

TERMS OF REFERENCE

GENERAL

1.1 Scope

a) Scope of work: Furnish all physical security equipment and technologies assemblies as required.

b) **Ballistic Safety Requirements:** The security equipment with bulletproof characteristics should meet Bullet Resistant level of at least BR6 (AK-47, 7,62) protection that will comply with one of these standards:

- UL 752
- National Institute of Justice
- State Department SD-STD-02.01
- ASTM F-1233
- HP White Laboratories HPW-TP 0500.02
- European Standard DIN EN 1063
- British Standards Institution BS 5051
- German Deutche Institut fur Normung

c) **UL Fire Rating Requirements:** The metal items / doors and frames assemblies should be UL fire rated for at least 1 hour.

d) Forced Entry Resistant Requirements: doors, security glass structure, and masonry units should entail features and application to withstand a prolonged attempted forced entry (time period of protection level is between 30 - 60 minutes).

1.2 Quality Assurance

a) **Experience:** Work provided for this section should be designed and furnished by one manufacturer with at least five years of documented production of similar blast resistant units.

b) **Ballistic Test Requirements:** The security equipment with bulletproof characteristics should be tested and must meet the level of protection specified in section <u>Ballistic Safety Requirements</u> by an independent laboratory to applicable aforementioned Standards.

c) **Fire Rating Test Requirements**: Door and frame assemblies should be tested and must meet the level of protection specified in section <u>UL Fire Rating Requirements</u> by an independent laboratory.

d) **Forced Entry Resistant Test Requirements:** Door/frame/security glass should be tested and must meet the level of protection to prove resistance of security materials and systems for extended period of time (time period of protection level is between 30 - 60 minutes) against the following threats: <u>Ballistic Impact, Blunt Tool Impacts, Sharp Tool Impacts, Thermal Stress, and Chemical Deterioration.</u>

1.3 Submittals

a) **Shop Drawings:** Shall include identifying a design that will include equipment listed under "Products" in relation to the required measurements, which will be collected during the site visit. Elevation drawings shall illustrate the overall concept and positioning of different products that will be used to protect the reception area (including sizes, anchor type, material thickness and type). The Shop Drawing must be submitted to end-user for approval prior to delivery.



b) **Ballistic Safety Compliance:** The manufacturer of the security equipment with bulletproof characteristics shall submit the independent test report from an accredited licensed agency. The test report information must specify compliance with the protection level specified under section <u>Ballistic Safety Requirements</u>.

c) **UL Fire Rating Compliance:** The manufacturer of the security equipment shall provide information on compliance with the protection level specified under section <u>UL Fire Rating Compliance</u>.

d) **Forced Entry Resistant Compliance:** The manufacturer the security equipment and/or masonry units/wall solutions shall provide information that will specify compliance with the protection from specified threat for extended period of time (time period of protection level is between 30 - 60 minutes) listed under *Forced Entry Resistant Test Requirements*.

1.4 Steel Standards

a) ASTM A1008: Steel Sheet, Cold Rolled, Commercial Quality.b) ASTM A653: Galvanized Steel.c) ASTM A666: Stainless Steel Type 304 or 316.

1.5 Warranty

All materials and workmanship shall be warranted by providing company against any defects for a period of two (2) years from date of delivery to the job site.

PRODUCTS

2.1 General Description and Quantity:

Supply and installation of bullet resistant reception area that will include the combination of Bullet Resistant Glass & Glazing, Bullet Resistant Fixed Windows, Ballistic Capture Frames, Bullet Resistant Fiberglass Panels, Bullet Resistant Door (X 1), and Stainless Steel Deal Trays (X 2). As indicated under the Submittals; the proposals for design and overall concept and positioning of different products that will be used to protect the reception area will be provided by the participating companies. For this purpose, the measurement will be collected during the on-site visit.

a) **Bullet Resistant Reception Areas:** Bullet resistant reception areas comprised of materials to ensure small arms protection; basically, design reception area which allow for personnel and customer friendly environment while at the same time protecting employee's/security guards from potential harmful situations; and allow them to trigger emergency procedures unharmed. The proposed solution may include a combination of following equipment:

- Bullet Resistant Laminated Glass & Glazing
- Bullet Resistant Fixed Windows
- Ballistic Capture Frames
- Metal Bullet Resistant Door
- Stainless Steel Deal Trays
- Glass-clad polycarbonate
- Bullet Resistant Fiberglass Panels
- Ballistic counters
- Masonry units/wall
- Natural voice ports & intercoms



b) **Bullet Resistant Guard Booth:** Bullet resistant booth (160X190X250) meters, guarding area, comprised of materials that will ensure:

- Small arms protection (as specified above)
- Friendly materials that will seamlessly to blend in with surroundings
- Allow the guards to observe the situation in the lobby area (180° view); while at the same time protecting them from being seen
- Allow for identified lighting and electrical outlets

The proposed solution may include a combination of following equipment:

- Bullet Resistant Laminated Glass & Glazing
- (Metal or Glass) Bullet Resistant Door
- Glass-clad polycarbonate
- Masonry units/wall
- Natural voice ports & intercoms

UNDP IRH reserves the right not to procure Bullet Resistant Guard Booth depending on the agreement with Turkish Authorities. In any case, the Offerors shall include it in their technical and financial proposals.

The Contractor will be informed by UNDP IRH on whether it will be procured or not, as soon as relevant consultations with Turkish Authorities are concluded.

c) **Design Options:** The design and material used must allow for a customer friendly environment while protecting employees from potential hostile intrusion and terrorism situations. Bullet Resistant Reception Areas must comprise of UL listed materials to ensure top quality and guaranteed protection.

2.2 Materials:

Bullet resistant materials assemblies shall be manufactured with materials consistent with withstanding the ballistic, fire, and force entry threat specified under section *Quality Assurance*. Metal assemblies shall be manufactured with materials consistent with *Steel Standards*; similarly, if masonry units will be implemented, it must meet the masonry standards to reflect *Quality Assurance* specifications.

2.3 Construction:

a) Products shall comply with applicable <u>Quality Assurance requirements</u>.

- b) All work shall be strong rigid and neat in appearance; square, true and free of defects, warp or buckle.
- c) Frames shall have trim faces welded and finished smooth.
- d) All equipment doors/frames/locking mechanism are to be thoroughly cleaned and phosphates to inhibit corrosion.
- e) Metal material to receive on coat of gray rust inhibiting prime primer.
- f) There will be no exposed fasteners on the threat side of the opening.

g) Door/frame/locking mechanism/glass/masonry unit's assemblies will be manufactured in strict accordance with designs and specifications used to fabricate units tested by an independent laboratory as required under the <u>Quality</u> <u>Assurance</u> portion of this section.

ONSITE VISIT AND MEASUREMENTS

Biding companies will be invited for the onsite visit to make a physical assessment and collect relevant data for the required deliverables. Time and date to be determined and shared accordingly.

REUSABILITY OF THE EXISTING EQUIPMENT



Existing security equipment and systems should be used and or integrated based on the compatibility assessment to achieve efficient integration and security operation in the overall security system.

SHIPPING AND HANDLING

a) Equipment will be crated for shipment as per (standard) domestic shipping procedures.

b) All equipment to be inspected upon delivery for any damage. Any refinished minor damages may be field repaired provided it meets the acceptance *Quality Assurance* standards.