संख्या. पी-63013/194/01/2024/मोड-।/सीसुवल/191-94 भारत सरकार, गृह मंत्रालय महानिदेशालय सीमा सुरक्षा वल (रसद निदेशालय: आधुनिकीकरण सैल)

(Email-comdtord@bsf.nic.in) (Fax: 011-24367683)

> ब्लाक संख्या . 10, सीजीओ काम्पलैक्स, लोधी रोड, नई दिल्ली–03 दिनांक 23 जनवरी 2025

सेवा में,

महानिदेशकः— आसाम राईफलस (through LOAR), केन्द्रीय ओद्यौगिक सुरक्षा बल, केन्द्रीय रिजर्व पुलिस बल, भारतीय तिब्बत बोर्डर पुलिस, सशस्त्र सीमा बल, राष्ट्रीय सुरक्षा गार्ड एवं पुलिस अनुसन्धान एवं विकास ब्योरो

विषयः अनुमोदित गुणात्मक आवश्यकता /परीक्षण निर्देशों का प्रेषण

तकनीकी विशेषज्ञों के उप समूह द्वारा किए गये सूत्रीकरण एवं महानिदेशक सीमा सुरक्षा बल द्वारा अनुमोदित "Medium Range Night Vision Surveillance Equipment" के गुणात्मक आवश्यकता / परीक्षण

निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता हैं।

संलग्न : उपरोक्तनुसार

3-11नन्य सिंह (आनन्द सिंह तक्षक)

उप महानिरीक्षक (रसद)

प्रतिलिपि :-

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तकनीकी विंग, सीमा सुरक्षा बल

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आपसे अनुरोध है कि "Medium Range Night Vision Surveillance Equipment" के सूत्रीकरण किये गये गुणात्मक आवश्यकता /परीक्षण निर्देशों को गृह मंत्रालय की वैबसाईट (MHA website Division of MHA+ - Police Modernization Division- Qualitative Requirements-Qualitative Requirements of Machinery & Eqpt Items with Surveillance item) पर अपलोड करने का श्रम करें।

कृपया उपरोक्तानुसार कार्यवाही करने का श्रम करें।

कृपया उक्त उपकरण के गुणात्मक आवश्यकता/ परीक्षण निर्देशों को सीमा सुरक्षा बल की वैबसाईट पर अपलोड करने का श्रम करें।

For info with request to upload the approved Revised QRs & TDs of "Medium Range Night Vision Surveillance Equipment" on GeM Portal. Copy of QRs & TDs is attached with this letter.

A

ORS & TDS OF MEDIUM RANGE NIGHT VISION SURVEILLANCE EQUIPMENT S/No **Trial Directives** QRs/ Specification 1. General Description. The device should be compact with a dimension of max 210 x 250 x 300 mm or less (handheld), lightweight (max 4 Kg with battery) Surveillance Camera to detect, recognise and identify human target during day and night time. The camera should consist of: -To be physically checked by BOO Day and Night sensor (Integrated) (a) To be physically checked by BOO Rechargeable Bty for camera Qty-02 sets (b) To be physically checked by BOO Bty charger for rechargeable Bty (c) To be physically checked by BOO AC/ DC adaptor with power cable for Bty charger (d) To be physically checked by BOO Tripod with plate & Screw for 1/4 inch (e) To be physically checked by BOO (f) Ports and Connectors. Suitable connectors should be provided for transfer of High definition video output to a TV and DVR. 2. **Physical Characteristics** Max weight of 4 Kg with Battery excluding Lightweight portable to be carried by single (a) To be physically checked by BOO accessories. operator To be physically checked by BOO Time for deployment 5 minutes or less. (b) To be physically checked by BOO 64 GB SD Card or more Recording Media (c) Start-up time of 1 minute or less To be physically checked by BOO Ouick start on switching on (d) Egpt should be able to clearly view "a human target" in Operational Characteristics. 3. total darkness in situation invisible to the human eyes. Eqpt should provide following ranges for a human target:i) Day Mode: To be practically checked (a) Day Mode Up to Quarter Moon Deep Night S.No during day time by BOO. 3000 Mtr 1000 Mtr 6000 Mtr Detection (i) (ii) Up to Quarter Moon: To be practically 2000 Mtr 600 Mtr 4000 Mtr Recognition (ii) checked in low light and moon light by 1000 Mtr 400 Mtr 2000 Mtr Identification (iii) BOO. (iii) Deep Night: To be practically checked

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| 0 | | | | | Trial Directives |
|---|-----|---|-----------------|--|---|
| 5 | | | | 14 hr. BOO | |
| | (b) | Eqpt should have autofocus features. | | To be practically | |
| | (c) | | | m resolution of 1080p (HD) or better. | Firm will produce OEM certificate. |
| | (d) | Camera should have facility to enhance Digital magnification of 4X. | | | To be checked in any approved Govt. lab |
| | (-) | , | | | To be practically checked by BOO |
| | (e) | Recording - Minimum 8 Hrs (recording day and night) in a HD quality. | | | 1000 |
| | (f) | Endurance – The camera should provide endurance of 6 hrs or more on battery. | | | To be checked in any approved Govt. lab |
| | (g) | The eqpt should be able to function in a temperature range of -10° C to +55° C. | | | To be checked in any approved Govt. lab |
| | (h) | Field of View – 2.3 ⁰ (H) x 1.3 ⁰ (V) or more | | | To be checked in any approved Govt. lab |
| | (j) | Power | | | To be checked in any approved Govt. lab |
| | | (i) | Battery | Alkaline / Li-ion /Li-ion polymer. | To be checked in any approved Govt. La |
| | | (ii) | Battery Charger | Bty charger should charge one set of bty fully in less than 3 hrs. | Books . |
| | | (iii) | Charging Cycle | Min 500 charge – discharge cycles | Firm will produce OEM certificate |
| | | (iv) | Power adaptor | Equipment should be capable to operate on direct power | To be practically checked by BOO |
| | | (14) | | supply (AC & DC) and suitable adaptors should be provided accordingly. | |
| | (k) | Video | | To be practically checked by BOO | |
| | | (i) | Line Standard | HD-SDI | To be practically checked by BOO |
| | | (ii) | Latency | 1s (max) HDMI/ AV/ USB | To be practically checked by BOO |
| | | (iii) | Data Interface | HDMI/ AV/ GSB | the checked by |

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| | Environment LG: QRs/ Specification | | | Trial Directives |
|-----|------------------------------------|--|--|---|
| En | vironme | ntal Characteristics | THE STATE OF THE S | |
| (a) | D.,. | and the state of t | | Firm will produce certificate of any Govt. |
| (b) | | ggedisation | Mil. Std. 810G | Firm will produce certificate of any |
| - | _ P | erating Temperature | $-10^{\circ}\text{C to} + 50^{\circ}\text{C}$ | Firm will plouder Lab, DRDO or NABL |
| (c) | | rage Temperature | $-20^{\circ}\text{C to} + 60^{\circ}\text{C}$ | |
| (d) | En | closure | Metal/ Mil. grade (Mil -810G) material to sustain accidental drops, scratches and water splashes. | |
| O | ptional f | eatures (Inbuilt/ Exter | 131) | SECTION 1 |
| (a) |) IR | Illuminator- In case th | ere is requirement of separate IR illuminator, it should be possible | low light, dark pitch night and in moon light by BOO at the distance specified. |
| | | | and following accessories/ features to be provided with the eqpt:- | |
| | (i) | | range of 1000 mtr or more i.e. camera should be able to detect a | |
| | | human target at a di | st of 1000 mtr, recognition at a dist of 700 mtr and identification | |
| | | at a dist of 400 mtr during total darkness. | | Eqpt performance will be checked with |
| | (ii | | Charger (Qty 01) with Bty (Qty-02) | IR illuminator in low light to ascert |
| | (ii | Picatinny Rail for IR illuminator to be mounted on eqpt. | | conditions when eqpt is unable to det |
| | (iv | | vision to mount IR illuminator on camera itself. | human target at 1000 mtr. Thereafter, |
| | (v | Weight of IR illuminator should not exceed 500 gm, in case of external IR illuminator. | | illuminator to be switched on and eqpt to tested accordingly. |
| (b) |) D | gital Magnetic Compa | ss and Inclinator (inbuilt) | To be practically checked by BOO |
| 1 | (i) | Angular Range Azir | nuth - 360° | |
| | (ii |) Angular Range Elev | ration- ± 15° or higher | |
| | (ii | Accuracy on Azimuth: - ± 30 | | |
| | | Accuracy on elevation: +3° | | To be seen to |
| (| c) R | ecorded image and video | should have day, time and year stamp. | To be practically checked by BOO |
| - | | Exposure Mode – Camera should have Auto & Manual settings of exposure | | To be practically checked by BOO |
| - | e) L | Lagar Bange Finder (Inbuilt/ External as per user requirement) | | To be checked to page |
| 1 | (i | | Class 1 Eye safe LASER min 1550 nm | To be checked by BOO |

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| /No | | | | | Trial Directives |
|-----|--|-------------------------------------|---|---|---|
| 0 | QRs/ Specification | | | 1 hy BOO | |
| | | (ii) | Range | 30 m to 2000 m | To be checked by BOO |
| | | (iii) | Accuracy | ± 5 m | To be checked by BOO To be checked by BOO To be checked by BOO |
| | | (iv) | Weight | Weight should not be more than 200 gm, in case of external LRF | To be checked |
| | (f) | Imag | e Processing | organ should not be more than 200 gm, in case of external Ext | To be practically checked by BOO |
| | | (i): | Image Stabilization | Software based image stabilization should be available | To be practically encountry |
| | | (ii) | Metadata Overlay | Target specific information like date, time, elevation, Azimuth, distance should be displayed to the user while | To be practically checked by BOO |
| | | | | observing the target. | To be practically checked by BOO |
| | | (iii) | Adaptive Contrast Enhancement Mode | User selectable mode for enabling/ disabling adaptive contrast enhancement should be available. | |
| i | | | nd Storage. The equase with roller wheels | ipment to be provided in suitable pelican box for ease of carriage | To be physically checked by BOO and firm will produce OEM certificate also. |
| | | | Operating and Techn nglish language. | ical literature for each discrete component of system should be | To be physically checked by BOO |
| 3 | Training. Training on complete system with its full accessories should be arranged at buyer's premises. In situ training of user for minimum seven days or more as deemed appropriate on operation, maintenance, fault finding and user level repairs. Trg should be conducted at least once during the conduct of any exercise. | | | | (3355363. |
| | Miscellaneous The warranty of the ear | | | | |
|). | (a) The warranty period of the Camera should be at least three years. The warranty of the equation of training by the OEM. | | | | |
| | The total technical life of camera should not be less than 8 years. | | amera should not be less than 8 years. | Firm will provide OEM certificate | |
| | | 6 Comera Battery should be 5 years. | | | Firm will provide OEM certificate |
| | (c) | Life | II | D | 0 |

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| QRs/ Specification | Product support after warranty period should be at least Five years. Pair & Maint. OEM to keep additional spare parts to include bty, buttons, lens, tripod imponents either at user loc/warchouse. Put Down Time. OEM to keep one spare eqpt with all accessories at all times at his loc which ould be provided as a replacement for faulty eqpt to reduce eqpt down time. Rection. Means target to be detected as a human or animal. Regnition. Target confirmed as a human with standing/ laying position. Put Edition. Target to be identified as enemy target with weapon, dress code etc. Puncet Rastogi), IPS ADG (Log), BSF (Dinesh Kumar), Comdt, SIW, BSF (Happy Verma), Comdt(Ord), BSF (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, DERW (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, DERW (Mukesh Kumar), 2IC, SIF (Lalit Kumar), AC/Comn, SSB (Lalit Kumar), AC/Comn, SSB (Lalit Kumar), AC/Comn, SSB | S/No | | | REAL PROPERTY OF THE PROPERTY |
|--|---|------|---|--|---|
| Repair & Maint. OEM to keep additional spare parts to include bty, buttons, lens, tripod components either at user loc/ warehouse. Eqpt Down Time. OEM to keep one spare eqpt with all accessories at all times at his loc which should be provided as a replacement for faulty eqpt to reduce eqpt down time. Note (a) Detection. Means target to be detected as a human or animal. Recognition. Target confirmed as a human with standing/ laying position. Identification. Target to be identified as enemy target with weapon, dress code etc. (Puneet Rastogi), IPS, ADG (Log), BSF (Puneet Rastogi), IPS, ADG (Log), BSF (Mukesh Kumar), Comdt, SIW, BSF (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, Defendance of the composition of | pair & Maint. OEM to keep additional spare parts to include bty, buttons, lens, tripod imponents either at user loc/warehouse. Int Down Time. OEM to keep one spare eqpt with all accessories at all times at his loc which ould be provided as a replacement for faulty eqpt to reduce eqpt down time. Interest to be detected as a human or animal. Interest to be identified as enemy target with weapon, dress code etc. Puneet Rastogi), IPS ADG (Log), BSF (Dinesh Kumar), Comdt, SIW, BSF (Happy Verma), Comdt(Ord), BSF (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, DEPW (Mukesh Kumar), SP, BPR&D (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | | | | Trial Directives |
| Repair & Maint. OEM to keep additional spare parts to include bty, buttons, lens, tripod Firm will provide OEM certificate components either at user loc/ warehouse. Eqpt Down Time. OEM to keep one spare eqpt with all accessories at all times at his loc which should be provided as a replacement for faulty eqpt to reduce eqpt down time. Note (a) (b) Recognition. Means target to be detected as a human or animal. Recognition. Target confirmed as a human with standing/ laying position. Identification. Target to be identified as enemy target with weapon, dress code etc. (Puncet Rastogi), IPS, ADG (Log), BSF (Puncet Rastogi), IPS, ADG (Log), BSF (Dinesh Kumar), Comdt, SIW, BSF (Happy Verma), Comdt(Ord), (K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, Defendance and the provide OEM certificate from the provide OEM | pair & Maint. OEM to keep additional spare parts to include bty, buttons, lens, tripod imponents either at user loc/ warehouse. Int Down Time. OEM to keep one spare eqpt with all accessories at all times at his loc which ould be provided as a replacement for faulty eqpt to reduce eqpt down time. Interest to be detected as a human or animal. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified as enemy target with weapon, dress code etc. Interest to be identified on the provide OEM certificate Firm will provide OEM certificate | 1 | (d) Product support after were | cation | will provide OEM certificate |
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| Eqpt Down Time. OEM to keep one spare eqpt with all accessories at all times at his loc which should be provided as a replacement for faulty eqpt to reduce eqpt down time. Detection | Apply Down Time. OEM to keep one spare eqpt with all accessories at all times at his loc which ould be provided as a replacement for faulty eqpt to reduce eqpt down time. Means target to be detected as a human or animal. Target confirmed as a human with standing/ laying position. Target to be identified as enemy target with weapon, dress code etc. Puneet Rastogi), IPS ADG (Log), BSF Puneet Rastogi), IPS ADG (Log), BSF (Dinesh Kumar), Comdt, SIW, BSF (Mukesh Kumar), 2IC, SIW, BSF (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, DEPW Maj Anand Singh), Sqn Cdr, NSG (S S Vipin, AC, CISF (Lalit Kumar), AC/Comn, SSB | 0. | Panain C M. | | il provide OEM certificate |
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| Recognition. Target confirmed as a human with standing/ laying position. Identification. Target to be identified as enemy target with weapon, dress code etc. (Puneet Rastogi), IPS, ADG (Log), BSF (Puneet Rastogi), IPS, ADG (Log), BSF (Dinesh Kumar), Comdt, SIW, BSF (Mukesh Kumar), 2IC, SIW, BSF (Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | Puneet Rastogi), IPS ADG (Log), BSF Puneet Rastogi), IPS ADG (Log), BSF William (Dinesh Kumar), Comdt, SIW, BSF William (Mukesh Kumar), 2IC, SIW, BSF William (Mukesh Kumar), 2IC, SIW, BSF William (Mukesh Kumar), AC, CISF William (Singh), Sqn Cdr, NSG | | Detection Means target to be detected | 8 8 | |
| (Puneet Rastogi), IPS ADG (Log), BSF (Puneet Rastogi), IPS ADG (Log), BSF (K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | Puneet Rastogi), IPS, ADG (Log), BSF (Dinesh Kumar), Comdt, SIW, BSF (Mukesh Kumar), 2IC, SIW, BSF (Maydeep Sharma), JAD, DCPW (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | | - Set to be detected as a militar | or animal. | |
| (Puneet Rastogi), IPS, ADG (Log), BSF (Dinesh Kumar), Comdt, SIW, BSF (Happy Verma), Comdt(Ord), (K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, DCF (Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | Puneet Rastogi), IPS ADG (Log), BSF (Dinesh Kumar), Comdt, SIW, BSF (Happy Verma), Comdt(Ord), BSF (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, DCPW (Mukesh Kumar), AC, CISF (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | (c) | Identification. Target to be identified as enemy target | ling/ laying position. | |
| (K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, DERW (Navdeep Sharma), JAD, DERW (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | 8.50 | to be identified as chemy target | with weapon, dress code etc. | 11 |
| (K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, DERW (Navdeep Sharma), JAD, DERW (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | | | | Thoma |
| (K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, DCPW (Navdeep Sharma), JAD, DCPW (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | | | 1 09.1.25 | 9.1.25 |
| (K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, DCPW (Navdeep Sharma), JAD, DCPW (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | | (Puneet Rastogi), IPS, ADG (Log), BSF | (Dinesh Kumar), Comdt, SIW, BSF | (Happy Verma), Comdt(Ord), BSF |
| (K L Puri), SP, BPR&D (Mukesh Kumar), 2IC, SIW, BSF (Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | Maj Anand Singh), Sqn Cdr, NSG (Mukesh Kumar), 2IC, SIW, BSF (Navdeep Sharma), JAD, DEPW (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | | | Aul | 110 |
| (Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | | | (Mukesh Kumar), 2IC, SIW, BSF | |
| (Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | Maj Anand Singh), Sqn Cdr, NSG (S S Vipin), AC, CISF (Lalit Kumar), AC/Comn, SSB | | | Aus C | a Latile |
| Jon a11/25 17ml | Goralis 1/ml | | | (S S Vigin) AC, CISF | (Lalit Kumar) AC/Comp SSB |
| | | | | 11,000 | |
| (Inspr/Tele Puran Singh), 11Br (Inspr/Tele Puran Singh), 11Br (Inspr/Tele Puran Singh), 11Br | Inspr/Tele Puran Singn), ITBP (Inspr/Tele Puran Singn), ITBP (Inspr/Tele Puran Singn), ITBP | | | | |
| | | | (Inspr/Tele Puran Singh), ITBF | (mop. wite rivair), citi | (10,5db R D Ansari), Assam Rifles |

Approved/Not approved

Director General, Border Security Force