



Consulate General of India
New York

INVITATION FOR TENDER

NYCG/ADM/815/1/2020

Date : Aug 25, 2020

Sub : Supply and installation of Door Frame Metal Detector (DFMD) in the Chancery Building.

The Consulate General of India, 3 East 64 streets, New York, NY 10065 invites bids to furnish and install Door Frame Metal Detector in the Consulate. The bids should include all the expenses like supply of required hardware & software for installation of DFMD and labor and delivery charges. The details of required hardware & software for DFMD is given in Annexure-I (**copy enclosed**).

Interested parties are welcome to contact the Consulate for any further clarity before submission of their bids on any working day till September 14, 2020 between 0900 hrs. And 1730 hrs. Please send e-mail to hoc.newyork@mea.gov.in or contact via telephone number (212) 774-0615 in case of any questions. All Interested companies may e-mail their password protected quotes at hoc.newyork@mea.gov.in or send by post at the following address latest by September 14, 2020.

Head of Chancery
Consulate General of India
3 East 64 Street New York NY 10065

Last date of submission of bids is September 14, 2020.

Jaideep
(Head of Chancery)

**Technical specifications of Door Frame Metal Detector (DFMD) (Single Zone)
(water proof/ weather proof)**

(decided on 02.03.2016)

1. Technology : Suitable latest technology.
2. Dimensions : Detection area – Height: not less than 205 cm
Width : 72-80 cm
Depth : 57-60 cm
3. No. of zones : Single zone
4. Operational : User Selectable
Frequencies
5. Sensitivity : Adjustable
6. Zone sensitivity:
& adjustment : Single zone along with minimum 05 frequencies
7. Metal Detection: (i) Should detect
(a) Ferrous, Non-ferrous, Ferrite & Alloys.
(b) Uniformly in entire frame area.
(c) In all orientation and
(d) In walking speed of interception
8. Alarm : i) Audible alarm on detection with adjustable volume.
9. Display : Back lit LED display.
10. False Alarm rate: Less than 3%
11. Interference : i) Should not interfere with adjacent installed DFMDs
Suppression within a distance of 1 ft.
ii) Should not be affected by opening/closing of a
metallic gate in vicinity.
iii) Should not be affected by heavily reinforced floors/
roof tops / walls.
iv) Should not be affected by external RF transmission
and EMI (Electro-Magnetic Interference), (supported
by Test certificates from NABL or other accredited
labs from the country of origin of the equipment).
12. Capacity/ : 20 persons or more per minute Adjustable Traffic count is
throughput rate acceptable
13. Power Supply: (a) USA Standards
(b) Rechargeable maintenance free internal battery for
minimum 10 hrs operation with inbuilt charger
(external batteries will not be accepted)
(c) Audio Visual low Battery indicator

- (d) Instrument should also work in case of without battery back-up through power supply.
14. Calibration : Inbuilt auto calibration capability.
15. Safety : (a) The bidder shall submit a certificate from any accredited Indian laboratory regarding its adverse effects on human and machines. Harmlessness to magnetic media and heart pacemaker, pregnant women.
(b) Should conform to international standards of safety/ radiations.
(c) Should be Data safe.
16. Self Diagnostics: User-friendly self-testing diagnostics to identify faulty condition.
17. Operating : Temperature – From 5 degree C to 55 degree C
Ambience Humidity – Upto 95% Non condensation.
18. Control Panel: Easily accessible, modular design with standard plugs and connectors. Adjustable control should only be activated on the insertion of a removable key or by password.
19. Construction : Lightweight, Rigid, laminated side panels and cross piece, ABS plastic boots for panel protection. Base wheels for easy mobility & should be waterproof/ weatherproof and usable at outdoor locations. It should have a floor panel to attach both side panels to give stability & rigidity to the machine.
20. Warranty : Warranty for 3 years. Sufficient spares should be available in stock with the supplier from the manufacturer and certificate for availability of spares in USA for at least 7 years after the warranty period.
21. Accessories : i) One Test sample for each machine for testing during commissioning and during maintenance.
ii) Training tools – charts, slides, training brochure, training work, model blow up diagram, video films on demonstrations and use etc.
iii) Technical manual giving full description of the item. Practical training at least 4 times in a year continuing during warranty period.
iv) User's handbook and literature on preservation/ maintenance as applicable.
v) Procedure for packing, handling, transportation, storage and battery replacement.
22. Counters : Counting of number of persons passing the sensing zone- inbound/outbound.

Technical specifications of Multi-zone DFMD (water proof/ weather proof) decided on 24.3.2014 (Technical specifications after pre-bid meeting on 06.11.2015)

1. Technology : Suitable latest technology.
2. Dimensions :
 - Detection area – Height: not less than 205 cm
 - Width : 72-80 cm
 - Depth : 57-60 cm
3. No. of zones : Minimum 8 Zones
4. Operational : User Selectable
Frequencies
5. Sensitivity : Adjustable
6. Zone sensitivity:
& adjustment : All zones individually adjustable.
7. Metal Detection:
 - (i) Should detect
 - (a) Ferrous, Non-ferrous, Ferrite & Alloys.
 - (b) Uniformly in entire frame area.
 - (c) In all orientation and
 - (d) In walking speed of interception
 - (ii) *Pin point detection with indication at correct zone level without interference/false identification of adjacent zones.*
8. Alarm : i) Audible alarm on detection with adjustable volume.
9. Display : Suitable anti-glare counter and zone display of DFMD – readable to person with normal eye sight in day and night time without any strain on eyes.
10. False Alarm rate: Less than 3%
11. Interference :
Suppression
 - i) Should not interfere with adjacent installed DFMDs within a distance of 1 ft.
 - ii) Should not be affected by opening/closing of a metallic gate in vicinity.
 - iii) Should not be affected by heavily reinforced floors/ roof tops / walls.
 - iv) Should not be affected by external RF transmission and EMI (Electro-Magnetic Interference), (supported by Test certificates from NABL or other accredited labs from the country of origin of the equipment).
12. Capacity/
throughput rate : 20 persons or more per minute Adjustable Traffic count is acceptable
13. Power Supply:
 - (a) USA Standards

- (b) Rechargeable maintenance free internal battery for minimum 10 hrs operation with inbuilt charger (external batteries will not be accepted)
 - (c) Audio Visual low Battery indicator
14. Calibration : Inbuilt auto calibration capability.
15. Safety : (a) The bidder shall submit a certificate from any accredited Indian laboratory regarding its adverse effects on human and machines. Harmlessness to magnetic media and heart pacemaker, pregnant women.
- (b) Should conform to international standards of safety/ radiations.
- (c) Should be Data safe.
16. Self Diagnostics: User-friendly self-testing diagnostics to identify faulty condition.
17. Operating : Temperature – From 5 degree C to 55 degree C
Ambience Humidity – Upto 95% Non condensation.
18. Control Panel: Easily accessible, modular design with standard plugs and connectors. Adjustable control should only be activated on the insertion of a removable key or by password.
19. Construction : Construction should be confirming to IP 65 standards. Lightweight, Rigid, laminated side panels and cross piece, ABS plastic boots for panel protection, Base wheels for easy mobility & should be waterproof/ weatherproof and usable at outdoor locations. It should have a floor panel to attach both side panels to give stability & rigidity to the machine.
20. Warranty : Warranty for 3 years. Sufficient spares should be available in stock with the supplier from the manufacturer and certificate for availability of spares in USA for at least 7 years after the warranty period.
21. Accessories : i) One Test sample for each machine for testing during commissioning and during maintenance.
- ii) Training tools – charts, slides, training brochure, training work, model blow up diagram, video films on demonstrations and use etc.
- iii) Technical manual giving full description of the item. Practical training at least 4 times in a year continuing during warranty period.
- iv) User's handbook and literature on preservation/ maintenance as applicable.
- v) Procedure for packing, handling, transportation, storage and battery replacement.
22. Counters : Counting of number of persons passing the sensing zone- inbound/outbound

12. Facility for variable contrast must be incorporated to allow enhancement of lighter and darker portion of the image.
13. If the machine fails to penetrate an item, then an alarm (visual and audio both) should be generated to notify the operator.
14. The **threat image projection (TIP) system** software to be incorporated as per details given below:
 - 14.1 TIP software facility shall be incorporated in the offered x-ray machines to assist supervisors in testing the operator alertness and training X-ray screeners to improve their ability in identifying specific threat object. The system will create a threat object and the same will be superimposed on monitor screen while a bag is being screened. To acknowledge that the operator has seen the false object, operator must press the control panel key that will cause the computer generated threat object to disappear from X-rayed bag image on the VDU screen. Each operator's action shall be recorded in the hard disc of the computer for the auditing purpose by the supervisor or other authorized person.
 - 14.2 **Design of the System**
 - 14.2.1 TIP software should be compatible with other X-ray technologies such as automatic reject unit, dual x-ray screen technologies, automatic threat recognition system etc. All x-ray image functions must be available at the same time along with the TIP.
 - 14.3 **Image Library**
 - 14.3.1 The TIP facility should have an image library containing at least 100 explosive devices, 100 knives and 100 firearms in various sizes, shapes, locations and orientations. However, the system shall have facility to expand the library to incorporate additional images by user without assistance of the manufacturer.
 - 14.3.2 The image library should contain images of threats at different orientation both plane and end on orientation should be used. Although these will be assigned different file names and reference, it must be possible to cross reference these as the same threat. All threat images protection images must be realistic – representative and non distinguishable from real threat items.
 - 14.4 **Time Interval**
 - 14.4.1 Programming facility shall be available to project threat images in different intervals. The time period for threat image as well as image mix in percentage shall be user programmable e.g. software shall select 40% images of explosive devices, 35% of fire arms & 25% of knives or random items etc.
 - 14.4.2 Once the screener has responded to identify the computer generated threat image, it should remain on the screen for a predefined user programmable time for analysis. The image should be highlighted, upon identification and feedback message shall be visible to the screener.
 - 14.5 **System Administration**
 - 14.5.1 The threat image projection facility shall have details of user data base such as Venue of function, Name of organization, Name of Screener, user ID number, level of access such as screener, Administrator, Maintenance schedule and password etc.
 - 14.5.2 Access to start up menu should be restricted only to the authorized individuals. A log in procedure by means of password or security key could achieve restricted access to each of the comment. The log in procedure should not take longer than 20 second. The system should have facility to bypass the TIP facility, if programmed so by the system administrator. It is to be ensured that the TIP software shall not be hindrance to normal functioning of the x-ray machine.
 - 14.5.3 When the operator logs in or logs out, message should be displayed on the Video Display Unit (VDU) screen to confirm that he/she has been correctly logged in or logged out