

Request For Quote Number: SMT85015Q0002

Dated: July 31, 2015

Attachment

SCOPE OF WORK
Supply and installation of bathroom tiles and fittings
COR- Saviour Gauci

PART 1 - GENERAL

1.1 SUMMARY

- A. Disconnect, remove all tiles and sanitary ware and dispose appropriately all material from the main bathroom at First floor level. Close all wall penetrations using appropriate material.
- B. Close off all hot and cold water connection, disconnect, and remove all domestic water pipework from the main bathroom at First floor level. Close all wall penetrations using appropriate material.
- C. Supply bathroom wall and floor tiles to cover the following areas. Measurements are only approximate and should be measured on site.
1. Walls: Qty. 2, measuring 4.1m x 3.2m high.
 2. Walls: Qty. 2, measuring 3.5m x 3.2m high.
 3. Floor: Qty. 1, measuring 11sqm.
- D. Supply bathroom sanitary ware as follows.
1. 170 x 75 mm Bath tub complete with hot and cold water spot incorporating a hand held shower and waste.
 2. 90mm half round shower tray with tempered glass cubicle complete with hot and cold water spot and adjustable shower head and waste.
 3. Wash hand basin wood cabinet comprising of two in number washing hand basin complete with hot and cold water spot, pop-up drain, and waste and angle valves.
 4. Wood cabinet complete with wall hand mirror to accommodate two (2) in number wash hand basin.

5. WC unit complete with toilet seat and flushing mechanism comprising of two way flush system, and angle valves.

6. Bathroom accessories comprising but not limited:-

- 2 in number towel rails/rings.
- 3 in number soap dish.
- 1 in number toilet roll holder.
- Two in number tooth brush holders.
- 2 in number bathrobe holder.
- 2 in number wall hand mirrors.

E. Install bathroom wall and floors tiles and all sanitary ware as specified in the following sections.

F. Supply and install domestic water pipework system to feed all hot and cold water sanitary ware using non corrosive nonmetal pipework of adequate sizing and to provide enough water flow as per the sanitary ware manufacturer recommendations.

G. Pressure test and record all domestic water pipework as per manufacturer recommendations.

H. Install all sanitary ware as per manufacturer recommendations.

SECTION - TILING

PART 2 - GENERAL TILING

A. This Section includes the following:

1. Ceramic mosaic tile.
2. Ceramic wall tile.
3. Metal edge strips installed as part of tile installations.

2.1 PERFORMANCE REQUIREMENTS

A. Static Coefficient of Friction: For tile installed on walkway surfaces, provide products with the following values as determined by testing identical products per ASTM C 1028 or equivalent standard:

1. Level Surfaces: Minimum 0.6.
2. Step Treads: Minimum 0.6.

2.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Verification:
 1. Full-size units of each type and composition of tile and for each color and finish required.
 2. Full-size units of each type of trim and accessory for each color and finish required.
 3. Stone thresholds in 150mm lengths.
 4. Metal edge strips in 150mm lengths.
- C. LEED Submittals:
 1. Credit EQ 4.1: Manufacturers' product data for adhesives and sealants, including printed statement of VOC content.

2.3 QUALITY ASSURANCE

- A. Source Limitations for Tile: Obtain all tiles of same type and color or finish from one source or producer.
- B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from a single manufacturer and each aggregate from one source or producer.

2.4 DELIVERY, STORAGE, AND HANDLING

- A. Store tile and cementations materials on elevated platforms, under cover, and in a dry location.
- B. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.

PART 3 - PRODUCTS

3.1 PRODUCTS, GENERAL

- A. Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 or equivalent standard.
 1. Provide tile complying with Standard grade requirements, unless otherwise indicated.

- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI standards referenced in "Setting and Grouting Materials" Article or to equivalent standard.
- C. Colors, Textures, and Patterns: Where manufacturer's standard products are indicated for tile, grout, and other products requiring selection of colors, surface textures, patterns, and other appearance characteristics, provide specific products or materials complying with the following requirements:

3.2 SETTING AND GROUTING MATERIALS

- A. Portland Cement Mortar (Thickset) Installation Materials: ANSI A108.1A or equivalent standard and as specified below:
 - 1. Cleavage Membrane: Asphalt felt, ASTM D 226, Type I (No. 15); or polyethylene sheeting, ASTM D 4397, 0.1 mm thick.
 - 2. Reinforcing Wire Fabric: Galvanized, welded wire fabric, 50.8 by 50.8 mm by 1.57-mm diameter; comply with ASTM A 185 and ASTM A 82 except for minimum wire size.
 - 3. Latex Additive: acrylic resin or styrene-butadiene-rubber water emulsion, serving as replacement for part or all of gaging water, of type specifically recommended by latex-additive manufacturer for use with field-mixed Portland cement and aggregate mortar bed.
- B. Dry-Set Portland Cement Mortar (Thin Set): ANSI A118.1 or equivalent standard.
 - 1. For wall applications, provide non-sagging mortar that complies with Paragraph C-4.6.1 in addition to the other requirements in ANSI A118.1.
- C. Latex-Portland Cement Mortar (Thin Set): ANSI A118.4, consisting of the following:
 - 1. Prepackaged dry-mortar mix containing dry, redispersible, ethylene vinyl acetate additive to which only water must be added at Project site.
 - a. For wall applications, provide nonsagging mortar that complies with Paragraph F-4.6.1 in addition to the other requirements in ANSI A118.4.

3.3 ELASTOMERIC SEALANTS

- A. One-Part, Mildew-Resistant Silicone Sealant: ASTM C 920; Type S; Grade NS; Class 25; Uses NT, G, A, and, as applicable to nonporous joint substrates indicated, formulated with fungicide, intended for sealing interior ceramic tile joints and other nonporous substrates that are subject to in-service exposures of high humidity and extreme temperatures.
- B. Chemical-Resistant Sealants: For chemical-resistant floors, provide chemical-resistant elastomeric sealant of type recommended and produced by chemical-

resistant mortar and grout manufacturer for type of application indicated, with proven service record and compatibility with tile and other setting materials, and with chemical resistance equivalent to mortar/grout. Include primer and backer rod recommended by manufacturer.

3.4 MISCELLANEOUS MATERIALS

- A. Metal Edge Strips: Angle or L-shape, height to match tile and setting-bed thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications, half-hard brass or stainless steel; ASTM A 666, 300 Series exposed-edge material.
- B. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.
- C. Grout Sealer: silicone product for sealing grout joints that does not change color or appearance of grout.

3.5 MIXING MORTARS AND GROUT

- A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.
- B. Add materials, water, and additives in accurate proportions.
- C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 4 - EXECUTION

4.1 EXAMINATION

- A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.
 - 1. Verify that substrates for setting tile are firm; dry; clean; free of oil, waxy films, and curing compounds; and within flatness tolerances required by referenced ANSI A108 Series of tile installation standards for installations indicated.
 - 2. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed before installing tile.
 - 3. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with CO/COR.

- B. Proceed with installation only after unsatisfactory conditions have been corrected.

4.2 PREPARATION

- A. Remove coatings, including curing compounds and other substances that contain soap, wax, oil, or silicone, that are incompatible with tile-setting materials.
- B. Provide concrete substrates for tile floors installed with adhesives or thin-set mortar that complies with flatness tolerances specified in referenced ANSI A108 Series of tile installation standards.
 - 1. Fill cracks, holes, and depressions with trowelable leveling and patching compound according to tile-setting material manufacturer's written instructions. Use product specifically recommended by tile-setting material manufacturer.
 - 2. Remove protrusions, bumps, and ridges by sanding or grinding.
- C. Blending: For tile exhibiting color variations within ranges selected during Sample submittals, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

4.3 FLOOR AND WALL TILE INSTALLATION

- A. General: Install tile to comply with requirements in the Floor Tile Installation Schedule, including those referencing TCA installation methods and ANSI A108 Series of tile installation standards.
- B. Metal Edge Strips: Install at locations indicated or where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with top of tile.
- C. Grout Sealer: Apply grout sealer to cementitious grout joints according to grout-sealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, remove excess sealer and sealer that have gotten on tile faces by wiping with soft cloth.
- D. Install types of tile designated for wall installations to comply with requirements in the Wall Tile Installation Schedule, including those referencing TCA installation methods and ANSI setting-bed standards.

4.4 CLEANING AND PROTECTING

- A. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
 - 1. Remove epoxy and latex-Portland cement grout residue from tile as soon as possible.
 - 2. Clean grout smears and hazes from tile according to tile and grout manufacturer's written instructions, but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after

determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

SECTION – TOILET, BATH AND LAUNDRY ACCESSORIES

PART 5 - GENERAL

5.1 SUMMARY

- A. This Section includes the following:
 - 1. Toilet and bath accessories.
 - 2. Grab bars.

5.2 SUBMITTALS

- A. Product Data: For each type of product indicated. Include the following:
 - 1. Construction details and dimensions.
 - 2. Anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
 - 3. Material and finish descriptions.
 - 4. Features that will be included for Project.
 - 5. Manufacturer's warranty.
- B. Samples: Full size, for each accessory item to verify design, operation, and finish requirements.
- C. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.
 - 1. Identify locations using room designations indicated on Drawings.
- D. Maintenance Data: For toilet and bath accessories to include in maintenance manuals.

5.3 COORDINATION

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

PART 6 - PRODUCTS

6.1 MATERIALS

- A. Stainless Steel: ASTM A 666, Type 304, No. 4 finish (satin), 0.8-mm minimum nominal thickness, unless otherwise indicated.
- B. Brass: ASTM B 19, ASTM B 16M, or ASTM B 30 castings.
- C. Steel Sheet: ASTM A 366/A 366M, 0.9-mm minimum nominal thickness.
- D. Chromium Plating: ASTM B 456, Service Condition Number SC 2 (moderate service).
- E. Baked-Enamel Finish: Factory-applied, gloss-white, baked-acrylic-enamel coating.
- F. Mirror Glass: ASTM C 1036, Type I, Class 1, Quality q2, nominal 6.0 mm thick, with silvering, electroplated copper coating, and protective organic coating complying with FS DD-M-411.
- G. Galvanized Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- H. Fasteners: Screws, bolts, and other devices of same material as accessory unit, tamper and theft resistant when exposed, and of galvanized steel when concealed.
- I. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Project Director/COR.

6.2 TOILET AND BATH ACCESSORIES

- A. Toilet Tissue (Roll) Dispenser:
 - 1. Description: Double-roll dispenser.
 - 2. Mounting: Recessed.
 - 3. Operation: Noncontrol delivery with standard spindle.
 - 4. Capacity: Designed for 114- or 127-mm- diameter tissue rolls.
- B. Liquid-Soap Dispenser:
 - 1. Mounting: Deck mounted on lavatory.
 - 2. Capacity:
 - 3. Stainless-Steel Soap Valve: Designed for dispensing soap in liquid form.
 - 4. Lockset: Tumbler type.
 - 5. Refill Indicator: Window type.
- C. Grab Bar:
 - 1. Material: Stainless steel, 1.3 mm thick.
 - 2. Mounting: Concealed.
 - 3. Gripping Surfaces: Slip-resistant texture.

4. Outside Diameter: 32 mm for medium-duty applications or 38 mm for heavy-duty applications.
- D. Seat-Cover Dispenser:
1. Mounting: Partition mounted, dual access.
 2. Capacity:
 3. Material: Stainless steel.
 4. Lockset: Tumbler type.
- E. Shelf Unit:
1. Utility Shelf: Shelf fabricated of minimum nominal 1.3-mm- thick stainless steel, with exposed edges turned down not less than 12.7 mm and supported by two triangular brackets welded to shelf's underside.
- F. Framed Glass-Mirror Units: Fabricate frames for glass-mirror units to accommodate glass edge protection material. Provide mirror backing and support system that permits rigid, tamper-resistant glass installation and prevents moisture accumulation. Both full-length and over-sink models.
1. Frame: Stainless-steel angle, 1.3 mm thick.
 2. Size: As indicated on Drawings
- G. Mirror Unit with Integral Shelf:
1. Frame: Stainless-steel angle, 1.3 mm thick.
 - a. Corners: Manufacturer's standard.
 - b. Wall bracket of galvanized steel, equipped with concealed locking devices requiring a special tool to remove.

6.3 PRIVATE USE BATHROOM ACCESSORIES

- A. Shower Curtain Rod:
1. Stainless-steel shower curtain rod with 75-mm stainless-steel flanges designed for exposed fasteners, in length required for shower opening indicated.
 - a. Provide shower curtain of semi-transparent vinyl with rod hooks and rings.
 2. Type: Heavy-duty, 32-mm OD; fabricated from nominal 1.3-mm- thick stainless steel.
- B. Robe Hook:
1. Double-Prong Unit: Stainless-steel, double-prong robe hook with rectangular wall bracket and backplate for concealed mounting.
- C. Towel Holder:

1. Towel Bar: 610-mm- long, stainless-steel, 19-mm- square tube with rectangular end brackets and galvanized steel backplates for concealed mounting.
 2. Towel Ring: Stainless-steel pin projecting approximately 63 mm from wall with square or trapezoidal, stainless-steel ring that is approximately 6 mm in diameter, rectangular wall bracket, and backplate for concealed mounting.
- D. Soap Dish:
1. Mounting: Surface mounted.
 2. Material and Finish: Stainless steel, No. 4 finish (satin).
- E. Toothbrush and Tumbler Holder:
1. Mounting: Surface mounted.
 2. Material and Finish: Stainless steel, No. 4 finish (satin).

PART 7 - EXECUTION

7.1 INSTALLATION

- A. Install accessories using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
 1. Install grab bars to withstand a downward load of at least 446.
- B. Adjust accessories for unencumbered, smooth operation and verify that mechanisms function properly. Replace damaged or defective items. Remove temporary labels and protective coatings.

PART 8 - WORK PERFORMANCE

The Contracting Officer/COR shall be authorized to request from the contractor any correction or change that may be found necessary, if the finished work does not satisfy the requirements presented in the Scope of Work.

The Contracting Officer/COR shall be authorized to disqualify any equipment or material that is found to be unsatisfactory for the requirements of the work.

The Contracting Officer/COR shall be authorized to stop the work, or part of it, if found that the execution does not fulfill the requirements.

Contractor shall adhere to all American and Maltese safety regulations.

Contractor will be responsible for the safety of his workers and injuries that may incur. Contractor is responsible for issuing safety equipment in accordance with Maltese and American Embassy standard to his workers. All workers shall be required to use appropriate Personal Safety equipment.

Recommended Personal Protective Equipment:

Eye Protection	Glasses, Goggles, Full Face.
Hearing Protection.	Ear Muffs or Ear Inserts.
Breathing Protection	Masks and Ventilation
Foot Protection	Sturdy Shoes, No Flip Flops
Hand Protection	Gloves
Head Protection	Hard Hat
Protective Clothing	Pants, Shirts, Aprons Etc
Ladders	Shall be sturdy, and the right ladder for the job

It is the responsibility of the contractor to repair any damage caused to the Embassy property. Contractor shall provide all necessary personal protective equipment to his employees to ensure safety at all times. Contractor shall use good practices at all times.

The Contractor shall keep the work area clean and safe at all times. He shall remove from the worksite all demolition debris and excess materials and shall dispose of them in accordance with local regulations.

The Contractor shall have a fully qualified, preferably English speaking, supervisor on site at all times when work is performed.

Work shall occur Monday through Friday except as permitted in writing by COR.

Submitting Cost Quotations for (project)

Cost of (part of the project) as explained in SOW _____Euro

Cost of (part of the project) as explained in SOW _____Euro

V.A.T. _____ Euro

TOTAL _____Euro

Contractor or Company Name: _____

Telephone: _____

Contractor Address _____

Email: _____

Please send replies to Contracting Officer in the General Services Office at the U.S. Embassy
Ta'Qali in Attard.