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**INTERNATIONAL RELIEF AND DEVELOPMENT
4th Quarter Report 2012
October 1, 2012 – December 31, 2012
Engineering Quality Assurance and Logistical Support
(EQUALS)**

This publication was produced by International Relief and Development for review by the United States Agency for International Development.

Abbreviations

- **3WLA** Three Week Look Ahead
- **ACEP** Afghanistan Clean Energy Projects
- **AGS** Afghanistan Geological Survey
- **AIDC** Afghan Infrastructure Data Center
- **AISCS** Afghanistan Infrastructure and Security Cartography System
- **ANA** Afghan National Army
- **ANDS** Afghanistan National Development Strategy
- **AOTR** Agreement Officer's Technical Representative
- **APPF** Afghan Public Protection Force
- **APRP** Afghanistan Peace and Reintegration Program
- **B&V** Black & Veatch
- **BoQ** Bill of Quantities
- **CAB** Crushed Aggregate Base
- **CBR** California Bearing Ratio
- **CBWG** Capacity Building Working Group
- **CDP** Community Development Plan
- **CDP** Continuous Data Protection
- **CDU** Capacity Development Unit
- **CERP** Commander's Emergency Response Program
- **CHC** Clinic Health Centers
- **CHEF Program** Construction of Health and Educational Facilities Program
- **CL** Center Line
- **CLTS** Community Led Total Sanitation
- **CMU** Concrete Masonry Unit
- **CoP** Chief of Party
- **COTR** Contracting Officer's Technical Representative
- **DABS** Da Afghanistan Breshna Sherkat, the National Electric Company
- **DCoP** Deputy Chief of Party
- **DFAC** Dining Facility
- **DHPP** Darunta Hydroelectric Power Plant
- **DNS** Domain Name System
- **DQPR** Daily Quality Production Report
- **FoHE** Faculty of Higher Education
- **FPO** Field Program Officer
- **GIRoA** Government of the Islamic Republic of Afghanistan
- **GIS** Geographic Information System
- **GPS** Global Positioning System
- **GSM** Global System for Mobile Communications
- **HMIS** Health Management Information System
- **IDC** Infrastructure Data Center
- **IDF** Indirect Fire
- **IED** Improvised Explosive Device
- **IOM** International Organization for Migration
- **IP** Implementing Partner

- **ISD** Infrastructure Services Department
- **KHPP** Kandahar Helmand Power Project
- **LA** Los Angeles
- **LCP** Local Compensation Plan
- **LOE** Level of Effort
- **LL** Liquid Limit
- **MAIL** Ministry of Agriculture, Irrigation, and Livestock
- **MECC** Mashriq Engineering Construction Company
- **MoEc** Ministry of Economy
- **MoEd** Ministry of Education
- **MoEW** Ministry of Energy and Water
- **MoFA** Ministry of Foreign Affairs
- **MoI** Ministry of Interior
- **MoM** Ministry of Mines
- **MoPH** Ministry of Public Health
- **MoPW** Ministry of Public Works
- **MST** Mobile Security Team
- **MTC** Midwife Training Center
- **NDABS** Nangarhar Da Afghanistan Breshna Sherkat (National Electric Company)
- **NLCC** National Load Control Center
- **O&M** Operations and Maintenance
- **OAA** Office of Acquisition and Assistance
- **ODF** Open Defecation Free
- **OEGI** Office of Economic Growth and Infrastructure
- **OP** Observation Post
- **OSHA** Occupational Safety and Health Administration
- **PBACC** Piroz Bame Afghan Construction Company
- **PCC** Plain Cement Concrete
- **PKM** Pulemyot Kalashnikova Modernizirovanniy (machine gun)
- **PL** Plastic Limit
- **POC** Point of Contact
- **PTEC** Power Transmission Expansion and Connectivity Project
- **PTTC** Provincial Teacher Training Center
- **PVC** Polyvinyl Chloride
- **QA** Quality Assurance
- **QC** Quality Control
- **RCC** Reinforced Cement Concrete
- **RFA** Request for Approval
- **RFS** Request for Survey
- **RFT** Request for Testing
- **RFWI** Request for Works Inspection
- **RMC** Risk Management Company
- **SIA** Social Impact Assessment
- **SIPD** Shorandam Industrial Park Diesel Power Plant
- **SRRM** Silk Route Risk Management
- **SWSS** Sustainable Water Supply and Sanitation

- **TS-SCoW** Technical Secretariat of the Supreme Council on Water
- **TOR** Terms of Reference
- **UPS** Uninterruptible Power Supply
- **USACE** U.S. Army Corps of Engineers
- **USAID** United States Agency for International Development
- **VICC** Venco Imtiaz Construction Company
- **VS** Vertical Structure
- **WSST** Water Supply and Sanitation Team
- **ZKCC** Zafar Khaliq Construction Company

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EXECUTIVE SUMMARY

Vertical Structures and National Monitoring Team

Work continued on eight of the nine projects comprising two hospitals, three midwife training centers, and four provincial teacher training centers. The ninth project, MTC Khost, was completed and handed over on March 22, 2011. In December 2012, the following five projects were substantially completed and handed over to the Ministry of Public Health:

- PTTC Nangarhar on December 09, 2012
- PTTC Wardak on December 20, 2012
- PTTC Faryab on December 27, 2012
- MTC Bamyan on December 29, 2012
- MTC Badakhshan on December 29, 2012

As of December 31, 2012, the following three CHEF projects remained under construction:

- 100 Bed Hospital in Gardez
- 20 Bed Hospital in Khairkot
- PTTC Parwan

The common contractor, Zafar Khaliq Construction Company (ZKCC), of three Faculty of Higher Education projects in Balkh, Jawzjan, and Faryab Provinces entered into a dispute with USACE on costs and remunerations. ZKCC halted work at Balkh and Jawzjan sites on August 4, 2012, and at the Faryab site on August 11, 2012. EQUALS QA engineers conducted inspections of all three projects during the period August 28 – 30, 2012 and compiled a report for USAID on incomplete works remaining at each project site. The report was emailed to USAID on September 02, 2012. USACE indicated that it intended to award the outstanding work at these three sites to a new contractor on October 15, 2012. However, a contractor has yet to be appointed.

Under the Kabul University Buildings Program, various areas of the Men's Dormitory were renovated and handed over to the Kabul University's administration at various stages. The building's central heating plant will be tested and commissioned by the contractor VICC in January 2013. This will be observed by EQUALS and a report sent to USAID. Upon receipt of a notice of extensive water leakages in the common toilets/bathrooms of the Men's Dormitory, USAID directed EQUALS to conduct an investigation and submit a report on the likely causes of the leaks and propose rectification measures. EQUALS, along with representatives of USAID and the construction contractor VICC, conducted detailed inspections of the leaks on November 01 and 06, 2012 and submitted a final report with recommendations to USAID on November 29, 2012. EQUALS is prepared to receive further directives and instructions from USAID in regard to the water leakages report and its recommendations.

The National Monitoring Team field engineers conducted inspections of 700 SWSS well/CLTS projects in various provinces of Afghanistan. In addition, NMT field engineers verified project data on 225 health care facilities belonging to the Ministry of Public Health and supplied collected data to AIDC.

Roads Quality Assurance

QA engineers conducted 236 inspections on Section 2 of the Gardez-Khost Road Phase III construction project this period. The USAID IP contractor MECC performed adequately in maintaining the traffic flow on the road, particularly at Bridge # 10 and continued with Phase III

construction work including culverts, roadway embankment placement and compaction, rock excavation, crushed aggregate base placement and compaction, lined side drainage ditch excavation, stone masonry retaining/guard/wing wall placements and materials testing activities. Gardez-Khost Road work was limited in October due to the Eid holiday and associated time off by the Contractor. The work was halted in Section 2A due to snowfall during the second half of the month of December 2012. EQUALS staff attended the bi-weekly meetings held at the USAID offices with USAID and MECC. EQUALS prepared the verification of the BOQ items for IPC #3 in December 2012.

Job Order 05 operation and maintenance of Camp Liz, monitoring the IP construction contractor on Gardez - Khost Road, and providing security services for the camp and mobile inspection teams continued throughout this quarter with no major issues. EQUALS continues to meet with and coordinate roadway construction efforts with the local district leaders and village elders along Section 2 in addition to initiating coordination meetings with the USAID FPO and COP Wilderness US military commanders and advisors.

EQUALS hosted a four-district local Shura on November 18, 2012 that was attended by the MoPW, MECC, and TetraTech personnel as well as Swack, Garde Serai, Wazi Zadran, and Domando District sub-governors and local elders.

EQUALS continued daily, weekly and monthly reporting for Job Order 05. EQUALS prepared and submitted a JO-05 Modification 1 proposal to USAID on October 23, 2012, for the improved Camp Liz operation, maintenance, and security services as well as additional QA contract services for the Phase III construction work.

Power Quality Assurance

KHPP

EQUALS mechanical engineer continued to work with the IP to improve the performance of the Shorandam Industrial Park Diesel Power Plant (SIPD). This work included recommendations on punch list items to improve plant performance and operability. On December 30, 2012, an EQUALS representative witnessed acceptance testing of the generators, resulting in hand-over to DABS.

At the Durai Junction Substation, EQUALS began conducting long term QA monitoring of the project site. Seventy-eight daily monitoring reports were submitted during this period. Additionally, site visits were made by both the EQUALS Electrical Engineer and the EQUALS Power Team Lead.

Construction began on the 7 diesel generators to be installed at the Breshna Kot Substation (KDEG project), with EQUALS commencing daily monitoring reports on October 09, 2012.

EQUALS mechanical engineer visited Kajaki during the Unit 1 runner cone installation, which seems to have corrected the vibration problem that was being experienced.

The IP continued forwarding daily production quality reports to USAID (copying EQUALS) in this reporting period. EQUALS continued relying on the IP for transportation, accommodation, and security to and from the project sites. This limits the capability of EQUALS to conduct independent site inspections as this support is provided on a space available basis and dependent on the IP's schedule.

Darunta Hydro Power Plant (DHPP)

The EQUALS QA Power team continued monitoring the operating condition of the Darunta Hydro Power Plant (DHPP) and is implementing the 6-10 months Preventive Maintenance Plan until the award of a follow-on contract by USAID.

The training of the DHPP personnel in O&M subjects started in December 2012. The first segment of the “Basic Course” took place at DHPP December 22 - 27, 2012.

Ministry of Energy and Water

During the reporting period, the Water Supply and Sanitation Team (WSST) supported four key fronts: 1) Facilitation of the weekly meetings of the Technical Secretariat of the Supreme Council on Water (TS-SCoW) focusing on planned USAID capacity building and logistical support to the TS-SCoW; 2) Support to the Ministry of Energy and Water (MoEW) with various technical and policy issues associated with the five major dam projects currently under construction; 3) Support to USAID-Kabul Water Team in liaising with the Afghan Water Sector; and 4) the 3rd National Conference on Water Resources Development and Management of Afghanistan.

GIRoA Capacity Development Unit

The CDU completed the management training courses at the GIRoA ministries i.e. MoPW, MoM, MoEd, MoPH and MoEc and reduced its presence therein. The CDU team worked closely with the GIRoA Ministries’ Leadership to facilitate institutionalization and sustainability of the IDCs. The CDU also worked on facilitating the establishment of database working groups at the GIRoA ministries to avoid duplication of efforts and to facilitate coordination between the database stakeholders in those Ministries. More specifically, the CDU closely worked with the IDCs regarding staff retention, database working groups, and future data collection mechanisms. The team also developed interim-needs assessment reports of the GIRoA IDCs to find out about major accomplishments since the start of the training program.

Afghanistan Infrastructure Data Center

The AIDC team mission continued to respond to USAID requirements by providing accurate infrastructure information on buildings, roads, power, and SWSS projects, and providing relevant geographic map requests for specific USAID needs. Services provided by the mapping team for USAID include Commander’s Emergency Response Program (CERP) mapping, preparing additional maps for the OEGI team, continually updating the Afghan Master Road map, and Vertical Structures project mapping. The data center also applied quality control measures on 167 USAID building projects, 991 USAID SWSS well projects, 321 CLTS reports, 106 ACEP projects, 4 latrines and 147 non-USAID health care facilities, and transferred 1270 site visit reports and technical documents to the USAID AISCs. All teams met or exceeded their goals for the 4th quarter of 2012.

1 PROGRAM UPDATE – TECHNICAL SERVICES

1.1 Vertical Structures

1.1.1. Construction of Health and Education Facilities Program

1.1.1 A Accomplishments and Project Update

Construction activities continued during this period.

The percentage of work reported against each individual project is verified by EQUALS and IOM field engineers jointly for each project. On a weekly basis, EQUALS submits a signed copy of the percentage verification report to the USAID AOTR for the CHEF program.

EQUALS anticipated substantial completion dates are based on the progress of work achieved on each individual project, also taking into account the time it has taken to achieve the present stage of work completion since the start of construction.

Following is the current status of individual projects under the CHEF program:

MTC Badakhshan: Concreting of storm water drain and sewer manholes, conducting of pressure tests for water supply pipes, mirror installation in bathrooms, painting of the main gate columns, cleaning, backfilling and compaction of earth layers around water tower base, bitumen water-proofing placement around the guardhouse septic tank, rust protection of main gate, fire extinguisher installation, clip fixing for the water tank inlet and outlet pipes, fire rated strip installation for stove duct, screen mesh fastening on vent pipes, pressure testing for cold water pipe of dormitory building's laundry room, chemical polishing of floor chips, grading/leveling of the project site, painting of water tower, and adjustment and fitting of wooden doors within frames were completed. Installation of kitchen sinks, fuel pump cover, tile work at clinical lab, and general cleaning were ongoing.

Substantial completion inspection of the project was conducted on December 29, 2012 by representatives of EQUALS, IOM and MoPH. A punch list was issued for some items that are being rectified by the contractor.

MTC Bamyan: Rectification of defective ceramic tiles, painting of entrance lobby and water tower, plumbing works, installation of ceramic tiles, grading and leveling of project site, concreting over yard cleanout, storm water drain excavation and placing, pressure testing for water supply piping, sanitary equipment installation, stone masonry placing alongside walkway, plumbing works, application of silicon joints in gutter, painting of water tower columns and beams, cleaning of academy building interiors, insulation installation in water tank, fixing of wash basins, rust protection of metal louver at generator room, cleaning and antirust painting of manhole covers and ladder to roof, glazing installation in metal door lights, putty filling in gaps of louver frames, inlet pipe connection of water tower tank to water well, demolition of contractor's temporary store, and cleaning of debris from project site were completed.

Substantial completion inspection of the main building was conducted on December 29, 2012 by representatives of EQUALS, IOM and MoPH. A punch list of defective and incomplete items was prepared and issued, which is being rectified by the contractor.

MTC Khost: The building is complete and was handed over on March 22, 2011. IOM has not yet submitted as-built drawings.

PTTC Faryab: Metal roof sheet installation on male dormitory, guard house, and academic building, placement of lightning protection conductor strip and terminal rods on the academy building roof, electrical works, fixing of kick plates to doors, fuel tank and associated pump installation, backfilling and leveling of earth layers on site, site cleaning, testing of lightning protection cable and rod, leakage testing for propane gas tank piping, application of touch up paint layers on handrails and doors, fixing and rectification of metal flashing around the buildings, installation of gutters and vent pipes for all buildings, installation of marble treads on side-stairs, painting of propane gas tank, fixing of doors, site filling and leveling, demolition and cleaning of temporary toilets, installation of pressure gauge, filter and gate valve for fuel pipes, terrazzo floor polishing at male and female dormitories and academy building, and cleaning of building interiors were completed.

Substantial completion inspection of the project was conducted on December 27, 2012 by representatives of EQUALS, IOM and MoEd. A punch list of defective and incomplete items was prepared and issued, which is being rectified by the contractor.

PTTC Parwan: Installation of marble treads and risers in male dormitory building stairs, handrail fixing on academic building and male/female dormitory stairs, electrical works, ceramic tile fixing in kitchen, site cleaning, fabrication, painting and installation of access doors for building roofs, installation of gypsum board at kitchen canopy's east side, skirting placement at academic building, stone patching for side of road, floor drain installation, electrical works, door fixing for generator room, cleaning of exterior and interior spaces of male and female dormitories, polishing of stairs in main staircase at female dormitory building, fixing of steel grating over storm water trench, handrail welding and painting, plastering of generator house walls and cleaning of generator house floor were completed.

Progress achieved is 96%.

IOM provided substantial completion date is October 31, 2012 (revised date is awaited from IOM).
EQUALS anticipates substantial completion by January 15, 2013.

PTTC Wardak: Water pipe installation, door painting, laying of roadway curb stones, insulation placing on water supply piping, grading and cleaning of the site, electrical grounding manhole construction, trench excavation for electric cable and for laying water pipe for guardhouse, and handrail painting were completed.

Substantial completion inspection of the main building was conducted on December 20, 2012 by representatives of USAID, EQUALS, IOM and MoEd. A punch list was issued for defective and incomplete items that are being rectified by the contractor.

PTTC Nangarhar: Curtain rod installation over window openings, formwork fixing, steel reinforcement placement, and concreting for rectification of water tower's missing beams were completed.

Substantial completion inspection of the main building was conducted on December 09, 2012 by representatives of USAID, EQUALS, and IOM. A punch list was issued for defective and incomplete items that are being rectified by the contractor.

100 Bed Hospital in Gardez, Paktya: Terrazzo floor polishing, electrical works, removal of formwork under formed slabs and beams of water tower, concrete placement for septic tank slab, leach field preparation, formwork laying and steel reinforcement fixing for fuel tank and manholes, compaction of road at the west side of buildings, concreting of water tower beams and columns, removal of construction debris from the project site, excavation of gray water filter bed (leach field), and shuttering, reinforcement and concreting for gully manholes were completed. Fixing of metal

doors, site grading at area B-6, stone masonry of boundary walls at the north side of main building, installation of electrical conduits in conference hall and clinics, final gypsum plastering, terrazzo floor polishing, installation of roof membrane, nail-able insulation and roof board in conference hall and clinics and male block # 2, terrazzo floor polishing in admin block and male block # 1, installation of PVC prefabricated windows in male and female blocks # 1 - 2, fixing of metal decking on canopy, fan coil unit fitting in emergency department, placement of shuttering and reinforcement for electrical manholes, fan coil unit fixing in corridor, installation and fixing of air cooled condensing unit, installation of PVC conduits for electric cables, placement and compaction of sub-base materials in roadway at the east side of main building, installation of vent pipes in male block, placement of insulation boards and membranes in recovery and delivery block, and installation of electrical conduits for lighting systems in dining and kitchen block were in progress.

Progress achieved is 68%.

IOM has not yet supplied a substantial completion date for this project.

EQUALS anticipates substantial completion by July 31, 2013 provided the contractor increases the current pace of work.

20 Bed Hospital Khair Kot, Paktika: The contractor, Piroz Bame Afghan Construction Company (PBACC), stopped work on this project on September 01, 2012, demanding increases in cost of labor and materials from IOM. PBACC claimed to have incurred increased costs due to lack of security at the site, and on roads leading to it. USAID directed IOM to resolve the issue with the contractor so work could resume. Due to this issue, the construction work was delayed for approximately two months. Construction was restarted on November 02, 2012. Concreting of sidewalk, roadway, road curb stones and water tower slab, terrazzo flooring, installation of polystyrene insulation boards on exterior walls at female ward, plastering of walls and ceiling of generator house, electrical works, fixing of marble treads and risers to stairs, handrail fabrication and installation for ramp, preparation of standing seams in roof sheeting, laying out and concrete base layer for terrazzo flooring in male ward corridor, terrazzo floor polishing in female ward, and installation of galvanized water downspouts were ongoing.

Progress achieved is 83%.

IOM has not yet supplied a substantial completion date for this project.

EQUALS anticipates substantial completion by May 31, 2013.

Table 1: Key Performance Indicators for Construction of Health and Educational Facilities Program

Key Performance Indicators for 4 th Quarter 2012	Task Owner	Quarterly Required Deliverables	Quarterly Actual Deliverables	Annual Required Deliverables	Annual Completed Deliverables
Construction of Health and Educational Facilities Program					
Number of review reports on architectural and engineering drawings and specs	USAID	0	0	0	0

Number of site inspections (monitoring, substantial completion, punch list verification, final, warranty etc.) and reports completed by EQUALS VS engineers	USAID	624	504 ¹	1280	1032
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1.1.1 B Salient Issues and Concerns

None

1.1.1 C Future Activities

The Vertical Structures Team will continue to provide QA services on CHEF sites, including verification of materials testing and oversight and monitoring at project construction sites.

1.1.2 Faculties of Higher Education (FOHE) Program

1.1.2 A Accomplishments and Status

Leftover work at FoHE projects in Balkh, Jawzjan and Faryab is still not awarded. USACE conveyed that it would award the remaining work at FoHE projects in Balkh, Jawzjan and Faryab to a new contractor in December 2012. However, an award has yet to take place. Consequently, EQUALS anticipated dates of completion will be determined and stated once the work has re-started and the contractor has submitted work schedules.

Balkh: Progress achieved is 90%.

Jawzjan: Progress achieved is 90%.

Faryab: Progress achieved is 95%.

Herat: This building was completed on February 14, 2012 and has been handed-over. Some punch list items have not been rectified. The USACE Project Manager, Ms. Kaaren Neumann, indicated that a new contractor was to be appointed on/about December 31, 2012 for completing the outstanding work on this project. EQUALS anticipated completion date for this project will be determined and stated after USACE has appointed a contractor, and upon EQUALS reviewing the approved completion schedule.

Table 2: Key Performance Indicators for Faculty of Higher Education Program

Key Performance Indicators for 4th Quarter 2012	Task Owner	Quarterly Required Deliverables	Quarterly Actual Deliverables	Annual Required Deliverables	Annual Completed Deliverables
Number of architectural and engineering drawings review reports.	USAID	0	0	0	0

¹ Number of actual deliverables is lower than required due to work stoppage by the contractor for the full month of October.

Number of site inspections (monitoring, substantial completion, punch list verification, final, warranty etc.) and reports completed by EQUALS VS engineers	USAID	117	0 ²	136	65
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1.1.2 B Issues and Concerns

None

1.1.2 C Future Activities

Upon resumption of work on these projects, EQUALS will resume providing QA on FoHE project sites, including monitoring materials testing and oversight and monitoring of construction methods and materials used by construction contractors at each site.

1.1.3 Renovation of Men’s Dormitory, and Design and Construction of New Dining Facility and Laundry at Kabul University

1.1.3 A Accomplishments and Status

Following was the status of activities during this quarter:

Dormitory Building Wings A, B, C & D: Complete and handed over. Inspections of the common toilets/bathrooms of the Men’s Dormitory were conducted on November 01 and 06, 2012 to determine sources and causes of water leakages in the ceilings. Representatives of USAID and VICC also participated in the inspection on November 01, 2012. EQUALS’ report explaining the causes of the water leakages and providing recommendations for their rectification was submitted to USAID on November 29, 2012.

Central Core Area: Complete and handed over on June 10, 2012.

Dining Facility (DFAC) Building: Civil works were handed over on June 04, 2012.

Water Reservoir & Pump House: Handover of this portion to the Dormitory Manager and staff took place on August 05, 2012. Rectification of some punch list items identified during final inspection is still pending.

Storage Room: Complete and handed over on May 06, 2012.

Administration Building: Complete and handed over on March 07, 2012.

Main entrance and sidewalks: Complete and handed over on June 05, 2012.

Bunker/Silo for Storage of Waste Asbestos: Complete and handed over on July 07, 2012.

Electricity Transformers: On December 10, 2012, the temporary electrical supply connection was cut off and in its place the new permanent connection was made by VICC through DABS. A new electricity meter remains to be installed as the University owes monies in arrears to DABS on the previous meter, which must be cleared first in order for DABS to allow installation and use of the new meter. EQUALS will follow up on this outstanding issue and will report to USAID upon its satisfactory resolution.

Progress achieved on different elements of the project at the end of the period is as follows:

- Dormitory Building Wing A: 100%
- Dormitory Building Wing B: 100%
- Dormitory Building Wing C: 99.5%

² The number of required deliverables is zero due to work stoppage on three FoHE projects in Balkh, Jawzjan and Faryab since August 04, 2012.

- Dormitory Building Wing D: 100%
- Dormitory Building Core Section: 100%
- Dining Facility (DFAC) Building: 99%
- Laundry Building: 100%
- Underground RCC water storage tank including water well: 99%
- Mechanical Room: 99%
- Electrical substation including wiring system: 99.5%
- Admin Building: 99.5%

The building's various functional areas are all complete and have been handed over to Kabul University's Administration. The building's central heating system will be tested and commissioned by VICC in January 2013. EQUALS will observe the testing and commissioning, when it takes place, and send a report with recommendations to USAID.

Table 3: Key Performance Indicators for Men's Dormitory and Dining Facility Building

Key Performance Indicators for 4 th Quarter 2012	Task Owner	Quarterly Required Deliverables	Quarterly Actual Deliverables	Annual Required Deliverables	Annual Completed Deliverables
Number of architectural and engineering drawings review reports	USAID	0	0	0	0
Number of site inspections and reports completed by EQUALS VS engineers	USAID	5	5	52	52

1.1.3 B Salient Issues and Concerns

None

1.1.3 C Future Activities

This project will be fully completed upon successful testing and commissioning of the building's central heating system. However, if USAID chooses to direct VICC to fix the extensive leaks that occurred in all 16 renovated common toilets/bathrooms of the Men's Dormitory, EQUALS QA engineers will monitor this work for reporting proper rectification to USAID.

1.1.4 Kabul Schools Program: External Utilities of Sardar Kabuli Girls' High School

1.1.4A Accomplishments and Status

External utilities to be constructed under this project consist of an assembly area, car park, pedestrian walkways, sewage holding tank, leach field, elevated water tank, tube well, pump house and electrical transformer. USAID awarded the construction contract for these utility works to Perini Management Services Inc. in May 2012 with a stated completion period of seven months. However, construction was delayed since proper de-mining of the school's compound up to the recommended soil depths was not carried out previously. Consequently, the firm EOTD was awarded the contract for de-mining of the school's compound. EOTD began the task on July 28, 2012 and completed it on August 05, 2012. Actual construction work of the utilities started on August 07, 2012.

The following construction activities were ongoing this quarter:

- Formwork laying and steel reinforcement fixing for the foundation of septic tank
- Concrete casting for septic tank and foundations of well house

- Preparation of leach field including preparation of sub-base layers
- Construction of masonry walls for well house
- Trench excavation and backfilling for water supply pipes and electrical cables
- Conducting of hydrostatic pressure tests for water supply piping
- Foundation excavation for water tank
- Concrete casting in trenches at the east and south side of the school building
- Leveling and grading of the site for construction of new walkways for students and teachers
- Leveling and grading at the north of the existing older school block
- Construction of new walkways
- Placement of terrazzo tiling on assembly area

The contractor stopped activities at the site on December 06, 2012 except for curing and conducting of concrete cylinder testing in the laboratory of concrete batches cast earlier. The work stoppage occurred due to a dispute over some matters between PMSI and the construction subcontractor. At a meeting held on site between project managers from USAID, PMSI, and EQUALS on December 13, 2012, it was decided that PMSI would have the work restarted by the previous subcontractor by December 15, 2012 and a new subcontractor HCG would procure the required transformer and steel water tank with special galvanized finish from Dubai in case both items are not available in Afghanistan.

EQUALS Program Manager conducted an inspection of utilities (electrical, sewage treatment, and water-supply systems) of the previously completed Ghazi Boys High School Project in Kabul upon the end of its one-year warranty period and submitted a report to USAID. EQUALS Program Manager also met with officials of the GIROA electrical utility company DABS on three occasions to request and expedite the provision of electrical connections to the Men's Dormitory at Kabul University and to Sardar Kabuli Girls High School. He also arranged a meeting with DABS attended by representatives of Tetra Tech and VICC to discuss outstanding issues to be resolved to DABS' satisfaction. Based upon these meetings, DABS agreed to energize the transformers at the Men's Dormitory in Kabul University.

Progress achieved is as follows:

- Preliminary and general: 78%
- Casting of concrete elements: 40%
- Sanitary treatment and drainage system: 78%
- Water supply system including piping: 25%
- Power supply system: 30%
- Miscellaneous site items: 2%

Overall progress achieved is: 42%

EQUALS anticipates substantial completion by March 30, 2013.

Table 4: Key Performance Indicators for External Utilities at Sardar Kabuli School, under Kabul Schools Program

Key Performance Indicators for 4 th Quarter 2012	Task Owner	Quarterly Required Deliverables	Quarterly Actual Deliverables	Annual Required Deliverables	Annual Completed Deliverables
External Utilities at Sardar Kabuli School					
Number of review reports on architectural and engineering drawings and specs	USAID	0	0	0	0
Number of site inspections (monitoring, substantial completion, punch list verification, final, warranty etc.) and reports completed by EQUALS VS engineers	USAID	78	72 ³	182	129

1.1.4 B Salient Issues and Concerns

None

1.1.4 C Future Activities

Routine monitoring activities are scheduled for the next reporting period.

1.2 National Monitoring Team

1.2.1 Accomplishments and Status

Sustainable Water Supply and Sanitation Projects: During this quarter, NMT field engineers conducted site inspections of 703 SWSS well/CLTS projects in various provinces, finishing both programs except for a very few (< 1%) that were not accessible due to security restrictions. Findings include:

- 325 wells were inspected and 313 were found to be complete and operational. Eleven SWSS well projects were not operational and one well was cancelled at the time of inspection. Water test results were available for over 80% of them.
- The remaining 378 CLTC projects were inspected.

Table 5: Key Performance Indicators for SWSS and CLTS projects

Key Performance Indicators for 4 th Quarter 2012	Task Owner	Quarterly Required Deliverables	Quarterly Actual Deliverables	Annual Required Deliverables	Annual Completed Deliverables
SWSS projects					
Number of architectural and engineering drawings review reports.	USAID	0	0	0	0

³ The number of actual monthly deliverables is lower than required due to site closure and the Eid holiday from October 25 – 30, 2012 and the Ashura holiday from Nov 23 – 24, 2012.

Number of site inspections reports completed by NMT engineers	USAID	240	703	1000	1597
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Future SWSS/CLTS inspections: The Implementing Partners have accomplished no SWSS well construction or CLTS training since September 01, 2012. Inspections of ODF-certified projects (611 complete) and non-ODF projects (610) were completed by the end of December 2012. The remainder of the SWSS wells not visited due to security, weather, and engineer health issues (46 in Kharwar District of Logar Province) will be completed prior to January 31, 2013.

AIDC Projects Data Verification: Within the scope of EQUALS JO-04, USAID tasked EQUALS to collect infrastructure projects data from other donors, civilian and military. When NMT engineers are in the vicinity of other donor-funded infrastructure projects, these sites are visited and data collected for inclusion in the AISC database.

NMT field engineers conducted site verifications of 225 USAID and non-USAID-funded building projects this quarter. Examples of the most common general findings are as follows:

- Lack of necessary boundary walls around the health facilities
- Painting on exterior and interior walls, door/window frames and shutters were in poor condition and peeling at places
- Hardware of some doors and windows was either damaged or broken in several buildings
- Cracks were visible at some locations on plastered surfaces of walls. Horizontal and vertical cracks in wall masonry of some buildings
- Roof leakages
- Lack of wells or other sources of potable water
- Damaged iron roof sheeting

Table 6: Key Performance Indicators for AIDC Project Data Verification

Key Performance Indicators for 4 th Quarter 2012	Task Owner	Quarterly Required Deliverables	Quarterly Actual Deliverables	Annual Required Deliverables	Annual Completed Deliverables
AIDC Project Data Verification					
Number of architectural and engineering drawings review reports.	USAID	0	0	0	0
Number of site inspections and verification reports completed by NMT engineers	USAID	228	228	600	413

1.2.2 Salient Issues and Concerns

- Kabul Coordinators were busy this quarter moving over 10,000 reports from all Field Engineer and Coordinator computers to the EQUALS Servers, and renaming each one with a searchable naming convention.
- During the last six months, due to unstable security conditions, the NMT Field Engineers based in Herat, Badghis, Panjsher, Nuristan, Faryab, Zabul, Uruzgan, Parwan and Ghor Provinces were shifted to Badakhshan, Baghlan, Nangarhar, Kabul, Balkh and Laghman

Provinces to assist with and conduct QA inspections of SWSS/CLTS projects in these provinces.

1.2.3 Future Activities

At the request of USAID, the remaining NMT field engineers will be conducting inspections of ACEP projects in the month of January and complete inspections of SWSS projects in Logar Province up to the end of January 2013.

The photos below illustrate Vertical Structures, SWSS, and MoPH projects monitored by EQUALS field engineers this quarter:



Image 01: CHEF-008, Bamyan MTC
Plumbing work at dormitory building
N: 34.80131 E: 67.80318, 16Oct12



Image 02: CHEF-008, Bamyan MTC
Painting of water tower columns and beams
N: 34.80131 E: 67.80318, 22Dec12



Image 03: CHEF-011, Nangarhar PTTC
Installation of curtain rods over window
openings in female dormitory
N: 34.423611 E:70.433056, 18Oct12



Image 04: CHEF-011, Nangarhar PTTC
Drilling of holes to fix steel bars for missing
cross beam of water tower
N: 34.423611 E:70.433056, 29Nov12



Image 05: CHEF-012, Wardak PTTC
Painting of doors at academy building
N: 34.388980 E: 68.861710, 15Oct12



Image 06: CHEF-012, Wardak PTTC
Cleaning work in progress
N: 34.388980 E: 68.861710, 18Nov12



Image 07: CHEF016, Faryab PTTC
Installation of book shelves
N: 35.930900 E: 64.769760, 17Oct12



Image 08: CHEF016, Faryab PTTC
Site filling and leveling
N: 35.930900 E: 64.769760, 22Nov12



Image 09: CHEF-018, Parwan PTTC
Installation of stairs handrail
N: 35.060720 E: 69.188780, 14Oct12



Image 10: CHEF-018, Parwan PTTC
Installation of access door to roof
N: 35.060720 E: 69.188780, 28Nov12



Image 11: Kabul Univ. Men's Dorm
New transformers in position for receiving permanent electricity connection
N: 34° 51.639, E: 069°12.963, 12Dec12



Image 12: Kabul Univ. Men's Dorm
EQUALS, Tetra Tech, VICC and DABS inspecting switch gear and transformer
N: 34° 51.639, E: 069°12.963, 17Nov12

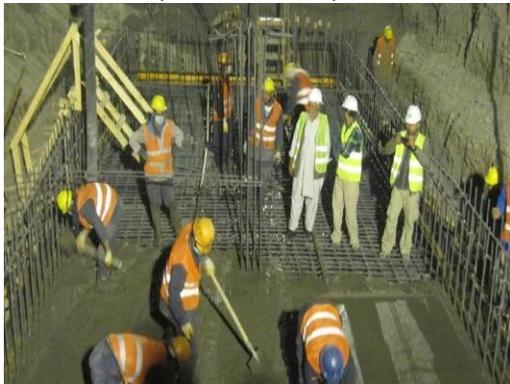


Image 13: KSP-002, Sardar Kabuli Girls High School Utilities Project
Concrete casting for bottom slab of septic tank; inspection being conducted by EQUALS engineers during night-time casting of slab
N: 34.48475 E: 69.13717, 03Oct12



Image 14: KSP-002, Sardar Kabuli Girls High School Utilities Project
Placement of infiltration gravel layers and perforated pipes in sewage disposal leach field
N: 34.48475 E: 69.13717, 06Oct12



Image 15: KSP-002, Sardar Kabuli Girls High School Utilities Project
Placement of infiltration gravel layers and perforated pipes, geotextile and soil filling in sewage disposal leach field
N: 34.48475 E: 69.13717, 06Nov12



Image 16: KSP-002, Sardar Kabuli Girls High School Utilities Project
Concrete being cast for vehicle parking area
N: 34.48475 E: 69.13717, 24Dec12



Image 17: SWSS Project, Balkh Province
Testing of hand pump, ID-BK006-11
N:36.935261 E: 66.759902, 03Nov12



Image 18: SWSS Project, Faryab Province
Testing of hand pump, ID-FB003-17
N: 35.66935 E:64.17633, 11Dec12



Image 19: CLTS workshop, Baghlan Province
Sanitation Training, ID-BG014-K05
N: 35.94685 E:68.82546, 14Oct12



Image 20: CLTS workshop, Laghman Province
Triggering session, ID-LG015-M11
N: 334.70226251 E:70.22645152, 24Nov12



Image 21: USAID building, Faryab Province
Women's Affairs Center, ID-W-FRB01
N:35.91657 E:64.79104, 18Nov12



Image 22: USAID building, Parwan Province
Women's Affairs Center, ID-W-PRN001
N:35.01252 E:69.16386, 03Nov12



Image 23: MoPH building, Nangarhar Province
Daga Subcenter Clinic, ID-2424
N:34.240208887 E:70.715271806, 09Dec12



Image 24: MoPH building, Samangan Province
Feroz Naqsher (CHC) Clinic, ID-1879
N:36.517901 E:693881, 29Nov12

1.3 Roads Quality Assurance - New Construction

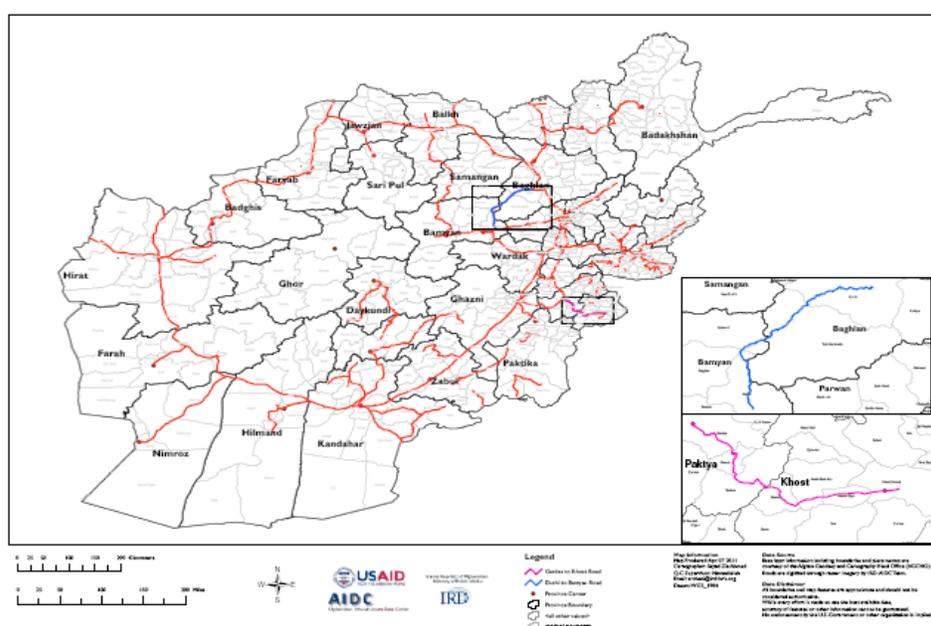
1.3.1 Quality Assurance - New Construction

Roads QA engineers conducted 160 site visits to the following road projects:

Table 7: USAID-funded new construction roads monitored in 4th quarter 2012

Road Type	Type of Work	Road Name	Length	Status	Province
National Highway	Rehabilitation	Gardez-Khost Road	101 km	Ongoing	Paktya - Khost
National Highway	Rehabilitation	Doshi-Bamyan Road	152 km	Planned	Baghlan and Bamyan

Map 1: Ongoing USAID-funded road projects monitored by EQUALS engineers (4th quarter 2012)



1.3.1 A Accomplishments and Status

Construction progress on the national highway roads is as follows:

Table 8: National Highways progress status, 4th quarter 2012

Road Name	Work Completed (%)	Work Monitored (%)	Length (Km)	Status
Gardez to Khost Road	76	76	101	Ongoing

Gardez-Khost Road Section 2: Section 2 is 38 Km in length. It begins at Km 27+000 and ends at Km 65+000. The following activities were ongoing this quarter.

- Removal of eroded and loose materials
- Dumping, grading, compaction and leveling of materials on carriageway/shoulders
- Surface leveling of the uneven road portions to keep the road passable
- Upgrade and widening of the diversion roads
- Removal of unsuitable materials from the affected portions of the carriageway
- Excavation of the road side drainage ditches
- Water sprinkling on the road surface for environmental dust control
- Cleaning of the road side drainage ditches
- Program Manager performed inspection missions to Section 2B to coordinate efforts for the repair of Bridge # 10 temporary causeway location. HESCO barriers were provided by COP Wilderness for this project.
- Placement and compaction of crushed aggregate base course material in Section 2A
- Placement and compaction of embankment material in Section 2A
- Application of prime coat for binder course in Section 2A
- Placement and compaction of asphalt binder in Section 2A
- Excavation and construction of nine culverts and road bed widening in Section 2A and 2B
- Stone masonry work for construction of guard, retaining and wing walls in Section 2A and 2B
- Embankment work within the roadway prism in Section 2A and 2B
- Slope cutting/rock cutting and excavation in Section 2A and 2B
- Calibration and certification of the MECC laboratory equipment, concrete batch plant, and asphalt plant at Km 35 performed by third party
- MECC lab inspection and compilation of a report with findings by EQUALS
- Updating of the daily report as directed by USAID
- Work began in Section 2B with EQUALS reporting daily
- Significant snowfall during 2nd and 4th week of December 2012 along Section 2 effectively brought an end to construction work in Section 2A. Work in Section 2B continued in this quarter. Work in Section 2A should resume about mid-March 2013.
- MECC provided adequate security perimeters in work area for ongoing construction, inspections and other activities this quarter
- Attended Bi-weekly progress coordination meetings with USAID and MECC at USAID compound

The EQUALS Program Manager, Acting Project Manager and Lab Manager performed inspections of the lab, concrete plant and asphalt plant at Km 35 and the road in Section 2A and 2B this period. The roadway is in good, passable condition. MECC continues to improve their traffic control system. MECC started screening/washing of sand to remove fines in the sand used in mortar for

stonemasonry work. The USAID contractor MECC initiated a joint survey with EQUALS QA engineers for the contracted segments and began roadway construction work for Phase III BoQ.

The crusher plant #1 at Km 35 and crusher plant # 2 (Camp Liz) at Km 44+500 had no aggregate production. The crusher plants were completely idle in this quarter.

There were open culverts with the potential to delay traffic. MECC has taped off or placed barrels and Jersey barriers to alleviate traffic congestion and traffic hazards. Samples of crushed aggregate, sand and concrete were transferred to the EQUALS lab in Kabul for testing.

No construction or surveying activities were observed on Fridays throughout the quarter. There was a work shutdown for Eid holiday resulting in no work from October 24 - 30 in the segments from Km 27+000 to 65+00.

Construction

- USAID IP Construction Contractor MECC is continuing to provide EQUALS with Requests for Work Inspection, Testing, Approval, and Survey (RFWI, RFT, RFA, and RFS) as previously provided to the AIRP contractor.
- EQUALS QA engineers are completing the RFWIs, RFTs, RFAs and RFSs for construction work performed on the road and distributing to MECC and USAID on a routine basis.
- EQUALS QA engineers also continued coordinating the RFWIs and RFTs for work in Section 2A and 2B with MECC management staff.
- MECC continued performing construction operations for culverts, retaining and guard walls, road side drainage channels, subgrade filling and embankment compaction, and aggregate base course work items in Section 2A from Km 31 - Km 36 and has started earthworks in Section 2B.
- MECC completed placement and compaction of binder course for 2.6 Km.
- Temperature of hot mix asphalt was checked during placement, compaction and rolling.
- Testing for binder surface, including thickness, percentage of asphalt in hot mix asphalt, and percentage of compaction, was carried out by core cutting methods.
- MECC continues to await the USAID vetting process and approval of the designated subcontractor for Section 2B. The outcome of the vetting is uncertain at this time. Security in this area continues to be a daily challenge.
- The ANP personnel in Section 2B area of operation close this road segment each morning for IED and demining sweeps, which are not completed before 0900hrs. MECC has informed USAID personnel in Kabul and at Camp Wilderness of this road section closing each morning. This is decreasing the amount of time each day that MECC has access to the road to perform work.
- On October 22, November 06 and December 18, 2012, USAID, MECC and EQUALS personnel held bi-weekly construction progress coordination meetings at the USAID offices.

Crushing

- MECC's aggregate crush plant was not in operation during this quarter.
- MECC and EQUALS have ceased coordinating the calculation for crushed aggregate production since its stoppage.
- MECC has now generated a project total of 13,075 m³ of crushed aggregate materials to date.
- MECC has now produced an adequate amount of crushed aggregate materials for use on Phase III construction components.

Security

- MECC security provider NRMC reported no pending issues and provided an overview of the current security and APPF status in the areas of work.
- Insurgent activity on the road greatly increased this quarter. Multiple IEDs were planted in Section 2B. This is now a concern along the entire 38 Km section of road.

The following issues and resolutions were observed (Section 2A) and reported to USAID during this period:

No	Issues	Observation Date	Resolve Date	Action taken by MECC Engineers
1	Stone masonry work not according to drawing Km 32+670 to 32+690	October 01, 2012	October 16, 2012	Rectified by MECC
2	Rusted steel bars on top slab of culvert # C-100 B	October 01, 2012	October 02, 2012	Rusted steel bars were cleaned using steel wire brush before pouring concrete
3	No traffic sign/control system for safety at culvert # C-98A. Traffic blockage for three hours	October 01, 2012	October 03, 2012	Traffic signs were placed by MECC
4	Stone thickens less than 12 cm used and placed vertically that does not comply with specification	October 02, 2012	December 18, 2012	Defective stone pieces were removed and replaced with quality stones
5	Poor quality of sand and insufficient quantity of mortar between the joints in stone masonry work	October 04, 2012	October 18, 2012	Defective structure was removed and new construction carried out with mortar using good quality sand
6	Rusted steel bars for side wall of culvert C-92	October 13, 2012	October 18, 2012	Rusted steel bars were cleaned using steel wire brush before pouring concrete
7	Thickness of select topping layer more than 34 cm	October 16, 2012	October 18, 2012	Thickness of layer was cut by grader to 20 cm before compaction
8	FDT Test Fail - 2 nd layer of CAB Km 33+210 L/S	October 21, 2012	October 22, 2012	Re-compaction was done and test was taken
9	FDT Test Fail - 2 nd layer of CAB Km 33+500 L/S	October 21, 2012	October 22, 2012	Re-compaction was done and test was taken
10	Bumps/cracks and loose material on the base course layer (CAB layer)	October 22, 2012	October 22, 2012	Top 5 cm was removed and replaced with new material before compaction
11	Failed compressive strength of mortar cubes for retaining wall Km 34+370 to 34+430 R/S	November 01 22, 2012	Pending	MECC has agreed to carry out non-destructive test on the structure by using Concrete Test Hammer

12	High moisture content in CAB course material placed for 2 nd layer	November 04, 2012	November 05, 2012	Rolling was stopped and compaction was carried out on November 05 after checking moisture at site
13	High moisture contents in embankment top layer Km 34+070 to 34+085	November 04, 2012	November 05, 2012	Rolling was stopped and compaction was carried out after checking moisture at site
14	Failed compressive strength of mortar cubes for retaining wall Km 35+750 to 35+830 R/S	November 04, 2012	Pending	MECC has agreed to carry out non-destructive test on the structure by using Concrete Test Hammer
15	Failed compressive strength of mortar cubes for retaining wall Km 32+670 to 32+690 L/S	November 04, 2012	Pending	MECC has agreed to carry out non-destructive test on the structure by using Concrete Test Hammer
16	Failed compressive strength of mortar cubes for retaining wall Km 34+370 to 34+430 R/S	November 04, 2012	Pending	MECC has agreed to carry out non-destructive test on the structure by using Concrete Test Hammer
17	Failed compressive strength of concrete cylinders bottom slab Culvert-97 Km 33+648 L/S	November 04, 2012	Pending	MECC has agreed to carry out non-destructive test on the structure by using Concrete Test Hammer
18	Top binder level is below 2 to 3.2 cm Km 31+800 to 32+600 B/S	November 21, 2012	Pending	Top of binder course layer level needs to be checked for verification
19	Crushed aggregate base course segregated Km 31+000 to 31700	November 22, 2012	November 24, 2012	CAB was rectified by scarifying before placing the HMA
20	Steel was fixed on muddy surface culvert # C-097	November 24, 2012	November 25, 2012	No concrete was allowed, cleaning of surface and re-fixing of steel bar was done by MECC

The following issues and resolutions were observed (Section 2-B) and reported to USAID during this period:

No	Issues	Observation Date	Resolve Date	Action taken by MECC Engineers
1	Bridge # 10 Km 51+980; last row of culvert pipes and layer of HESCOs in downstream washed away during the flood	November 04, 2012	December 22, 2012	Rectified by MECC by placing new layer of pipes and HESCOs
2	Poorly erected stone masonry retaining wall Km 53+309 to 53+330 L/S	November 11, 2012	November 12, 2012	R/W was removed and rectified by MECC

3	R/W stone masonry work Km 53+330 to 53+350 L/S; insufficient space and mortar between the stones, thickness of stones used less than 10 cm	November 11, 2012	November 12, 2012	R/W was removed and rectified by MECC
4	Rusted steel bars for side wall of culvert C-163B Km 53+260 L/S	November 13, 2012	November 17, 2012	Rusted steel bars were cleaned using steel wire brush before pouring concrete
5	Poorly erected stone masonry retaining wall Km 52+390 to 52+430 L/S	November 13, 2012	December 03, 2012	Defective structure was removed and new construction carried out with mortar using good quality sand
6	Poor quality of sand and insufficient mortar for stone masonry R/W Km 53+309 to 53+330 R/S	November 13, 2012	November 27, 2012	Defective structure was removed and new construction carried out with mortar using good quality sand

Progress achieved is 76%.

Substantial completion date will be determined upon USAID selection of the final Section 2 construction IP.

The photos below illustrate Section 2 of the Gardez-Khost Road:



Image 25: Grading of embankment materials from Km 50+400 to 50+600 full width
N: 33°22'43.09" E-69°27'57.07, 16Oct12



Image 26: Embankment thickness more than 34 cm at km 34+830 R/S
N: 33°25'28.52", E: 69°22'41.11", 16Oct12



Image 27: Stones placed vertically at Km 32+670 to 32+690 L/S
N: 33°26'31.13", E: 69°22'36.92", 16Oct12



Image 28: Shuttering for side walls of culvert (C-93) at Km 31+738 B/S
N: 33°26'56.27" E:69°22'40.26", 17Oct12



Image 29: Steel fixing works for top slab of culvert (C-93) at Km 31+738 B/S
N: 33°26'55.78", E: 69°22'40.49", 17Oct12



Image 30: FDT test for base course first layer at Km 32+860 C/L
N: 33°26'25.30", E: 69°22'34.35", 17Oct12



Image 31: Paving of asphalt binder course from Km 33+000 to 33+300 L/S
N: 33.438275 E: 69.3762194, 12Nov12



Image 32: Compaction of asphalt binder course from Km 33+000 to 33+300 L/S
N: 33.437625 E: 69.3761611, 12Nov12



Image 33: Mortar cube compressive strength for stone masonry R/S from Km 34+370 to 34+430
N: 33.4348583 E: 69.3763083, 12Nov12



Image 34: Grading of embankment top layer from Km 32+600 to 30+000 full width
N: 33.4534472 E: 69.3775167, 12Nov12



Image 35: Dumping of embankment materials from Km 50+200 to 50+300 L/S
N: 33.3801583 E: 69.4644556, 20Nov12



Image 36: Rock excavation of road side from Km 50+200 to 50+600 R/S
N: 33.3791944 E: 69.4655306, 20Nov12



Image 37: Installation of pipes for Bridge #10 at Km 51+980 L/S
N-33°22'04.55", E-69°28'28.41", 11Dec12



Image 38: Over moisture (pumping) in the base course from Km 32+640 to 32+770 L/S second layer
N: 33.4415194 E: 69.3767972, 05Nov12



Image 39: Paving of asphalt binder course from Km 31+400 to 31+820
 N: 33°26'51.31" E: 69°23'2.84", 06Dec12



Image 40: Temperature for paved asphalt binder course from Km 31+400 to 31+820
 N: 33°26'56.04", E: 69°22'40.92", 08Dec12



Image 41: Formwork for wing wall of C-92A at Km 31+445 B/S
 N: 33°27'5.13", E: 69°22'40.00", 08Dec12



Image 42: Grading of the sub-grade surface from Km 51+500 to 51+800 full width
 N: 33°22'11.09", E: 69°28'26.41", 08Dec12



Image 43: Cutting of core samples for binder course at Km 31+260 R/S
 N: 33°26'57.29" E: 69°22'41.51", 11Dec12



Image 44: Installation of HESCOs for Bridge #10 at Km 51+980 L/S
 N: 33°22'4.94" E: 69°28'28.43", 11Dec12

Table 9: Key Performance Indicators for Gardez-Khost Road Rehabilitation, Section 2

Key Performance Indicators for 4 th Quarter 2012	Task Owner	Quarterly Required Deliverables	Quarterly Actual Deliverables	Annual Required Deliverables	Annual Completed Deliverables
Number of site inspections and reports completed by three-man EQUALS Road QA team (in the field for 26 days per month)	USAID	225	236	960	454

1.3.1 B Salient Issues

- Security remains under constant vigilance and a daily concern along the road alignment.
- Job Order 05 submission and approval for additional EQUALS QA contract services, effective from September 1, 2012.
- MECC is providing limited resources in terms of equipment and management personnel for the construction work on Section 2B. The quality of workmanship on the stone masonry for this section continues to be in question.
- APPF supply of the remaining 4 PKM weapons systems and adequate ammunition continues to be outstanding. APPF Camp Liz commander rejected the 4 PKMs that were initially delivered.
- MECC has now demobilized the majority of the materials testing laboratory equipment from Km 63 facility for an unknown reason.
- QA daily and monthly reporting formats continue to be adjusted per USAID instruction. BOQ items are now tracked once completed on the EQUALS daily report.
- APPF has made available an additional 6 PKM weapons systems with limited ammunition.
- MECC needs to provide EQUALS with the joint survey data and cross sections' submittals for review and acceptance on Section 2B from Km 50 - 57 prior to beginning significant new construction work in this segment.
- MECC is awaiting USAID vetting approval for their subcontractor proposed for Section 2B.
- MECC continues to encounter resistance from the local residents of the Shamal area for not beginning the work from Km 65 where the asphalt road was completed.

1.3.1 C Future Activities

- Routine QA monitoring activities are planned for the next reporting period.
- MECC will continue limited work on 13 Km of Section 2 during the winter months. EQUALS QA engineers will provide the construction inspection oversight and reporting prior to the issuance of the Job Order 05 modification for the enhanced level of effort for this new QA contract.
- Continued earthworks, stone masonry, and structures construction in Section 2B will be performed pending weather conditions and inspections of works by EQUALS QA engineers.
- Hiring of the four vacant engineer positions available for the EQUALS Road Division from JO-04 for the Gardez - Khost Road program is pending.
- Implementation of the Job Order 05 Modification 1 proposal, once approved by USAID, with the additional personnel LoE and support services for the enhanced QA monitoring contract.
- Develop and conduct a winter training plan for the QA engineers and other technical staff.

1.3.2 Camp Liz Operation and Maintenance (EQUALS JO 05)

1.3.2 A Accomplishments and Status

The team accomplished the following:

- Operation and maintenance of Camp Liz including security services are ongoing with no major issues. Daily checks on equipment and services like maintenance of vehicles, IT networking, water distribution system, and other activities including landscaping are continuing as per daily operation and maintenance check list already in place.
- Camp Liz and EQUALS staff have completed the property inventory updates and transfer to JO-05 tracking program.
- Program Manager continued to coordinate with the MECC staff and the EQUALS QA engineers for the receipt, checking, and acceptance of the Request for Work Inspections and testing of the 13 Km Section 2 road work areas and structures to be completed.
- Daily construction progress inspections and reporting, including field and laboratory materials sampling and testing, continued.
- More security enhancements and upgrades accomplished included:
 - Entry Control Point – 1 (ECP-1) received a new secure locking functional gate
 - Over watch tower at ECP-1 was replaced and surrounded by sandbags
 - Jersey barriers were placed at ECP-1 to control vehicle traffic in and out of camp
 - C-Wire was placed between Observation Posts (OP)
- APPF camp living condition enhancements included:
 - Electricity and plumbing are being installed
 - Latrine and shower facilities were built and are currently in use by guards
 - Dining facility was built and is currently in use by guards
 - Billeting containers were placed against mountain side improving security from incoming fire
- IRD-EQUALS Kabul personnel performed a health and safety inspection of Camp Liz operations and maintenance.
- On November 27, USAID and EQUALS management personnel met to discuss the QA contract and the status of JO-05 Camp Liz operations, maintenance, and projected increase in the proposed security budget to provide 5 MSTs for the road completion construction work.
- English and computer training continued for the Camp Liz local national staff on a voluntary basis.
- Set up new food storage area at level three.
- Assistance was provided with food preparation and service (DAFC - army camp near Camp Liz) for the COP Wilderness during change of command ceremony held on December 15, 2012.
- The acting camp manager has made arrangements for the life support and accommodations for the four future new QA engineers being hired by EQUALS.
- Repair work for the Medical 20 ft containers was completed including electrical fittings and connections, painting, and a new water pressure pump.

1.3.2 B Salient Issues and Concerns

- JO-04 QA engineers and JO-05 limited engineering staff continue to cope with the additional workload required by the ongoing Section 2 construction work in advance of the expected JO-05 Modification 1 to increase the LoE needed for the enhanced QA efforts requested by USAID.

- Ongoing and recent local information regarding security and potential kidnap threats continue for the EQUALS QA engineers providing daily inspection missions with local vehicles and drivers. Daily inspection missions are continuing despite the ongoing threats to local personnel.
- Improvised Explosive Devices (IED) are on the rise again throughout the Gardez – Khost Road. Mobile Security Teams are rolling out with Protective Sweep Teams prior to escorting EQUALS personnel into danger areas.
- Additional security bunkers for the Helicopter Landing Zone and near the east gate need to be implemented as provided in the camp-wide security enhancements.

1.3.2 C Future Activities

- Job Order 05 Modification 1: Negotiate the final tasks and associated LoE with USAID for the revised Statement of Work regarding the continued operations and maintenance of Camp Liz.
- Provide static and mobile security services for current ongoing and future construction work as well as additional QA contractor services under Job Order 05 Modification 1.
- Hook-up of the 500 kVA generator received from USAID/Black & Veatch KHPP program.
- Develop a training plan for the JO-05 QA engineers to be implemented during the winter months when the construction efforts on the road will be limited.
- Build a conference/briefing room for all future meetings to take place. EQUALS Structural Engineer and Architect are preparing plans and sketches for construction.
- Work with USAID Office of Acquisition and Assistance (OAA) personnel to transfer needed equipment from demobilized USAID programs in lieu of new purchases under JO-05 Mod 1.

1.4 Power Quality Assurance

1.4.1 Accomplishments

Kandahar-Helmand Power Project

CLIN 1 Kandahar Power Distribution System

- The IP continued forwarding Daily Production Quality Reports (DPQRs) to USAID (copying EQUALS). The following shows the number of reports forwarded each month for this reporting period:

Month	# DQPRs	Site
October 2012	31	KDBK
	21	KDEG
November 2012	22	KDBK
	30	KDEG
December 2012	14	KDBK
	31	KDEG

CLIN 2 Installation and Commissioning of Durai Junction Substation

- EQUALS has maintained a permanent presence at the site during this period. Daily reports have been submitted to USAID.
- EQUALS Electrical Engineer visited the site during the period of October 20th -23rd, 2012.
- EQUALS Power Team lead visited the site during the period of November 15th – 18th, 2012.

- EQUALS Power Team lead visited the site during the period of December 11th – 14th, 2012.
- Still awaiting the 90% design for review from the IP. The IP continued forwarding DPQRs to USAID (copying EQUALS). The following shows the number of reports forwarded each month adding up to 90 reports for this reporting period:

Month	# DQPRs	Site
October 2012	31	DJCN
November 2012	30	DJCN
December 2012	29	DJCN

CLIN 3 Regional Camp and Program Management

- Amtex Village continues to expand, increasing office, living and recreational facilities.
- A dedicated area inside Amtex Village continued to be used as a laydown yard for equipment.

CLIN 4 Shorandam Industrial Park (SIP) Diesel Power Plant

- No additional issues with fuel injector failures were reported this period.
- Training of DABS personnel continued.
- Unit #2 mechanical repairs were completed (replaced a head) and tested satisfactorily.
- On December 30th, 2012 acceptance testing was performed which was observed by EQUALS QA.

CLIN 5: This component of the IP SOW is not included within the EQUALS SOW.

CLIN 6 Installation and Commission Unit 2 Kajaki Plant

- During the period of November 15th to November 18th EQUALS QA Mechanical Engineer visited the Kajaki site to witness work on the runner cone installation which was successfully completed. DABS reported that the installation significantly helped the vibration problem.

Other

- EQUALS Project Control reviewed the IP's invoices numbers 48 to 52 inclusive and sent comments to USAID for review.
- EQUALS QA submitted RFIs to the IP on the following dates:
 - RFI-2012-10-001 dated October 6th, 2012.
- EQUALS received and reviewed several CVs for multiple engineering disciplines for local nationals needed for regular QA monitoring of KHPP components. EQUALS HR and QA representatives interviewed selected candidates and submitted approval requests to USAID.
- EQUALS QA representatives attended the weekly IP/EQUALS quality assurance weekly meetings.
- The IP forwarded several Three-Week Look-Ahead (3WLA) schedules during this reporting period. These schedules were not generated out of the master project schedule and as a result are stand-alone reports. Any gain or delay will not impact the master schedule data bank.

TO 19 NLCC Building

QA submitted the final warranty closeout and project completion certificate to USAID on September 23, 2012. The document needs to be signed by all parties involved for circulation upon completion.

Darunta Hydroelectric Power Plant 11.55 MW Restoration Project – Jalalabad, Afghanistan

EQUALS QA continued to coordinate the daily plant O&M. EQUALS QA representatives completed several missions to the Darunta Hydro Power Plant Site during the reporting period to conduct an overall inspection of the plant, observe the operating condition of the rehabilitated Unit 1 and collect information regarding the training programs to be conducted for the O&M crews of DHPP. Details of accomplishments during this period are as follows:

- Only the Unit 1 of DHPP is operating 24 hours/day. The shortage of water flow from the upstream river has caused the two old units to be operated periodically based on the water level at the reservoir and peak demand time (07:00am-10:00am) and (06:00pm-09:00pm).
- The DHPP maintenance team replaced the damaged wattle seal on the Unit 1 water lubrication bearing using the seal of the Unit 3 bearing assembly stored on site. Replacement of old/damaged parts has been difficult, as the contractor left the site with damaged, or in some instances, no spare parts for future O&M. Wattle seals are not available in the local market.
- DHPP maintenance team has also replaced the old drainage pump with the used one left over by Anham contractor in storage. This pump has been operating satisfactorily.
- QA and DHPP are concerned over the poor water quality caused by rainfalls and flood water flowing upstream from the Laghman River, which causes damage to the water lubrication bearing, affecting Unit 1 operation. QA recommends installation of an automatic purging water filtration system (Boll filter) to reduce the size of water contaminants and prevent shutdowns of Unit 1.
- The EQUALS QA Power Team Lead, Cost Estimator/AutoCAD Engineer and QC Reports Manager completed a mission to meet NDABS and DHPP management and conduct an inspection of the plant. The team also met with the USAID PRT representative to discuss the project's status.
- QA observed broken speed control switch on unit 1 control panel that needs to be replaced; the new one will be used from the unit 2 and unit 3 parts.
- EQUALS QA observed that Unit 1's wattle seal started leaking water again on or over 3MWs. This damage is caused by the shaft run out and damaged bearing soft material.
- QA conducted the first site visit of the newly-hired Senior Mechanical Engineer to DHPP on December 05 – 07, 2012 to perform a general inspection of the plant and to collect information and data related to the O&M training program to be organized for the DHPP O&M personnel.
 - The team met with the NDABS Operations Manager and the DHPP Deputy Operational Manager to share their ideas and to discuss the details and concept of training to be conducted for the DHPP personnel. The meeting was to initiate the training program in coordination with the NDABS and DHPP management as well as a needs assessment on the content of the training course. Some plant related drawings were also collected during the visit for scanning and printing.
 - During the site visit, the team observed multiple problems on Unit 1 including: turbine shaft run out causing damages to the packing box wattle seal, failed flow indicator, overheating of speed governing panel and excitation panel, active alarms on the fire detection system, and servo motor leakage problems causing the air charging pumps to cycle routinely. QA suggested rectification of these issues to ensure smooth and reliable operation of the plant until a follow-on contract is awarded.
- The team has designed three different training modules for the O&M personnel of the DHPP namely basic course, operation course and maintenance course. The team has prepared the training course materials including handouts, power point slides, collected visuals, and animations both in English and Pashto for the first week's delivery.

- Basic course is a two-week O&M training program that focuses on power plant basics and common equipment and structures. The course also contains working principles and operational details of various hydro plant auxiliaries as well as the basics of standard plant O&M.
 - All necessary arrangements associated with the training were made including venue selection, security evaluations, developing training materials, and shifting of furniture, printer and projector from the Darunta Plant to the Taj Mahal Guest House #2.
 - The first part of the training was conducted December 22 – 27. Visual media and animations were included to help the trainees fully comprehend. The 12 trainees were very receptive to the training, which included several group discussions and question and answer sessions. A training report will be submitted to USAID upon completion of the Basic Course for the first group of crews, to be completed mid-January.
 - The team continues working on the O&M training basic course for the second week and the second group of the DHPP O&M crews.

Table 10: Key Performance Indicators for Power Quality Assurance Team

Key Performance Indicators for 4 th Quarter 2012	Task Owner	Quarterly Required Deliverables	Quarterly Actual Deliverables	Annual Required Deliverables	Annual Completed Deliverables
Kandahar Helmand Power Project ⁴	USAID				
Component 1 Kandahar Power Distribution System					
Number of inspections completed by engineers		30	52	TBD	TBD
Number of engineering technical reviews of design packages		Depends on submittal	5	TBD	TBD
Component 2 Durai Junction Substation					
Number of inspections completed by engineers		54	78	TBD	TBD
Number of engineering technical reviews of design packages		Depends on submittal	1	TBD	TBD
Component 4 Shorandam Industrial Park Diesel Power Plant	USAID (O&M)				
Number of scheduled site inspections completed by engineers		12	12	TBD	TBD

⁴ KHPP site visits are low due to the APPF security transition, security reasons and EQUALS dependence on the IP regarding accommodations and transport to all the component sites.

Number of engineering technical reviews of design packages		Dependent on submittal	0	TBD	TBD
Component 6 Kajaki Hydro					
Number of inspections completed by engineers		Dependent on USAID	1	TBD	TBD
Number of engineering technical reviews of design packages		Dependent on USAID	1	TBD	TBD
Darunta HPP					
Number of daily inspections to construction site by engineers.	USAID	60	12	240	39 ⁵
Number of visits for O&M training.	USAID	18	7	90 ⁶	7
Number of engineering technical reviews and/or design packages	USAID	4	0	40	0
Number of ad-hoc QA/QC reports					
Number of additional reports completed	USAID	n/a		n/a	

1.4.2 Salient Issues and Concerns

Kandahar Helmand Power Project

Project Site Visit

- EQUALS representatives continue to be dependent on the schedule of IP representatives visiting the project sites, security, space availability on land transportation and helicopter flights as well as duration of inspection/stay on the project sites. This will continue to affect EQUALS ability to conduct quality assurance of the project component sites.

KHPP Baseline Schedule dated April 11, 2011

- The original baseline schedule is no longer an accurate representation.
- The IP forwarded several Three-Week Look-Ahead (3WLA) schedules during this reporting period. However, these schedules were not generated out of the master project schedule and as a result are a stand-alone report.

EQUALS Manpower Hiring

- EQUALS continues to recruit open local national and expatriate engineering positions budgeted in Job Order 04. Their appointments will be made in advance and in consideration of OSHA 10/30 training prior to being fielded to KHPP.

⁵ Darunta HPP deliverables and site visits are lower than required due to the termination of the Implementing Partner, Anham, and subcontractor, AIP. QA and NDABS are implementing the Preventive Maintenance Plan to maintain the power plant for 6 to 10 months or until a follow-on contract is awarded.

⁶ The original target of 108 visits mentioned in the previous report was according to the previous Implementing Partner, Anham's contract. EQUALS target for the Darunta HPP is revised to 90 visits.

Other

- Internet connection for EQUALS at Amtex Village office is slow and makes sending large reports or attachments very time consuming.

Darunta Hydroelectric Power Plant 11.55 MW Restoration Project – Jalalabad, Afghanistan

- Due to the shortage of water, Unit 1 is operating 24 hours/day. QA recommends the implementation of an aggressive PM plan including installation of a water filtration system for the water lubrication bearing, replacement of defective radiator tubes, re-calibration and testing of thermal indicators, replacement of all leaking valves, and an aggressive plan to monitor the digital controls and other critical components during and after the summer season as detailed in the “O&M Assessment: Maintaining Operability of the DHPP for 6 to 10 months” submitted to USAID on June 13, 2012.
- Apart from the above, Unit 1 continues to operate round the clock with operational and technical problems, namely a damaged wattle seal, turbine shaft excessive run out and vibration, damaged water lubrication bearing, and a water filtration system that passes size 80 micron particles, while the bearing is designed for size 40 micron particles. This damages the sleeve materials of the bearing and the body of the shaft.
- Absence of the required parts and equipment adds to the complication of plant operation and maintenance until the award of the follow-on contract.

1.4.3 Future Activities

Routine activities are scheduled for the next reporting period including preparation for and delivery of the 2nd installment of training followed by conducting the same course for the second group of DHPP personnel.

The photographs below illustrate developments on KHPP:

CLIN 1: Kandahar Power Distribution System (KDBK)



Image 45: Installation of formwork for pedestals in foundation 6; 17Dec12



Image 46: Checking 30cm formwork height of TR1 and TR2 foundation; 01Dec12



Image 47: Installation of rebar for tower “C” at C-2



Image 48: Temperature test of concrete prior to pouring, result: 22.0°C; 06Dec16

CLIN 1: Kandahar Power Distribution System (KDEG)



Image 49: Compaction for 5th transformer foundation; 01Dec12



Image 50: Poured concrete foundations for 4th generator; 01Dec12



Image 51: Laying CMU block for transformer 1 foundation; 17Dec12.



Image 52: Transformer installed between two units; 18Dec12.

CLIN 2 Subcomponent 1: Rebuild Durai Junction Substation



Image 53: Excavation for footings of chain link fence post; 01Dec12.



Image 54: Installation of Suspension Insulators and ACSR between gantry tower beams and the Transmission Line Tower "C" at west of Switchyard; 18Dec12.



Image 55: Assembling Suspension Insulators; 16Dec12.



Image 56: Installation of Suspension Insulators on gantry tower beams at west of switchyard; 16Dec12.



Image 57: Pulling cables from switchyard (CT's) to trench type "B" and then to control house building; 16Dec12.



Image 58: Conducting initial inspections on the interior of Control & Protection Panels at the Control House Building; 01Dec12.

CLIN 4 Shorandam Industrial Park Diesel Power Plant



Image 59: DABS personnel servicing an engine; 03Oct12.



Image 60: Testing of over temperature shutdown; 04Nov12.

The photos below demonstrate DHPP related activities during the reporting period:



Image 61: Darunta - All three units operating and producing on average 8.5MWs to the grid; 21Oct12.



Image 62: Darunta - Unit 1 producing 3.0 MW for the Jalalabad City grid; 15Oct12.



Image 63: Darunta - Unit 1 water lubrication bearing packing box leaks water through the damage wattle seal caused by shaft run out; 29Nov12.



Image 64: Darunta – QA Team and DHPP operators showing mismatch on MW output on governor, excitation and protection panels; 21Oct12.



Image 65: DHPP- Intake Gate is hoisted waiting for overhaul maintenance; 05Dec12.



Image 66: DHPP – Intake Gate with severe leakage; 05Dec12.



Image 67: O&M Basic Course (1st Group) delivery; 22Dec12.



Image 68: Participants watching visuals in the class; 26Dec12.

1.5 Material Testing Laboratory

1.5.1 Accomplishments and Status

The Material Testing Lab Team conducted the following activities this quarter:

Gardez-Khost Road and Vertical Structures samples

Soil Samples

- Received the following embankment and crushed aggregate base (CAB) soil samples from borrow area, stockpile and road surface:
 - IEL - 023, soil sample from borrow area at Km 23+840 Right Side (R/S)
 - IEL - 024, soil sample from stockpile at Km 23+880
 - IEL - 025, soil sample from road layer at Km 23+000 Center Line (C/L)
 - IEL - 026, soil sample from road layer at Km 23+500 C/L
 - IEL - 034, embankment borrow material for Section 2B at Km 50+600
 - IEL - 035, CAB from stockpile at Km 35+000
 - IEL - 036, CAB from carriageway/shoulder at Km 32+960
 - IEL - 038, CAB from the mixing plant at Km 35+000
 - IEL - 039, CAB from the carriageway first layer at Km 32+100 – 32+340 Left Side (L/S)
 - IEL - 049, CAB from road layer at Km 33+000 - 32+180 Both Sides (B/S)
 - IEL - 054, embankment material from carriageway at Km 34+430

- IEL - 055, embankment material from borrow material at Km 34+480 R/S
- IEL - 056, CAB material from the road top layer shoulder at Km 31+870 L/S
- IEL - 057, CAB material from stockpile at Km 35+000
- IEL - 056, CAB material from the road layer shoulder at Km 31+870 L/S
- IEL - 057, CAB material from stockpile at Km 35+000
- The following tests were completed for each soil sample:
 - Natural Moisture Content (NMC) AASHTO T 255
 - Sieve Analysis AASHTO T 11 and T 27
 - Maximum Dry Density (MDD) AASHTO T 180
 - California Bearing Ratio (CBR) AASHTO T 193
 - Liquid Limit (LL) AASHTO T 98 and T 90
 - Plastic Limit (PL) AASHTO T 98 and T 90
 - Plasticity Index (PI) AASHTO T 98 and T 90
 - Fracture Faces (FF) ASTM D 5821
 - Los Angeles (LA) AASHTO T 96
 - Classification of Soil AASTO M 145
- The test results were satisfactory and within the specifications. (FP- 03)

Hot Mix Asphalt Binder Course Samples

- Received the following HMA binder course samples form road surface:
 - IEL - 050, HMA binder course sample at Km 31+820 - 32+180 B/S
 - IEL - 058, asphalt binder course at Km 31+755 - carriageway L/S
- Conducted the following tests for each HMA binder course material sample
 - Marshall Stability - AASHTO T 245
 - Marshall Flow - AASHTO T 245
 - Voids in Mineral Aggregates (VMA) - AASHTO T 245
 - Voids Filled with Asphalt (VFA) - AASHTO T 245
 - Air Voids - AASHTO T 245
 - Asphalt Content - AASHTO T 164
 - Maximum Theoretical Specific Gravity (Gmm) AASHTO T 209
 - Fracture Faces (FF) ASTM D 5821
 - Los Angeles (LA) AASHTO T 96

Sand Samples

- Received the following sand samples:
 - IEL - 027, sand sample from stockpile at Km 35+000
 - IEL - 028, sand sample from stockpile at Km 32+670
 - IEL - 029, sand sample from stockpile at Km 32+750
 - IEL - 052, sand sample collected by MECC without any information
 - IEL - 053, screened sand sample at Km 33+250
- Completed the following tests for each of the sand samples:
 - Sieve Analysis by washing method AASHTO T 11
 - Clay Content by washing method AASHTO T 11
 - Fineness Modulus
- The sand sample gradation was not within specification (FP-03, and ASTM C 144).

Concrete Cylinder and Mortar Cubes

- Continued curing of mortar cubes and concrete cylinder under water at a temperature of 20 – 22°C ASTM C 192 for 7 and 28-day samples # IEL – 046, 047, 048, 060 and 061.
- Received the following concrete cylinder and mortar cube samples:
 - IEL - 037, concrete cylinders

- IEL - 040, 3 mortar cubes from retaining wall at Km 34+370 – 34+430 R/S
- IEL - 041, concrete cylinders RCC for the top of the slab culvert # C-101 at Km 35+797 R/S
- IEL - 042, mortar cubes from retaining wall; casting date November 5, 2012; location Km 35+750 – 35+830 R/S
- IEL - 043, concrete cylinders PCC for the cut-off wall apron culvert # C-101 at Km 35+797 R/S
- IEL - 046, concrete cylinder RCC for wing wall and bottom slab RCBC-97 at Km 33+648 B/S
- IEL - 047, concrete cylinder PCC for the foundation of culvert # C-93 wing wall at Km 31+738 B/S
- IEL - 048, concrete cylinder RCC for culvert # C-101 wing wall at Km 34+840 L/S
- IEL - 060, mortar cube retaining wall at Km 33+260 R/S
- IEL - 061, concrete cylinder from wing wall culvert # C- 98A and 93 at Km 33+260
- Completed the following testes for each cylinder and mortar cube
 - Mortar cubes: Compressive strength testing for 7 and 28-day ages - AASHTO T 106.
 - Concrete cylinders: Compressive strength testing for 7 and 28-day ages AASHTO T 22.
 - Unit weight
- The tests results were within specifications.

Bitumen and Prime Coat Samples

- Received the following concrete cylinder and mortar cube samples:
 - IEL - 051 prime coat sample at Km 31+800 - 32+600 B/S
 - IEL - 059, bitumen sample grade 60/70 from melting tank at Km 35+000
- Completed the following tests for bitumen samples:
 - Penetration AASHTO T 49
 - Flash Point AASHTO T 48
 - Fire Point AASHTO T 48
 - Softening Point AASHTO T 53
 - Ductility AASHTO T 51

Steel Bar Samples

- IEL - 30, 25-mm steel bar samples (3 samples)
- The following tests were conducted
 - Unit Weight AASHTO M 31
 - Yield Point AASHTO M 31
 - Elongation Percentage AASHTO M 31
- The tests results were within specifications.

MECC Laboratory Inspection and Sample Collection

- Laboratory Manager traveled to Camp Liz for a re-inspection of the MECC laboratory at Km 35+000 on October 14, 2012 and collected samples of crushed aggregate base (CAB), sand and concrete cylinders for testing and returned to Kabul on October 18, 2012.
- Laboratory Manager conducted a complete inspection of the MECC laboratory at Km 35+000 and submitted the report to the Acting Program Manager at Camp Liz.
- Laboratory Manager checked submittals (RFIs, RFTs, RFAs and RESs – for October 2012) and guided field engineers as to how to write/report the findings of these submittals upon inspection.
- When returning from leave on November 17, 2012, the Lab Manager brought the equipment that the lab required for bitumen testing (three ductility mold and six penetration needles).

- On December 6, 2012, the Lab Manager visited Gardez – Khost Road, Camp Liz for a management meeting and to check the MECC activities on the road and laboratory. The lab manager returned to Kabul on December 9, 2012.
 - While at Camp Liz, the Lab Manager discussed various issues related to materials testing with the EQUALS engineers, inspected the road activities in Section 2A, checked the paved binder course layer, inspected the MECC laboratory at KM 35+000 and collected samples.
- Received water testing kits from India and began testing the EQUALS compound water supply for its potability.

Table 11: Key Performance Indicators for Materials Testing Laboratory

Key Performance Indicators for 4 th quarter 2012	Task Owner	Quarterly Required Deliverables	Quarterly Actual Deliverables	Annual Required Deliverables	Annual Completed Deliverables
Number of material tests conducted	USAID	69	165	276	369

1.5.2 Salient Issues and Concerns

None

1.5.3 Future Activities

Routine activities are planned for the upcoming reporting period.

Table 12: Performance Indicator summary for PROGRAM UPDATE – TECHNICAL SERVICES

Performance Indicator	Indicator Definition & Unit of Measurement	Baseline	4th Quarter (Oct, Nov, Dec, 2012)
Number of projects/programs receiving QA/QC monitoring	Number of projects monitored by EQUALS engineers (project)		
Vertical Structures			13
NMT			3
Roads			2
Power			5
TOTAL		0	23
Number of inspection reports produced for all project	Number of inspection reports produced by EQUALS engineers for all projects (inspection report)		
Vertical Structures			580
NMT			931
Roads			239
Power			169
TOTAL		0	1919

Number of ad-hoc QA/QC reports	Number of additional reports completed per request of USAID (reports)		
Vertical Structure			3
NMT			4
Roads			0
Power			21
TOTAL		0	28
Percentage of satisfactory test results where QA testing results were validated	Materials tested by materials testing laboratory receiving satisfactory results (percentage)	0	95%
Number of QC tests conducted by IP and observed by EQUALS staff	Number of QC tests conducted by IP and observed by EQUALS staff to verify results (QC tests)	0	1264
Percentage of Environmental compliance checks where appropriate mitigation measures are in place	Projects checked by QA engineers for environmental compliance receiving satisfactory results (percentage)	0	84%

2 TECHNICAL – MINISTRY LIAISON & TECHNICAL ASSISTANCE

2.1 Ministry of Energy and Water

2.1.1 Accomplishments and Status

In December of 2012, Yunus Afshar joined as the new Team Lead for the Water Supply and Sanitation Team at the MoEW.

In addition to routine activities, the Water Team accomplished the following this quarter:

Technical Secretariat of the Supreme Council on Water (TS-SCoW)

The WSST continued facilitating the periodic (as frequent as weekly) meetings of the Technical Secretariat of Supreme Council on Water (TS-SCoW). The focus of these meetings was the 3rd National Conference on Water Resources Development and Management of Afghanistan scheduled for January 29 – 30, 2013, the development of the capacity building strategy for the water sector, the advancement of the transboundary water policy, and other water sector related issues including investment priorities in the Kabul basin. The TS-SCOW met eight times over the quarter.

Ministry of Energy and Water

The WSST continued to provide technical, policy, and logistical support to the MoEW covering diverse areas with a focus on major dam projects currently being implemented under a design-build project delivery model. These projects are:

- Shah-wa-Aroos Irrigation and Hydropower Dam Project in Kabul Province in the Kabul River Basin
- Kamal Khan Irrigation and Flood Protection Project in Nimroz Province in the Helmand River Basin

- Almar Dam Irrigation Project in Faryab Province in the Northern Basin
- Machalghoo Irrigation Project in Paktia Province in the Helmand River Basin
- Pashdan Irrigation Dam Project in Herat Province in the Harirud River Basin
- Shahtoot Project in the Kabul River Basin

Continued facilitation of the periodic joint meetings for the MoEW and contractors, site visits, and document review for the MoEW major water infrastructure portfolio. More specifically, the support services included the following:

- Shah-wa-Aroos: Conducted a field visit in October to identify project progress and potential deficiencies; facilitated and participated in a one-day design and construction review workshop to review and address design and construction issues as the project transitions into the construction phase; developed and conducted a training session for the MoEW staff to review Bills of Quantity and invoice preparation; attended various meetings to address identified deficiencies in concrete testing (including the lack of core samples for compressive strength testing), the construction of a temporary diversion culvert, RCC mix design, stress analysis, and culvert grouting and missing documentation in dam Invoice No.13. Conducted reviews of QC reports and verification of invoices.
- Kamal Khan: Conducted meetings with the MoEW and the project manager for the Kamal Khan Dam to assist with the preparation of a 'letter for release of project retaining fees'.
- Almar: Attended various meetings on material testing results for the sub-base course of the 9.5 km access road to the Almar Dam.
- Machalghoo: Conducted a field visit with Minister Ismail Khan; assisted in interviews for the candidate of Machalghoo project manager; attended meetings to review the geo-technical reports and temporary and permanent field camp plans.
- Pashdan: Attended meetings regarding a Bill of Quantities (BOQ) that was submitted to the MoEW but raised concerns regarding verification as well as tax issues; analyzed geological and geotechnical investigation reports including the number of boreholes, depth of boreholes, the type and the number of tests required for the design phase; and conducted an assessment of the proposed 30-km Joy-e-Sultani canal planned to be incorporated into the project.
- Shahtoot: The project remains in the design phase. Facilitated meetings with the MoEW and others to discuss and coordinate the effort associated with the design of the project as well as the review of technical documents associated with the Shahtoot Feasibility Study.
- Conducted meeting with the MoEW staff regarding a workshop with the design sub-contractor for the Gambiri Diversion Dam.

WSSST staff started to work with the MoEW for transition of responsibility for logistics of the TS-SCoW over to the MoEW.

Transboundary Water Policies

The Sr. Transboundary Policy Advisor joined the WSSST in the latter half of October. Upon arrival, the Sr. Transboundary Policy Advisor met with Deputy Minister Ziaie of MoEW and the USAID-Kabul Water Team to review terms of reference and functioning objectives. The transboundary workplan has been approved by the DM Ziaie as well as USAID. Mentoring of senior staff of MoEW and MoFA commenced including advising the GIROA on its participation in the World Bank led process to consult on the Rogun Dam in Tajikistan and the GIROA participation in the Abu Dhabi Dialogue meeting in Bangkok in December. Deputy Minister Ziaie requested that EQUALS staff take over the development of a national transboundary policy in collaboration with GIZ in addition to the transboundary strategies for each basin. Mentoring of MoFA technical staff has

commenced and will initially focus on the development of the National Transboundary Water Policy. Introductory training seminars have been developed for hydro-diplomacy in the areas of i) international law and transboundary waters (February 2 – 6, 2013) and ii) transboundary waters and negotiation (February 23 – 27, 2013). International experts have been contracted to conduct the courses. Course outlines and materials are being developed and translated into Dari. The Faculty of Law at the University of Kabul has been invited to be involved and materials will be made available for future courses to enhance sustainability of the training. The training will be conducted at the Institute for Diplomacy in the MoFA.

The MoEW and MoFA approved the workplan for the development of the transboundary basin policies. At the request of Deputy Minister Ziaie, EQUALS is assisting in the development of the national transboundary policy that is being led by GIZ. The WSST with GIZ staff will facilitate the drafting and subsequent consultation with other ministries. GIZ has confirmed that EQUALS will take the lead in revising the national transboundary policy and forward to various ministries for their comments.

Training for TS-SCOW

Course outlines for training in Governance and Public Administration have been developed and an international expert engaged to deliver the courses March 9 – 20, 2013. The materials will be translated into Dari and course material will be made available to the University of Kabul (and possibly other universities) for their curriculum development. The TS-SCOW will be developing the final course contents in January.

Capacity Building Policy

The Sr. Capacity Building Policy Advisor joined the WSST in the latter half of October. Upon arrival, he met with Deputy Minister Ziaie at the MoEW and the USAID-Kabul Water Team.

The TS-SCoW met on several occasions in this quarter discussing the 3rd National Water Conference, coordination between MoEW and MAIL on development of water users and irrigation associations, and a workplan for the development of capacity building strategy for the water sector. Deputy Minister Ziaie approved the work plan for development of the capacity building strategy. Discussions also included the investment strategies for dams in Kabul River Basins, the response of the GIROA to the World Bank request for comments concerning Rogun Dam, updates on the capacity building strategy, and the proposed courses on Governance and Public Administrations.

The WSST continues its efforts to revitalize the Capacity Building Working Group (CBWG). In close collaboration with the TS counterpart at the MoEW, the CB water team conducted three field visits to MUDA, AUWSSC and Kabul Municipality. The purpose of these activities was to raise the awareness of the leadership in these TS-SCoW institutions to the development of national water sector CB policy and strategy.

Office of Economic Growth and Infrastructure (OEGI), USAID Mission – Afghanistan

The highlights of the WSST support to OEGI included:

The WSST, in consultation with the MoEW and USAID, prepared terms of references (ToRs)/Job Descriptions (JDs) for senior water resources engineers. It is anticipated that two water resources engineer positions will be added to the Water Team at the MoEW under the EQUALS program in January/February timeframe.

The WSST met with the USAID Water Team Leader Dr. Keshawarz to discuss progress and salient issues with the EQUALS Water Team under Job Order 04.

Digital Library

EQUALS staff is continuing to digitize documents for the library. Currently, there is no ability to digitize A3 size reports. A new A-3 scanner machine is planned to be procured.

Table 13: Key Performance Indicators for the Ministry of Energy and Water Team (expressed in % complete)⁷

Task	Key Performance Indicators through December 2012	Task Owner	Quarterly Required Deliverables	Quarterly Completed Deliverables	Annual Required Deliverables	Annual Completed Deliverables
Facilitate periodic (bi-weekly meetings)	Progress in transitioning the administrative affairs to TSSCoW. The transition process will be jointly developed by USAID EQUALS & TSSCoW.	TSSCoW	33%	25% ⁸	100%	55%
Facilitate periodic (monthly or bi-monthly) meetings of joint TSSCoW & the International Water Sector Donor	Progress in transitioning the administrative affairs to TSSCoW with minimum or no involvement by USG (USAID). The transition process will be jointly developed by USAID EQUALS & TSSCoW.	TSSCoW	33%	30% ⁹	100%	60%
A 40 hour formal training on Public Works Administration	Train 10-15 TSSCoW members to include performance monitoring tools such as course evaluation and tests.	TSSCoW	33%	15% ¹⁰	100%	15%

⁷ The job order 4 was prepared for a 12 month period (April 2012 – April 2013). The job order was approved in July 2012; consequently quarterly deliverables are based on 3 quarters and not 4 quarters.

⁸ Although no meetings were held, preparation was conducted to hold meetings which were postponed till January 2013.

⁹ DM Ziaie has approved the transition and a plan is being developed to be implemented over the next 6 months.

¹⁰ These activities only began this quarter and a curriculum has been developed and trainers have been recruited. Training will take place in the last quarter (January/March 2013).

A 40 hour formal training on hydro-diplomacy	Train 10-15 TSSCoW members to include performance monitoring tools such as course evaluation and tests.	TSSCoW	30%	25%	100%	25%
Facilitate the 3rd Afghanistan National Water Conference	Progress with successfully facilitating technical, administrative and logistical aspects of the conference.	TSSCoW	50% ¹¹	30%	100%	80%
Facilitate development of the Afghanistan Water Sector Capacity Building Strategy	Prepare an introductory draft of the Afghan Water Sector Capacity Building Strategy.	TSSCoW	30%	35%	100%	35%
Other in-country & out-of-the country trainings as deemed necessary by the TSSCoW	Train 10-15 TSSCoW members in select and demand-driven trainings to include performance monitoring tools such as course evaluation and tests.	TSSCoW	30%	0% ¹²	100%	0%
Mentor MoEW Project Management Unit staff & provide quality assurance reviews for 5 major dams currently under design & construction by MoEW.	Mentor 5-10 MoEW staff in design & construction document reviews.	MoEW	33%	35% ¹³	100%	65%

¹¹ Initially, the conference was planned for November 2012, but was postponed.

¹² No additional training has been requested.

¹³ More time and effort was spent than was planned due to site visits and design and planning meetings.

Mentor MoEW Transboundary Team and assist with development of Draft Transboundary Policy Frameworks for 4 river basins subject to transboundary water implications	Development of draft overall transboundary policy.	MoEW	33%	35% ¹⁴	100%	25%
An 80-hour formal training in hydro-diplomacy	Train 5 MoEW Transboundary Team members to include performance monitoring tools such as course evaluation and tests.	MoEW	33%	25%	100%	25%
A 40-hour formal training in Project Management	Train 15 MoEW members of Project Management Team & Technical Supervision Department to include performance monitoring tools such as course evaluation and tests.	MoEW	33%	10% ¹⁵	100%	10%
A 40-hour formal training in public administration for MoEW Senior Managers	Train 10-15 MoEW Senior Managers to include performance monitoring tools such as course evaluation and tests.	MoEW	33%	25%	100%	25%
A 40-hour formal training in Water Governance	Train 10-15 MoEW staff to include performance monitoring tools such as course evaluation and tests.	MoEW	33%	25%	100%	25%

¹⁴ This activity only began in the 3rd quarter. In addition to the basin strategies, a National Policy is being developed at the request of Deputy Minister Ziaie.

¹⁵ This activity has only been initiated in the latter stage of the 3rd quarter and is to be completed in the 4th quarter.

Other trainings as deemed necessary by MoEW	Train 10-15 MoEW staff in select and demand-driven trainings to include performance monitoring tools such as course evaluation and tests.	MoEW	33%	0%	100%	0%
Executive & senior level technical & advisory support to Minister, Deputy Minister & Directors	Number of technical and policy issues effectively resolved as a result of the advisory support.	MoEW	33%	35%	100%	65%
Assist & Mentor MoEW in centralizing libraries to include conversion of hard copies to soft copies and make available to public through a website.	Scan TSSCoW library documents. Design a web site and upload the library documents.	MoEW/ TSSCoW	33%	30% ¹⁶	100%	64%
Mentor and build the capacity of MFA Staff and in consultation with MoEW assist with development of Transboundary Policy Frameworks	Development of a draft overall transboundary policy.	MFA	33%	15% ¹⁷	100%	15%

¹⁶ The bulk of original digitization has been completed; however, additional material is continually being added for scanning. Also A3 size material has not been scanned. The digital remains to be developed. This figure was over estimated in the 3rd quarter report.

¹⁷ Work with MoFA began only in the second half of the 3rd quarter.

Champion USG opinions and strategies within MoEW, TSSCoW and MFA	No. of communication (formal/informal) conveyed.	USAID	33%	35%	100%	65%
Update USAID on MoEW initiated activities	No. of communication (formal/informal) conveyed.	USAID	33%	35%	100%	65%
Facilitate USG-MoEW/TSSCoW/MFA coordination	No. of communication (formal/informal) conveyed	USAID	33%	35%	100%	65%

2.1.2 Salient Issues and Concerns

None

2.1.3 Future Activities

Routine activities will be conducted in the next reporting period including:

- Continue to support the monthly meetings of the International Water Sector Donor Community.
- Continue to support the MoEW in providing necessary QA and reviewing design and construction reports in support of the MoEW water infrastructure capital investment plan, especially for the five dams mentioned.
- Continue to support joint meetings of the GIRoA Water Sector line ministries (i.e. the TS-SCoW) and the International Water Sector Donor Community.
- Continue to facilitate the bi-weekly meetings of the TS-SCoW.
- Continue to communicate the Afghan water sector developing and emerging issues with USAID-Kabul.
- Facilitate and support the upcoming 3rd Water National Conference on Water Resources Development and Management of Afghanistan.
- Continue work on the capacity building policy documents and on the upcoming CB policy workshop.
- Continue meeting and discussing with MoEW the transition of responsibilities for the digital library over to the MoEW.
- Continued development of training courses for hydro-diplomacy, governance and public-administration.

3 AFGHANISTAN INFRASTRUCTURE DATA CENTER

3.1 Afghanistan Infrastructure Data Center

3.1.1 Accomplishments

AIDC accomplishments for this quarter included:

EQUALS Vertical Structures GIS Team

- Verified and confirmed 147 non-USAID health care facility projects based on NMT field assessments. 152 projects were updated in the GIS database.
- Verified and confirmed 105 USAID projects based on NMT field assessments.
- Verified and confirmed 62 USAID projects post occupancy evaluation reports based on NMT field assessments.
- Added into the building web database the number of occupants “male, female and children” for 110 non-USAID health care facility projects based on conducted NMT assessments.
- Transferred 279 non-USAID reports to the AISCs library.
- Updated AIDC’s workflow chart.
- Updated the Afghanistan Transitional Investment Plan map.
- Updated CERP, NMT and Afghan Transitional Power Investment web maps.
- Prepared Confirmation Inspection (buildings not-visited) map.
- Prepared geo-referenced Kandahar City map showing feeder 513, work packages A – F (2 – 177) for KHPP.
- Prepared and published to the web 10.1 demo map of NMT Confirmation Inspection.
- Prepared and published to the web 10.1 demo map showing radio and TV coverage areas of the PTEC project.
- Prepared a Kabul to Darunta Dam map.
- Prepared a Herat Province map.
- Prepared and published to the web 10.1 demo map of Kabul City.
- Prepared and published to the web 10.1 demo map of Kandahar Existing MW-Distribution System Single Line Diagram.
- Prepared and published to the web 10.1 demo map showing Sayed Abad – Pul e Alam – Gardez transmission line.
- Prepared and published to the web demo map showing 25km Zone of Influence (villages/mosques) along the Kabul – Kandahar transmission line (PTEC).
- Prepared and published to the web demo map showing cell phone coverage along the Kabul – Kandahar transmission line (PTEC).
- Prepared a draft map of the Kandahar 20kV distribution network.
- Prepared a new updated map of Afghanistan Transitional Energy Investment for USAID.
- Completed the master Afghanistan Transitional Investment Plan map for Office of Economic Growth & Infrastructure (OEGI) and printed 25 hard copies.
- Prepared a Partner Liaison Security Office (PLSO) map.
- Prepared Kabul – Mazar e Sharif and Pul e Khumri to Faizabad Roads map.
- Published to the web 10.1 demo map showing CERP projects.
- Prepared and published to the web 10.1 demo map showing SPR roads and PRT locations.
- Digitized 10% of Existing MV-Distribution (System Single Line Diagram) of Kandahar City.
- Digitized and geo-referenced Kandahar City electric lines feeders 511, 512, 513, 514, 516, 518 and 519.

- Extracted a spreadsheet of USAID and non-USAID projects (buildings, SWSS, CLTS and latrine).

EQUALS Water and Power GIS Team

- Updated 717 sanitary water and 2 ACEP projects in the GIS database based on NMT reports.
- Verified and confirmed 991 SWSS, 321 CLTS, 4 Latrine and 106 ACEP reports based on QA field assessment reports.
- Renamed, reviewed and converted into PDF 991 SWSS, 296 CLTS and 7 Latrine reports and transferred the reports to AISCs.
- Added 97 new SWSS projects into a spreadsheet to upload into the GIS database.
- Added 19 new SWSS projects into the GIS database.
- Updated the Confirmation Inspection (ACEP) map.
- Analyzed and added CERP projects to AIDC GIS database.

EQUALS Road GIS Team

- Continuing to update master roads GIS database in coordination with the MoPW.
- Prepared and published to the Web 10.1 demo map showing Afghanistan Road Network.

Table 14: Key Performance Indicators for AIDC Team

Key Performance Indicators for 4th Quarter 2012	Benchmark	Actual
Respond to all USAID-approved data queries	75% of all requests fulfilled within 24 hours; 90% of all requests fulfilled within 48 hours	Total 24 requests: 90% fulfilled within 24 hours, 100% fulfilled within 48 hours
Support EQUALS Monitoring Teams with static maps and data queries	75% of all requests fulfilled within 24 hours; 90% of all requests fulfilled within 72 hours	Total 24 requests: 100% fulfilled in 24 hours, 100% fulfilled in 72 hours
Support EQUALS Monitoring Teams with data QC	85% of locations checked and accepted or rejected within 6 days	Total 1736 locations: 100% checked in 2 days
Support EQUALS Monitoring Teams with data management	90% of new information received by AIDC added to the database/document repository within 7 days	Total 1573 documents: 100% added to database/document repository within 7 days
Implement and maintain a security incident tracking and reporting application within AISCs for the USAID Safety and Security Office	Maintain system uptime of 90%; respond to feature requests within 7 days with estimated LoE to complete	100% system uptime. Several features added within 7 days of request
Manage, maintain, and support AISCs to all USAID-approved users	Maintain system uptime of 90%; respond to feature requests within 7 days with estimated LoE to complete	100% system uptime

Number of maps produced per USAID request	96 hours to produce each map per request	Total 13 maps produced; each map produced within 72 hours
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3.1.2 Salient Issues and Concerns

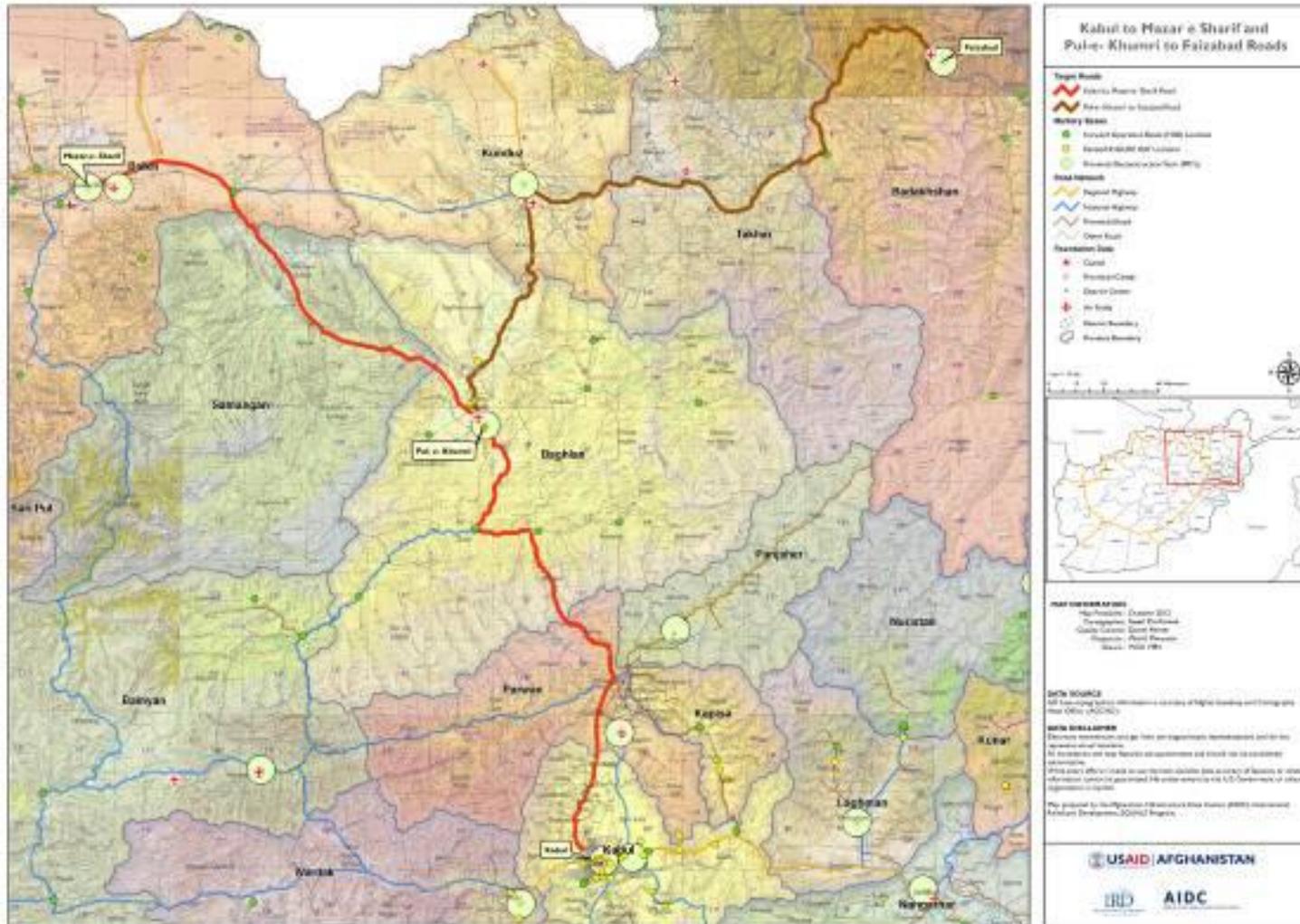
None

3.1.3 Future Activities

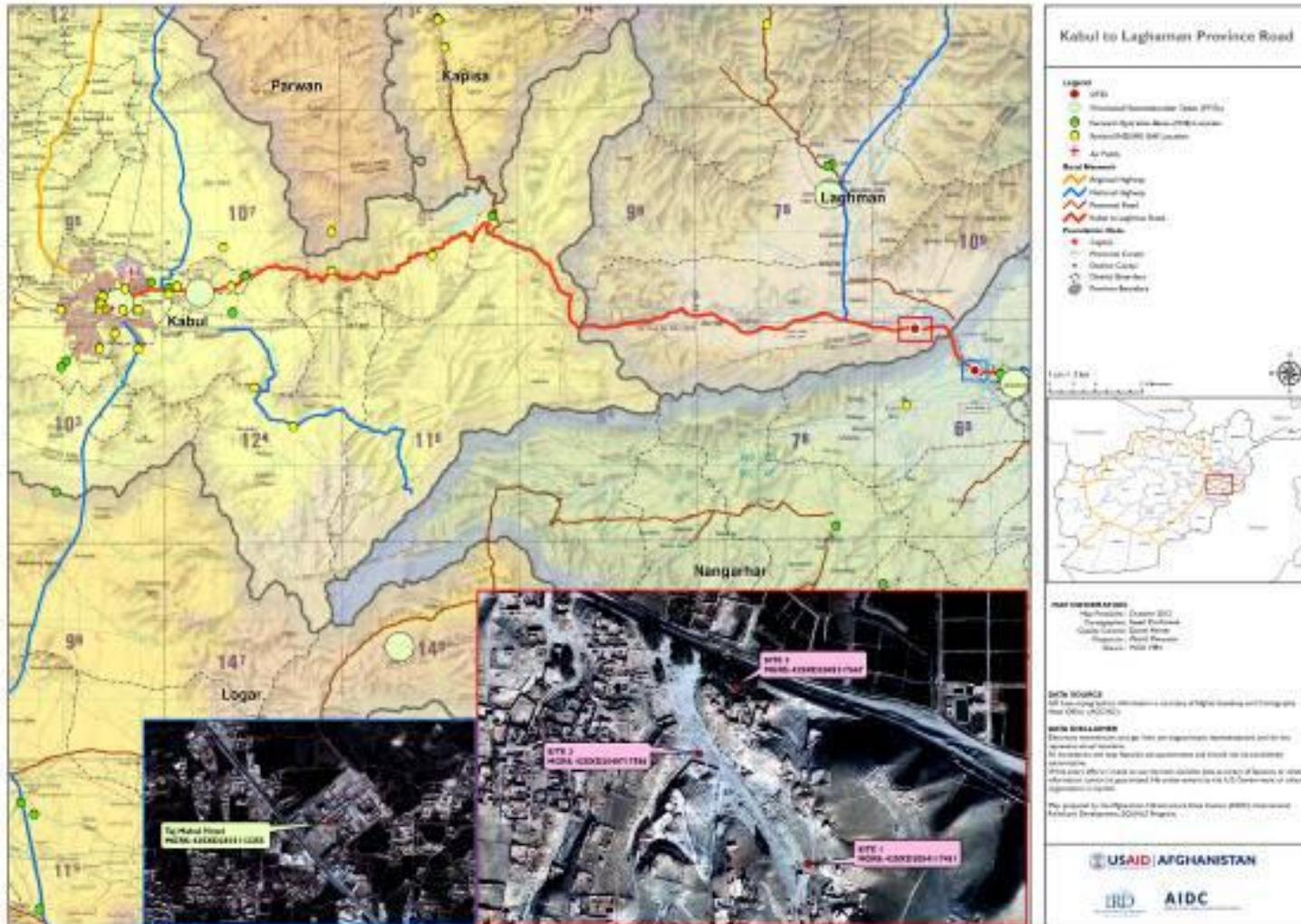
Routine activities are planned for the next reporting period.

The maps below are examples of the requests completed this quarter:

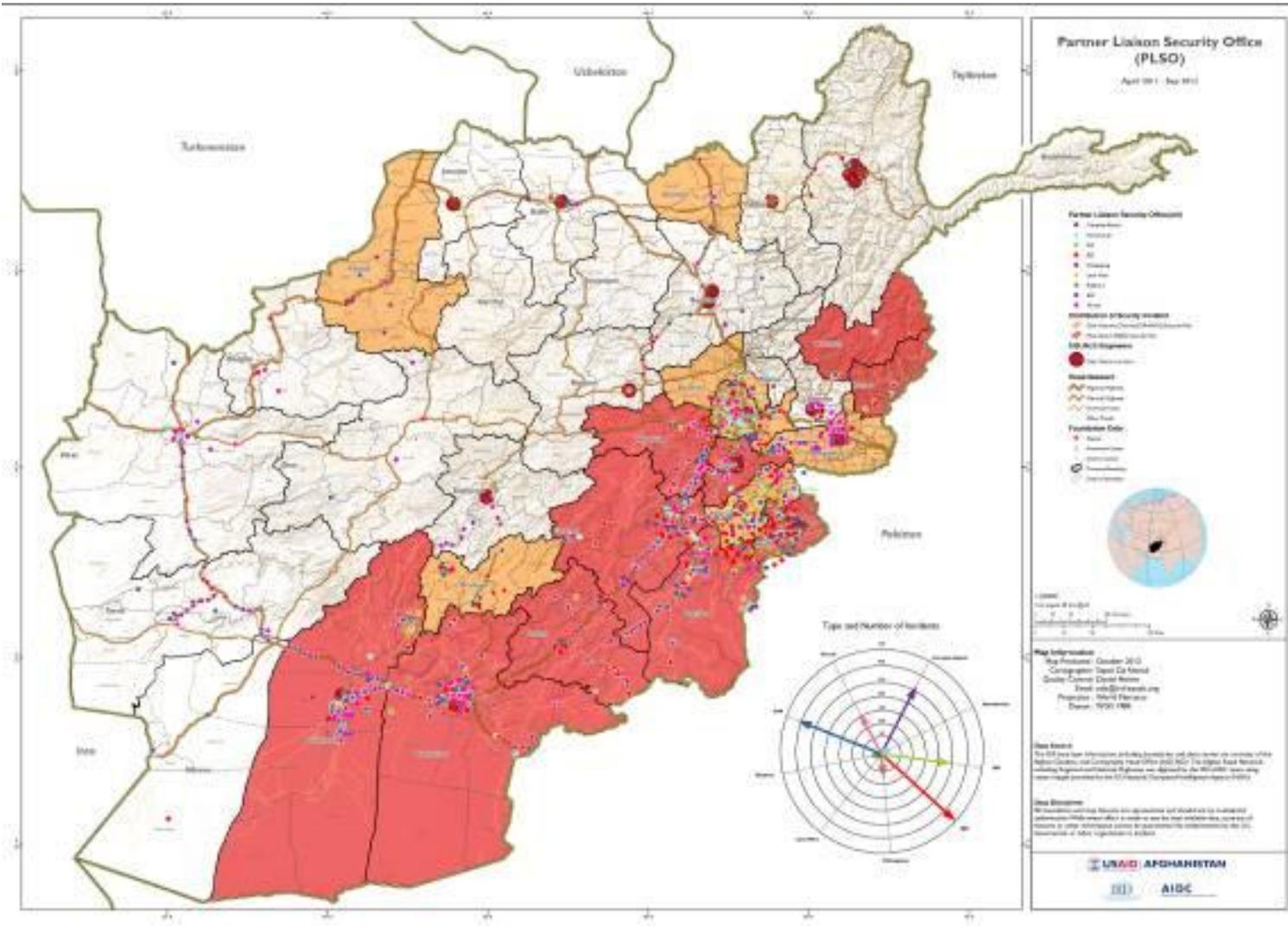
Map 1: Kabul - Mazar e Sharif and Baghlan - Faizabad Roads Map created at AIDC.



Map 2: Laghman Province (Sites Locations) Map compiled at AIDC.



Map 3: Safety and Security Office (Color Code) map produced at AIDC



4 CAPACITY BUILDING

4.1 GIRoA Capacity Development Unit

4.1.1 Accomplishments and Status

Regular duties included:

- Facilitated the institutionalization of the infrastructure asset databases and GIS labs.
- Facilitated the establishment of an effective communication channel with OEGI-supported ministries.
- Met with the PoCs of the GIRoA ministries regarding salient issues and updates.
- Conducted preliminary research on the potential GIRoA ministries that could benefit from the AISCS 2.0 web application.

In addition to regular duties, the CDU accomplished the following:

GIRoA IDCs

- Completed the first draft of the interim needs assessment reports of the GIRoA IDCs to find out about major accomplishments since the start of the training program.
- Visited the GIRoA IDCs as and when required.
- Drafted a sample certificate for the GIRoA IDCs' trainees to be handed over to them during a certificate ceremony.

MoPW IDC

- Completed the management training courses at the MoPW IDC.
- Held the 4th database working group meeting with the MoPW database stakeholders to coordinate mutual efforts for building a comprehensive database management system and to avoid duplication of efforts.
- Received a letter from the MoPW correspondence directorate advising the MoPW department to assist with the MoPW IDC with data collection as and when required.
- Received a letter from the MoPW correspondence department regarding establishment of a committee to assess the MoPW IDC for integrating it temporarily into the government structure, which was proposed by EQUALS and was discussed in the leadership meeting.
- Downsized the MoPW IDC Capacity Development Officer position due to completion of the work component.
- Received a letter from the MoPW Leadership regarding their support for retaining the MoPW IDC staff under the current organizational structure until the budget (tashkeel) for the fiscal year 1392 is approved.
- Met with the MoPW Deputy Minister of O&M of Transportation Infrastructure and provided an update on the MoPW IDC remaining activities.
- Held a meeting with the secretary of the MoPW minister regarding the follow-up of the MoPW's database working group activities in the future.
- Updated the MoPW Leadership on the installation of AISCS at the MoPW IDC.

MoM/AGS IDC

- Conducted 2 days of 2hrs/day training in 'conducting effective meetings' for 2 male and 1 new female trainee:
 - Introduction to meetings
 - Actions before convening a meeting
 - Actions during the meeting

- Actions after the meeting
- Meeting rules and regulations
- Conducted 3 days of 2hrs/day training in ‘skills development’ for 2 male and 1 new female trainee:
 - Introduction to skills
 - Problems arising from lack of skills
 - Self-management skills
 - Management & leadership skills
 - Transferable skills
 - Contextual & academic skills
 - Teamwork skills
- Conducted 2 days of 2hrs/day training in ‘report writing’ for 2 male and 1 new female trainee:
 - How to plan a report
 - Report writing rules and regulations
 - Types of reports
 - Report formats
- Conducted 2 days of 2hrs/day training in ‘time management’ for 2 male and 1 female new trainee:
 - Introduction to time management
 - Time management skills and techniques
 - Procrastination/postponement
 - Time management guidance
 - Decision-making techniques and skills
 - SMART goal setting
- Completed the training program at the MoM after conducting 2 days of 2hrs/day training in ‘report writing’ for 2 male and 1 new female trainee:
 - Introduction to report writing
 - Reasons for writing a report
 - Verbal and written reports
 - Report writing procedures
- Completed management training at the MoEd IDC.
- Met several times with the Head of AGS and provided an update on the future activities of the AGS/MoM IDC.
- Reviewed some of the management training topics at the MoM IDC.
- Provided an updated status to the leadership of MoM on the installation of AISCs at the MoM IDC.

MoEd IDC

- Completed management training at the MoEd IDC.
- Met with the Head of ISD regarding establishment of a database working group to avoid duplication of efforts and facilitate coordination for data sharing.
- Developed a training plan for the MoEd IDC staff regarding field data collection.
- Received data on location of schools, number of teachers and students and miscellaneous education data from the MoEd ISD planning directorate.
- Downsized the MoEd IDC Capacity Development Officer position due to completion of the work component.
- Held a meeting with the Head of ISD and discussed data collection for the Kabul City education zones training plan.

- Contacted the Head of ISD, MoEd regarding selection of schools for a sample practical data collection training for the MoEd IDC trainees.
- Developed the MoEd ISD's data collection forms and sent the revisions to the Head of ISD and his team for feedback and approval.
- Held a meeting with the MoEd ISD's representatives and department heads to revise data collection forms.
- Finalized the MoEd IDC's data collection forms to conduct practical data collection training in a district in Kabul Province.
- Met several times with the Head of ISD, MoEd and provided an update on current and planned activities at the MoEd IDC.
- Finalized and printed out certificates for the MoEd IDCs' trainees to be awarded during a certificate ceremony.
- Conducted a joint presentation on the achievements of the MoEd IDC for the MoEd Deputy Administrative Minister, Head of ISD, MoEd Advisors and representatives from IRD-EQUALS and ARTF.
- Distributed completion certificates of the GIS and management courses to the MoEd IDC trainees.

MoPH IDC

- Conducted 4 days of 2hrs/day training in 'conducting effective meetings' for 7 male and 2 female trainees:
 - Introduction to meetings
 - Actions before convening a meeting
 - Actions during the meeting
 - Actions after the meeting
 - Meeting rules and regulations
- Conducted 4 days of 2hrs/day training in 'communication' for 7 male and 2 female trainees:
 - Barriers to effective communication
 - Reasons that reduce listening quality and cause misunderstanding
 - Four causes of poor listening
 - Developing speaking skills
 - Developing self-confidence
 - Speech communication process
 - Developing writing skills
- Completed management training at the MoPH IDC.
- Provided the MoPH trainees with some GPS devices to assist them in recording GPS points of health care facilities around the country for at least two weeks.
- Inquired about updates on practical data collection training from the MoPH trainees who have been assigned by the Head of HMIS to conduct actual data collection of the health facilities using GPS devices around the country for at least two weeks.
- Met several times with the Head of HMIS, MoPH and provided an update on the progress made as well as the future activities at the MoEc IDC.

MoEc IDC

- Completed management training at the MoEc IDC.
- Downsized the MoEc IDC Capacity Development Officer due to completion of the work component.
- Visited the MoEc IDC and reviewed some management topics for the IDC trainees.
- Informed the MoEc Leadership and trainees of the installation of AISCs at the MoEc IDC.

- Met with the MoEc PoC and his counterpart regarding provision of off-budget data to support the MoEc leadership in their decision making and communications with parliament members regarding development projects.
- Met with the General Director of ANDS Monitoring and Methodology, MoEc and discussed provision of the ‘GIS for Managers’ training in the coming weeks.
- Met several times with the Head of ANDS Department of MoEc and provided an update on the progress made at the MoEc IDC.

Table 15: Key Performance Indicators for Capacity Development Unit

Key Performance Indicators for 4th Quarter 2012	
<p>Infrastructure asset management capacity development and institutionalization needs assessment</p>	<p>MoPW:</p> <ul style="list-style-type: none"> • 100% of MoPW IDC’s needs assessment and Gap Analysis complete • 100% training plan for MoPW is prepared <p>MoM:</p> <ul style="list-style-type: none"> • 100% of MoM IDC’s needs assessment and Gap Analysis complete • 100% training plan for MoM IDC is prepared <p>MoEd:</p> <ul style="list-style-type: none"> • 100% of MoEd IDC’s needs assessment and Gap Analysis complete • 100% training plan for MoEd IDC is prepared <p>MoPH:</p> <ul style="list-style-type: none"> • 100% of MoPH IDC’s needs assessment and Gap Analysis complete • 100% of training plan for MoPH IDC is prepared <p>MoEc:</p> <ul style="list-style-type: none"> • 100% of MoEc IDC’s needs assessment and Gap Analysis complete • 100% of training plan for MoEc IDC is prepared
<p>Asset management foundation training to the GIRoA ministries’ IDC staff</p>	<p>MoPW:</p> <ul style="list-style-type: none"> • Completed 15 out of 15 weeks of asset management foundation training to MoPW staff • Completed 15 out of 15 weeks of asset management foundation training to MoPW new female staff • Completed 8 out of 8 weeks of theoretical data collection and analysis training to MoPW male and female staff • Completed 0 out of 1 week of practical data collection and analysis training to the MoPW IDC trainees <p>MoM:</p> <ul style="list-style-type: none"> • Completed 15 out of 15 weeks of asset management foundation training to MoM staff • Completed 15 out of 15 weeks of asset management foundation training to (new) MoM staff • Completed 6 out of 6 weeks of theoretical data collection and analysis training to MoM male and female staff • Completed 0 out of 1 week of practical data collection and analysis training to the MoM IDC trainees <p>MoEd:</p> <ul style="list-style-type: none"> • Completed 15 out of 15 weeks of asset management foundation training to MoEd male staff

	<ul style="list-style-type: none"> Completed 15 out of 15 weeks of asset management foundation training to MoEd female staff Completed 8 out of 8 weeks of theoretical data collection and analysis training to MoEd staff Completed 0 out of 1 week of practical data collection and analysis training to the MoEd IDC trainees <p>MoEc:</p> <ul style="list-style-type: none"> Completed 15 out of 15 weeks of asset management foundation training to MoEc staff Completed 8 out of 8 weeks of theoretical data collection and analysis training to MoEc staff Completed 0 out of 1 week of practical data collection and analysis training to the MoPW IDC trainees <p>MoPH:</p> <ul style="list-style-type: none"> Completed 15 out of 15 weeks of asset management foundation training to MoPH staff Completed 6 out of 6 weeks of theoretical data collection and analysis training to MoPH male and female staff Completed 0 out of 1 week of practical data collection and analysis training to the MoPW IDC trainees
Institutionalization of ministries' infrastructure asset database and GIS lab	<p>MoPW – is in progress MoM – is in progress MoEd – is in progress MoPH – is in progress MoEc – is in progress</p>
Reporting	<p>Reports submitted</p> <ul style="list-style-type: none"> 68 Weekly Activity Reports 16 Monthly Activity Reports 6 Quarterly Reports 5 Needs Assessment and Gap Analysis Reports 5 Interim-needs Assessment and Gap Analysis Reports 3 Capacity Development Plans

4.1.2 Salient Issues and Concerns

Adequate time is needed for institutionalization as the current timeline provided by USAID will not allow for this process to be completed as successfully as possible. The activities are:

- Develop ToRs and job descriptions for the GIRoA IDCs' staff
- Propose restructuring of the IDCs to accommodate the current staff within the government/ministries' existing structure
- Develop annual plans for the GIRoA IDCs
- Establish database working groups at the GIRoA ministries to enhance coordination and avoid duplication of efforts

4.1.3 Future Activities

Routine activities are scheduled for the next reporting period.



Image 69: The MoEd Leadership thanking IRD-EQUALS and for training programs; 15Dec12.



Image 70: The Head of ISD during his speech and appreciation of the training programs' teams; 15Dec12.



Image 71: Massúod Hemmat, EQUALS/CDU Program Manager during his speech on the training program at MoEd IDC; 15Dec12.



Image 72: Deputy Minister of Admin and Finance, MoEd during his speech at the conference; 15Dec12.



Image 73: Zubaida Karimi, being appreciated by the MoEd Leadership after receiving her completion certificate; 15Dec12.



Image 74: Informal discussion between the MoEd Leadership, and IRD-EQUALS teams after the event; 15Dec12.

4.2 GIROA Infrastructure Data Centers

4.2.1 Accomplishments

AIDC mentors provided technical support during normal production work this period. The trainees are accepting and responding to requests from within the ministries with limited oversight and external support from EQUALS as part of the transition.

Ministry of Mines IDC

- Digitized 40% map of Afghanistan tectonic
- Digitized 95% map of AGS ongoing projects
- Digitized 80% map of Kortaw geological
- Digitized 50% map of Dara-i-Paich zone geological
- Digitized Achin geological deposit map
- Digitized Gursalak Nuristan Province geological map
- Prepared 2 maps of Afghanistan south and south-eastern minerals
- Prepared a mineral map of Helmand Province
- Prepared a mineral map of Baghlan Province
- Prepared 2 maps of Afghanistan showing phosphorus mine with geological background
- Prepared a map of the southern Zone AOI and non-fuel minerals
- Prepared a map of the eastern Zone AOI and non-fuel minerals
- Prepared a map of the Afghanistan gas pipe extension line for the northern zone
- Prepared a topography map of Gazastan
- Prepared 3 maps of railway route from Torkham to Hayratan and made copies
- Prepared 2 topography maps of Kashlatan area in Takhar Province
- Prepared a geomorphology map of Sar-i-Pul Province
- Prepared Afghanistan geology map
- Prepared Afghanistan mineralogy map
- Prepared a groundwater map of Sar-i-Pul Province
- Prepared Afghanistan Political map
- Prepared 2 geology maps of Bamyan Province
- Scanned 48 maps of Afghanistan geological and topography
- Geo-referenced 5 Afghanistan geological and minerals maps

Ministry of Public Works IDC

- Prepared a map of Afghanistan Peace and Reintegration Program (APRP) road
- Prepared a map of Central Asia Regional Economic Cooperation (CAREC) railway for the Technical Deputy Minister
- Prepared and updated Afghanistan Railway status map for Technical Deputy Minister
- Working on Afghanistan road network and road features into Arc GIS web viewer
- Prepared maps of Kabul-Kandahar, Kabul-Gardez, Kandahar-Herat, Salang Pass and Kishim-Faizabad Roads in A0 size and framed them for the MoPW Minister
- Prepared 2 maps of the Salang Bypass showing the feasibility study of new tunnel
- Prepared a road map of Salang Tunnel
- Prepared a road feature map of Salang Tunnel

- Prepared a map of Afghanistan showing snow passes for the Ministry's Planning and Engineering, Emergency Response, and Traffic Volume Departments, and the JICS Associated Director
- Prepared a map of Afghanistan showing snow locations that require removal by province for the Ministry's Planning and Engineering Director and the JICS Associated Director
- Prepared and published to the web 10.1 demo map showing Afghanistan Road Network and road features
- Updated and printed the Afghanistan road status map for MoPW's Planning and Engineering Department
- Updated maps of Salang Bypass and Regional and National Highways for the Minister Advisor
- Updated the map of Salang Bypass for the O&M Director of Salang Bypass
- Updated Afghanistan Regional and National Highways map
- Updated Afghanistan Donor Road Map
- Updated and made copies of the Afghanistan Road Status map for the Ministry's Road Department
- Received a list of the MoPW staff having access in AISCs
- Presented the AISCs presentation to Ministry of Finance
- Continuing work on different types of road maps
- Continuing to update the Afghanistan road network map
- Started work on the Afghanistan proposed railway map
- Prepared a report on road status from donors for the MoPW Minister
- Prepared a map of Afghanistan north to south corridor
- Marked 25 points of the snowy places in Afghanistan that need to be cleaned
- Participated in the working group meeting of IRD, MoPW and NERAP at MoPW
- Visited the MoPH and assigned some GIS lessons for practice
- Installed GIS 10.1 for all trainees
- Practiced AISCs database with trainees
- Practicing Arc-GIS using 10.1 web mapping

Ministry of Education IDC

- Prepared 34 draft/practice maps of Afghanistan for improving GIS skills
- Continued to confirm the schools locations in Kabul City and Kama District in Nangarhar Province with Google Imagery
- Prepared a field data collection form
- Prepared a map showing education facilities in Kabul zone
- Practiced GIS options
- Exported a KML file from ArcMap and added into Google Earth
- Labeling (Maplex option)
- Added X, Y coordinates from excel and txt file into GIS
- Introduction to the metadata and editing
- Accessing data on the internet for GIS
- Types of tabular data and formats
- Geo-referencing images
- Using the ArcGIS Resources portal
- Revision of data driven page

- Reviewed the GIS options including map layout, annotation creation and importing layer styles techniques with the ministry staff
- Creating table relationships

Ministry of Economy IDC

- Prepared 9 draft/practice maps of Afghanistan for improving GIS skills
- Digitized Afghanistan minerals map for practice to improve GIS skills
- Working on web mapping application for the Ministry of Economy
- Exporting all layers to 10.1 GIS database
- Maintaining layers with master symbology
- Working on data quality control
- Practiced and reviewed GIS options
- Managed and overlooked tasks with trainees
- Supported the trainees with analyzing and converting the infrastructure data into the shape file
- Reviewed the GIS lessons with trainees
- Geo-referencing within the ArcGIS 10.1 Desktop
- Domain creation and validation techniques
- How to connect to the geo-database within the ArcGIS 10.1 environment

Ministry of Public Health IDC

- Continuing analyzing and cleaning of health infrastructure data
- Analyzed and cleaned corrupt data from the MoPH
- Continued work on a health facilities map by province
- Prepared maps of Kapisa and Wardak Provinces showing BHC and CHC facilities for MoPH's HMIS Department
- Prepared a map of Clinic Health Centers (CHC) and Basic Health Centers (BHC) in Afghanistan
- Continued to work on health facilities geo-database and data management
- Instructed the MoPH trainees in the following:
 - Working on map templates
 - Additional layout techniques
 - Modifying the Arc-GIS interfaces
 - Customize dialog box
 - Manage toolbars and user interface controls
 - Store and distribute customizations
 - Group frequently used tool
 - Display only commonly used tools
 - Add macros for common tasks
 - Practice and review GIS exercises
 - Worked with the trainees on how to convert infrastructure data into shape file

4.2.2 Salient Issues and Concerns

None

4.2.3 Future Activities

Routine activities will be conducted in the next reporting period.

5 PROGRAM UPDATE – SUPPORT

5.1 Management

5.1.1 Accomplishments

- EQUALS formally submitted the proposal for the JO-05 Modification #1 to USAID on October 23, 2012.
- On October 14 and 15, 2012 an IRD HQ representative conducted Procurement Training and a Fraud Awareness Workshop at the EQUALS compound for EQUALS staff. The training was mandatory for Procurement, Travel, HR, Inventory, and Maintenance Supervisors.
- EQUALS submitted the JO-04 Work Plan on November 19, 2012.
- The Water Supply and Sanitation Team Leader was replaced in December 2012.
- Replacement of the outgoing Deputy Finance Director is expected in early January 2013.

5.1.2 Salient Issues and Concerns

- Osvaldo Juvier, EQUALS Chief of Party, resigned from post effective October 19, 2012 due to medical reasons. A replacement COP (Mr. Gilbert Richard) was identified and approved by USAID, with mobilization planned for January 15, 2013.
- Approval of the JO-05 Modification #1 remains pending.
 - Discussions have been held to resolve SOW and budget issues. However, the impact of delays in approval may negatively impact the service level.
 - Recruitment and mobilization of relevant staff in preparation for recommencing construction activities in the spring is also affected by this delay.

5.1.3 Coordination with USAID COR

Monthly coordination meetings were held with the USAID COR on November 13, 2012 and December 11, 2012.

Key issues discussed included the following:

Issue	Description	Status
Re-instatement of Monthly Meetings	Recognized and agreed to resume	Instated and Continuing
Register of Requests for Approval	Developed and sent to COR on a semi-monthly basis	Instated and Continuing
Budget Re-Alignment	Preparing JO-04 budget realignment	Pending submission to USAID
Local Compensation Plan	Revision of current LCP	Pending submission to USAID
EQUALS JO-04 Work Plan	Submitted November 19, 2012	USAID approval forthcoming
JO-05 Modification #1	Discussed importance of approval before end of year to allow recruiting and fielding; 3 additional MST's will only be deployed in preparation for the spring; need for MCS aviation over INL	Pending USAID approval
Changes to SPOT in Database	Request submitted to CO to revise name of IRD in SPOT database; EQUALS to provide list of proposed staff to be issued LOAs once access to SPOT is gained	Access to SPOT pending

Approval of Water Resources Engineers	Requested support for LOE approval	Approval received
Salaries of Civil and Electrical Engineers	Rates in contract not consistent with market rates; USAID requested evidence for justification	In progress
Request for Additional Engineers to support KHPP	KHPP COR requested EQUALS to provide QA mentoring in support of GIRoA; unused LOE available, but labor titles and categories would require adjustment	USAID to hold separate discussion with KHPP COR

5.1.4 Future Activities

- Delays in approval of staff continue to have an impact on the delivery of program outputs. Due to the requirements in the Contract, EQUALS recognizes this places a burden on the CO's office. In an effort to lessen this burden, EQUALS has developed a prioritized process to assist the CO and COR with this workload. This process is in the form of an Approval Tracking Chart, and will be sent to the COR on a semi-monthly basis in order to assist with prioritization of approval requests, and therefore enable EQUALS to continue to deliver the project in accordance with the Contract and approved SOW.

5.2 Communication and Information Technology

5.2.1 Accomplishments

In addition to routine activities, the IT Team accomplished the following during the last quarter:

- USAID provided laptops were checked and submitted to Logistics.
- Approximately 30 laptops were prepared for NMT engineers and for future use.
- Three Continuous Data Protection (CDP) devices were configured and are ready to use for backup.
- Desktops were issued for NMT engineers based in Kabul.
- Some GIS servers were moved to the EQUALS main server room.
- Network loop between the two buildings was fixed.
- File server was backed up on a CDP.
- Purchased/configured wireless access points that are ready for setup.
- Mapped GIS shared-drive for the AIDC team via scripts.
- Replaced D-Link network switches with high performance CISCO switch.
- AIDC servers were transferred from ARTF to EQUALS.
- Windows XP to Windows 7 conversion is in progress.
- Anti-virus server was installed for MoEW.
- AIDC servers were transferred to the IRD2 server room.
- Monitoring system for printers (JetAdmin Application) was installed.
- Increased Continuous Data Protection (CDP) capacity to 3,000 GBs.
- Installed an imagery server for the GIS team.
- More effective wireless access points were installed at EQUALS buildings.
- Exchange server 2010 and active directory 2008 backups were restored in test servers.
- Configured AVG antivirus on the MoPH client computers.
- CDP was configured and is ready to be set up at MoEW.

- Archive server is ready to be set up at disaster recovery site (IRD6 basement).
- Blocked certain ports from MoEW firewall (sonic wall)
- Configured Wiki server to be accessible from the KHPP office.
- Configured NTop (a monitoring bandwidth tool) for monitoring the bandwidth.
- Domain controller and email server were backed up and restored successfully in disaster recovery site.
- Camp Liz scope of work tender was completed and submitted to procurement for further process.
- Internet service provider technical evaluation was completed and submitted to procurement.
- Administrator privilege was given to all local desktops at ministries
- Port forwarding was completed on Ministries' GIS servers to be accessible from the internet.
- Configured CDP for backing up EQUALS shared-drive.
- One GSM signal booster was transferred to KHPP for improving the GSM signals.
- Damaged laptops, desktops and UPSs were rechecked for disposal.
- Port Security was tested in Cisco Catalyst switch for future implementation.
- EQUALS servers were added in monitoring system.
- File server was installed at MoEW for backup redundancy.
- Antivirus server was prepared for Camp Liz.
- A new IT Specialist joined EQUALS.
- Domain Name System (DNS) was configured on MoEc and MoEd servers.
- CDP was sent to Camp Liz.
- Dataserv data was backed up offsite.
- Additional exchange and additional domain are available and put off site at a different location that can be used when the primary is down.
- Changed wireless access points' passwords.
- License renewal for the MoEW firewall is in progress.
- MoEc Internet Service Provider contract renewal is in progress.
- Network monitoring application (NToP) was updated for better performance.
- Backup mechanism was tested for accidental deletion of Core Server (Domain Controller) objects.
- Main office firewall license renewal is in progress.
- Camp Liz networking system was organized.
- Exchange server incremental backup is in progress.

5.2.2 Salient Issues and Concerns

None

5.2.3 Future Activities

Routine activities are planned for the next reporting period.

5.3 Security

5.3.1 Accomplishments

The Security Team accomplished the following during the latest reporting period:

- 683 MST missions were undertaken by contracted MST (RMC and APPF) security staff this quarter.

- 12 aviation missions were undertaken by contracted MST (RMC and APPF) security staff.
- 184 guard parades, 9450 post visits, 92 QA/QC checks were conducted by the SSM and officer on duty.
- The following road missions were conducted over the reporting period:
 - Paktika on October 03, 2012
 - Balkh/Badakhshan on October 06, 2012
 - Nangarhar on October 09, 2012
 - Nangarhar on December 05, 2012
 - Nangarhar on December 21, 2012
- A security assessment was conducted and the report handed to IRD D/CSRM detailing an overhaul of the security enhancements required to mitigate in advance the potential threats that may surface when the coalition forces start to withdraw. The assessment highlighted several areas in which IRD could improve security within the EQUALS compound. These enhancements are now being implemented.
- RMC manning on the ground is 11 expats and 19 local nationals.
- 1 RMC expat is permanently assigned to the KHPP (Kandahar) project; 10 to IRD EQUALS in Kabul.
- 3 replacement expat consultants joined Pilgrims on the IRD EQUALS program during October-December.
- The training program for EQUALS expats, APPF and RMC is ongoing with the introduction of English lessons for the APPF supplied by IRD and female medical training provided by Pilgrims.
- PSRM introduced a detailed ERP package for all IRD expats on the compound.

The Silk Route Risk Management (SRRM) Security Team at Camp Liz accomplished the following:

- 19 MST tasks were undertaken by the security team this period (with 14 national and 19 expatriate clients).
- 172 guard parades, 336 post visits and 172 QA/QC inspections were conducted during the reporting period by the TV1, MPC1, MPC2, and Guard Supervisors.
- EQUALS expat/local national staff attended the following training:
 - 10 October 2012 – Policies and procedures
 - 17 October 2012 – Policies and procedures
 - 14 November 2012 – Immediate Action Drills
 - 27 November 2012 – Vehicle Drills
 - 28 November 2012 – Policies and Procedures
 - 17 December 2012 – Immediate Action Drills
 - 20 December 2012 – Medical
 - 26 December 2012 – Incident Reporting and Communications
- SRRM MPC 1 and MPC 2 conducted the following training:
 - 29 September 2012 – Range Day (AK 47)
 - 10 October 2012 – Weapons Maintenance (AK 47)
 - 17 October 2012 – Weapons Maintenance (AK 47)
 - 4 November 2012 – Base Defense Plan
 - 5 November 2012 – Live Fire Range PKM Training
 - 14 November 2012 – Policies and Procedures
 - 22 November 2012 – Communications and Radio Procedures
 - 27 November 2012 – Contingency Planning

- 27 November 2012 – Vehicle Drills
- 28 November 2012 – Policies and Procedures
- 17 December 2012 – Immediate Action Drill - Non Hostile
- 18 December 2012 – Immediate Action Drill - Direct Attack
- 26 December 2012 – Training Methods

- APPF attended the following training:
 - 03 October 2012 – Range Day (Lima 1 & 2)
 - 03 October 2012 – Weapons Maintenance (Lima 1& 2)
 - 06 October 2012 – Policies and Procedures (Lima 1 & 2)
 - 07 October 2012 – Communications (Lima 1 & 2 & Base)
 - 10 October 2012 – Weapons Maintenance (Base)
 - 17 October 2012 – Maintenance (Lima 1 & 2)
 - 17 October 2012 – Weapon Familiarization (Base)
 - 18 October 2012 – Personal Hygiene (Lima 1 & 2)
 - 18 October 2012 – Personal Hygiene (Base)
 - 21 October 2012 – Personal and Vehicle Search (Lima 1 & 2 & Base)
 - 22 October 2012 – Situational Awareness (Lima 1 & 2 & Base)
 - 03 November 2012 – Concealment and Fire and Movement
 - 04 November 2012 – Base Defense Plan
 - 04 November 2012 – Concealment and Fire and Movement
 - 05 November 2012 – Live Fire Range PKM Training
 - 10 November 2012 – Discipline
 - 14 November 2012 – Policies and Procedures
 - 20 November 2012 – Communications
 - 22 November 2012 – Weapons Maintenance
 - 22 November 2012 – Situational Awareness
 - 22 November 2012 – Customs and Courtesies
 - 24 November 2012 – Immediate Action Drills
 - 25 November 2012 – Immediate Action Drills – Remedial
 - 26 November 2012 – Fire and Movement
 - 27 November 2012 – Vehicle Drills
 - 02 December 2012 – Discipline and Respect
 - 03 December 2012 – Arrest Procedures – Lima 1 & 2
 - 04 December 2012 – Discipline and Respect – Lima 1 & Lima 2
 - 04 December 2012 – Weapon Familiarization – Lima 1 & 2
 - 06 December 2012 – Weapon Maintenance
 - 15 December 2012 – PKM Training - Train the Trainer
 - 17 December 2012 – Immediate Action Drill - Non Hostile
 - 18 December 2012 – Emergency Drill - Direct Attack (Base)
 - 18 December 2012 – Emergency Drill - Direct Attack (Lima 1)
 - 18 December 2012 – Emergency Drill - Direct Attack (Lima 2)
 - 19 December 2012 – PKM training – Post Foxtrot
 - 20 December 2012 – PKM training – NCO's
 - 23 December 2012 – Live Fire exercise – Lima2
 - 24 December 2012 – Live Fire exercise – Lima1
 - 27 December 2012 – Medical Training (Lima 1 & 2)

- Camp Liz security and defensive posture upgrades W/E 20121004
 - Entry Control Point 1 security gate was replaced. New gate enhances security of entry control point and acts as a visual barrier to all personnel from outside the camp.
 - 4 satellite phones are operational and distributed as follows:

- Lima I: 008821684443514
 - Lima 2: 008821684442505
 - Duty Room: 008821684408973
 - TV-1: 008821684404254
- Security posture upgrades and enhancements taking place at Camp Liz W/E 20121011
 - Entry Control Point – 1 Gate has been replaced
 - Entry Control Point – 1 Over watch post has been replaced
 - Entry Control Point – 1 Jersey barriers have been placed in position
 - Sandbags and C-Wire have been replaced in defensive positions throughout the camp
 - Security posture upgrades and enhancements taking place at Camp Liz W/E 20121025
 - Received 6 PKM machineguns for Base defense
 - Weapons were inspected for serviceability
 - Weapons were fired to ensure functionality
 - Updated APPF camp with electric, plumbing, and latrine
 - Security posture upgrades and enhancements taking place at Camp Liz M/E 20121130
 - 5 Securo Trackers are issued to the Mobile Security Teams and in use
 - The transition to the Afghan Public Protection Force (APPF) is complete
 - 173 AK-47 rifles received, uniforms received, APPF officer present for duty
 - 11 PKM automatic weapons received; awaiting 4 PKM automatic weapons

5.3.2 Salient Issues and Concerns

Pilgrims EQUALS Security Team:

- Most outstanding Pilgrims RMC equipment issues have been resolved.
- RMC Communications issue has now been resolved and new licenses distributed to all vehicles.
- RMC now has AK47s and pistols with licenses.
- The APPF commander has been unable to secure a confirmation that we can use the ranges. No reason has been given.
- APPF issue of RMC pistols with licenses.
- Work visas and permits issues continue, and require action by the subcontractor to be contractually compliant.

SRRM Security Team:

- 30 September 2012 – IDF on COP Wilderness – KM 43
- 05 October 2012 – SAF RPG Attack on Wazi Zadran DC– KM 45
- 11 October 2012 – IDF on COP Wilderness – KM 43
- 13 October 2012 – IED found by ANA at Km 52
- 15 October 2012 – IED attack on ANA at Km 36
- 16 October 2012 – IED found by ANA at Km 45
- 17 October 2012 – IED found by US Mil at Km 46+500
- 20 October 2012 – IED found by ANA at Km 45+500
- 02 November 2012 – IDF COP Wilderness at KM 43
- 06 November 2012 – IDF COP Wilderness at KM 43
- 14 November 2012 – IDF COP Wilderness at KM 43

- 18 November 2012 – Fire/Explosion COP Wilderness at KM 43
- 19 November 2012 – Ambush SAF/RPG on ANP at KM 51
- 20 November 2012 – IED Found by ANA at KM 61
- 24 November 2012 – Ambush SAF/RPG on US Military at KM 51
- 24 November 2012 – IED Attack on Civilian Convoy at KM 68
- 25 November 2012 – Ambush SAF/RPG on ANP at KM 41
- 06 December 2012 – ANA found 2 x EID under culvert at Km 61+800
- 22 December 2012 – APPF Lima 1 #148 arrest for possession of Arms & Ammunition
- 23 December 2012 – IDF on Camp 63 (MECC) Km 63
- 26 December 2012 – IED found by US Mil Km 51+300
- 26 December 2012 – US Mil informed RPSRM of their plan moving forward; it involves closure of Camp Wilderness and placing a detachment of troops on to Camp Liz.
- US Military from Camp Wilderness approached Camp Liz with a request to share the facility due to the US Mil need to vacate Camp Wilderness. US Mil will approach USAID to request support on this request.

5.3.3 Future Activities

Routine activities are planned for the next reporting period.

5.4 Human Resources

5.4.1 Accomplishments

In addition to routine duties, the HR team accomplished the following:

- Updated the personnel files of staff
- Updated the staff contact list
- Prepared an organization chart
- Conducted fraud awareness training for the HR staff
- Conducted the out-process and cancellation of RMSI registration for Asadullah Oriakhel
- Prepared a Security Headcount list
- Prepared a FSN list for staff salaries
- Prepared a chart for travels and FOs
- Preparation of a revised Local Compensation Plan (LCP)
- Performed in-process for two new expats
- Created email accounts for new staff
- Translated the HCN manual into Dari
- Contract termination letters were distributed to NMT staff on December 31, 2012
- Circulated the NMT staff list to other IRD projects
- Prepared TLA, PA, Employee Leave Report, and Employee Datasheet for Camp Liz
- Daily timesheets were prepared and sent to all employees for daily sign-in/sign-out
- Sent the annual performance appraisals of the staff to their respective supervisors for evaluation
- Sent the three months probationary period of staff to their respective supervisors for evaluation
- Prepared amendment to HCN manual for annual leave policy
- Prepared Afghan Info for October - November 2012

- Collected updated CVs of staff for FSN
- Prepared FSN for all staff
- Updated the expat list for IRD5 kitchen
- Trained Camp Liz staff on HR related problems at Camp Liz
- Prepared a public holidays list for 2013
- Completed and submitted FSN to the Director of Finance for further processing
- Removed RMSI medical registration for Azad Mohammadi
- Recruited 18 staff members (expat x 6 and national x 12):
 - Ghaleb Akari, Senior Capacity Building Advisor
 - Glen Hearn, Senior Transboundary and Water Advisor
 - Sayed Fraidoun Amid, NMT Field Engineer
 - Abdul Hamid, Cook
 - Najibullah Haqshenas, Admin/Translator
 - Abdul Rashed Baktash, Facility Manager
 - Abdul Shakoor, Utility and Logistics Support
 - Mohammad Taqi, Admin/Translator
 - Carlo Nino, Admin/Logistics Manager
 - Shiv Kumar Shah, Mechanical Engineer
 - Mohammad Ali Sultani, Software Developer
 - Ahmad Zubair Khalil, IT Specialist
 - Jurist Awal, Senior Electrical Engineer
 - Mohammad Zahir, Scheduler/Cost Estimator
 - Wahidullah Aryan, Cook
 - Saiqa Wahidi, Admin Assistant
 - Mohammad Nazif, Field Engineer, Field Engineer (Technical Translator) – Ad Hoc
 - Yunus Afshar, Water Sanitation Team Leader - MoEW
- Nine national staff members were transferred from EQUALS to other IRD projects:
 - Mohammad Zabi Safari, Cook, transferred to DAFA III
 - Abdul Qadir, NMT Field Engineer, transferred to IRD ARTF
 - Abdul Fatah Latifi, NMT Field Engineer, transferred to IRD ARTF
 - Sikander Salehi, NMT Field Engineer, transferred to IRD ARTF
 - Abdul Sami Rahmani, NMT Field Engineer, transferred to IRD ARTF
 - Ahmad Mansour Mansoori, NMT Field Engineer, transferred to IRD ARTF
 - Habiburhman Fazli, NMT Field Engineer, transferred to IRD ARTF
 - Hamid Zaheer, NMT Field Engineer, transferred to IRD ARTF
 - Najibullah Hashimi, NMT Field Engineer, transferred to IRD ARTF
 - 8 of the 9 staff members transferred were NMT field engineers due to the finalization of NMT projects on EQUALS.
- Nine national staff members were transferred internally:
 - Noorullah, internal transfer to MoEW
 - Mohammad Musom, internal transfer within AIDC
 - Wahida Sattar, internal transfer within AIDC
 - Abdul Rashid Katawazai, internal transfer from Badakhshan to Uruzgan
 - Abdul Sami Rahmani, internal transfer from Badakhshan to Herat
 - Zohra Sultani, internal transfer from Procurement to Logistics
 - Enayatullah Azizi, Field Engineer from NMT to Camp Liz
 - Mohammad Nadir Safi, Field Engineer from NMT to Camp Liz
 - Mohammad Jamil Stanikzai, Field Engineer from NMT to Camp Liz

- Processed resignation of seven staff members:
 - Mohmood Ahmadi, QA Engineer
 - Amin Jan Mohammadi, GIS Assistant
 - Ahmad Wali Yousefi, GIS Manager
 - Obaidullah Naseri, HR Manager
 - Osvaldo Juvier, Chief of Party
 - Mohammad Fida, Field Engineer
 - Faramurz Nazari, Assistant Cook

- Processed termination/end of contract of seven staff members:
 - Atiqullah Sultani, Capacity Development Officer - contract ended
 - Ahmad Waheed Afghanyar, GIS Assistant - contract ended
 - Anahita Bakhsh, GIS Manager - contract ended
 - Ahmad Qais, GIS Manager - contract ended
 - Mohammad Ismail Azizi, Capacity Development Officer - contract ended
 - Daud Shah Baridost, Field Engineer - contract terminated
 - Hasibullah Musaver, IT Assistant - contract terminated

The EQUALS program had a total of 244 national and expatriate staff members on board at the end of this period. The table below identifies the nationality breakdown.

Table 16: EQUALS Program currently employees 244 national and expatriate employees.

Nationality	No
Afghan	215
Canadian	3
American	16
UK	4
Burmese	1
Zimbabwean	1
South African	1
Indian	1
Greek	1
Nepalese	1
Filipino	1
Total	245

A total of 42 flights were booked for EQUALS expats for R&R, RRB, Business Related, Home Leave and demobilization.

Table 17: Expatriate Leave Status

Name	From	To	Remarks
John Batchelor	September 12, 2012	October 14, 2012	R&R
Yusaf Said	September 20, 2012	October 14, 2012	R&R
Wayne Minehart	September 26, 2012	October 18, 2012	Home Leave
Elizabeth Muller	October 04, 2012	October 22, 2012	RRB
Edward Ross	October 04, 2012	October 22, 2012	RRB
Norris Ray Herrington	October 11, 2012	October 21, 2012	RRB
Paul Robert Wolstenholme	October 11, 2012	October 28, 2012	RRB (Rescheduled)
Azad Mohammadi	October 11, 2012	November 03, 2012	RRB
Nyi Nyi Naing	October 13, 2012	November 11, 2012	R&R
Greig Colledge	October 16, 2012	November 07, 2012	RRB
Asif Mahmud	October 18, 2012	November 11, 2012	R&R
William Mark Reinke	October 21, 2012	November 06, 2012	R&R
Demetre Papaioannou	October 25, 2012	November 05, 2012	RRB
Tanase Simion Bude	October 26, 2012	November 05, 2012	R&R
Jagdish Kumar Sethi	November 01, 2012	November 17, 2012	R&R
Steve William Beaudry	November 08, 2012	November 18, 2012	RRB (Cancelled)
Kimberly Bednarski	November 22, 2012	December 16, 2012	RRB
Ghaleb Akari	December 03, 2012	December 05, 2012	Visa
Jurist Awal	December 04, 2012	December 22, 2012	R&R
Yusuf Said	December 06, 2012	December 25, 2012	RRB
Glen Hearn	December 06, 2012	December 25, 2012	RRB
Carlo Nino	December 06, 2012	December 25, 2012	RRB
Norris Ray Herrington	December 08, 2012	January 03, 2013	R&R
Daniel Smock	December 12, 2012	December 28, 2012	R&R
Garikai Crispin Mpande	December 13, 2012	January 06, 2013	R&R
Glen Hearn	December 13, 2013	January 07, 2013	R&R
Edward Ross	December 13, 2012	January 15, 2013	R&R
Jan Gebhardt	December 18, 2012	January 17, 2013	R&R
Elizabeth Muller	December 19, 2012	January 19, 2013	R&R plus Vocation
Evangeline Isip Bawa	December 19, 2012	Demobilization	Demobilization
Azad Mohammad	December 19, 2012	Demobilization	Demobilization
Demetre Papaioannou	December 20, 2012	January 07, 2013	R&R
Wayne Minehart	December 20, 2012	January 12, 2013	R&R
Michael J Downey	December 20, 2012	January 13, 2013	R&R
Michael J Downey	December 20, 2012	January 13, 2013	R&R

Nyi Naing	December 22, 2012	January 13, 2013	RRB
William Mark Reinke	December 25, 2012	January 20, 2013	R&R
Paul Robert Wolstenholme	December 26, 2012	January 13, 2013	R&R plus Vocation
Asif Mahmud Sahibzada	December 27, 2012	January 20, 2013	RRB
Ghaleb Akari	December 27, 2012	January 15, 2013	R&R
Daniel Heiner	December 30, 2012	January 26, 2013	R&R

National staff leave utilization status is shown in the table below.

Table 18: Staff Leave Totals

Leave Used – Oct – Dec, 2012	Days
Annual Leave	691
Sick Leave	168.5
Comp Time	468
Leave Without Pay	34.5
Additional Leave	0
Family Leave	3
Bereavement Leave	9
Paternity Leave	4

5.4.2 Salient Issues and Concerns

Salaries for EQUALS local nationals are not in line with the market for similar positions in other international and local companies. The attrition rate in professional positions and IT was more than 50% this quarter due to EQUALS' inability to match salaries offered by other companies, including other USAID contractors. Currently, EQUALS is required by USAID to use the 1420 form to determine salaries. A review of market salaries is in progress, to provide supporting evidence as part of a submission to USAID of a revised Local Compensation Plan (LCP).

5.4.3 Future Activities

Routine activities are planned for the next reporting period.

5.5 Logistics and Maintenance

5.5.1 Accomplishments

In addition to routine activities, the Logistics Team accomplished the following activities in the 4th quarter of 2012:

- Received and processed 28 IT and 06 non-IT “loss and damage” reports.
- Received and processed 184 IT and 283 non-IT requests.
- Issued 200 IT and 70 non-IT items from stock.
- Moved 131 IT and non-IT related items within EQUALS compound.
- Received and stored 138 IT items from 59 staff members.

- Labeled 138 IT and non-IT items with IRD tag numbers with a total cost of \$25,109.00
- Prepared 312 purchase requests and submitted to procurement for further procedure.
- Prepared food and cleaning supply requests for EQUALS offices, ministries and guesthouses.
- Received one generator set and one Land Cruiser vehicle from SRAD.
- Traveled to Camp Liz and met with the Logistics staff regarding conducting a physical inventory of assets.
- Shifted HR/maintenance departments from IRD3 and IRD1 to IRD2.
- Conducted a physical inventory at Camp Liz and labeled 1186 lines with EQUALS tag numbers.
- Disposed of 1286 IT and non-IT assets as per USAID approval and donated to the Afghan Woman Council NGO.
- Checked technical status of IT items at IRD3 and IRD1 stock by IT representative for allocation of usable, surplus and damaged items.
- Spot check of 40 line items from Inventory Database by USAID auditors (Ms. Lisa), at EQUALS compound.
- Received two generator sets (500 KVA and 250 KVA) from Kandahar office for maintenance/service and transport to Camp Liz.

5.5.2 Salient Issues and Concerns

None

5.5.3. Future Activities

Routine activities are planned for the next reporting period.

5.6 Transportation

5.6.1 Accomplishments

In addition to routine activities, the Transportation Team accomplished the following during the reporting period:

- 25 vehicles were present during the reporting period and were utilized on the EQUALS Program.
- A total of 108 days of road missions were executed during the reporting period. Breakdown is as follows:

Table 19: EQUALS Roads Mission by days during the 4th quarter of 2012:

Kabul		Gardez/Daikundi		Nangarhar		Badakhshan/Bamyan		Total
Nat	Exp	Nat	Exp	Nat	Exp	Nat	Exp	
46	00	08	00	05	00	049	00	108

Table 20: Summary of EQUALS vehicle cost reporting for the 4th quarter of 2012:

Number of Vehicles	Total Km Covered	Total Cost in US \$	Average Cost/KM in US \$
25	79,022	80,760.00	1.02

5.6.2 Salient Issues and Concerns

None

5.6.3 Future Activities

Routine activities are planned for the next reporting period.

5.7 Maintenance

5.7.1 Accomplishment

In addition to routine activities, the Maintenance Team conducted the following:

- Chlorinated water wells at EQUALS compound.
- Painted the HR office at IRD3 ground floor.
- Spread rock salt on walkways to break/remove the ice.
- The construction of generator sunshade at EQUALS/MoEW (in progress).
- Cut the steel plate of window for installation of an exhaust fan at IRD6 basement.
- The contractor (Atiqullah) completed making of wooden cabinets.
- The contractor (Noorullah) completed the wooden partition at IRD3 basement.
- Covered the pressure tanks and water storages with woolen mattress and plastic sheets.
- Relocated the two generators from IRD6 street to IRD8 (parking).
- The contractor (Ghulam Ghous) completed the construction of six firing positions around the IRD compound.
- Spread gravel at IRD8 for extension of vehicle parking space.
- The contractor (Noorullah) constructed Perspex screen for Security.
- The contractor (Ghulam Ghous) completed the installation of tiles in supply room at IRD5.
- Excavation of side ditches at the north side of IRD8 is complete.

Description of items	# of Items	Location
Items Serviced		
Air conditioner	33	EQUALS Compound
450 KVA generator	1	
400 KVA generator	1	
165 KVA generator	1	
88 KVA generator	1	
63 KVA generator	1	
18 KVA generator	1	
Water pump	3	
Clothes washing machine	10	
Items Repaired		
Air conditioner	66	EQUALS Compound & Ministries
Central heating system	1	

Electrical stove	2	
Water pump	4	
Heater	9	
Microwaves	3	
Lights	8	
Water boiler	15	
Fuse	12	
Socket	6	
Kettle	5	
450 KVA generator	1	
400 KVA generator	1	
165 KVA generator	1	
88 KVA generator	1	
63 KVA generator	1	
18KVA generator	1	
Steel fence on side ditch	2	
Door handle	20	
Door closer	8	
Shortage of electricity	12	
Clothes washing machine	16	
Drilling machines	3	
Dish washer sink	15	
Shower	10	
Shower mixer	2	
Sink mixer	6	
Sink pipe	8	
Toilet flush tank	9	
Toilet commode	3	
Items Replaced		
Florescent bulbs	205	EQUALS Compound & Ministries
Air conditioner	6	
AC outdoor	12	
AC power board	6	
AC condenser	20	
AC compressor	25	
Volva filter for 450KVA generator	9	
Volva filter for 400KVA generator	9	
Volva filter for 165KVA generator	9	
Volva filter of 88KVA generator	9	
Volva filter of 63KVA generator	9	
Volva filter of 18KVA generator	9	
Projector light	3	
Fuse breaker	16	
Security lock	8	
Handle lock	26	
Handle lock cylinder	35	
Toilet cover	6	
Toilet flush tank	13	
Commode pipe	32	
Flush tank pipe	24	

Siphon	10	
Plug	26	
Switch	35	
Socket	31	
Water boiler pipe	12	
Water boiler heater	8	
Shower pipe	21	
Shower mixer	18	
Shower head	22	
Items Installed		
Florescent bulbs	39	EQUALS Compound & Ministries
Stabilizers	8	
Thuraya antenna	9	
Cupboard lock	8	
Exhaust fan	6	
Pressure tank	1	
Sink	15	
Fuse breaker	9	
Joint box	2	
Fuse box	3	
Holder	12	
Curtain rod	10	
Door closer	9	
Board	36	
Internet antenna	2	
Brackets of satellite phone	5	
Steel clamp for pipe of water pump	1	
Plexiglass for guard post windows	9	
Rubber mats on steel staircase	1 building	
Plastic pipe for water reservoir	1	
Items Supplied		
Fuel for generators	111327 Liters	EQUALS Compound & Ministries
Steel clamp	1	
AC spare parts	33	
Shower curtain	5	
Rock salt	200 KG	
Door closer	9	
Battery	6	
Plastic pipe	6	
Projector light	3	
Nut & bolt	5	
Joint box	2	
Fuse box	3	
Bulb holder	2	
Cement	10 Bag	
Water coolant for generators	210 Liters	
Engine oil for generators	210 Liters	
Mechanical tools for maintenance technicians	84	
Items Removed		
Waste water from septic tanks	31 Tankers	EQUALS Compound & Ministries

Items Cleaned		
Volleyball court	1	
Power plant	1	
Radiator of 88KVA generator	1	

5.7.2 Salient Issues and Concerns

None

5.7.3 Future Activities

Routine activities are planned for the upcoming reporting period.