colour Black
- (ii) Bezel Width 18.9/18.9/18.9/45.7mm Weight(Head)
38.75Kg
- (iii) Packed Weight 48.5Kg
- (iv) Monitor Dimension(W x H x D) 1489×897×87mm
- (v) Carton Dimensions(W x H x D) (Box outer size)
1628×208×1005mm
- (vi) Handle Yes
- (vii) VESA™ Standard Mount Interface 600 x 400

KEY FEATURE

- (i) HW - Internal Memory 32GB
- (ii) HW - Wi-Fi - Built-in Yes (Slot type) HW - Power
Indicator Yes
- (iii) HW - Local Key Operation Yes
- (iv) SW - webOS ver. Android 8.0
- (v) SW - Screen Share Yes (Screenshare pro)
- (vi) SW - HDMI-CEC Yes (Debug Mode)

ENVIRONMENT CONDITIONS

- (i) Operation Temperature 0 °C to 40 °C
- (ii) Operation Humidity 10% to 80%

POWER

- (i) Power Supply AC 100-240V~, 50/60Hz

		(ii) Power Type Built-In Power <u>POWER CONSUMPTION</u> (i) Typ. 200 W (ii) Max. 300 W (iii) BTU (British Thermal Unit) TBD Power off 0.5W↓ <u>SOUND</u> (i) Speaker Yes (10W x 2) <u>CERTIFICATION</u> (i) Safety CB / NRTL (ii) EMC FCC Class "A" / CE (iii) ErP / Energy Star Yes / No <u>SPECIAL FEATURE</u> (i) Touch - Available object size for touch Ø3 mm ↑ (ii) Touch - Reponse Time (PC Win10) 60ms ↓ (Android) 100ms ↓ (Windows) (iii) Touch - Accuracy ±2mm (iv) Touch - Interface USB2.0 (v) Touch - Protection Glass Thickness 4T (Anti-Glare) (vi) Touch - Protection Glass Transmission 87% (vii) Touch - Operating System Support Windows 7/8/10/Windows XP/Linux/Mac/Android (Windows XP/Linux/Mac Support one point touch) (viii) Touch - Multi touch point Max 20 Points <u>ANDROID SYSTEM</u> (i) SoC Dual core A73+Dual core A53 GPU Dual Core Mail G51 (ii) Internal Memory - Storage 32GB Internal Memory - RAM 3GB (iii) Wi-Fi 802.11a/b/g/n/ac (iv) LAN Gigabit LAN (v) Bluetooth 4.0 <u>WARRANTY:</u> 1 year	
5	Halogen Search Light	(i) Lamp Power: 55 Watt. (ii) Light Colour Temperature: 3000k . (iii) Luminous Flux: 1800 Lumens. (iv) Beam Range: 1 Kilometres. (v) Battery Specifications: 12 V-7Ah, sealed Lead Acid (SMF) (vi) Operation Modes: Continuous – Manual Flasher – Timer. (vii) Battery Charger: In-Built Charge, Input Charging Voltage – 200- 240V. (viii) AC, 50 Hz Single Phase. (ix) Charging Time: 8 to 10 hours. (x) LED Indicators for: Charging and Low Battery	15

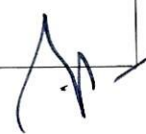
		Indicator. (xi) Body Material & Finish: 3mm thick ABS Plastic Body – Glossy (xii) Weather proof: Water Resistant Body. (xiii) Dimensions & Weight: 25 cm X16.5 cm X 13.5 cm. (xiv) Warranty: 1 Year (excluding battery).	
6	DSLR Camera	(i) Body type– Mid size SLR <u>Sensor</u> (i) Max resolution 5568 x 3712. (ii) Other resolutions 4176 x 2784, 2784 x 1856. (iii) Image ratio w:h 3:2. (iv) Effective pixels 21 megapixels. (v) Sensor photo detectors 22 megapixels. (vi) Sensor size APS-C (23.5 x 15.7 mm). (vii) Sensor type CMOS. (viii) Processor Expeed 5. <u>Image</u> (i) ISO ISO 100 - 51200 (expandable to 50 - 1640000). (ii) Boosted ISO (minimum) 50. (iii) Boosted ISO (maximum) 1640000. (iv) White balance presets 12. (v) Custom white balance Yes (5). (vi) Image stabilization Digital only. (vii) Image stabilization notes 3-axis El. (viii) Uncompressed format RAW. (ix) JPEG quality levels Fine, Normal, Basic. <u>Optics & Focus</u> (i) Manual focus Yes. (ii) Number of focus points 51. (iii) Lens mount Nikon F. (iv) Focal length multiplier 1.5× <u>Screen / viewfinder</u> (i) Articulated LCD Tilting. (ii) Screen size 3.2". (iii) Screen dots 922,000. (iv) Touch screen Yes. (v) Screen type TFT LCD. (vi) Viewfinder type Optical (pentaprism). (vii) Storage types SD/SDHC/SDXC. <u>Connectivity</u> (i) USB USB 2.0 (480 Mbit/sec). (ii) HDMI Yes (mini-HDMI). (iii) Microphone port Yes. (iv) Headphone port Yes. (v) Wireless Built-In. (vi) Wireless notes Wi-Fi with low energy Bluetooth.	10

		(vii) Remote control Yes (Wired, wireless, Smartphone). Warranty: 1 year	
7	UHD JDR Projector	(i) 4K Short Throw Projection: 8.3 million pixels with 3000 ANSI lumens brightness which gives 4K UHD (3840 x 2160) projection and can make 100 inch screen from less than 2 meters distance. (ii) Color Coverage: 96% REC 709 with 1.07 billion colors from 30-bit panel (iii) DLP Technology: BenQ Projectors delivers 4K image with most precise and accurate realistic colors for more than 100,000 hours without the degradation of the DLP chip. (iv) Low Input Lag: 16.7 ms (4K@60Hz), 8.3 ms (1080p@120Hz), 4.2 ms (1080p@240Hz) (v) Audio: 5W chamber speakers, 3.5mm audio out, eARC HDMI Audio Return. (vi) Flexible Installation: 1.2x zoom, 3D keystone adjustment, picture rotation adjustment for squared images. (vii) Picture Modes: Bright, Cinema, Game, HDR, HDR Game, HLG, Living Room, Sport (for stadium experience), User, 3D. (viii) Connectivity: HDMI (2.0/HDCP 2.2) x 2, USB Type-A (2.0/only Power Supply 1.5A) x 1, RS232 x 1. (ix) Endless Entertainment: Google-certified Android TV and Google Play store, with 16GB RAM for 5,000+ latest Android apps downloads for movies, shows, live sports, games, music and more. (x) Console Support: Compatible with major consoles (Sony PS4, PS5, Nintendo Switch, and Xbox Series X, Google stadia). (xi) Warranty of Product: 1 year	02
(C) CYBER CRIME / COMPUTER CELL			
8	All in one Desktop	(i) 11th Generation Intel Core i7-11700 8-Core 2.50 GHz Processor. (ii) 32GB DDR4 Memory. (iii) 2 TB PCIe NVMe M.2 (iv) NVIDIA GeForce GTX 1650 4GB Dedicated Graphics Card. (v) Microphones, 16MP Binning IR Privacy Camera with Magnetic Stick. (vi) Monitor: 32 inches (vii) UPS: 1 KVA (viii) Warranty: 1 year	01
9	Laptop Mobile Workstation	(i) Screen Size: 40.6 Cm (16) (ii) Operating system: Windows 11 Pro (iii) Processor Generation:	01

		Intel@ Core™ “Ultra 7155H (up to 4.8 GHz with Intel@ Turbo Boost Technology, 24 MB L3 cache, 16 cores, 22 threads) (iv) Memory: 32 GB DDR5-5600 MHz RAM (1x32 GB) (v) Ram slots: Dual channel supports. (vi) Graphics: NVIDIS RTX™ A1000 Laptop GPU (6 GB GDDR6 dedicated) (vii) Display type: IPS (viii) Fingerprint Reader: Fingerprint sensor (ix) Battery type: long Life 6-cell, 83 Wh Li-ion polymers (x) Warranty: 1 Year	
10	Body Worn Camera	(i) Video Capture: Resolution 4K (ii) Flash Memory Type: SD/SDHC/SDXC (iii) Video Capture Format: MP4 (iv) Supported Audio Format: AAC, MP3 (v) Connectivity Feature: HD Resolution (vi) Battery: 1800 mAh lithium battery, 8 Hrs video Recording (vii) Warranty: 1 Year.	05
11	Video Camera	(i) 1080p Video at 60 fps (ii) 1/5.8” BSI MOS Sensor (iii) 50x Optical Zoom & 90x Intelligent Zoom (iv) Wireless Multi-Camera Support (v) Warranty: 1 Year	01
12	Crime Scene Kit	(i) SEAMLESS IMAGING - Effortlessly image USB 3.0, SATA, and IDE/PATA devices without extra adapters. (ii) USER FRIENDLY INTERFACE - color LCD that displays real-time operational status. (iii) VERSATILE OUTPUT OPTIONS - Direct acquisitions to either USB 3.0 or SATA output devices with ease. (iv) Warranty: 1 Year	05

Handwritten signature/initials

13	Digital Camera	(i) Product Dimensions: 93.91 x 5.59 x 2.03 Cm (ii) Batteries: 1 LR44 batteries required (included) (iii) Flash Memory Type: SD (iv) Flash type: Internal (v) Compatible Devices: Computers, smart phones, Tablets (vi) Special Features: Wireless (vii) Standing screen display size: 2.8 Inches (viii) Display type: LCD Colour Screen (ix) Aperture Mode: F2.8 (x) Image stabilization technology: Digital (xi) Optical zoom: 1x to 16x (xii) Resolution: 1080P MP (xiii) Audio Output type: Speakers (xiv) Video capture Resolution: 1080P (xv) Battery description: Lithium Ion (xvi) Battery average life: 1 hour (xvii) Connector type: Wi-Fi (xviii) Mounting type: Tripod (xix) Viewfinder type: Electronic (xx) Item weight: not above 1 Kg (xxi) Warranty: 1 Year	02
14	Multifunctional Printer	(i) Machine Type: Color Laser Multifunctional (ii) Core Functions: Print, Copy, Scan, Send and Optional Fax (iii) Control Panel: Color Touch panel (iv) Memory: Standard: 2.0 GB RAM or Higher (v) Storage: a. Standard: 64GB "or" b. Optional: 256GB SSD (vi) Interface Connection: a. Network: 1000Base-T/100Base-TX/10Base-T, Wireless LAN (IEEE 802.11 b/g/n) b. Others: USB 2.0 (Host) x2, USB 2.0 (Device) x1 (vii) Paper Supply Capacity: a. Standard: 1,200 sheets (100 sheets multi-purpose tray, 2 x 550 sheets paper cassette) b. Maximum: 2,300 sheets (with Cassette Feeding Unit-AW1) (viii) Paper Output Capacity: a. Standard: 250 sheets b. Maximum: 645 sheets (ix) Supported Media Types a. Multi-purpose tray: Thin, Plain, Heavy, Recycled, Coated, Colour, Tracing, Bond, Transparency, Labels, Pre-punched, Letterhead, Envelope, Postcard	01



		b. Upper Cassette: Thin, Plain, Heavy, Recycled, Colour, Bond, Transparency, Pre-punched, Letterhead, Envelope, Postcard Lower Cassette: Thin, Plain, Heavy, Recycled, Colour, Bond, Transparency, Pre-punched, Letterhead, Envelope, Postcard (x) Supported Media Sizes a. Multi-purpose tray: SRA3, A3, A4, A4R, A5, A5R, A6R, B4, B5, B5R Custom size: 98.4 × 139.7 mm to 320.0 × 457.2 mm b. Envelopes: COM10, Monarch, ISO-C5, DL c. Upper Cassette: A4, A5, A5R, A6R, B5 d. Lower Cassette: A3, A4, A4R, A5, A5R, A6R, B4, B5, B5R (xi) Print Speed: Up to 26 ppm (A4), Up to 15 ppm (A3), Up to 20 ppm (A4R) (xii) Print Resolution: 600 × 600 dpi, 1,200 × 1,200 dpi (half-speed) (xiii) Copy Speed: Up to 26 ppm (A4), Up to 15 ppm (A3), Up to 20 ppm (A4R) (xiv) Copy Resolution: 600 × 600 dpi (xv) Scan Speed: 1-sided: 70 ipm (BW/CL at 300 dpi), 2-sided: 35 ipm (xvi) Scan Resolution: 600 × 600 dpi (xvii) Send Destinations: Email, Internet Fax (SMTP), SMB, FTP, WebDAV (xviii) Fax a. Optional Super G3 Fax board b. Speed: 33.6 kbps c. Resolution: up to 400 × 400 dpi d. Memory: up to 30,000 pages (xix) Power Consumption a. Max: ~1,500 W b. Sleep: ~0.8 W (xx) Operating Environment a. Temp: 10–30 °C b. Humidity: 20–80% RH (xxi) Warranty: 1 Year	
15	Workstation PC	(i) Operating System: Windows 11 Pro (ii) Processor (CPU): a. 14th Generation Intel® Core™ i9 b. Up to 6.0 GHz with Turbo Boost c. 36 MB L3 cache d. 24 cores, 32 threads (iii) Chipset: Intel® W680 (iv) Memory (RAM) a. 32 GB DDR5-4800 MHz (1 × 32 GB)	01

		b. 4 DIMM slots total (v) Monitor: 27-inch, Tilt and Height Adjustable Pivot (vi) Keyboard & Mouse: Wireless-USB Dongle, LED Backlit (vii) Storage a. 1 TB PCIe Gen4 NVMe M.2 SSD b. Additional bays, slots for NVMe SSDs/HDDs (viii) Graphics: Intel® UHD Graphics 770 (integrated) (ix) Ports & I/O a. Front: 4 × USB Type-A (10 Gbps, 1 with charging), 1 universal audio jack b. Rear: 1 audio-in, 1 audio-out, 1 RJ-45, 2 DisplayPort 1.4, 2 × USB-A 10 Gbps, 1 × USB-A 5 Gbps, 3 × USB-A 480 Mbps c. Video: 1 × VGA, 2 × DisplayPort 1.4 (x) Power Supply: 700 W, 92% efficient, wide-ranging; active PFC (xi) Case / Chassis: Tower form-factor, Jet Black, tool-less sliding access cover, front-access dust filter, optimized cooling & acoustics. (xii) Warranty: 3 years standard warranty.	
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(D) Training Equipments

16	Advance Weapon Firing Simulator 4 Lane	General (i) The system shall be structured to take a soldier gradually to advanced levels of training. The training shall be structured at following six levels: (a) Level I: Squad post or basic marksmanship Skills. (b) Level II: Grouping fire at short ranges. (c) Level III: Application and classification at long ranges. (d) Level IV: Advanced training for moving target / pop up targets. (e) Level V: Engagement in CGI based tactical scenarios. (f) Level VI: Judgmental training in video based scenarios. (ii) It should support all Fire Arms (5.56 INSAS Rifle, INSAS LMG, 9mm Carbine, MP5, 9mm Pistol, AK47, Glock 19, SLR7.62, Glock. Have to supply 4 dummy weapons or 4recoil kits, depending on the type of weapon currently in use. (iii) Shall have computer based tutorials for the trainees prior to firing. (iv) Shall have Jungle lane shooting wherein it appears that the firer is moving through a jungle lane and targets appear along the way as in actual. (v) Ambidextrous firing shall be possible. (vi) Advanced CGI scenarios shall be created wherein all	01
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the characters can walk, run, crawl, fire from various firing positions from point to point as defined by the user. The characters shall have user defined Intelligence to react in a particular scenario.

- (vii) User shall add the effect of blasts and smoke in the computer generated scenarios (CGI) scenarios at predetermined time and Specific intervals.
- (viii) Scenario Builder: User friendly scenario builder need to be supplied along with the software. This software should have the provision of creating user defined scenarios.
- (ix) The software should have the provision to integrate the videos, shot by the user and the same should be able to convert into videos exercises for firing practices.

Automated Video authorizing system, which will enable the user to Provide video and the authorizing software, should identify "Region Of Interest" on human body automatically.

Operational Environment / Terrains

- (i) Different types of operational environment shall be provided including built up area, high rise buildings like Akshardham & Red fort etc, historical monuments, desert area, jungle and mountainous terrain etc. These Operational Environments shall be available for integration into the system as and when required during warranty period. For conventional scenarios, highly realistic terrains shall be Included as, HAA, J&K North East, Punjab, Canals, Semi-desert, desert, plain and Built up area.

Weapons

- (i) System shall be able to fire different weapon simultaneously at Different lane search with different ranges.
- (ii) System should have the provision of firing practices in different lanes with different firer specified exercises.
 - (a) Weapons to be integrated should be original weapons for real training value and should be wireless.
 - (b) Wireless weapon modules can be attached to temporarily modify the weapons to create realistic effect.
 - (c) CO2 based magazines for recoil effect simulation.

Targets

- (i) Different types of targets shall be provided including Fig 11, Fig 12, 1 Ton Vehicle, 3 Ton Vehicle, 5 Ton Vehicle, Car, Jeep, Gypsy, Bus, 130 Cbt, 130 Czt, Fig 1x1 ,Fig 2x2 ,4x4 Target, Friend & Foe , and bunker. In addition, user defined targets shall be integrated, if

		required. Vehicle targets such as Light, Medium & Heavy motor vehicles shall be included. System should be capable of depicting ranges from 5 to 2000 meters in Individual lanes or in all the lanes simultaneously. (ii) The system shall be of Four lanes and it shall enable firers to fire simultaneously on different targets each at different ranges and capable of being controlled and operated by one instructor using a single console. (iii) Controller shall be able to assign specific number of rounds to Individual lanes or to all the lanes simultaneously, with one entry. (iii) Additional targets if required by user shall be included. Each lane shall be capable of using different weapons. (iv) System shall be capable of showing aiming mark at all ranges at the option of the instructor. An aimer depicting point of aim with an Option to disable the aimer shall be provided. (v) Horizontal and vertical graph capturing movement of barrel before firing shall be provided. (vi) System shall be capable of enabling the user to incorporate video shots into the simulation to include scenario for patrolling, ambush, hostage rescue, VIP security and various CI OPS. The system shall also have ability to add more scenarios. (vii) Ranging from simple to complex, these video scenarios shall be relevant to Indian security forces and to be created by the end user. Software shall be provided. (viii) The system shall be capable of generating 3-D scenario including humans, vehicles and structures. 3-D human targets shall react to firing as would be in case of real humans. The software shall be provided to enable user to create own 3D scenarios. The following are the scenarios should be available with the application: (a) Ambush Attack (b) Patrol (c) Raid Attack (d) Raid Defence (e) Cordon and Search (f) House Clearance Drill (g) Hostage Rescue Apart from this there should be a module that helps instructor to generate scenarios of his choice and load them for exercise. <u>Environmental Conditions</u> (i) System shall be capable of simulating following conditions: (a) Different modes of sky, such as clear, sparsely clouded densely clouded and rainy conditions. (b) Wind velocity with direction and the resultant effect on bullets shall be seen at the target.	
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(c) Different times of the day i.e. dawn, day, dusk and night allowing instructor specify any point in day.

(d) Fog conditions with capability of depicting visibility range in meters. All the simulations shall be able to be controlled by the instructor.

(ii) System shall be capable of integrating additional targets as desired by the user. Once integrated the targets shall appear in menu of the software.

(iii) System shall be capable of depicting ranges from 5 to 2000 meters in Individual lanes or in all the lanes simultaneously.

(iv) The system shall provide CO2 based magazine to create realistic Firing experience as per each weapon being fired on the system.

Documentation

(i) The system shall be able to store and display complete details of trainees including their personal details, score, date of firing and analysis.

(ii) The data shall be available to the instructors under separate user groups. The system shall allow the users to format this data as per their requirement.

(iii) Complete trainee's details shall be stored including their rank, score, etc. Their performance over a period of time shall be stored and displayed as and when required. To accommodate specific needs of the organization the format shall allow customization. The following documents shall be provided:

(a) Software test procedure.

(b) Software user manual.

(c) Software installation procedure document.

(d) Software and hardware bilingual user handbook in English and Hindi (Devnagri).

(e) Software verification and validation and reliability document.

(f) Software shall be upgradeable.

(iii) The system shall be able to generate detailed reports of performance of trainees with facility to customize the same by the user. This generation of report shall be both weapon and trainee specific.

(iv) Analysis of firing and corrective action shall be suggested by software.

(v) The system shall have facility to preview the range and conditions in the set-up, without starting the exercise.

(vi) The system should be able to generate the report of complete Trainee assessment.

Calibration

The system shall have facility for weapons calibration with

the Provision of storing details of the calibration.

Exercises

Squad Post Training:

- (i) The system shall provide facilities of squad post training in normal & advanced modes like moving targets with gradual increase in degree of complexity.
- (ii) Squad post training shall be provided in two modes with visual feedback normal (regular target) and Advanced (moving pendulum). In normal mode the trainee has to view the Bull's eye of the target. While, the trainee is on bull's eye a visual and audio indicator shall be given to the trainee. In advanced mode the trainee shall continuously track a pendulum. The speed of the pendulum shall be capable of being varied to change the complexity of the training. Feed back as to the percentage of time the trainee was on target shall be displayed.
- (iii) The system shall provide static target for application and classification fire. These firing practices shall include:
 - (a) **Static Target Practice**
 - (i) Static Targets of application fire need to be provided in standard mode. Additional features in static targets shall include.
 - (ii) Exercise shall be timed.
 - (iii) Facility to change range and firing conditions.
 - (iv) Facility shall be provided to change the special effects like clouds, fog, wind velocity, dust, smoke, night conditions etc.
 - (v) Scores as per firing practices, misses, scores and percentage obtained. The scoring pattern shall be customized as per the user requirement and accept additional scoring patterns if required.
 - (b) **Snapshot Practice Snapshot targets shall be provided with the following features:**
 - (i) For each snapshot target, uptime, downtime, number of exposures and special effects shall be capable of being controlled.
 - (ii) Targets with rotate option shall be provided wherein, if the target is hit, during the visibility phase (uptime), it shall rotate.
 - (iii) Facilities similar to static targets like changing special effects, replaying etc shall be provided.
 - (iv) An exercise where the targets appear at random points shall be provided. In this exercise, even the instructor shall not be aware in advance where the target will appear.
 - (v) An exercise similar to above (iv point) shall

be provided where in the instructor shall be able to control points of appearance of the targets.

- (vi) An exercise where each lane is assigned a target with different shape and colour combination shall be provided. The target in this exercise shall appear at random points on the screen.
- (vii) An advanced snapshot exercise where each track is assigned a different coloured target shall be provided. In this exercise the target shall appear at random points on screen scores shall be provided for inner middle outer hits, misses and the percentage of score attained. The scoring pattern shall be customized to customer's needs and shall be capable of For each snapshot target, uptime, downtime, number of exposures, and special effects shall be capable of being controlled.
- (vii) Timed fire with facility to customize the time of exposure by the user (snapshot).
- (c) **Moving Target.** The system shall provide for moving target exercises with following facilities:
 - (i) Instructor shall be capable of controlling direction and speed of moving targets.
 - (ii) Provision of controlling range and firing conditions similar to those in static targets exercise shall be available to the instructors.

Replay

- (i) The system shall be capable of replaying records of all lanes simultaneously or individual lanes only. It shall facilitate to view full trace of movement of the weapons.
- (ii) Shall be capable of replaying all lanes simultaneously or individual lanes only. In the case of individual lanes, the replaying shall be viewed in normal or zoom mode. Facility shall be provided to view full trace, from the beginning of the session to the end of the session, where the movement of the weapons needs to be visually traced, giving an opportunity of time and motion study.
- (iii) Replay shall be provided as a short trace also. In short trace mode, the point of aim and the point of impact (follow through) need to be displayed. In the case of individual lanes the replay shall be viewed in normal and zoom mode. This shall enable the instructor to interpret the mistakes and suggest corrective measures.
- (iv) Replay facility providing information on track and bullet numbers at the point of impact on the target

shall be provided.

- (v) The user shall be able to control the speed of the replay.

Performance Analysis

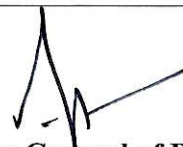
- (i) The user shall be able to carry out bullet by bullet analysis.
- (ii) Print out of the result shall include some or all of the parameters, as Per the discretion of the user, with facility to preview the printout.
- (iii) Graphical depiction of movement of weapon before release of bullet / pressing trigger, both in horizontal and vertical shall be available to the user.
- (iv) Option to facilitate rotation of targets on being hit shall be available.
- (v) Random appearance of targets at different ranges shall be available.
- (vi) Facility to customize appearance of targets and their intervals at each lane shall be available.
- (vii) The System shall provide for grouping exercises with facility to analyze groups to include feedback on percentage of accuracy in holding, aiming and trigger operations. The facility to measure the group shall be available both in inches and centimeters with an option to choose one.
- (viii) A grouping exercise which judges the grouping of bullets fired by a trainee, and provides Hold, Aim and Trigger (HAT) feed back with percentage accuracy.
- (ix) Annual Range Course. Software shall be provided to facilitate the end user to develop and incorporate annual range courses. Annual range course once designed shall appear as integrated- as a menu item- in the software.
- (x) Endurance: It shall be able to operate for 6 hours without a break and a minimum of 12 hours of operation in a day shall be possible.
- (xi) Service Life: The service life shall be minimum 10 years.
- (xii) The proposed procurement is a critical training product designed to enhance the training capabilities of soldiers. During the technical evaluation stage, the participating vendor is required to provide a mandatory virtual demonstration of the product offered, in strict accordance with the specifications outlined in the technical requirements.

Administrative Requirements

- (i) The firm should have sold such advanced weapons

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		Simulators to different police organizations in India in the last 5 years. Certificate that the systems are working satisfactorily from last one year should be enclosed along with the technical bid. (ii) In order to enable future product customization, free upgrades and R&D benefits must be available. Therefore, the firm should possess a government-recognized in-house R&D facility. A copy of the relevant certificate must be submitted. (iii) The end-user may share confidential information with the firm for necessary customization to meet its specific requirements. To ensure that the firm has information security systems in place, the firm should be ISO / IEC 27001 (ISMS) certified and complaint. (iv) The firm should be a CMMI Level 5 certified and should have already supplied the simulator to at least one State in India and have proven track record of servicing such simulators in India. (v) The maximum time required to attend a service call should be less than 15 days from the date of receipt of call but on an average should not exceed 10 working days. (iii) The proposed procurement is a critical training product designed to enhance the training capabilities of soldiers. During the technical evaluation stage, the participating vendor is required to provide a mandatory virtual demonstration of the product offered, in strict accordance with the specifications outlined in the technical requirements. (iv) Life of system should be minimum 10 years.	
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