



**OFFICE OF THE COMMISSIONER OF CUSTOMS  
'CUSTOM HOUSE', NAVRANGPURA, AHMEDABAD - 380 009**

F. No. I/22-13/ 2013-ADM

Dated-08.10.2013

**Tender Notice**

Sealed tenders are invited from the reputed firms for supply of One (1) Door Frame Metal Detector with specification given below to be purchased and installed at SVPI Airport, Ahmedabad.

Sr. No.	Item	Specifications	Quantity
1	Minimum 9 Zone Door Frame Metal Detector with Real Time Recording & Touchscreen Display	As per Annexure - A	1

2. The envelope containing sealed quotation containing technical and financial bids separately shall be superscribed as "Quotations for supply of Door Frame Metal Detector" and be addressed to the "Additional Commissioner of Customs (P&V), Office of the Commissioner of Customs, Customs House, Navrangpura, Ahmedabad-380009. The rates quoted should be inclusive of all taxes and transportation charges.

3. The tender documents can be obtained from the Administrative Officer (Admn), Office of the Commissioner of Customs, Second floor, Custom House, Navrangpura, Ahmedabad-380009. The technical specifications and terms and conditions are mentioned in Annexure A and B respectively. Details can also be accessed on departmental website [www.ahmedabadcustoms.gov.in](http://www.ahmedabadcustoms.gov.in) and [www.cbec.gov.in](http://www.cbec.gov.in). **Last date for submission of Tender is 21.10.2013 up to 15.00 Hrs.** Quotations received after the last date will not be entertained.

4. Details of "After Sales Services Facility", including name, address, contact nos, etc should be mentioned in the offer.

5. This office reserves the right to reject any/all the tenders without assigning any reasons thereof.

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**Assistant Commissioner(P&V)**  
Customs : Ahmedabad

**“Annexure-B”**

**Terms and conditions**

1. The consolidated rate should be quoted of total supply and installation and inclusive of all taxes applicable i.e. transportation, loading/unloading, installation etc..
2. Supply and installation of the items should be completed positively within 1 week of awarding order.
3. The quality of items supplied and installation work shall be reviewed and if not found satisfactory, Customs, Ahmedabad shall be free to terminate/after the contract.
4. The Department reserves the right to reject any or all tenders without assigning any reasons thereof.
5. The manufacturer/dealer should mention the warranty period and services provided by them after installation.

**The following documents must be attached with the quotation:**

1. Income Tax assessment for previous three years.
2. Documentary proof showing the work experience and annual turnover.
3. VAT No./ Ser Tax. No.
4. PAN No.

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## **“Annexure A”**

### **DOOR FRAME METAL DETECTOR**

#### **1.0 SCOPE:**

1.1 The specification of Door Frame Metal Detector covers technical specification and requirement of personnel screening systems consisting of multi-zone, high sensitive door frame metal detector and associated accessories for personnel screening at SVPI Airport, Ahmedabad.

1.2 The door frame metal detector should be capable of helping Operators / screeners to easily differentiate between harmless objects and potential threats.

#### **2. SYSTEM DESCRIPTION:**

2.1 Door Frame Metal Detector (DFMD) shall be provided at SVPI Airport, Ahmedabad. This walk-through unit shall screen people from head to toe and shall pinpoint small, hard to-find weapons, palm-sized device and threats as small as a needle. It should be accurate and fast for threat detection and shall maintain throughput rates in high-traffic areas.

DFMD shall be versatile and weatherproof and shall be able to detect even floor level small weapons. The performance of the DFMD should be independent of the speed of the 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.

#### **3. GENERAL REQUIREMENTS:**

3.1 Original Equipment Manufacturer or their authorized distributors / local dealers of distributor of Door Frame Metal Detector shall have service bases in India.

3.2 The DFMD shall have quality system compliance and shall be ISO 9001, IEEE C95.1 – 1991 section 4.12, International Commission for Non-Ionizing Radiation Protection (ICNIRP), CE, FCC, CSA, IEC or equivalent complied. Manufacturers will have to produce a certificate in this regard.

3.3 The DFMD shall be cardiac pacemaker, magnetic tape & film safe. Manufacturer/ system integrator shall submit certification to this effect with supporting documents.

3.4 The interference suppression should be 100% sensor coil Faraday shielding. The DFMD shall have built-in circuitry for noise suppression and ignoring X-ray monitor horizontal synchronization.

3.5 All software and firmware upgrades shall be free of cost for period of 1 year or as specified by purchaser. The circuitry of the DFMD shall be easily accessible and programmable.

3.6 The system should be capable of adapting to diverse operational requirements and evolving security challenges through easy customization of software-based controls and tools. The DFMD should have floor mounting kit to prevent the unauthorized movement of the DFMD.

3.7 The power supply available at the stations shall be 230 V / 50 Hz AC which may vary from 160 Volts to 270 Volts. All modules of the DFMD should work using this power supply only with requisite converters & voltage stabilizers of suitable capacity, if required.

3.8 The DFMD should preferably be provided at entrance/exit points, platforms, etc. or any other locations as decided by purchaser.

#### **4. TECHNICAL REQUIREMENTS:**

4.1 The DFMD shall be networkable, manage walkthroughs individually or as groups and perform statistical analysis via network with CMA interface module.

4.2 The DFMD system shall enable end users to change the settings.

4.3 The DFMD system should have an in-built memory system.

4.4 The DFMD should have minimum 9 overlapping detection zones. Multi-loop search coils shall be housed in two side panels of the DFMD. Control panel should be built inside the frame on the top with built-in operating controls. It should have plug –in cards for easy maintenance. The DFMD should be able to provide detection to flat and rod shaped objects, regardless of orientation.

4.5 All the equipments installed outside the control room shall be able to withstand 00 C to +600 C and humidity of 95% non-condensing.

4.6 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 meter from the archway without causing spurious alarms.

4.7 Moving metal beyond one meter from the DFMD should not affect performance of the DFMD. It should be possible to move metallic items like trolleys one meter away from the DFMD without the generation of false alarm.

4.8 There should be both visual and audible alarms. It should be possible to adjust volume of the audible alarm. At its loudest setting, the volume should be adequate to overcome ambient noise present nearby.

4.9 Detection circuit shall be continuously active for detection of metals and alloys. The equipment shall have comprehensive self diagnostic that shall be able to pin point the defects by constantly monitoring the internal circuitry, external connections and environment.

4.10 The DFMD should be tamper proof. All settings should be secured with a key lock & two levels of access codes. Further security should be accomplished with a cabinet lock which prevents unauthorized access to physical cables, connectors & electronics.

4.11 DFMD can be installed close to fixed sheets or pieces of metal, which form part of the building or its fittings. The DFMD should compensate for the presence of such metals and its performance should not be degraded.

4.12 The DFMD should have standard programmes over 20 application included, sensitivity up to 200 distinct sensitivity levels.

4.13 The DFMD should detect ferrous & non ferrous metallic objects (minimum 25 gm or less), uniformity within the detection envelope, in all orientations and at walking and running speed.

## **5 HARDWARE REQUIREMENTS:**

5.1 Interior dimensions of DFMD shall not be less than 0.7 m (Width) x 2 m (Height) x 0.5 m (Depth). Weight of the DFMD should be less than 75 Kg.

5.2 The DFMD should also have in-built UPS with maintenance free battery to provide back up to 12 hrs. The battery should have advance design philosophy in respect of Non0spill able, sealed lead acid cells, maintenance free battery packs with internal self re-setting fuse and automatic charging via a separate plug 230 volt AC mains driven, double insulated power adaptor.

5.3 **Traffic Flow:** Pacing lights with "wait" and "proceed" symbols should be located on the

entrance side of each panel and should allow smooth and efficient traffic flow. It shall have a traffic counter that should track the number of people that have passed through the detector, the number of alarms and should calculate the alarm percentage.

**6** The DFMD shall have the following minimum features for screening:

**6.1 Ready Light:** The green ready light shall appear when power is on and the DFMD is ready to detect metal. The ready light shall be illuminated before a person is permitted to enter the walk-through. A rapidly blinking ready light should be an indication that AC power has been disconnected and the unit is operating on the battery backup system.

**6.2 Alarm Light:** Red light as visual indication of an alarm should appear when the unit detects a targeted amount of metal within the walk-through according to the program and base sensitivity settings. When a target is detected, the alarm light should appear even if the audio volume is off.

**6.3 Touch Pads:** Touch pads shall be provided to turn unit on, access and adjust setup and programming.

**6.4 Operate (On / Self-test):** The operate pad shall be used to turn the DFMD on. The unit should be ready to operate within ten seconds. The manual self-test shall be activated at any time by pressing operate.

**6.5 Off:** The off pad shall be used to turn the DFMD off, ensuring that all of the information and settings are stored in memory until the detector is ready to resume full operation.

**6.6 Counter:** The counter pad should be used to obtain an automatic update on the traffic count that appears on the LCD. The counter shall also report alarm statistics such as alarm count and alarm count %. If operator access is enabled, the counter may be reset by pressing the counter pad for approximately ten seconds.

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Assistant Commissioner(P&V)

Customs, Ahmedabad