

**GOVERNMENT OF MIZORAM
POLICE HEADQUARTERS : AIZAWL**

No.B.13011/PHQ/PROV/TENDER/25-26/ 46 : Dated Aizawl, the 28th November, 2025

TENDER NOTICE NO. 2 of 2025-26

Sealed tenders are invited in two-bid system, i.e. Technical Bid and Price/ Commercial bid by the undersigned from the manufacturers/authorized distributors for purchase of following item(s) through registered post or these can be put personally in the sealed tender box kept in the Provisioning Branch of the office of the Director General of Police, Mizoram, Aizawl.

Sl. No.	Name of items	Application fee	Earnest money
1.	Equipment for Mizoram Police	₹ 1500/- (Non-refundable)	2 % of the quoted value <i>In case of Small Scale Industries of Mizoram it will be 1% of the quoted value.</i>

TERMS & CONDITIONS

The specifications of required items are enclosed with this notice. Tenderers are advised to quote their Rate after careful study of the tender specifications as well as the following terms and conditions:-

1. The tenders should reach the office of Director General of Police latest by **1200 hrs on 29.12.2025.**
2. Tender envelope(s) must be sealed and super-scribed "**TENDER FOR EQUIPMENT FOR MIZORAM POLICE**" and Name of tenderer & Address at bottom left of the envelope which shall be addressed to Director General of Police, Mizoram.
3. Envelope for the bid shall contain the following :-
 - (i) **TECHNICAL BID** containing sealed envelopes for each items. The word "**TECHNICAL BID for Equipment for Mizoram Police due to open on 29.12.2025 at 1:00 PM**" shall be prominently marked on the top of the envelope.
Separate Technical, quality, performance aspects, commercial terms & conditions (Technical data) for each item as per Annexure II should be sealed and are to be put in the bigger envelope i.e. Technical Bid. Name of item shall be marked on the top of each envelope.
 - (ii) **PRICE BID** containing separate sealed envelope for each item. The word "**PRICE BID for equipment for Mizoram Police**" shall be prominently marked on the top of the envelope.

Separate Financial bid for each item as per Annexure III should be sealed and are to be put in the bigger envelope i.e. Price Bid. Name of item shall be marked on the top of each envelope.

- (iii) A copy of terms and conditions duly signed by the tenderer, as a token of acceptance of the same should be attached along with the tender.
 - (iv) **Proof of their manufacturing/authorized dealership/distributorship. This is subject to verification if necessary.**
 - (v) Copy of self – attested GST registration indicating GST number or documentary evidence in case of exemption.
 - (vi) Earnest Money Deposit in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Commercial Banks in favour of Director General of Police, Mizoram payable at Mizoram. No interest will be given on E.M.D. No tender will be accepted without requisite E.M.D. as mentioned in tender notice.
 - (vii) Duly filled up check list as per Annexure IV.
 - (viii) The declaration that bidder has not been blacklisted by any Govt. agency within Mizoram and abroad during last 5 years. The tender will be rejected straight way without assigning any reasons if the firm is found involved in any criminal case, declared blacklisted by any Govt. / Semi Govt. department/agencies etc.
4. The TECHNICAL BIDS will be opened first on **29.12.2025 at 1:00 PM** and the PRICE BIDS of only those bids which have been found technically acceptable after scrutiny of technical bid and technical/quality evaluation of the items will be opened for which date & time will be notified accordingly.
 5. The tenderer can remain present himself or his authorized representative at the time of opening of tender.
 6. The application fee is non-refundable. In case the firm fails to attach the receipt / demand draft of application fee, the tender shall be rejected.
 7. Incomplete tender/conditional tenders will not be accepted.
 8. The bidder must have functional service centre and documentary evidence of having functional service centre must be submitted. Dedicated/toll free telephone number for service support should be attached.
 9. All SSI units registered with NSIC/DGS&D for this item as per specification are exempted from the EMD. They have to enclose valid registration document/ exemption certificate with their tender. Bid security will not be required to be taken from Undertakings, Corporations, Autonomous bodies, Registered Societies, Cooperative Societies which are controlled/managed by Government, Government Undertakings and Companies of Union Government and Government of Mizoram. However, a Bid Securing Declaration will be taken from them.
 10. The Bid security taken from a bidder shall be forfeited in the following cases, namely:- (a) when the bidder withdraws or modifies his bid after opening of bids;

(b) when the successful bidder fails to deposit the Performance Security after fifteen days

of the issue of offer of contract; (c) when the successful bidder fails to sign the Contract in accordance with Bidding Document; (d) to adjust any dues against the bidder from any other contract with the Procuring Authority; (e) if the bidder breaches any provision of code of integrity prescribed for bidders in rule 64 of Mizoram Public Procurement Rules, 2020 and Rule 175 of GFR 2017.

11. Tenderer would not be permitted to alter or modify their bids after expiry of the deadline for receipt of bids.
12. The quoted price must be inclusive of all taxes and other charges, etc. No claim for taxes/charges will be entertained at a later stage. Nothing over and above the quoted price would be payable to the successful bidder. Tenderer must quote the net price both in words as well as in figures. Any over writing/cutting, etc. render the tender invalid.
13. The firm whose rates are accepted will have to deposit 5% of the total cost of the item as Performance Security in the forms of (a) Banker's Cheque of a scheduled bank (b) Bank guarantee (C) Fixed Deposit Receipt of a Scheduled Bank before the supply order is placed to the firm. Performance security should be deposited within 21 days from the date of issue of Letter of Acceptance. Formal award of contract is to be issued only after receipt of the prescribed Performance Security.
14. Performance security shall remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier/contract. In case, the firm does not complete the supply within the delivery period, **liquidated damage charges will be charged @ 2% of total cost per month of the item and action will be taken to blacklisting the firm and forfeiture of its Security Money. No interest will be given on Security Money.**
15. In case the firm fails to deposit the performance security money within the stipulated time, the EMD of the firm will be forfeited.
16. The Purchase Committee, in order to satisfy itself can order on the spot enquiry to verify the soundness & capability of the item and any other information given by the tendering firms.
17. The Purchase Committee reserves the right to relax any terms and condition in the Government interest, with the approval of competent authority. The Purchase Committee reserves the right to reject any tender or all tenders without assigning any reasons thereof.
18. The rates will be valid till supply of the item is completed, in all respect.
19. The rates will be F.O.R. at Aizawl - 796001.
20. In case the firm fails to supply the item within stipulated delivery period, the item will be procured from the open market, if so desired by Purchase Committee and the difference of cost, if any, will be recovered from the Security Money and pending bills of the defaulting firm, by calling explanation after issuing notice.

21. The quantity of the items mentioned in the tender notice can be increased or decreased upto twenty five percent without any change in the unit price or other terms and conditions of the bid and bidding documents, at any stage till the delivery of consignment is completed.

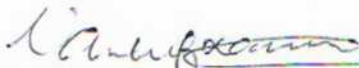
The payment will be made on receipt/acceptance of store in good condition as per prescribed specification. No advance payment will be made. No claim for interest in case of delayed payment will be entertained by the Department.

22. All disputes are subject to the jurisdiction of the Courts in Aizawl.
23. In case of violation of any clause of contract/agreement deed, the explanation of the firm can be called by issuing show cause notice. If the reply is not found satisfactory, Security Money can be forfeited as well as action for blacklisting can also be taken prior to taking any legal action.
24. Foreign Companies shall participate in the tender, only through their Distributors / Agent in India. No foreign company shall be entertained directly.
25. In case of any differences, the firm can be called for negotiation to patch up the differences on table prior to approaching court.
26. The bidder should carry a warranty/guarantee of subjected store for a period of at least one year.


(VANLALFAKA RALTE) AIGP (Mod.)
for Director General of Police
Mizoram, Aizawl.

No.B.13011/PHQ/PROV/TENDER/25-26/⁴⁶~~48~~ : Dated Aizawl, the 28th November, 2025
Copy to :-

1. The Director, I&PR for publication in the newspaper. Gist of the tender enclosed herewith for publish in 2 (two) leading local newspaper for 2 consecutive days.
2. In-Charge, Mizoram Police Website for information and necessary action.
3. Notice Board.


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for Director General of Police
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TECHNICAL SPECIFICATIONS

Sl. No.	Item	Qty.	Minimum technical specification required
1.	Digital (Tier-II) TDMA based VHF High Band Hand Held set with full accessories including spare battery & one No. of programming kit.	150 nos.	GENERAL Frequency Range : VHF (136 – 174 MHz) TDMA : 2 — slot Channel Capacity : 255 or more (Set with display) 16 Channel (Set without display) Channel Spacing : 12.5KHz Battery Capacity : Li-ion/Li-poly rechargeable battery of capacity 2000mAh or higher capacity. Complying applicable BIS Standard Average battery duty Cycle 5/5/90 : Digital: 10hrs or more Analog : 8hrs or more Frequency Stability : ± 1.5 PPM or better Antenna Impedance : 50Ω Antenna : Helical Antenna Weight : Less than 500gms with battery EMI/EMC : ETSI EN 301 489-1 & ETSI 301 489-5/ Air Interface Standard: Shall be open Standards DMR Tier-II TRANSMITTER RF Power Output : VHF- 1 to 5 Watts (programmable) UHF- 1 to 4 Watts (programmable) FM Emission : 11KOF3E, 7K60FXE, 7K60FXD, 7K60FXW Digital Modulation : 4FSK Modulation Limiting : ± 2.5KHz @ 12.5KHz FM Hum & Noise : -40dB or better Adjacent Channel Power: -60dBc or better Audio Response : +1, -3dB Audio Distortion : Less than 3% Digital Vocoder : AMBE+2 Communication Security: System should have inbuilt encryption and should (Optional) also have provisions to support 3rd Party Encryption. RECEIVER Sensitivity (Analog) : 0.30μV (12dB SINAD) or better Sensitivity (Digital) : 0.30μV at 5% BER or better Adjacent Channel Selectivity: 60Db or better Inter-modulation : 70dB or better Audio Output : Minimum 500mW Audio Distortion : Less than 3% ENVIRONMENTAL Operating Temperature: -30°C to +55°C Storage Temperature : -40°C to +70°C Humidity : 95% Max. at +40 °C non-condensing Vibration : MIL-STD-810 F/G Shock & Drop : MIL-STD-810 F/G Water intrusion & dust: MIL-STD-810 F/G or IP-67 Salt : MIL-STD-810 F/G

Rain : MIL-STD-810 F/G

Low Pressure : MIL-STD-810 F/G

Feature wise Configuration:

ACCESSORIES

Battery Charger

Input voltage : 230V±10%, 50Hz

Output Voltage : As per battery pack

Type of Battery Charger: Li-ion/Li-Poly

Protection : (1) Reverse polarity protection
(2) Short circuit protection

Indication : Visual indication for all modes of charging status

Charging time : Standard chargers – 6 to 14 Hrs
Rapid Charger – 1 to 3 Hrs

No. of Charging Pocket: 1/ 2/6 (vendor to quote accordingly)

Hand free Kit (VOX unit with: The offered sets should be compatible with any one PTT) (optional) or more of the following variants :-

1. Bone Conduction
2. Ear Plug
3. Headphone, etc.

Programming Kit : All necessary Software and Hardware required for programming of the set independently for lifelong support with regular updates.

Literature :

a) User manual with each radio sets should be provided free of cost in soft as well as hard copy.

b) Technical repairing & maintenance manual, with complete block diagram, circuit layout, PCB layout, component & wiring diagram etc. should be provided as per user's requirement in soft as well as hard copy.

No. of Battery : Two lithium-Ion or Li-Polymer batteries with each radio set.

Case : One good quality case with belt clip & shoulder strap to house the Radio Sets in operation.

Simple press to talk

Low battery alert

Continuous Tone Coded Squelch System (CTCSS)

Mixed Mode Operation (analog and digital)

All features of configuration VH1

Any one of 2-Tone/5-Tone/ DTMF signaling

Busy Channel Lockout.

Selective call Decode / Encode

Capable of VOX hand free operation

PTT ID Encode

Channel Scanning with call quieting facility

Emergency SOS/SIREN

Talk around Mode

Automatic Number Identification (ANI)

Text message and predefined message (Optional with keypad)

All features of configuration VH2

Should have built-in GPS feature with following specifications:

			i. Time to First Fixed (TTFF) cold start : <2minutes ii. Time to First Fixed (TTFF) hot start : <20seconds Horizontally accuracy : <10 meters
2.	Digital Mobile Radio (Tier-II) TDMA based VHF High Band set with full accessories including 3db GPA vehicular antenna RG 217 Coaxial cable & one No. of programming kit	80 nos.	GENERAL Frequency Range : VHF (136 – 174 MHz) TDMA : 2 – slot Channel Capacity : 255 or more (Set with display) Channel Spacing : 12.5KHz Operating Voltage : 10.8V to 15.6V DC Protection : a) Reverse polarity protection b) Protection against high VSWR Frequency Stability : ± 1.5 PPM or better Antenna Impedance : 50 Ω Weight : Less than 2 kg EMI/EMC : ETSI EN 301 489-1 & ETSI 301 489-5/ Air Interface Standards: Shall be open Standards DMR Tier-II TRANSMITTER RF Power Output : 5 to 25 Watts or More (programmable)) FM Emission : 11KOF3E, 7K60FXE, 7K60FXD, 7K60FXW Digital Modulation : 4FSK Modulation Limiting : ± 2.5 KHz @ 12.5KHz FM Hum & Noise : -40dB or better Adjacent Channel Power: -60dBc or better Audio Response : +1, -3dB Audio Distortion : Less than 3% Digital Vocoder : AMBE+2 Communication Security: System should have inbuilt encryption and should also (Optional) have provision to support 3rd Party Encryption. RECEIVER Sensitivity (Analog) : 0.30 μ V (12dB SINAD) or better Sensitivity (Digital) : 0.30 μ V at 5% BER or better Adjacent Channel Selectivity: 60dB or better Inter-modulation : 70dB or better Audio Output : Minimum 3W Audio Distortion : Less than 3% ENVIRONMENTAL Operating Temperature: -30°C to +55°C Storage Temperature : -40°C to +70°C Humidity : 95% Max. at +40 °C non-condensing Vibration : MIL-STD-810 F/G Shock & Drop : MIL-STD-810 F/G Water intrusion & dust: MIL-STD-810 F/G or IP-54 Salt : MIL-STD-810 F/G Rain : MIL-STD-810 F/G Low Pressure : MIL-STD-810 F/G
3.	Yagi Antenna 156.6 MHz to 174 MHz	15 nos.	• Impedance : 50Ω • VSWR : Less than 1.5 • Gain : 6 – 12 dB • Material : Corrosion resistant aluminium alloy • Weight : Light weight, easy for installation • Durability : Design to withstand harsh weather condition including strong wind.

4.	LED Video Wall (25 sq.ft)	7 nos.	- Pixel Pitch : 2.5mm - Scan mode : 1/32S - LED Type : SMD 1919 - Modul Size (mm): 320*160*16.1 - Display size : Customised - Cabinet material : Mild steel structure - Screen resolution: Customised - Power Supply : 300W - Control system : Novastar/Huidu/ColorLight - Connectivity option: HDMI/LAN/VGA/USB/SDI - Playable Formats: Video/Image/Text and Etc - Pixel Density : 147456/Sqm - Brightness : >800 Nits - Structure type : Wall Mount - Color Temperature: 3000 - 10000K (Adjustable) - Temperature Range: (-10 to 50) Degree - Humidity : 10% - 80% RH - Power Consumption (W): 900W/m2 - Optimum viewing Distance: More than 2.5 meter - Viewing Angle : Horizontal: 160° Vertical 130° - Cabinet access : Front Access - LED Life Span : 100000 Hours - Refresh Rate : Upto 384Hz - Color : RGB - Lamp Color : White SMD - Protection Level : IP32
5.	Firing Simulator	1 no.	<u>TECHNICAL SPECIFICATIONS OF ADVANCED WEAPONS SIMULATOR, 06 LANE WIRELESS</u> General Specifications : - The system shall be structured to take a soldier gradually to advanced levels of training. The training shall be structured at following six levels. - Level I: Squad post or basic marksmanship Skills. - Level II: Grouping fire at short ranges. - Level III: Application and classification at long ranges. - Level IV: Advanced training for moving target/pop up targets - Level V: Engagement in CGI based tactical scenarios. - Level VI: Judgmental training in video based scenarios. - It should support all small Fire Arms (5.56 INSAS Rifle, INSAS LMG, 9 mm Carbine, MP5, 9mm Pistol, AK 47, Glock 19, SLR 7.62, Glock 17). Vendor should supply 01 No AK-47 dummy weapons and 01 No INSAS dummy weapons along with system. - Shall have computer based tutorials for the trainees prior to firing. - 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. - Ambidextrous firing shall be possible. - Advanced CGI scenarios shall be created wherein all 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.

7. User shall add the effect of blasts and smoke in the computer generated scenarios (CGI) scenarios at predetermined time and specific intervals.
8. **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.
9. 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 authorising system, which will enable the user to provide video and the authorising software, should identify "Region of Interest" on human body automatically.

Operational Environment /Terrains

10. 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

11. System shall be able to fire different weapon simultaneously at different lanes each with different ranges.
System should have the provision of firing practices in different lanes with different firer specified exercises.
- 12.(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

13. Different types of targets shall be provided including Fig 11, Fig 12, 1Ton 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 mtrs in individual lanes or in all the lanes simultaneously.
14. The system shall be of Six 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.
15. Controller shall be able to assign specific number of rounds to individual lanes or to all the lanes simultaneously, with one entry.
16. Additional targets if required by user shall be included. Each lane shall be capable of using different weapons.
17. 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.

		18. Horizontal and vertical graph capturing movement of barrel before firing shall be provided. 19. 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. 20. 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. 21. 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. - Ambush Attack - Patrol - Raid Attack - Raid Defence - Cordon and Search - House Clearance Drill - Hostage Rescue Apart from this there should be a module that helps instructor to generate scenarios of his choice and load them for exercise. Environmental Conditions 22. System shall be capable of simulating following conditions:- - Different modes of sky, such as clear, sparsely clouded densely clouded and rainy conditions. - Wind velocity with direction and the resultant effect on bullets shall be seen at the target. - Different times of the day i.e dawn, day, dusk and night allowing instructor specify any point in day. - Fog conditions with capability of depicting visibility range in meters. All the simulations shall be able to be controlled by the instructor. 23. System shall be capable of integrating additional targets as desired by the user. Once integrated the targets shall appear in menu of the software. 24. System shall be capable of depicting ranges from 5 to 2000 mtrs in individual lanes or in all the lanes simultaneously. 25. The system shall provide CO2 based magazine to create realistic firing experience as per each weapon being fired on the system. Documentation 26. (a) The system shall be able to store and display complete details of trainees including their personal details, score, date of firing and analysis. - 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. - Complete trainee's details shall be stored including their
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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.

27. 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.

28. Analysis of firing and corrective action shall be suggested by software.

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

30. The system should be able to generate the report of complete trainee assessment.

Calibration

31. The system shall have facility for weapons calibration with the provision of storing details of the calibration.

Exercises

32. Squad Post Training:

(a) The system shall provide facilities of squad post training in normal & advanced modes like moving targets with gradual increase in degree of complexity.

(b) 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. Feedback as to the percentage of time the trainee was on target shall be displayed.

33. 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.

viii) 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.

ix) 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

34.(a) 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.

(b) 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.

(c) 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.

(d) Replay facility providing information on track and bullet numbers at the point of impact on the target shall be provided.

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

Performance Analysis

35. The user shall be able to carry out bullet by bullet analysis.

36. 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.

37. Graphical depiction of movement of weapon before release of bullet/pressing trigger, both in horizontal and vertical shall be available to the user.

38. Option to facilitate rotation of targets on being hit shall be available.

39. Random appearance of targets at different ranges shall be available.

40. Facility to customize appearance of targets and their intervals at each lane shall be available.

41. 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 centimetres with an option to choose one.

42. A grouping exercise which judges the grouping of bullets fired by a trainee, and provides Hold, Aim and Trigger (HAT) feedback with percentage accuracy.

43. 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.

Miscellaneous.

44. a) The software with Devnagri Script should also be supplied.

b) The Proof of satisfactory after sale service should be enclosed from at least 5 different users in India.

c) The warranty will be of minimum one year

d) The AMC clause should allow for AMC after expiry of the warranty.

e) The system should work within normal voltage of 220 volts AC single phase

f) The Computer with latest configuration

g) The vendor should have supplied at least 50 such systems to security forces

h) Software upgradation, if any during the warranty period should be updated at free of cost.

45. 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.

46. Service Life:- The service life shall be minimum 10 years. Live demonstration of complete product need to be shown at the time of technical evaluation.

47. Live demonstration of complete product need to be shown at

			the time of technical evaluation. Administrative Requirements 48.(a) The firm should have sold such advanced weapons 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. (b) A reasonable level of in house R&D back up of the manufacturer in India is desirable as he end user would like to constantly review and upgrade the technology to cater to future training requirements. Such R&D facility should be certified by Government of India. c) Proof of past supplies and performance certificates to be enclosed. d) Should have a minimum turnover of Rs. 30 Crores. (e) 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. (f) 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. A proof of satisfactory after-sales-service should be enclosed from at least 3 different users situated in India. (g) The maximum time required to attend a service call should be less than 7 days from the date of receipt of call but on an average should not exceed 4 working days. (h) Complete demonstration of the product need to be shown at the time of technical evaluation. (i) Life of system should be minimum 10 years. 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.
6.	Hand Held Metal Detector	82 nos.	Technology • Pulse induction technology, transmitter / receiver with automatic instant retune and should be compliant to NIJ-0602.02 with Indoor and Outdoor Operations Operating Frequency • Approx. 95 KHz. + 5 KHz. Audio Frequency • Approx. 2 KHz Weight • 390 g (with battery), Dockingstation (with power adapter):755 g Operating Temperature &Storage Temperature • -40° Cto +70° C • -40 Cto80 ° C Power source & endurance • Standard 9V rechargeable / disposable battery. Provided with CONTACT Battery charger. The charger should be

recharging without electrical contact.

Detection Range

- Should detect a small metal object like Gem Clip from a distance of 1 inch.
- Instant response to all metals.
- Indicators
- Audio & Visual alert & vibration
- Low battery indicator

Power Control

- Push button / Press ON / OFF Switch

Adjustments and provisions

- Provisions for adjustment of Sensitivity

Safety

- Safe for heart pacemakers & non-interference with magnetic recording material.

Relative Humidity

- 0 to 98% (without condensation).
- Protection against environmental conditions, 0 to 95% humidity

Warranty

- One year minimum warranty

Sale, service & Availability of Spare parts

- Availability of suitable repair service centre & spares parts in Delhi.

Construction

- Fabricated with sturdy, high impact proof, water proof, plastic. Interior circuitry should preferably be SMD component based.

Control

- Should be operator friendly. Pres / Push button as ON / OFF switch. Immediate automatic tuning.

Size

- Comfortable small size with or without handle.
- **Sensitivity** - Minimum detection distance equal / more than:-
 - Medium size pistol – 6 inches
 - Razor blade- 2 inches
 - Hatpin – ½ inches
 - Copper metal piece (05 gm)- 20 mm
 - Detonator (aluminum)- 30 mm
 - Single Al-Pin- close proximity

Voltage

- 6.8 to 10 VDC

Current

- 5 mA typical

Battery : Battery Life

- 100+ Hours continuous Service (AA NiMH batteries 2500mAh); up to 200 Hours with Automatic Sleep Mode
- Built-in fast battery charger in combination with the HHDS Docking station, Low battery indicator, Built-in fast battery charger in combination with Docking station.

Compliance:

- Conforms to NIJ 0602.02 standard and the NIJ 0602.03 standards for metal detection

			Dimensions: • Minimum 360mm X 80mm X 40mm
7.	Door Frame Metal Detector	58 nos.	DETECTION PERFORMANCE REQUIREMENTS & ALARM INDICATIONS DETECTION CAPABILITY • The equipment shall grant the detection of all devices containing magnetized parts (cell phones, radio transceiver, receivers, etc.) • The equipment shall grant the detection of ferromagnetic items. VISUAL AND ACOUSTICAL INDICATIONS • The unit shall have alarm indicator lights integrated into the detector column as follows: - o Green light: normal operation, no detection - o Yellow light: target detection under the alarm threshold - o Red light: ▪ Continuous light: target detection over the alarm threshold ▪ Blinking light: fault • 5 different zone indication to locate the detected item • Warning and alarm indicator sounds shall be adjustable in continuous/pulsed tones and volume. • Alarm indicator sounds shall be programmable with fixed or proportional pitch. • Bluetooth communication ability: the unit shall offer alarm monitoring via a Bluetooth headset rather than via visual and audible alarms on the unit to reduce the ability of the targeted population to discover the detection parameters of the detector with the goal of defeating the detection in the future. • The unit shall have graphic display to provide messages during use, programming and self-diagnosis alerts. TECHNICAL SPECIFICATIONS • No assembly operations required: the unit shall be immediately ready for use. • Extended battery life (minimum 25 hours). The unit shall also be fully functional when connected to 100-240VAC via the units charging adapter. • Full digital design: the unit shall be manufactured with State-of-the-Art digital components for longer life and consistent performances PHYSICAL CHARACTERISTICS • One-piece stainless steel structure and ultra-light weight. Max allowed weight: 10 Kg. • Integrated padded handle for easy transport and deployment. The unit shall be supplied complete with carrying case for personal transport and storage. PROGRAMMING AND CONNECTIVITY • 4-key keypad shall be embedded in the unit for programming and status read-out • Optional password protection for full security of optional settings and adjustments • User-accessible sensitivity level adjustments • Auto learn function: when activated, this programming

			option shall automatically measure and compensate for external electrical and mechanical interference (lights, doors, etc.) with no or the least possible reduction in detection capability - Advanced Programming Capability: The unit shall interface via RS-232 cable or Bluetooth with manufacturer software program to allow for remote programming and alarm monitoring via the program oscilloscope. ENVIRONMENTAL CHARACTERISTICS - The detector shall be compatible with indoor and outdoor use. Degree of Protection IP65. - Storage temperature: from -20°C to 60°C.(Test certificate from National Laboratory to be provided along with the Bid) - Working temperature from -10°C to 55°C. (Test certificate from National Laboratory to be provided along with the Bid) - Relative storage/working humidity: from 0 to 95 % without condensation. (Test certificate from National Laboratory to be provided along with the Bid) ELECTRICAL SAFETY, HARMLESSNESS AND CERTIFICATIONS - The unit shall be compliant with the applicable electromagnetic Standards on human exposure and pacemaker safety. - The unit shall be compliant with and certified to the applicable International Standards for electrical safety and EMC.
8.	Snake Camera	3 nos.	Insertion Tube - Outer Diameter 3.9mm - Length (meter/inch) 1.5m (59*) - Exterior Stainless Steel Braid - Waterproof Insertion Tube and Tip - Chemical Compatibility Machine Oil Heating Cl. Engine Oil, 3.5% Concentrated Saltwater, Diesel Fuel Optics - Field of View (H/V)70* / 70" - F No.F 5.3 - Depth of Field15mm - infinity - Illumination Method - 6 Super High-Intensity White LED'S Articulation - Articulation Range- 360° (over 90° in every direction) - Articulation Control -Joystick with "Direct Control" Mechanim - Rigid Distal End Length- 13mm LCD Monitor 3 Sinch Color Digital LCD GAIN Adjustment 5 Levels Still Capture / Record Function - Still Image (No LED Flash Captunng) - Time-lapse Recording (Video) Input / OutputTerminal - Video Output-2.5mm Stereo Mini Jack for RCA Video Output (NTSC/PAL) - USB Output-Mini B Terminal Ver. 2.0 Video Capture

			Output (Includes Driver / Viewer Software) • Audio Output-Monaural Flat Jack for Hands-free Earphone • Microphone Output-Monaural Flat Jack for Hands-free: Microphone Storage • Storage Media -MicroSD Card (Max,2GB) • Still Image -JPEG 400x400 pixels • Video -MotionJPEG (AVi file extension) • 400x400pixels 15-30fps • Voice recording function via the attached microphone • Storage Capacity(with 1GB MicroSD Card) • Still Image: Max. 500 pictures • Movie Recording Approx, 60 minutes Normal Mode/ Approx 9 hrs Time lapse Mode Playback Function • Still Image: Thumbnail S-image Display / Full Screen Display • Video: Play, Pause Menu Operation • Image Adjustment (Brightness, Contrast, Hue, Sharpness) • Delete Stored Image • Time and Date Setting • Language: Japanese / English • USB Mass Storage Operating Temperature (Insertion Tube) • In Air -30°C-60°C (-22°F~140°F) In Liquid:10°C-30°C (50°F-86°F) Power Supply • DCDC 6V [four AA alkaline batteries) • AC 100V-240V Operating Time • Max. 1.5 hours (with four AA alkaline batteries) Weight • 480g (without batteries at 1.5m length) Carrying Case • 495X420X145 (mm)
9.	Remote Wire Cutter	1 no.	• It should be able to cut electric wire up to 0-5mm. • It comes with a cordless remote of minimum distance of around 100 Mtr. • It is a lightweight, portable device & set in a small flight case. • It has a standard pole (height around 1 Mtr.) stand to fix the motor with a wire cutter. • Adjustable clamp to fix the system at required height. • Jaw of wire cutter opens up to 45°.
10.	X-Ray Baggage Scanner with 1 year AMC	4 nos.	General Specifications • Tunnel dimensions • Max. object size • Conveyor height 1) • Conveyor speed at mains frequency • (50 Hz / 60 Hz) • Max. conveyor load • (evenly distributed) 5)

- Resolution (wire detectability) 2)
- Penetration (steel) 2)
- External dose rate
- Film safety
- Duty cycle

X-ray Generator

- Anode voltage • cooling
- Beam direction

Image Generating System

- X-ray converter
- Grey levels stored
- Image presentation
- Digital video memory
- Image evaluation functions
- Monitor

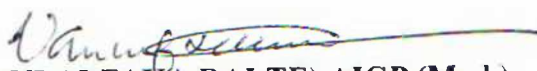
Additional Features

- Features
- System Diagnostics Features
- Options
- Accessories

Installation Data

- X-ray leakage
- CE-labelling
- Sound pressure level
- Operating- / storage temperature
- Humidity
- Power supply 3)
- Power consumption
- Protection class system / keyboard
- Dimensions • Weight 4)
- mechanical construction
- 532 (W) x 328 (H) [mm] • 20.9" (W) x 12.9" (H)
- 530 (W) x 320 (H) [mm] • 20.9" (W) x 12.6" (H) approx.
- 187 mm (7.4") / 800 mm (31.5") with carriage approx.
- 0.18 / 0.22 [m/s]
- 60 kg (132 lbs)
- Standard: 38 AWG (0.1 mm) • typical: 38 AWG (0.1 mm)
- Standard: 14 mm • typical: 16 mm
- $\leq 1 \mu\text{Sv/h}$ (0,1 mrem)
- Guaranteed even for high speed films up to ISO 1600 (33 DIN)
- 100 %, no warm-up procedure required
- 100 kV cp • hermetically sealed oil bath
- Diagonal
- L-shaped detector line
- 4096
- HI-MAT Plus Color Image (default)
- 1920 x 1200 / 24 bit
- VARI-MAT, O2PLUS, OSPLUS, HIGH, Organic Enhancement, HI-SPOT, Xplore, HDA, Opti-Zoom,
- Electronic zoom: continuous zooming (256x) and scaling down (2x), Optimized Background Contrast Mode

		• LCD flat panel monitor • display of date/time, software counters for: objects, alarms, operating hours, X-ray On hours, user ID-number, luggage marking system (acoustic), display of operating mode, REVIEW feature for up to 50 images, programmable • priority keys, standard network interface, Automatic return mode, USB 3.0 interface, Printer support, IMS (Image Store System - stores up to 20,000 images), Full Reverse Mode • Power-on Self-Test (POST), Real-time Background Diagnosis (RBD), Real-time System Feedback (RSF) • X-ACT, HI-TIP, SD Training-System, Extended Image Storage of up to 500,000 images (HDD), • Passive In-/Output Roller conveyors, 10m external Monitor/Keyboard connection cable, Monitor Theft Protection, • Mobile Heavy Duty Rollers, Various Test Bags and Cases, Foam inlay for undercarriage • meets all applicable laws and regulations with respect to X-ray emitting devices • in compliance with directives 2006/42/EC, 2014/35/EU, 2014/30/EU • < 50 dB(A) • 0 ° - 40 °C / -20 °C - +60 °C • 5 % - 95 % (non-condensing) • 100 V / 120 V / 230 V / 240 V AC (configurable); +10 % / - 15 % • 50 Hz / 60 Hz ± 3 • approx. 0.4 kVA • IP 20 / IP 43 • Desktop: 1200 (L) x 705 (W) x 726 (H) [mm] • approx. 188 kg • 47.3" (L) x 27.8" (W) x 28.6" (H) • approx. 414 lbs • Mobile: 1200 (L) x 705 (W) x 1339 (H) [mm] • approx. 270 kg • 47.3" (L) x 27.8" (W) x 52.7" (H) • approx. 595 lbs • Steel construction with aluminum panels standard color(s): RAL B11/W1F12 / stainless steel
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(VANLALFAKA RALTE) AIGP (Mod.)
for Director General of Police
Mizoram, Aizawl.

ANNEXURE - II

PROFORMA FOR TECHNICAL BID

(Enclose with technical bid)

TENDER FOR PURCHASE OF EQUIPMENTS FOR MIZORAM POLICE

Name of item :

Date of opening.....

Time Hrs.

We _____ hereby certify that we are established manufacturers/authorized representatives of M/s _____ with factories at _____ which are fitted with modern equipment and where production methods, quality control and testing of all materials manufactured or used by us are open to inspection by the representative of the purchaser. We hereby offer to supply the following items as per specifications indicated below :

Sl. No.	Description of work/ item	Unit	Qty.	Make & Model	Technical specifications	Supporting documents
<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>
1.						
2.						
3.						

It is hereby certified that we have understood all the terms and conditions specified in the tender document and are thoroughly aware of the nature of job required to be done and goods/items to be supplied. We agree to abide by all the tender terms and conditions.

We hereby offer to carry out the job and (or) supply the goods/items detailed above or such portion(s) thereof as you specify in the notification of award.

(Signature and seal of Bidder)

Dated: _____

PROFORMA FOR PRICE SCHEDULE

(Enclose with commercial bid)

TENDER FOR PURCHASE OF EQUIPMENTS FOR MIZORAM POLICE

Name of item :

Date of opening.....

Time Hrs.

We _____ hereby certify that we are established manufacturers/authorized representatives of M/s _____ with factories at _____ which are fitted with modern equipment and where production methods, quality control and testing of all materials manufactured or used by us are open to inspection by the representative of the purchaser. We hereby offer to supply the following items at the prices indicated below :

Sl. No.	Description of work/ item	Unit	Qty.	Unit Price In Indian Rupees	Extended Price In Indian Rupees	GST in Indian Rupees		Other Govt. Levies, if any (To be specified)	Incidental charges, if any (To be specified)	Price per unit (Column d+g+h+i)	Total Price FOR Destination In Indian Rupees
						%	INR				
<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i</i>	<i>j</i>	<i>k</i>	<i>l</i>
1.											

It is hereby certified that we have understood all the terms and conditions specified in the tender document and are thoroughly aware of the nature of job required to be done and goods/items to be supplied. We agree to abide by all the tender terms and conditions.

We hereby offer to carry out the job and (or) supply the goods/items detailed above or such portion(s) thereof as you specify in the notification of award.

(Signature and seal of Bidder)

Dated: _____

CHECK LIST

Sl. No.	Type of Document	Details	Yes / No
A	<u>DOCUMENTS REQUIRED TO BE ATTACHED WITH TECHNICAL BID</u>		
1.	E.M.D. in favour of Director General of Police, Mizoram, Aizawl - 796001	Name of Bank : _____ In the form of _____ amounting to ₹ _____ or Certificate regarding registration with DGS&D, NSIC if claim EMD exemption as the case may be	
2.	GST Registration Certificate	Attach self-attested Copy of GST registration or GST Exemption Certificate as the case may be.	
3.	Authorization letter / certificate	Copy of OEM certificate/authorized distributorship/dealership.	
4.	Signed copy of T&C	Copy of terms and conditions duly signed with seal of the firm, in token of acceptance of terms and conditions.	
5.	Application fee	Receipt or demand draft for who have downloaded from the website as the case may be.	
6.	Declaration	Declaration that bidder has not been blacklisted by any Govt. agency within Mizoram and abroad during last 5 years.	
7.	Service & Support	Documentary proof of having Functional Service Centre. Dedicated/toll free telephone number for service support.	
B	<u>DOCUMENTS REQUIRED TO BE ATTACHED WITH COMMERCIAL/PRICE BID</u>		
1.	PRICE BID shall contain price only and no other documents shall be enclosed with the price bid.		

SIGN. OF TENDERER _____

NAME IN BLOCK LETTERS: _____

FULL ADDRESS : _____

SEAL

TENDER FORMAT
TENDER FOR PURCHASE OF EQUIPMENTS FOR
MIZORAM POLICE

1. NAME OF THE FIRM : _____
2. CORRESPONDENCE ADDRESS
WITH TELEPHONE AND FAX NO : _____
3. LOCAL ADDRESS WITH TELEPHONE
AND FAX NO. : _____
4. WHETHER REGISTERED WITH NSIC
/ DGS&D IF YES ATTACH COPY : _____
5. GST REGISTRATION & GST
CLEARANCE CERTIFICATE : _____
6. COPY OF AUTHORISED DISTRIBUTOR
/ DEALERSHIP/MANUFACTURER : _____
7. SPECIFICATIONS OF THE SYSTEM
ALONGWITH LITERATURE/BROCHURE: _____
8. APPLICATION FEE : _____
9. EARNEST MONEY DETAIL : _____
10. COPY OF TERMS AND CONDITION
DULY SIGNED : _____

SIGNATURE OF THE TENDERER
WITH STAMP.

