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| Monthly QA Report No. 2 | Project: WO-LT0082AMD2 Sardar Kabuli Girls' High School Fire Door Replacement QA Services |
| Date: August 23, 2016 | Report Duration: June 27, 2016 through July 24, 2016 |

PRESENTED TO

**United States Agency for International Development (USAID)
Office of Economic Growth and Infrastructure (OEGI)**

Great Massoud Road
Kabul, Afghanistan

PRESENTED BY

**Tetra Tech, Inc.
Afghanistan Engineering Support Program
Contract No. EDH-I-00-08-00027-00
Task Order No. 1**

Shash Darak
Kabul, Afghanistan

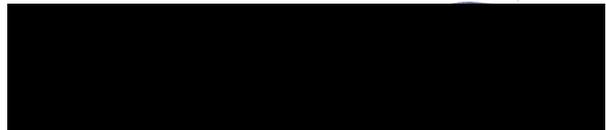
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DISCLAIMER

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MAIN PROJECT ISSUES

The following is a summation of observations of work accomplished and problems encountered during the reporting period of June 27 through July 24, 2016.

During this period, there were three meetings held on June 28, 2016, July 11, 2016 and July 18, 2016 respectively. The meetings were attended by the Tt QA team, the contractor and the contractor's painting subcontractor at the project site to discuss the painting works of masonry walls, the safety topics for laborers and the adjustment of doors and fixing/replacing of corner beads. The contractor agreed to the recommendations of QA team and addressed all concerns per contract requirements.

- Door panels and hardware installation for all doors on all floors. Adjustment of door panels and closing time speed for the installed doors was also observed.
- Painting works, PVA primer coating and filling over plaster on CMU walls and lintel beams for all floors. The Tt QA monitor recommended the contractor to cover doors panels with plastic in order to prevent paint spots on panel surfaces during painting.
- Cleaning of expansion joints for fire stop sealant for all three floors and installation of backing rods in expansion joints around all floors doors.
- Installation of tiles for wall skirts and repairing the other damaged areas around all doors frames on all floors.
- The QA Monitor advised/recommended that the contractor move the removed doors and frames from the school area to a USAID warehouse, to ensure no damage occurs to the material. The contractor transported the previous/removed doors to the USAID warehouse per Tt QA monitor recommendation.
- Replacement/Repair of the misaligned corner beads around the doors and curing of repaired corner beads around the door for all three floors.
- Some portions of the newly installed door frames on the first floor were splattered with cement mortar. The contractor cleaned the frames per QA monitor recommendation.
- The closing time speed for door panels require to be adjusted. As it is more than required. The Tt QA monitor recommended to adjust closing time speed between 3 and 7 seconds from 90° to 0°.
- Perez rectified the deficiency of un-plumb corner beads, which was noted on July 14, 2016. The contractor started resetting/repairing the corner beads from third floor on July 18, 2016. Recommendation was given to the contractor to carefully re-fix/repair the corner beads in order to avoid any damages to the fire rated door panels.
- The Tt QA monitor recommended the contractor remove construction debris which had collected on the school grounds and transport it to an appropriate location.
- Contractor was advised to repaint the stairway handrails that were damaged when they transported the old doors frames from the third and second floors. All parties agreed to paint the handrails at the end of project. Tetra Tech requested written confirmation of this approach from the contractor, who transmitted it on July 3, 2016.

Design and Drawing Review

Submittals

There were no submittals submitted during this reporting period.

Field Observations / Site Visit Details

Tetra Tech provided a QA monitor who was present on site present on site who observes contractor's work and all site activities continually and reports it on daily basis to Tetra Tech.

The following is a summary of observations, work accomplished, and problems encountered during this inspection period:

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- Cement plaster of CMU works and concrete lintels for remaining doors (D-16 to D-23) on the first floor.
 - Door panels and hardware installation for all doors on all floors.
 - Painting works, PVA primer coating and filling over plaster on CMU walls and lintel beams for all floors.
 - Curing of cement plaster, CMU works and RCC lintel beams for all doors.
 - Cleaning of expansion joints for fire stop sealant for all three floors and installation of backing rods in expansion joints around all floors doors.
 - Installation of tiles for wall skirts and repairing the other damaged areas around all doors frames on all floors.
 - General site cleaning of all three floors and outside of the building.
 - Adjustment of door panels and closing time speed for the installed doors.
 - Transportation of previously removed doors to USAID warehouse.
 - Replacement/Repair of the misaligned corner beads around the doors and curing of repaired corner beads around the door for all three floors.
 - Cleaning the paint spots from door panels and their frames for all three floors.

Findings:

- Some portions of the newly installed door frames on the first floor were splattered with cement mortar. The contractor cleaned the frames per QA monitor recommendation.
- The closing time speed for door panels require adjustment. As it is more than required. Tt QA monitor recommended to adjust closing time speed between 3 and 7 seconds from 90° to 0°.
- Perez rectified the deficiency of un-plumb corner beads, which was noted on July 14, 2016. The contractor started resetting/repairing the corner beads from third floor on July 18, 2016. Recommendation was given to the contractor to carefully re-fix/repair the corner beads in order to avoid any damages to the fire rated door panels.
- The Tt QA monitor recommended the contractor to cover doors panels with plastic in order to prevent paint spots on panel surfaces during painting.
- The QA Monitor advised/recommended that the contractor move the replaced doors and frames from the school area to a USAID warehouse, to ensure no damage occurs to the material.
- Contractor was advised to repaint the stairway handrails that were damaged when they transported the old doors frames from the third and second floors. All parties agreed to paint the handrails at the end of project. Tetra Tech requested written confirmation of this approach from the contractor, who transmitted it on July 3, 2016.
- The Tt QA monitor recommended the contractor remove construction debris which had collected on the school grounds and transport it to an appropriate location.

Problems:

- Door (D-7) on the third floor was painted as a sample, however the paint color did not match the existing wall color, therefore the painting work was stopped. The painter prepared the mix of two paints and prepared a better matching color paint and started painting again.
- While plastering around the doors, it was noted that the corner beads were not plumb in places. The contractor was trying to adjust the alignment using gypsum fill material, but the thickness of gypsum would exceed 2 cm in some places, making the edged prone to damage. The recommendation was given to the contractor to repair the plastered corner beads using one of two options:
 - 1- Remove the existing bead material, and re-apply correctly.
 - 2- Change the corner bead over plaster to include a radius, making the gypsum thickness less and corner less prone to damage

- Door panels and hardware installation for sample door D-3 continued for two days due to laborer’s lack of relevant experience in this field.
- In some places the depth of construction joints to be filled by firestop sealant material was not uniform.

Contractor Staffing Levels

Average manpower during this reporting period is shown below

| Date | PM | QCM | QC & HSE | Skilled labor | Unskilled labor | Foreman | Surveyor/Helper | Others |
|--------------|------|-----|----------|---------------|-----------------|---------|-----------------|--------|
| 27/06- 03/07 | 0.15 | 1 | 1 | 2.8 | 5.6 | 0.7 | 0 | 0.3 |
| 04/07- 10/07 | 0.7 | 1 | 1 | 5 | 3.3 | 0 | 0 | 0 |
| 11/07- 17/07 | 1 | 1 | 1 | 4 | 2.4 | 0 | 0 | 0 |
| 18/07- 24/07 | 0.6 | 0.7 | 1 | 4 | 4 | 1 | 0 | 0 |
| Average | 0.6 | 0.9 | 1 | 4 | 3.8 | 0.4 | 0 | 0 |

Quality Control Procedure Review

Non-Conformance Reports (NCRs) :

There were no NCR reports generated during this reporting period.

Observation Reports (OBSRs):

There were no OBSR reports generated during this reporting period.

Health and Safety Oversight

The Tetra Tech QA monitor recommended the contractor follow approved safety precautions including:

- barricades restricting access to materials
- housekeeping after each construction process to avoid any incidents on the project site
- use of proper personal protective equipment (PPE) for laborers onsite.

Security

There were no security issues noted during this reporting period.

Delays

During this reporting period, no delays were reported:

Environmental

No environmental issues were noted during this reporting period.

Schedule Review

The contractor submitted the two week look-ahead schedule and the monthly updated schedule on June 27, 2016 for Tetra Tech review and comments. Both schedules were reviewed and found to be adequately detailed and in alignment with the baseline schedule, hence they were approved.

The contractor submitted the second two week look-ahead schedule on July 14, 2016 for Tetra Tech review and comments. The schedule was reviewed but found to be inadequately detailed. Additionally it was not in alignment with the baseline schedule. Therefore, it was rejected on July 17, 2016 to be resubmitted once it is corrected. It is still awaiting receipt of the revised schedule.

Invoice Verification

The scope of work approved for Tetra Tech did not cover the invoice verification for the project. However, Tetra Tech is looking forward to receiving the invoice to process as it is part of Tt QA responsibilities in alignment with USAID’s request. Tetra Tech has field-verified the progress percentage of the contractor’s completed works compared to their request for invoice payment, however this was the only document Tt received to verify.

APPENDICES

APPENDIX A – ACRONYMS

ACRONYMS

| | |
|-------|---|
| ACI | American Concrete Institute |
| ACOR | Assistant Contracting Officer's Representative |
| AESP | Afghanistan Engineering Support Program |
| ASTM | American Society for Testing and Materials |
| CA | Corrective Action |
| CAR | Corrective Action Report |
| CM | Construction Manager |
| CMC | Construction Management Contractor |
| COP | Chief of Party |
| COR | Contracting Officer's Representative |
| DC | Direct Current |
| Dept. | Department |
| HS | Health and Safety |
| HSE | Health, Safety and Environment |
| ID | Identification |
| IEC | International Electro technical Commission |
| IEEE | Institute of Electrical and Electronics Engineers |
| IT | Information Technology |
| ITU | International Telecommunications Union |
| kV | Kilo Volts |
| LA | Lead Auditor |
| LT | Long Term |
| MIS | Management Information System |
| NCR | Non-Conformance Report |
| OBR | Observation Report |
| OBS | Observation |
| OEGI | Office of Economic Growth and Infrastructure |
| OIG | Office of the Inspector General |
| PE | Project Engineer |
| PMP | Project Management Plan |
| PQA | Project Quality Auditor |
| QA | Quality Assurance |
| QAP | Quality Assurance Plan |

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|-----------|--|
| QC | Quality Control |
| PE | Project Engineer |
| Reachback | Staffing in the USA that supports this project |
| RFP | Request for Proposal |
| SM | Security Manager |
| SME | Subject Matter Expert |
| SOP | Standard Operating Procedure |
| SPM | Support Manager |
| STM | Senior Technical Manager |
| TL | Technical Lead |
| Tt | Tetra Tech, Inc. |
| TtRB | Tetra Tech Reachback |
| TT | Type Test |
| USAID | United States Agency for International Development |
| WO | Work Order |