संख्या. पी-63013/88/02/2025/मोड–।/सीसुबल 255-60

भारत सरकार, गृह मंत्रालय
महानिदेशालय सीमा सुरक्षा बल
(रसद निदेशालय: आधुनिकीकरण सैल)
(Email-comdtord@bsf.nic.in)
(Fax: 011-24367683)

ब्लाक संख्या . 10,
सीजीओ काम्पलैक्स,
लोधी रोड, नई दिल्ली–03
दिनांक 05 फरवरी 2026

सेवा में,

महानिदेशक:– 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

विषय: **अनुमोदित गुणात्मक आवश्यकता /परीक्षण निर्देशों का प्रेषण**

तकनीकी विशेषज्ञों के उप समूह द्वारा किए गये सूत्रीकरण एवं महानिदेशक सीमा सुरक्षा बल द्वारा अनुमोदित **"Multi Zone Door Frame Metal Detector-Revision"** उपकरण के गुणात्मक आवश्यकता/परीक्षण निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता हैं।

संल्गन : उपरोक्तनुसार

आनन्द सिंह 5/2/26
(आनन्द सिंह तक्षक)
उप महानिरीक्षक (रसद)

प्रतिलिपि :-

1. **तकनीकी निदेशक**
   The Technical Director
   राष्ट्रीय सूचना–विज्ञान केन्द्र, नोर्थ ब्लाक, गृह मंत्रालय, नई दिल्ली
   NIC, North Block, MHA
   New Delhi **(द्वारा ई–मेल)**
   (ई–मेल पता : mpsugandhi@nic.in)
   : आपसे अनुरोध है कि उक्त उपकरण के गुणात्मक आवश्यकता /परीक्षण निर्देशों जोकि गृह मंत्रालय की वैबसाईट (पुलिस आधुनिकीकरण संभाग) के गुणात्मक आवश्यकता पोर्टल में मशीनरी एवं उपकरण के साथ निगरानी उपकरण वर्ग के अर्न्तगत कमांक संख्या–**38** पर पहले से अपलोड है को डिलीट करने के उपरांत उक्त के स्थान पर इस पत्र के साथ संलग्न संशोधित गुणात्मक आवश्यकता/ परीक्षण निर्देशों को अपलोड करने का श्रम करें।
2. SO (IT), North Block, MHA
   (Through E-mail)
   (E-mail address**: soit@nic.in**)
   : कृपया उपरोक्तानुसार कार्यवाही करने का श्रम करें।
3. Sh. Samarth Sharma,
   Director Nodal Officer for MHA
   GeM, 3rd Floor, Jeevan Bharti Building Conaught Lane,
   Janpath Cannaught Place, N/ Delhi-110001E-mail:
   directorcategory13@gem.gov.in
   For info with request to upload the approved QRs & TDs of **"Multi Zone Door Frame Metal Detector-Revision"** on GeM Portal. Copy of QRs & TDs is attached with this letter.
4. तकनीकी विंग, सीमा सुरक्षा बल
   : कृपया उक्त उपकरण के गुणात्मक आवश्यकता/परीक्षण निर्देशों को सीमा सुरक्षा बल की वैबसाईट पर अपलोड करने का श्रम करें।
5. रसद निदेशालय (आयुद्ध अनुभाग)
   बल मुख्यालय सीमा सुरक्षा बल।
   : आपके यूओ संख्या–4893 दिनांक 03.11.2025 के सन्दर्भ में अनुमोदित उपकरण के संशोधित गुणात्मक आवश्यकता/परीक्षण निर्देशों को आपके सूचनार्थ एवं अग्रिम कार्यवाही हेतु प्रेषित जाता है।
6. फाईल।

Appendix-A

REVISED QRs & TDs OF MULTI ZONE DOOR FRAME METAL DETECTOR (MZDFMD)

S. No	QRs Parameter/ Specification	Trial Directives	Result expected/ Desired
1.	Detection :- (i) The system should be capable of detecting ferrous, non-ferrous and alloy metal concealed in the body of a person when passed through the archway. (ii) Uniform detection from top to bottom is required. (iii) Should be able to detect multiple metal objects of various weight, size and shape in all the zones simultaneously from head to toe.	To be physically checked by the BOO by passing ferrous / nonferrous and alloy metals concealed in the body of a person through the archway of DFMD and simultaneously checking all the points with reference QRs Para 1 (i)- (iii)	In all three parameters equipment should be able to detect ferrous/ nonferrous metal accordingly.
2.	Passage Dimension:- Height – Min 200 cm Breadth - Min 72 cm Width – Min 57 cm	To be physically checked by the BOO by measuring instrument.	Result should be as per the Dimension given in Para-2.
3.	Speed of Passage :- Performance of the DFMD should be independent of the speed of person passing through. This is particularly important as a person's foot may swing through the archway without touching the ground, or may come to rest on the ground between the archway pillars.	To be physically checked by the BOO making a person cross the archway at varying speed.	A person with the metallic object when passing through the DFMD archway, equipment must generate acoustic and visual alarm.

4.	Weight :- 80 Kg maximum	To be physically checked by the BOO with the help of standard weighing machine.	Weight must be as per Para-4.
5.	Power supply :- 100-260 VAC, 50-60Hz, 12-24 VDC, should be provided with internal battery backup for 6 hours minimum in operational condition.	Apply variable input of AC mains supply from 100 to 260 volt to the equipment and check the performance of the DFMD. Check the DFMD for the operation on battery and power backup in operation condition. Note down the continuous back up time from battery.	The equipment must work on 100 to 260 volt AC mains supply and have battery backup of 6 hours in operational mode.
6.	Alarm indication :- i) There should be Acoustic and Optical alarm with alphanumeric display. ii) Height on person bar display (metal locator). iii) DFMD should have low battery indication. iv) There should be a provision for suitable setting for adjustment of volume of the audible alarm to overcome the ambient noise present in the vicinity.	To be physically checked by the BOOs.	To be verified by the BOOs.
7.	Sensitivity :- DFMD should have multi-zone capability with uniform sensitivity in all zones.	To be physically checked by the BOO by concealing a metal object on different parts of the body of a person and passing through archway. The firms should submit assurance certificate in respect of QRs para 7.	BOO should physically check multi zone capability and the certificate provided by the firm.

8.	Zones:- Not less than eight real horizontal detection zones, covering full height of the equipment.	To be physically checked by the BOO. After passing a metallic item in all the zones independently and every zone should have proper indication (acoustic and visual) of the metal concealed in the body of a person.	The equipment must comply with the QRs Para 8.
9.	Calibration: - DFMD shall have inbuilt feature of both manual and automatic calibration.	To be physically checked by the BOO by passing various size of metals through the archway and the DFMD should be capable to detect small and big size metals independent of their mass. While checking the calibration of DFMD its sensitivity adjustment should not be required repeatedly.	BOO should physically check.
10.	Security :- i) There should be a provision to secure the access to the control unit by a password protected alpha numeric keypad. ii) DFMD should reset itself within 3 Sec after alarm condition. i) Unit should have traffic and alarm counter. The equipment should work in bidirectional mode.	To be physically checked by the BOO with reference to parameters (i) to (iii).	Result expected as per QRs Para 10(i) to (iii).
11.	Other features :- i) High discrimination between small masses and personal metallic objects. ii) Automatic synchronization for DFMDs located close to each other up to a distance of one feet side by side.	To be physically checked by the BOO with reference to parameters (i) to (ii).	Result expected as per QRs Para 11(i) to (ii).

12.	Static Metal compensation :- DFMD installed closed to fixed sheet or pieces of metal, which form part of the building or its fittings. The DFMD should compensate for the presence of such metal and its performance should not be degraded by the presence of metal as stated above.	To be checked by the BOO.	Result expected as per QRs Para 12.
13.	Health and Safety :- i) Magnetic field should be harmless to magnetic media, electronic devices and should be film safe.	(a) The firm should submit National/ International accredited Lab (NABL/A2LA/ILAC) certificate compliant to IEC/ EN 61000-4-8 standard. (b) The firm should also submit OEM certificate in respect of QRs para 13(i).	Certificates must be obtained from the firm for the same.
	ii) Operation of DFMD shall not be affected by infrared, ultraviolet, electromagnetic or RF radiation.	(a) The firm should submit National/ International accredited Lab (NABL/A2LA/ILAC) certificate compliant to IEC/ EN 61000-4-3 and IEC/EN 60068-2-5 (environmental test) standard. (b) The firm should also submit OEM certificate in respect of QRs para 13(ii).	Certificates must be obtained from the firm for the same.
	iii) DFMD should be harmless to pacemaker and pregnant woman.	(a) The firm should submit National/ International accredited Lab (NABL/A2LA/ILAC) certificate compliant to IEC/EN 62311 standard as per ICNIRP guidelines. (b) The firm should also submit OEM certificate in respect of QRs para 13(iii).	Certificates must be obtained from the firm for the same.

14.	Interference rejection :- i) Interference, which is 'mains-borne' or radiated by an external source, should not cause the DFMD to raise the alarm spuriously. It should be possible to use equipment such as radio, portable telephone, walkie-talkie sets, X-ray monitors etc. at a distance of one mtr from the archway without causing spurious alarms. ii) Moving metal beyond one mtr from DFMD should not affect performance of the DFMD. It should be possible to move metallic items like trolleys, metallic gate opening/ closing one mtr away from the DFMD without the generation of false alarm.	(a) To be physically checked by the BOO as specified at QRs 14 parameters from (i) to (ii). (b) The firm should also submit National/ International accredited Lab (NABL/A2LA/ILAC) certificate compliant to CISPR 11 standard for 14(i).	BOO should physically check. A certificate must be obtained from the firm for 14(i).
15.	Operating Temperature :- DFMD shall work satisfactorily without any deterioration in performance within the temperature range of -20 to +55 °C, RH up to 90% non-condensing.	The firm should submit National/ International accredited Lab certificate in respect of Operating temperature and RH.	Firm must be submit Government, National/ International accredited lab certificate in respect of the same.
16.	Accessories to provide :- (i) Operating manual for the user. (ii) Standard Test Piece (STP) for testing of equipment to be provided by the supplier with each equipment.	To be physically checked by the BOO.	Operating manual and Standard Test Piece (STP) must be provided with each equipment.

	Optional (iii) Should have a ruggedized Polypropylene shock proof container for safe transportation of product compliant to IP-65 and Latest Mil Std. (As per requirement of the Indenter/user).	The firm should submit National/ International accredited Lab certificate for compliant to IP 65 and MIL STD 810G/H in respect of ruggedized polypropylene shock proof.	A certificate in this regard must be obtained from firm.

(Mahesh Kumar Aggarwal), IPS, SDG(HR/Log), BSF

(Sunil Kumar), Comdt (Ord) BSF

(K L Puri), SP, BPR&D (through VC)

(Lt Col. Sumit Vashisht), Assam Rifle (through VC)

(Mukesh Kumar), 2IC, SIW, BSF

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Approved /Not Approved

approved

Director General
Border Security Force