

U.S. Embassy Sarajevo
RFQ: 19BK8020Q0003
OBO FAC Statement of Work

ATTACHMENT 1

STATEMENT OF WORK

GYM SHOWERS RENOVATION IN THE CHANCERY

U.S. EMBASSY SARAJEVO, BOSNIA AND HERZEGOVINA

1. INTRODUCTION

The United States Department of States (DOS) requires services to renovate the existing working environment on the 1st floor level at the U.S. Embassy Chancery building, located in Sarajevo, Bosnia and Herzegovina. This project will enhance present conditions in the gym showers for Men and Women, but also will create better working environment in the adjacent MSG office space.

This project contains different services to execute required work, including but not limited to the labor, materials, tools, logistic and associated project management support functions. Also, provides requirements and applicable criteria that Contractor will follow during project execution.

2. OBJECTIVES

This Statement of Work (SOW) identifies basic requirements for the gym shower renovation project, consisting of engineering, planning, procurement, and installation of new dry wall with new ceramic tiles in the showers. Preparation work includes removal of the existing damaged gypsum walls and removal of the existing ceramic tiles from the showers' walls and floors. There is significant leakage and damage from the showers to the MSG office. The main reason for this leaking into the drywall construction is missing waterproofing layers. Also, floor is not properly sloped into the shower drains, and water stays in the shower, penetrating into drywall and through the wall into other spaces.

The main work includes installation of new drywall, with wall-supporting structure made of new aluminum studs, waterproofing, insulation, and wall boards placed on the both sides of the wall. Also, installation of the new ceramic tiles on the walls and floors should be completed. The shower's floor should be properly sloped to drain water efficiently. The final work includes installation of the accessories and painting to meet specifications for wet area.

All work shall be executed in accordance with project SOW, time schedule, approved manufacturer specifications, associated contract documents and be compliant with applicable safety, equipment, manufacturer's guidelines and standards. The Contracting Officer (CO) and Contracting Officer's Representative (COR) are the sole point of contact for all contractual and technical discussions or issues regarding the scope of work and its intent and execution. Contractor shall take no direction verbal or otherwise, from USG personnel other than the CO or COR.

3. GENERAL REQUIREMENTS

3.1. MATERIAL TO USE

Project scope includes partially demolishing of the existing gypsum walls in the Men's and Women's gym showers. The existing wall that should be demolished is SF2 type - max stud spacing O.C.

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400mm, partition width 121mm, stud size 89mm, gypsum wall boards on both sides of the wall, with mineral wool as the insulation.

The new drywalls should be installed on the supporting structure made of aluminum studs, CW-profile size 100/0.6mm length 5000mm, stud spacing 400mm O.C. Vertical aluminum studs should be placed in horizontal U profiles (placed on concrete floor and concrete ceiling), UW-profile size 100x40x0.6mm, length 4000mm. In the drywall between gym shower and MSG office, between aluminum studs will be placed rock mineral wool - product TERVOL DP-5 size 1000x600x100mm, thermal and acoustic insulation that is fire protected, water-resistant, vapor-permeable and ecologically safe. On the office side of this framing, will be placed new gypsum wall boards type Diamante 2000x1250x12.5mm. The same will be placed on the gym-area side.

On the other sides of the framing (in all four showers from showers' side), use cement-backed boards for shower stalls, e.g., Knauf Aquapanel Indoor or acceptable alternative. Due to its water resistance, they are predominantly used in the areas with high humidity and as a substrate for ceramic tiles. Aquapanel Indoor is a non-combustible, asbestos-free, cement-coated, fiberglass mesh, of proven quality and resistant to water and mold, provides stability in demanding humid conditions, even when exposed to chlorine.

The contractor should supply and complete waterproofing insulation of all walls as described in this SOW. Also, s/he should supply and complete installation of the ceramic tiles on the walls and floors in the showers as well as in the area between shower drains. The idea is to replace all ceramic tiles in the area with the showers and provide functional bathrooms, with the same final finish that will correspond to the overall facility.

3.2. PROJECT REQUIREMENTS

This project requires contractor to provide project management, professional logistic and material procurement services, repair and installation services, cost estimating and scheduling services, and general support services for this repair project.

The contractor must plan, estimate and schedule all work to assure labor and equipment are available to complete work requirements within the specified time limits and in conformance with specific contract and task order performance requirements and quality standards established herein. Work shall be completed as expeditiously as possible. The building may be occupied during the execution of this contract.

3.3. RESPONSIBILITY OF THE CONTRACTOR

The contractor shall be responsible for professional quality, technical accuracy, and coordination of all renovation works and other services furnished under this contract. The contractor shall, without additional compensation, correct or revise any errors or deficiencies in its repair work and other services.

The contractor is responsible for safety and shall comply with all local labor laws, regulations, customs and practices pertaining to labor, safety and similar matters. The contractor shall promptly

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report all accidents resulting in lost time, disabling, or fatal injuries to the COR. The contractor remains liable to the U.S. Embassy in accordance with applicable law for all damages to the Embassy caused by the contractor's negligent performance of any of the services furnished under this contract. The rights and remedies for the U.S. Embassy provided for under this contract are in addition to any other rights and remedies provided by law. The contractor is responsible for existing equipment on site and after final work equipment shall be in the same condition as prior work. The contractor will recover all surfaces and environment to preconstruction condition.

3.4. PRE- RENOVATION REQUIREMENTS

This project requires an experienced contractor to execute the project and work shall be performed with knowledgeable workers with prior experience on the same/ similar type of the projects. All workers shall be familiar with using tools, equipment and safety procedures.

The contractor shall provide required quantity of personnel, equipment, materials, and tools. Also, he shall provide supervision as needed to complete the services that meet the technical requirements in this Statement of Work. Equipment shall be in good condition and utilized properly with respect to technical and safety requirements. Before the work start, the list of workers, equipment, and machines shall be approved by the U.S. Embassy for the site access. Assistance will be provided by the USG/Embassy for this matter.

3.5. RENOVATION REQUIREMENTS

The contractor shall be responsible for all required materials, equipment and personnel to manage and supervise the project. All workmanship shall be good quality and performed in a skillful manner as determined by the COR. All materials and equipment incorporated into the project shall be new. The contractor shall transport and safeguard all materials and equipment required for the work. The equipment and materials shall be carefully handled, properly stored, and adequately protected to prevent damage before and during installation, in accordance with the manufacturer's recommendations. Damaged or defective items shall be replaced.

The contractor will be responsible for security of all materials and equipment. The contractor will be provided with storage area as determined by the COR. He shall be responsible for restoring the area to its original condition at the completion of the work. The contractor shall be responsible for repair of any damage incurred to buildings or pavement as a result of storage activities. He shall perform the work at the site during the U.S. Embassy's normal workday hours, unless agreed upon with the COR.

4. SCOPE OF WORK

Required works shall be performed in following areas on First floor level:

Room sign number	Room name	Room number on drawings	Remarks
1230	Office	1105	

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No number	Men	1113	
No number	Women	1115	
1235	Exercise Room	1111	

4.1. PREPARATION WORK

- 4.1.1. Temporary lift and remove the textile carpet tiles in MSG office in the zone where the partition gypsum wall should be replaced. Tile size is 600mm x 600mm, remove minimum two rows in total length of 2.0m along the east wall, starting from the window on the north side. Tiles should be temporary placed inside the room, and reinstalled once all works are completed. Removal should be done carefully, without any damage or dirt on the carpet tiles.
- 4.1.2. Temporary lift and remove the athletic floor tiles in the Exercise room zone in which the partition gypsum wall should be replaced. Remove tiles in the area of 2.0m along the west wall starting from the window on the north side and minimum 1.2m away from the wall. Tiles should be temporary placed inside the room, and reinstalled once all works are completed. Removal should be done carefully, without any damage or dirt on the athletic floor tiles.
- 4.1.3. Remove the primary and secondary suspended ceiling brackets in the zone in which the partition wall should be replaced. The area size is 2.0m along the east wall in the MSG office and 2.0m along the west wall in the Exercise room area, minimum 1.2m away from each wall. Re-assembly after making the wall. Complete relocation without damage to or dirt on ceiling brackets. Total area is about 2.0m x 2.4m.
- 4.1.4. Temporarily lift, remove, and replace the ceiling tiles and supports of the lowered suspended ceiling in the zone in which the partition gypsum wall should be replaced. The suspended ceiling elements in the MSG office and Exercise room area should be reassembled after making the partition wall. Removing or re-assembling should not damage or leave dirt on the ceiling tiles. Total area is about 2.0m x 2.4m.
- 4.1.5. Temporarily remove and replace the suspended ceiling in the Gym shower area, from the zone where the partition gypsum wall should be replaced. The area size is 6.0m x 1.0m in the Men's shower and 6.0m x 1.0m in the Women's shower. Suspended ceiling should be reinstalled once all work is completed.
- 4.1.6. Temporarily remove water fittings or drain connections, prior to start with ceramic tiles demolition. Removal of 4 sets of the shower batteries, shower heads, drains and valves and other parts should be done carefully and without any damage since they will be reinstalled once all works with ceramic tiles installation are completed.
- 4.1.7. Supply, deliver, and cover the floor around the construction works with protective foil d = 0.20 mm, bond parts with protective tape, protect smoke sensor from dust and the like.

4.2. FLOOR

- 4.2.1. Demolish and remove the existing ceramic tiles from the floor in the area with showers and between two shower drains in each bathroom. This work should be completed with attention to the remaining part of the floor, in order to keep and protect ceramic tiles that will not be removed. Total surface of the floor to be demolished is 1.0m x 6.0m in each bathroom.
- 4.2.2. Demolish and remove the sloped cement-based level, so-called "Estrih", that is 5-6cm depth, from the area where we removed floor ceramic tiles. This is required since the existing floor is not properly sloped and a new sloped layer will quickly evacuate water from the showers. Total surface of the floor to be demolished is 1.0m x 6.0m in each bathroom.
- 4.2.3. Clean the concrete floor surface to remove dirt and dust to install one layer of the bituminous waterproofing layer to cover complete floor and the bottom parts under the walls. Total surface of the floor to be insulated is 1.0m x 6.0m in each bathroom.
- 4.2.4. Supply and install slope-leveled glaze, a floating cement-based floor known as "Estrih", made of basic ingredients: cement, aggregate sand of 0-4mm granulation and water. Some percent of fine sand (so-called "zero") should be added to allow smoother surface finish. Total surface of the floor is 1.0m x 6.0m in each bathroom, layer depth is 4-5cm, sloped minimum 1.5% to the drainage line.
- 4.2.5. Clean the concrete floor surface to remove all dust, grease and contaminants using brush and vacuum-cleaner, pre-wet evenly the surface, and apply SIKA Sealing Tape in all corners and junction of walls and floor with this joint bandage.
- 4.2.6. Supply and install cementitious self-leveling, fast-hardening, flexible two-component slurry for waterproofing and damp proofing SIKA Top Seal 107 or similar. Apply first layers using trowel, cover complete floor area and after drying period of 3-6 hours apply second layer. This work should be performed at the same time as the waterproofing of the walls in the showers. Total surface of the floor to be insulated is 1.0m x 6.0m in each bathroom.

4.3. WALLS

- 4.3.1. Demolish and remove the existing ceramic tiles from the walls in the area with showers and between two showers in each bathroom. This work should be completed with attention to the remaining part of the wall, in order to keep and protect ceramic tiles that will not be removed from the room. Total surface of the walls for demolition is 16.0m x 5.0m.

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- 4.3.2. Demolish the existing drywall SF2 type including removal of the gypsum boards, aluminum vertical and horizontal studs and removal of the insulation placed inside drywall. Drywall SF2 type (partition width 121mm, stud size 89mm, spacing 400mm O.C. with GWB on one side and sound bath insulation) is height 5000mm between concrete floor and concrete slab. Transport material to the temporary location inside compound and later to the approved dump field. Total length of the walls to demolish is about 20.00m.
- 4.3.3. Supply and install new partition wall supporting structure made of aluminum studs CW-profile size 100/0.6mm length 5000mm, stud spacing 400mm O.C. Aluminum studs should be placed in horizontal U profiles (placed on concrete floor and concrete ceiling). The total length of walls to be installed is about 20.00m; the wall height is 5.00m. The price includes small material (screws, tapes, etc.).
- 4.3.4. Supply and install new partition wall supporting structure made of aluminum studs UW-profile size 100x40x0.6mm, length 4000mm. UW- profiles will be placed on concrete floor and on concrete ceiling. The total length of the new walls is about 20.00m. The price includes small material.
- 4.3.5. Supply and install insulation between aluminum studs - rock mineral wool product TERVOL DP-5 size 1000X600X100mm, thermal and acoustic insulation, fire protected, water- resistant and vapor-permeable and ecologically safe. The total length of walls to be insulated is about 20.00m; the wall height is 5.00m.
- 4.3.6. Supply and install new gypsum wall boards on the office sides of the framing - type Diamante 2000x1250x12.5mm. The same type of gypsum wall boards will be placed on the aluminum framing from the gym area side. New dry walls length is 2 x 2.00m, height 5.00m. The price should include small materials (screws, tape, etc.).
- 4.3.7. Supply and install new cement-backed boards for shower stalls, Knauf Aquapanel Indoor type or similar. Aquapanel Indoor is a non-combustible, asbestos-free, cement-coated, fiberglass mesh, of proven quality and resistant to water and mold, provides stability in demanding humid condition even when exposed to chlorine. New walls' length is 16.00m, height 5.00m. The price should include small materials required for the installation (screws, tapes, etc.).
- 4.3.8. Clean drywall surface to remove all the dust, grease and contaminants using brush and vacuum-cleaner, pre-wet evenly the surface, and apply SIKA Sealing Tape in all corners and junction with this type like joint bandage.
- 4.3.9. Supply and install cementitious self-leveling, fast hardening, flexible two-component slurry for waterproofing and damp proofing SIKA Top Seal 107 or similar. Apply first layers using trowel, cover complete wall area and after drying period of 3-6 hours apply second layer. This work should be performed at the same time as the waterproofing of the floors in the showers. The total length of walls to be insulated is about 16.00m; the wall height is 5.00m.

4.4. CERAMIC TILES

- 4.4.1. Supply and install one-pack premixed adhesive consisting of high-quality cements, selected quartz sands and specific adhesive, like tile adhesive SIKA Ceram-255 StarFlex or similar. This SIKA system for large format tiles achieves highly flexible layers up to 15mm thick. It is suitable for grès large ceramic tiles in the showers. This material is needed to install about 12.0m² of the floor ceramic tiles and about 80.0m² of the wall ceramic tiles.
- 4.4.2. Supply and install large format ceramic tiles for the walls, dimensions 30 x 90cm installed horizontally, extruded glazed ceramic tiles best quality (first class), water absorption less than 0.5%. In total is required to cover about 80.0m² of the walls and best practice is to supply at least 10% more of the material required.
- 4.4.3. Supply and install ceramic tiles for the floor, dimension 30 x 30cm, extruded ceramic tiles best quality (first class) with non-slip surface. The floor surface to cover with new ceramic tiles is about 12.0m² and best is to supply minimum 10% more of the material required.
- 4.4.4. Supply and install two-component, colored epoxy tile grout, for 2-20mm joints widths. Watertight, anti-fungal and anti-bacterial, with high chemical and abrasion resistance, type like SIKA Ceram Tile Grout or similar. It is suitable for public bathrooms.
- 4.4.5. Supply and install joint sealant, type like SIKASIL Color or similar. This is an acetic-crosslinking silicon sealant that is solvent-free and water resistant to mildew. It is suitable for forming expansion joints between tiles, tubs and sealing showers and forming expansion joints between walls and floors.

4.5. PAINTING WORK

- 4.5.1. Prepare wall surface applying impregnation solution in acrylic, type as SIKA Latex or similar. Apply plaster mass for plasterboard as prescribed by the manufacturer, in two layers. Conduct surface preparation manually, using sandpaper, mechanical scraping and dusting. Required quantity to cover new drywall surface in office space and in Exercise room area is about 20.0m².
- 4.5.2. Apply the refurbishment acrylic impregnation as a primer for dispersion colors over the new gypsum wall in MSG office and Exercise room. The surface area is about 20.0m².
- 4.5.3. Paint surface of the new installed gypsum wall in MSG office and Exercise room. Use same type of color as the existing interior paint color - CAPAROL 85890 curry 153D-system. The surface area is about 20.0m².

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- 4.5.4. Paint all other walls inside the in MSG office and Exercise room. Use same type of color as the existing interior paint color - CAPAROL 85890 curry 153D-system. The surface area is about 200.0m² (total painted area will be measured).
- 4.5.5. To refresh reinstalled ceiling, paint the existing ceiling in the Gym showers with paint to meet specifications for wet areas. Total surface is about 12.0m².

4.6. PLUMBING

- 4.6.1. Supply and install horizontal floor drains in each shower (in total 4 pcs) and between two floor zones (old floor tiles and new floor tiles), type ACO Shower Drain S-line or similar. This stainless-steel shower channel is made of electro-polished stainless steel, duct width 34mm, sound insulation elements, adjustable height of 30mm and water flow rate up to 0.8 l/sec. They have two types of cover grid, only 2.0cm wide. The total length of the floor drain line is 4 x 0.9m plus the area between two showers 2 x 2.0m.

4.7. FINAL WORK

- 4.7.1. Reinstall carpet tiles in the MSG office, size 600mm x 600mm, cut as required and glue to the concrete surface. Cover floor area in the proper way and reinstall plastic cover at the bottom of the wall (skirting). Total surface area is 1.2m x 2.0m.
- 4.7.2. Reinstall the athletic floor tiles in Exercise room area, fix to the concrete surface. Cover floor area in the proper way, in total about 1,2m x 2.0m.
- 4.7.3. Reinstall suspended ceiling tiles and supporters as needed. Fix supporters to the walls and close ceiling area with the ceiling tiles. Total area is about 2.0m x 2.4m.
- 4.7.4. Clean the whole area. Manually load and transport waste material to the city landfill.

5. APPLICABLE STANDARD

Project work shall conform to the requirements of the US building standards, such as provided by following:

- International Building Code (IBC) as a model building code developed by the International Code Council (ICC) and adopted throughout most of the US.
- American National Standards Institute (ANSA) as a premier source for timely, relevant information on national and international standards.
- ASTM (American Society for Testing and Materials) - Standards worldwide used to improve product quality, enhance safety and facilitate trade.

6. PROJECT COMPLETION SCHEDULE

The Project completion schedule (Work schedule or Time schedule) is prepared in accordance with the procedures and regulations that exist within the U.S. Embassy. This means that majority of the renovation work should be performed during regular working hours in the Chancery, from 7:00 to 19:00 Mon – Fri.

The Contractor will coordinate with COR for work phasing and job sequencing. Prior to start with project execution, the Contractor must submit project completion schedule for approval (Time schedule).

7. CLEANUP

The Contractor shall always keep the work area free from accumulation of waste materials. Upon completing construction, the Contractor shall remove all temporary facilities and leave the project site in a clean and orderly condition acceptable to the COR. The Contractor shall not use waste disposal facilities within the Embassy, including garbage cans, trash piles or dumpsters.

8. DELIVERABLE SCHEDULE

The Contractor shall commence work under this contract promptly, execute the work diligently, and achieve final completion and acceptance including final cleanup of the premises within the period specified in the contract.

9. PROJECT INSPECTIONS AND ACCEPTANCE

The contractor is required to prepare and submit reports, work schedule, bill of materials, product literature, drawings, specifications, quality control documents, safety plan and project costs.

The contractor is obliged to maintain a system of quality control in order to meet the requirements of this project. The contractor shall supply needed technical documentation, drawings, technical specifications and relevant certificate of the quality control for the materials that will be installed. All materials must meet specifications described in this SOW and be approved by COR prior to the start of work. Contractor is obligated to deliver required materials on the site, considering its quality and quantity. All submitted material should be stored and adequately protected, in accordance with the prescribed procedures and regulations.

U.S. Embassy reserve the right to inspect the Contractor's work as well as his system of quality control and quality assurance (QC/QA). Acceptance of the material submittals and other technical items shall be performed by COR. Acceptance or use of documents developed under this contract shall not relieve the contractor of any responsibility for the project quality.

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10. WARRANTY

The Contractor is requested to submit Warranty Statement for the installed materials in accordance with manufacturer's product data. In addition, the Contractor must submit Warranty Statement for the provided work for the period: minimum 12 months.