संख्या. पी-63013/88/02/2025/मोड–।/सी0सु0बल/ 4574-98

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 27 नवम्बर 2025

वरिष्ठ तकनीकी निदेशक
The Senior 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)

Sub: **Request for comments of stakeholders/OEM on draft QRs & TDs**

कृपया गृह मंत्रालय के पत्र संख्या IV-24011/12/2011-Prov-I(part)(CFN 3300890)-1710 दिनांक 31st Aug 2015 के सन्दर्भ में।

2. उपरोक्त विष्यान्तर्गत सूचित किया जाता है कि तकनीकी विशेषज्ञों के उप समूह द्वारा **"Multi Zone Door Frame Metal Detector (MZDFMD)-Revision** के गुणातमक आवश्यकता/परीक्षण निर्देशों के मसौदें का प्रारुप दिनांक 26 नवम्बर 2025 को आयोजित सभा के दौरान तैयार किया गया, जिसको इस आशय से प्रेषित किया जा रहा है कि उक्त उपकरण के गुणातमक आवश्यकता/परीक्षण निर्देश को गृह मंत्रालय की वैबसाईट पर 15 दिन के लिए पुनः अपलोड करने का श्रम करें।

संलग्नः उपरोक्तनुसार

कपिल चाहर
(कपिल चाहर)
उप कमाण्डेंट (मोड)

<u>प्रतिलिपि</u> :-

1.	SO (IT), North Block, MHA **(Through E-mail)** **(E-mail address:** soit@nic.in**)**	:	उपरोक्त उपकरण के गुणातमक आवश्यकता /परीक्षण निर्देशों के मसौदा को आपके सूचनार्थ एवं अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।
2.	IT Wing, FHQ BSF	:	उपरोक्त उपकरण के गुणातमक आवश्यकता/परीक्षण निर्देशों के मसौदे को सीमा सुरक्षा बल की वैबसाईट पर 15 दिन के लिए पुनः अपलोड करने का श्रम करें। आपसे अनुरोध है कि उक्त मसौदे को गृह मंत्रालय की वैबसाईट पर भी अपलोड करने हेतु निम्नलिखित पतों पर ई–मेल करने का श्रम करें:- (a) Technical Director, NIC, North Block, MHA **(E-mail : mpsugandhi@nic.in)** (b) SO (IT), North Block, MHA **(E-mail :** soit@nic.in**)**
3.	Prov Dte (Ord Sec), BSF	:	For information w.r.t your UO No.4893 dated 03.11.2025.
4.	File.		

भारत सरकार, गृह मंत्रालय
महानिदेशालय सीमा सुरक्षा बल
(रसद निदेशालय: आधुनिकीकरण सैल)
ब्लाक संख्या . 10,सीजीओ काम्पलैक्स,लोधी रोड, नई दिल्ली–03
(Email-comdtord@bsf.nic.in)
(Fax: 011-24367683)

संख्या. पी-63013/88/02/2025/मोड–।/सीसुबल/ दिनांक ___नवम्बर 2025

विषय : **"Multi Zone Door Frame Metal Detector (MZDFMD)-Revision के गुणातमक आवश्यकता/परीक्षण निर्देशों पर हितधारकों/ निर्माताओं/ विक्रेताओं की टिप्पणी के लिए अनुरोध।**

"Multi Zone Door Frame Metal Detector (MZDFMD)-Revision के गुणातमक आवश्यकता और परीक्षण निर्देशों को परिशिष्ट 'ए' के रुप में संलग्न किया गया है। हितधारकों/निर्माताओं/विक्रेताओं से अनुरोध किया जाता है कि वे उस उत्पाद की विस्तृत एवं स्टीक जानकारी दें। साथ ही प्रत्येक पैरामीटर के अनुरुप अपने उत्पाद के सही विवरणों को प्रस्तुत करें । सिर्फ 'अनुपालना' या ' अनुपालना नहीं' वाली टिप्पणी स्वीकार नहीं की जाएगी।

- क्या आप मूल उपकरण निर्माता/विक्रेता हैं?
- यदि विक्रेता मूल उपकरण निर्माता का विवरण देता है।
- मूल उपकरण निर्माता से प्राधिकरण प्रमाण पत्र।
- उत्पाद की मूल सूची।
- उत्पाद ब्रोशर एवं साहित्य रचना का ब्यौरा

1. आवश्यक जानकारी/विवरण 11 दिसम्बर 2025 तक निम्नलिखित पते पर भेजे जा सकते हैं।

रसद निदेशालय, सीमा सुरक्षा बल
लेवल–8, ब्लाक–10,
केन्द्रीय कार्यालय परिसर, लोधी रोड,
नई दिल्ली–110003
ईमेलः– comdtord@bsf.nic.in

2. शीघ्र प्रतिकिया का अनुरोध किया जाता है।

(कपिल चाहर)
उप कमाण्डेंट (आधुनिकीकरण)

Government of India
Ministry of Home Affairs
Directorate General Border Security Force
(Prov Dte: Mod Cell)
Block No.10, CGO Complex, Lodhi Road, New Delhi-03
(Fax: 011-24367683, Email-comdtord@bsf.nic.in)

No. P-63013/88/02/2025/Mod-I/BSF/ Dated, the __ Nov 2025

Subject : Request for comments of stakeholders/OEM/Firms on QRs (Qualitative Requirements) & TDs (Trial Directives) of "Multi Zone Door Frame Metal Detector (MZDFMD)-Revision

The draft QRs/TDs **"Multi Zone Door Frame Metal Detector (MZDFMD)-Revision** is attached as **Appendix 'A'.** The OEMs/Vendors are requested to forward information of the product, which they can offer and also forward correct specifications of their system against each parameter. Only complied or not complied remarks will not be accepted. The firms are also requested to furnish the following details:-

- Whether you are OEM/Vendor?
- If vendor details of OEM.
- Authorization certificate from OEM.
- Original catalogue of the product
- Brochure/Literature of the product

2. The required information/details may please be forwarded at the following addresses by 11 Dec 2025.

Directorate General BSF,
Level-8, Block No. 10,
CGO Complex, Lodhi Road,
New Delhi-110003
Email: comdtord@bsf.nic.in

3. An early response is requested.

27/11/25

(Kapil Chahar)
Dy. Commandant (Mod)

Appendix –'A'

DRAFT QUALITATIVE REQUIREMENTS AND TRIAL OF MULTI ZONE DOOR FRAME METAL DETECTOR (MZDFMD) – REVISION

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 (meatal 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.	The firm should submit National/ International accredited Lab (NABL/A2LA/ILAC) certificate for the same	A certificate must be obtained from the firm for the same.
	ii) Operational of DFMD shall not be affected by infrared, ultraviolet, electromagnetic or RF radiation. Offered equipment shall comply with CE or equivalent safety/immunity standard.	The firm should submit National/ International accredited Lab (NABL/A2LA/ILAC) certificate for the same	A certificate must be obtained from the firm for the same.
	iii) DFMD should be harmless to pacemaker and pregnant woman.	The firm should submit National/ International accredited Lab (NABL/A2LA/ILAC) certificate for the same as per ICNIRP guidelines.	A certificate 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/	To be physically checked by the BOO as specified at QRs 14 parameters from (i) to (ii).	BOO should physically check.

	closing one mtr away from the DFMD without the generation of false alarm.		
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.

तकनीकी विशेषज्ञों के उप समूह द्वारा यह निश्चित किया गया है कि उक्त गुणातमक आवश्यकता को अधिक बेहतर बनाने के लिए गृह मंत्रालय एवं सीमा सुरक्षा बल की वैबसाईट पर विक्रेताओं/फर्मों के सुझाव प्राप्त करने हेतु 15 दिनों के लिए अपलोड किया जाए।

नोट – सभी विकताओं/फर्मों से निवेदन है कि अपने सुझावों के साथ निम्नलिखित कागजात संलग्न कर ई–मेल पता comdtord@bsf.nic.in पर भेजने का श्रम करें:–

1. उत्पाद की वास्तविक विवरण पुस्तिका।
2. उत्पाद की साहित्यिक रचना का ब्यौरा।
3. गुणातमक आवश्यकताओं के उपर व्यापक टिप्पणीयॉं।

27/11/25

(कपिल चाहर)
उप कमांडेण्ट (आधुनिकीकरण)