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Closeout Report

Kandahar Helmand Power Project (KHPP)

COMPONENT 1 SUBCOMPONENT 3

Construct New Kandahar East Substation

Submitted by: Black & Veatch Special Projects Corporation (BVSPC)
Federal Services Division
Kandahar Helmand Power Project (KHPP)
USAID Contract Number 306-C-00-11-00506-00

Submitted to: Office of Economic Growth and Infrastructure (OEGI)
U.S. Agency for International Development (USAID)
Great Massoud Road
Kabul, Afghanistan

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List of Attachments

Document # (if applicable)	Description (Note: The Section references below are the BVSPC-USAID Prime Contract sections wherein specific deliverable requirements are located.)	Status	In Closeout Package
a-01	Contract Closeout Procedures Manual (CCPM)	Complete	Yes – In CLIN 3 Attachment a-01
a-02	Security Plan (Section F.4.B(A)) - Site Specific	Complete	Yes – In CLIN 3 Attachment a-02
a-03	Implementation Plan - Work Plan (Section F.4.B-B)	Complete	Yes – In CLIN 3 Attachment a-03
a-04	Health and Safety Plan and Procedures (Section C.4.6; Section F.4.B-C)	Complete	Yes – In CLIN 3 Attachment a-04
a-05	Quality Control Plan (Section C.4.5; Section F.4.B-C)	Complete	Yes – In CLIN 3 Attachment a-05
a-06	Warranty Administration Plan (Section C.4.11; FAR 52.246.21)	Not Applicable	N/A
a-07	Construction Manual (Section C.4.10)	Not Applicable	N/A
a-08	Construction Schedule (Section C.4.10; Section F.4.B-C) - CLIN Specific	Not Applicable	N/A
a-09	Photo Album	Complete	Yes
a-10	Small Business Utilization Subcontracting Plan (Section H.23; Section J - Attachment 19; FAR 52.219-8)	Complete	Yes – In CLIN 3 Attachment a-10
a-11	Operations and Maintenance Manuals (Section C.4.11; Section F.4.B-C)	Not Applicable	N/A
a-12	Performance Monitoring and Evaluation Plan - each SUBCOMPONENT, as stipulated by COR (Section C.4.13)	Not Applicable	N/A
a-13	Branding Implementation Plan (Section F.4 B,C; Section D.2)	Complete	Yes – In CLIN 3 Attachment a-13
a-14	Environmental Plan (Section H.16)	Complete	Yes – In CLIN 3 Attachment a-14
a-15	Environmental Compliance Documentation Schedule (Section H.16)	Complete	Yes – In CLIN 3 Attachment a-15



a-16	Environmental Closeout Report (Section H.16) - Site Specific	Not Applicable	N/A
a-17	Environmental Reports (Section F.4.B-C) -- Annual Reports until Mod 10 (16-Feb-2013), and then Quarterly Reports	Complete	Yes – In CLIN 3 Attachment a-17
a-18	Weekly Highlight Report (Section F.4.B-B)	Complete	Yes – In CLIN 3 Attachment a-18
a-19	Short Term Report - STTA Trip reports (Section F.4.B-B) - Site Specific	Not Applicable	N/A
a-20	Design Submittals (Section F.4.B-C) - Site Specific	Complete	Attachment a-20
a-21	Inspection and Equipment Test Reports (Section F.4.B-C) - Site Specific	Not Applicable	N/A
a-22	Concrete Strength tests: Steel reinforcements test reports (Section F.4.B-C) - Site Specific	Not Applicable	N/A
a-23	Testing and Commissioning Report (Section F.4.B-C) - Site Specific	Not Applicable	N/A
a-24	As-Built Construction Drawings (Section C.4.11; Section F.4.B-C) - Site Specific	Not Applicable	N/A
a-25	Training Reports (CLIN-Specific) - Site Specific	Not Applicable	N/A
a-27	Final Closeout Report (Section C.4.11; Section F.4.B-C)	Complete	Yes
Deliverables for Subcomponent 1.3: Construct New Kandahar East Substation (Section F.4.A-Original Contract)			
d-01	Proposed Site for Kandahar East Substation	Complete	Yes Attachment d-01
d-02	Engineer-Procure-Construct (EPC) Request for Proposal Document for Kandahar East Substation	Complete	Yes Attachment d-02
c-05	Subcontract / Purchase Order Matrix which Indicates Closeout Status	Not Applicable	N/A
g-05	Request For Consent for Property Disposition	Not Applicable	N/A
g-06	USAID Final Disposition Instructions	Not Applicable	N/A
g-07	Complete & Submit Handover/Disposal documents to USAID	Not Applicable	N/A
m-01a	SUBSTANTIAL COMPLETION: 1) Certificate of Substantial Completion with Schedule of Defects (if applicable)	Not Applicable	N/A
m-01b	FINAL INSPECTION AND ACCEPTANCE 1) Final Punchlist (if applicable) 2) Final Completion and Acceptance Certificate 3) Draft Tripartite Agreement with Supporting Documentation	Not Applicable	N/A
m-01c	WARRANTY PERIOD & FINAL WARRANTY INSPECTION: 1) Warranty Certificate	Not Applicable	N/A
m-02	Prime Contract original signed copy in files KC	Complete	Yes – In CLIN 3 Attachment m-02
m-03	Copy of all Fully Executed Prime Contract Modifications and Change Orders in electronic folder	Complete	Yes – In CLIN 3 Attachment m-03
m-04	USAID Closing Statement Letter+ BV Response Letter	Not Applicable	N/A



m-05	Copy of Closeout Documentation (Requires CO approval) - List of hard and soft copies handed over to USAID- signed off by USAID	Complete	Yes – Previously mentioned attachments
n-05	Submit and Certify Requests for Final Payments - Final Invoice Submission to USAID	Not Applicable	N/A

(PURPOSEFULLY LEFT BLANK)

1 KANDAHAR HELMAND POWER PROJECT (KHPP) OVERVIEW

1.1 KHPP Background

The purpose of the KHPP contract, issued by the United States Agency for International Development (USAID) on 9 December 2010, was to increase the supply and reliability of electrical power in the areas in southern Afghanistan served by the Southeast Power System (SEPS). Particular emphasis was given to the City of Kandahar. The contract was to support the SEPS reconstruction and thereby increase the quality of life of people in Kandahar and Helmand Provinces. The KHPP was conceived as a critical component of the U.S. Government's Counterinsurgency (COIN) strategy in Southern Afghanistan. KHPP is a part of a larger US Government sponsored program involving multiple USAID Implementers, the US Army Corps of Engineers (USACE) and other Donors to improve the SEPS and connect it with other electrical grids in Afghanistan.

A reliable sustainable electric power generation, transmission and distribution system in Kandahar and Helmand Provinces is an important objective of the Government of the Islamic Republic of Afghanistan (GIROA). The system is expected to fuel economic growth which is not possible currently especially in Kandahar City, the second largest city in Afghanistan and a center for education, healthcare, manufacturing, and transportation in Southern Afghanistan. Kandahar City has an electrical supply shortfall of at least 40 megawatt (MW) for its 850,000 residents.

SEPS as a system is composed of multiple generation islands, aged transmission and multiple distribution systems in Southern Afghanistan serving 380,000 of the 1.7 million people residing in the region. Diesel generator sets and the Kajaki Hydroelectric Power Plant (HPP) provide the majority of the electric power generation in the system. The 222 kM SEPS transmission system operates at 110 kilovolts (kV), medium voltage distribution at 20kV, and low voltage distribution at 400 volts (V). The largest power demand node within SEPS is Kandahar City.

The Kajaki HPP was the first significant generation source installed in SEPS. Supported by the US Government, Kajaki HPP came online in the mid-1970s. Its power arrives in Kandahar City via one, aged, 25 megavolt amperage (MVA) transformer located at the Kandahar Breshna Kot (BK) Substation. In 2003, USAID began rehabilitation of the Kajaki HPP. Today, it provides at peak production 36 MW (at high water periods) with 12 MW of power serving Kandahar City and 24 MW of power transmitted to the remaining distribution nodes served by the SEPS transmission backbone.

To supplement generation for Kandahar City during the Kajaki HPP rehabilitation, USAID facilitated the installation of fourteen (14) diesel generators at the Breshna Kot (BK) Substation. In 2008, five (5) additional diesel generators owned by Da Afghanistan Breshna Moasessa (now known as Da Afghanistan Breshna Sherkat - DABS) were installed at BK. This was done to increase generation capacity because the rehabilitation efforts at Kajaki HPP had been prolonged due to continued insurgent activities.

The Breshna Kot Substation diesel generators as of this report date have a combined generating capacity of 23.5 MW at peak due to new units either provided by or installed by USAID. These units consist of the 10.5 MW MTU units, 6.5 MW of aged KTA-50 units and 6 MW provided by aged QSK-60 units. The new 10.5 MW MTU units were installed and commissioned by the KHPP.

1.2 KHPP Summary of Scope of Work

The KHPP scope of work initially contained six (6) Components with ten (10) Sub-Components, outlined below, which, integrated with other work on SEPS, were designed with the purpose of increasing and improving the sustainability and reliability of electric supply provided by the SEPS:

Component 1. Improve Kandahar power distribution system

- Sub-Component 1: Replace the Kandahar Breshna Kot Substation
- Sub-Component 2: Refurbish Kandahar City Medium Voltage (MV) Distribution System
- Sub-Component 3: Construct a new Kandahar East Substation to (1) enhance the reliability of the system serving Kandahar and (2) to serve as a receiving point for an expected link between the SEPS and the North East Power System (NEPS) which is Afghanistan's major source of lower cost imported power from the Central Asian Republics)
- Sub-Component 4: Construct a transmission line between the Kandahar Breshna Kot Substation and the new Kandahar East Substation.
- Sub-Component 5: Replacement of Aged Diesel Generators at the Breshna Kot Substation

Component 2. Build Durai Junction Substation

- Sub-Component 1: Build a new substation at Durai Junction
- Sub-Component 2: Procure equipment for additional substations

Component 3. Program Support and Program Management

Component 4. Transportation, installation, operation and maintenance of Kandahar (also known as Shorandam) Industrial Park Diesel Power Plant (also known as SIPD).

Component 5. Rebuild the Kajaki Dam Substation and local distribution system

Component 6. Installation and commission Kajaki Unit 2

- Sub-Component 1: Perform inventory assessment of Government Furnished Equipment (GFE)
- Sub-Component 2: Repair GFE, provide missing and additional new equipment for completing Kajaki Unit 2 installation
- Sub-Component 3: Install and commission Kajaki Unit 2

USAID issued the KHPP contract to Black & Veatch Special Projects Corp. (BVSPC) to provide engineering, procurement, construction, and all material, equipment and/or services necessary to successfully complete each of the Components and Sub-Components in accordance with the requirements of the contract.

BVSPC was tasked to develop appropriate engineering design and construction methodologies, and be responsible for procurement, design, construction, quality control, testing and commissioning, and to provide relevant warranties for each Component and Sub-Component and the support services needed to implement those activities (security, life support, ground and air movements, etc.). One of the key deliverables of the KHPP was sustainability of the infrastructure being developed. Drawing from previous Operation and Maintenance (O&M) training programs that BVSPC implemented on behalf of USAID through the Afghanistan Infrastructure Rehabilitation Program (AIRP), BVSPC was required to recommend the training and skills development needed to sustain the efforts undertaken in this contract. In addition BVSPC was to provide spare parts' inventory necessary for DABS to perform the required operation and maintenance of installed equipment in each Component and its Sub-Component. These recommendations were in select instances to be submitted to USAID prior to initiation of the respective subcomponent and were to be based on the BVSPC assessment of the capability and intent of the recipient to carry out required operations and maintenance functions.

As KHPP was implemented the security situation in the Southern Region of Afghanistan changed. The region was impacted by significant increases in anti-government activity in 2011 to 2012 as the GIRoA, with International Security Assistant Force (ISAF) support increasingly imposed GIRoA control over the region. As a result, companies and organizations that were willing to work in the region significantly increased their pricing to accommodate higher risk by adding a "risk premium" to their standard pricing and to accommodate higher security costs. The unexpected cost increases impacted all implementing agencies from KHPP to USACE which diminished the collective capability of all agencies involved to meet initial objectives. Recognizing that budgets would not allow delivery of all Components and Sub-Components, BVSPC, in concert with USAID, reviewed the KHPP program to determine what adjustments could be made to maximize original program objectives within fixed budgets. The review resulted in the realignment and descoping of select project activities. The net result was the descoping of Sub-Components 1.3, construction of a new Kandahar East Substation and 1.4, construction of a transmission line between the Kandahar Breshna Kot Substation and the new Kandahar East Substation.

The elimination of the substation at Kandahar East and the transmission line was accompanied by a realignment of Sub-Component 1.5, the placement of 14 MTU generators at the Kandahar East location. With the implementation of the USACE "bridging solution" in Kandahar City, which added two (2) 10 MW diesel plants operating in separate island modes, and the elimination of the Kandahar East to BK transmission line, the location of the 14 MTU units which were to be centralized at Kandahar East Substation was suspended until further assessment could be



accomplished. After the adjustment of scope, six (6) Components remained with eight (8) Sub-Components.

1.3 KHPP Contract Evolution

Table 1 provides a history of the changes that have occurred in the Prime Contract between BVSPC and USAID as the needs and demands to adjust due to changing ground conditions in order to maximize benefits to the people of Afghanistan evolved.

Table 1: History of Changes in USAID Contract No. 306-C-00-11-00506-00

Contract	Date	Description
Initial Contract Award	09 Dec 2010	This contract will support US Agency for International Development (USAID), Afghanistan Mission's Kandahar Power Initiative (KPI)
Contract Modification 01	1 Feb 2011	The purposes of this modification was to add the following in section H, Special Provisions/Special Contract Requirements to the listed contract as follows: <ul style="list-style-type: none"> • Use of Synchronized Pre-deployment and Operational Tracker (SPOT) for Contractors Supporting a Diplomatic or Consular Mission Outside the United States (Supplement to FAR 52.225-19) • Serious Incident Reporting in Afghanistan and • Gender Integration Requirements
Contract Modification 02	17 Mar 2011	The purposes of this Modification was to: <ul style="list-style-type: none"> • Revise Section B.5 "Indirect Cost" based on BVSPC latest approved NICRA for FY2010. • Revise Section H.22 "Consent to Subcontracts" to incorporate the approved Subcontracting Plan dated February 28, 2011 • Change the project name from "Kandahar Power Initiative (KPI)" to "Kandahar Helmand Power Project (KHPP)"
Contract Modification 03	27 Jun 2011	The purposes of this Modification was to: <ul style="list-style-type: none"> • Incorporate the following clause: The contractor shall comply with and adhere to all USAID Afghanistan Implementing Partner Notices. Copies of the notices are provided to implementing partners at the time of issuance. Copies are also available upon request from your Cognizant Contracting Officer. • Remind the contractor of the recently issued Implementing Partner Notice No. OAA-IP- 2011 – 004 which incorporates Mission Order No. 201.04 entitled, "National Security Screening (Non- US Party vetting)".
Contract Modification 04	17 Jul 2011	The purposes of this Modification was to: <ul style="list-style-type: none"> • Incorporate no cost changes in the sections C and F • Incorporate the FAR Clause 52.209-9 under PART II – CONTRACT CLAUSES. SECTION I – CONTRAT CLAUSES
Contract Modification 05	19 Jul 2011	The purpose of this Modification was to provide funding in the amount of [REDACTED] thereby bringing the total obligated amount to
Partial Suspension of Work	09 Aug 2011	Partial Suspension of Work affecting: <ul style="list-style-type: none"> • Component 1, Subcomponent 3 • Component 1, Subcomponent 4 • Component 1, Subcomponent 5 • Component 4
Change Order – Scope of Work	08 Sep 2011	SOW Changes affecting: <ul style="list-style-type: none"> • Component 1, Subcomponent 3 • Component 1, Subcomponent 4 • Component 1, Subcomponent 5 • Component 4
Change Order – Amendment 01	20 Sep 2011	Changes affecting: <ul style="list-style-type: none"> • Component 1, Subcomponent 3
Change Order – Amendment 02	22 Sep 2011	Changes affecting <ul style="list-style-type: none"> • Component 1, Subcomponent 5 - Diesel Generators



Change Order – Amendment 03	01 Oct 2011	Changes affecting <ul style="list-style-type: none"> • Component 1, Subcomponent 5 – Diesel Generators • Extension of the Submission Deadline
Change Order – Amendment 04	13 Oct 2011	Changes affecting <ul style="list-style-type: none"> • Component 1, Subcomponent 5 – Diesel Generators
Change Order – Amendment 05	16 Oct 2011	Changes affecting <ul style="list-style-type: none"> • Component 1, Subcomponent 5 – Diesel Generators
Change Order – Amendment 06	22 Oct 2011	Changes affecting <ul style="list-style-type: none"> • Component 1, Subcomponent 5 – Diesel Generators
Contract Modification 06	12 Nov 2011	The purposes of this Modification are to: <ul style="list-style-type: none"> • Provide incremental funding in the amount of [REDACTED] thereby increasing the total obligated amount from [REDACTED] to [REDACTED] • Revise Section B.5 “Indirect Cost” based on BVSPC’s approved provisional rates for FY2011 • Revise Sections C, F and J.
Change Order – Scope of Work	06 Feb 2012	SOW Changes affecting <ul style="list-style-type: none"> • Component 1, Subcomponent 1 • Component 1, Subcomponent 5
Contract Modification 07	26 Sep 2012	The purposes of this Modification are to: <ul style="list-style-type: none"> • Provide incremental funding in the amount of [REDACTED] thereby increasing the total obligated amount from [REDACTED] to [REDACTED] • Modify PART I-THE SCHEDULE I. SECTION B-SUPPLIES OR SERVICES AND PRICE/COSTS, paragraph (c)
Contract Modification 08	29 Sep 2012	The purposes of this Modification are to: <ul style="list-style-type: none"> • Provide incremental funding in the amount of [REDACTED] thereby increasing the total obligated amount from [REDACTED] to [REDACTED] • Modify PART I-THE SCHEDULE I. SECTION B-SUPPLIES OR SERVICES AND PRICE/COSTS, paragraph (c)
Contract Modification 09	30 Sep 2012	The purposes of this Modification are to: <ul style="list-style-type: none"> • Correction to Modification 8 to Provide incremental funding in the amount of [REDACTED] thereby decreasing the total obligated amount from [REDACTED] to [REDACTED] • Provide incremental funding in the amount of [REDACTED] thereby increasing the total obligated amount from [REDACTED] to [REDACTED]
Partial Suspension of Work	28 Jan 2013	Partial Suspension of Work affecting: <ul style="list-style-type: none"> • Component 6, Subcomponent 3
Contract Modification 10	14 Feb 2013	The purposes of this Modification are to revise Sections B, C, F, H, I, J and contract attachments.
Contract Modification 11	29 Sep 2013	The purpose of this modification was to extend the period of performance from 30 September 2013 to 31 December 2013, revise budgets and to clarify deliverables in multiple sections
Contract Modification 12	24 Dec 2013	The purpose of this Modification was to add Subcomponent 6.4, Technical Assistance to USAID on Kajaki Unit 2 on budget implementation until 30 November 2015 and to extend all remaining SUBCOMPONENT to 28 February 2014.

See **Attachment m-03** for the documentation listed in the table above.

Throughout the implementation of KHPP, the key to effectiveness has been to maintain flexibility to meet new opportunity to enhance program impact as the theatre of operations in Southern Afghanistan changed. In partnership with USAID, BVSPC

maintained significant flexibility and adjusted as needed and directed to deliver significant benefit to the people served by the SEPS.

The following provides an updated Closeout Report for Component 1 Sub-Component 3: Construct a new Kandahar East Substation. This SUBCOMPONENT was descoped and a Closeout Report was filed with USAID on 19 June 2012 (Letter No. KHPP-0619-2012) and accepted by USAID on 8 August 2012 (Letter No. OAA-BVSPC-00175). This update is provided solely for the purpose of having in file uniform Closeout Reports for all Components and Sub-Components.

2 COMPONENT 1 SUB-COMPONENT 3: CONSTRUCT A NEW KANDAHAR EAST SUBSTATION

2.1 Objective

The objectives of Subcomponent 1.3 were to (1) enhance the reliability of the electric system serving Kandahar and to (2) serve as a receiving point for an expected link between the SEPS and the North East Power System (NEPS), which is Afghanistan's major source of lower cost imported power from the Central Asian Republics.

2.2 History

The Kandahar East Substation was conceived as a critical component in needed to allow the NEPS-SEPS connection. As conceived it would provide the first new substation which would eventually become a 110kV ring around Kandahar to enhance the supply and reliability of electric supply to Kandahar City and the surrounding region. The activities originally detailed in this Subcomponent were started under the Afghanistan Infrastructure Rehabilitation Program (AIRP) in which BVSPC was a partner. Under the AIRP BVSPC had undertaken significant efforts at USAID direction in assessing the SEPS and its needs if it was to more reliably and effectively serve Kandahar and Helmand Provinces. When KHPP was initiated the Kandahar East Substation project was allocated to KHPP.

As part of the KHPP the Kandahar East Substation was to be located on land adjacent to the closed Cotton Factory (also known as the Russian Power Plant compound) on the northeast outskirts of Kandahar City. The land area was owned by the Government of the Islamic Republic of Afghanistan under the control of the Ministry of Commerce and Industry (MOCI). The MOCI provided significant assistance and ultimately facilitated the conveyance of the Grant of Use of the land for the purposes of KHPP and long term use by Da Afghanistan Breshna Sherkat (DABS) for facilities that would be placed on the land. The Grant of Use signed by the MOCI, DABS, the Ministry of Finance and the Government of the Province of Kandahar provided KHPP control of 367,652 square meters or 183.83 Jeribs of land for use (see **Attachment d-01**). As KHPP was initially structured the land was to also serve as the site for the following:

- Kandahar East Substation
- Kandahar East Generating Station (SUBCOMPONENT 1.5)



- KHPP Regional Camp
- KHPP Lay Down and material and equipment receiving and marshalling areas for all Components and Sub-Components
- KHPP helicopter pad

The Kandahar East Substation was descoped in contract number 306-C-00-11-00506-00, Modification No. 06, as of November 10, 2011. (**See Attachment m-03**) The termination came about due to reconsideration of cost of other SUBCOMPONENT and a review of where the KHPP funding could produce the maximum benefits to its overall COIN objectives. This occurred as the cost of all infrastructure projects in southern Afghanistan inclusive of KHPP, USACE and other Donors' projects began being impacted by significant risk adders to cost due to the security issues in the region. A realignment of the direction of available funds and reconsideration of timing of all projects to enhance the SEPS led to the view that Kandahar East could be postponed and then resurrected at a future period under another mechanism.

2.3 Component 1 Sub-Component 3: Task and Deliverables Modifications and Change Order History

Table 2 indicates, by date, USAID Task and Deliverables modifications to SUBCOMPONENT 1.3. The final Tasks and resulting Deliverables agreed between USAID and BVSPC following modifications and change orders are provided in **bold** within Table 2.

Table 2: Component 1, Subcomponent 3 - USAID Contract Modification History

Source & Date	Task	Change & Date
Original Contract 09-Dec-10	Task i: Construct the new substation using breaker and a half configuration. The new substation shall have a total of twelve (12) feeders rated at 20KV. Substation shall be located within the perimeter of the Russian Power Plant Compound.	Suspension of Scope 09-Aug-11
Partial Suspension of Work Letter 09-Aug-2011	Task i: Effective the date of this letter, the Contractor shall suspend: Component 1 Subcomponent 3 (Construct new Kandahar East Substation): All activities to include current de-mining work and previously consented trench and berm subcontract	Deleted 08-Sep-11
Change Order – SOW of Work Changes 08-Sep-11	Task i: Delete Component 1, Subcomponent 3: Construct the New Kandahar East Substation, tasks i-iv. This includes but is not limited to any remaining de-mining work as well as consent for the Trench and Berm subcontract provided via letter no. OAA-BVSPC-2011-00193 dated July 24, 2011.	Amendment Added 20-Sep-11
Change Order Amendment 1 20-Sep-11	Task i: Item 1 of the referenced Change Order directed the Contractor to delete Component 1, Subcomponent 3. Construct New Kandahar East Substation. This order remains in effect, except for the following, The Contracting Officer hereby directs BVSPC to proceed with the procurement, receipt, and storage of the below listed equipment for the Kandahar East Substation: <ul style="list-style-type: none"> • Three (3) 11 0/20kV transformers • Six (6) SF6110 kV circuit breakers • Three (3) 20 kV metal clad switchgear units 	Added to Contract 12-Nov-13
Contract	Delete Subcomponent 3, tasks i-iv and insert the following in lieu thereof:	Equipment



Modification 06 12-Nov-13	Subcomponent 3: Equipment for Kandahar East Substation Tasks i. Procure, receive and store the below listed equipment: <ul style="list-style-type: none"> • Three (3) 110/20kV transformers • Six (6) SF6110kV circuit breakers • Three (3) 20kV metal clad switchgear units 	Procurement moved to Component 2 Subcomponent 2 14-Feb-13
Contract Modification 10 14-Feb-2013	This Subcomponent was de-scoped, with the exception of switchgear procurement now under (Component 2 Subcomponent 2), with the requirement that the Contractor <u>provide a close out report</u>.	
Original Contract 09-Dec-10	Task ii: Install associated equipment including surge arrestors, circuit breakers, current transformers, voltage transformers, protective relays, meters, auxiliary transformers, site fences, and lighting shall be of the same manufacture as equipment provided for work item 1, Renovation of the Breshna Kot Substation.	Suspension of Scope 09-Aug-11
Partial Suspension of Work Letter 09-Aug-2011	Task ii: Effective the date of this letter, the Contractor shall suspend: Component 1 Subcomponent 3 (Construct new Kandahar East Substation): All activities to include current de-mining work and previously consented trench and berm subcontract	Deleted 08-Sep-11
Change Order – SOW of Work Changes 08-Sep-11	Task ii: Delete Component 1, Subcomponent 3: Construct the New Kandahar East Substation, tasks i-iv. This includes but is not limited to any remaining de-mining work as well as consent for the Trench and Berm subcontract provided via letter no. OAA-BVSPC-2011-00193 dated July 24, 2011.	
Original Contract 09-Dec-10	Task iii: Install substation's control system, protective relay system, metering system, and control room boards shall use the same design philosophies and assumptions as those used for similar systems provided for Subcomponent 1, Renovation of Kandahar Breshna Kot Substation.	Suspension of Scope 09-Aug-11
Partial Suspension of Work Letter 09-Aug-2011	Task iii: Effective the date of this letter, the Contractor shall suspend: Component 1 Subcomponent 3 (Construct new Kandahar East Substation): All activities to include current de-mining work and previously consented trench and berm subcontract	Deleted 08-Sep-11
Change Order – SOW of Work Changes 08-Sep-11	Task iii: Delete Component 1, Subcomponent 3: Construct the New Kandahar East Substation, tasks i-iv. This includes but is not limited to any remaining de-mining work as well as consent for the Trench and Berm subcontract provided via letter no. OAA-BVSPC-2011-00193 dated July 24, 2011.	
Original Contract 09-Dec-10	Task iv: The design of the substation will provide space to accommodate for possible 220-400kV connection to the Northeast Power System (NEPS).	Suspension of Scope 09-Aug-11
Partial Suspension of Work Letter 09-Aug-2011	Task iv: Effective the date of this letter, the Contractor shall suspend: Component 1 Subcomponent 3 (Construct new Kandahar East Substation): All activities to include current de-mining work and previously consented trench and berm subcontract	Deleted 08-Sep-11
Change Order – SOW of Work Changes 08-Sep-11	Task iv: Delete Component 1, Subcomponent 3: Construct the New Kandahar East Substation, tasks i-iv. This includes but is not limited to any remaining de-mining work as well as consent for the Trench and Berm subcontract provided via letter no. OAA-BVSPC-2011-00193 dated July 24, 2011.	
Source & Date	Deliverables	Change & Date
Original Contract 09-Dec-10	Deliverable 1: Construction and commission of new substation completed	Deleted

Contract Modification 06 12-Nov-13	Subcomponent 3 was deleted in its entirety.	
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2.4 Milestones

Table 3 provides the milestone events applicable to Component # which were scheduled and achieved by the dates provided.

Table 3: Component 1, Subcomponent 3: Milestone Events Scheduled and Achieved

Milestone	Original Schedule	Date
Contract Award, including Subcomponent 1.3	9 December 2010	
Partial Suspension of Work Letter Issued		9 August 2011
Change Order Issued: Scope of Work Change Deleting Subcomponent 1.3 from contract		08 September 2011
Closeout Report Filed for Subcomponent 1.3		19 June 2012
Closeout Report Accepted by USAID		8 August 2012 (USAID Letter No. OAA-BVSPC-2012-00175) (Attachment m-05)

2.5 Deliverables

As descoping applied to Component 1 Subcomponent 3, the contract deliverables were eliminated. Table 4 provides the deliverables applicable to Component 1 Sub-Component 3, the method by which their delivery was to be verified and the location in appendices of documentation of the Deliverable.

Table 4: Component, 1 Subcomponent 3: Contract Deliverables

ACTIVITY NO.	DELIVERABLE	METHOD OF VERIFICATION	STATUS	ATTACHMENT
1	Final Conceptual Design of Kandahar East Substation	Document Review	Completed	(USAID Letter No. OAA-BVSPC-2012-00175) d-02

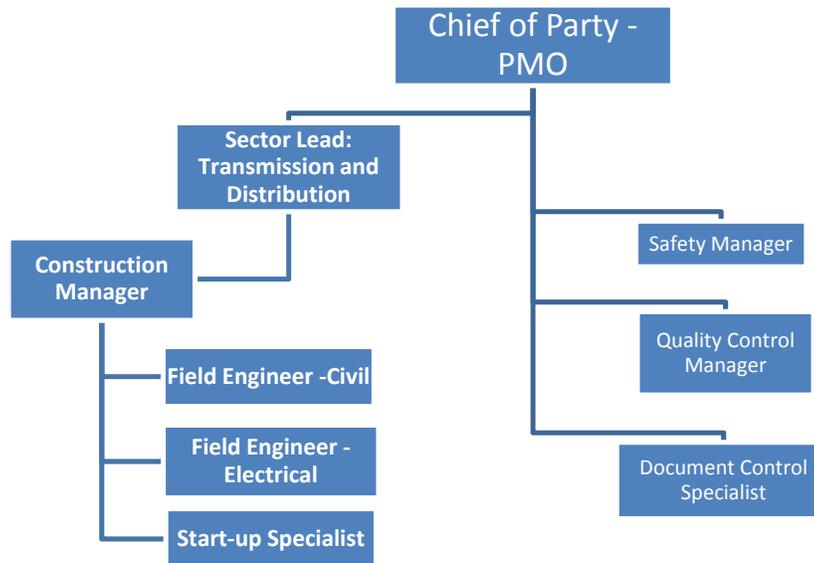
3 PROJECT EXECUTION

3.1 Organizational Structure and Management Details

Chart 1 below provides the organizational structure applied to the implementation of Component 1 Sub-Component 3.

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Chart 1: Organizational Structure of Component 1 Sub-Component 3



3.1.1 Sector Lead – T&D

The Sector Lead was to be based at the KHPP Regional Camp office co-located with the East Substation. The Sector Lead assumed the overall responsibility for Subcomponent 1.3 implementation scope, schedule and budget and was responsible for all related subcontract management, client coordination and reporting, correspondence, invoice approval, mobilization of personnel, approval of home office personnel applied to Subcomponent 1.3 and other project management activities in coordination with KHPP Program Management.

3.1.2 Construction Manager (Never mobilized)

The Construction Manager would have reported directly to the T&D Sector Lead and was to be based at the KHPP Regional Camp. The Construction Manager was to be responsible for the execution of the project scope of work within schedule. Additional responsibilities included; implementation of DABS training for and oversight and assistance in the operation and maintenance of the facility during construction, budget and cost control, ensuring daily activities are in documented and reported in accordance with the Project Execution Plan, and the coordination of work effort with KHPP Program Management resources, Sector Lead, Contracting Officer Representative (COR) and DABS officials located in Kandahar and Kabul.



3.1.3 Field Engineer Civil (Never Mobilized)

The Field Engineer Civil would have reported directly to the Construction Manager and was to be based at the KHPP Regional Camp. The Field Engineer was to be responsible for the execution of the civil works of the project. Additional responsibilities included; implementation of DABS training for and oversight and assistance in the operation and maintenance of the facility, civil design review to completion, ensuring daily activities are reported and in accordance with the schedule and the Project Execution Plan, and the coordination of work effort with KHPP Program Management resources.

3.1.4 Field Engineer Electrical (Never Mobilized)

The Field Engineer Electrical would have reported directly to the Construction Manager and was to be based at the KHPP Regional Camp. The Field Engineer was to be responsible for the execution of the electrical works of the project. Additional responsibilities included; implementation of DABS training for and oversight and assistance in the operation and maintenance of the facility, electrical design review to completion, ensuring daily activities are reported and in accordance with the schedule and the Project Execution Plan, and the coordination of work effort with KHPP Program Management resources.

3.1.5 Safety Manager (Under Program Management Organization – CLIN 3)

The Safety Manager would have reported directly to the Construction Operations Manager and was to be based at the KHPP Regional Camp. The Safety Manager was to be responsible for the safe execution of the project scope of work. Additional responsibilities included; assistance with Job Hazard Analysis (JHA) as required. Training of DABS staff in Safety and Health as part of oversight and assistance in the operation and maintenance of the facility, Safety and Health Inspections of the Work Site and ensuring daily activities are in accordance with the KHPP Safety Plan and the coordinating work effort with KHPP Program Management resources. On site Safety Management was by design to be undertaken daily by local Afghan Staff trained and overseen by the Safety Manager.

3.1.6 Quality Control (QC) Manager (Under Program Management Organization – CLIN 3)

The Quality Control Manager would have reported directly to the Construction Operations Manager and was to be based at the KHPP Regional Camp. The QC Manager was to be responsible for the execution of the project scope of work in accordance with the Three Phase QA program of the US Army Corps of Engineers, per Prime Contract requirements. Additional responsibilities included; oversight of materials and equipment testing and phased acceptance of completed work as meeting QA Plan requirements. The QC Manager was to maintain daily Inspections of the Work Site and ensure daily work activities are in accordance with the KHPP QC Plan while coordinating work effort with KHPP Program Management as well as USAID on-site inspection resources.



3.1.7 Document Control Specialist (Under Program Management Organization – CLIN 3)

The Document Control Specialist would have reported directly to the KHPP Deputy Chief of Party and was to be based at the KHPP Regional Camp. The Document Control Specialist was to be responsible for the control and proper archiving of all documents and reports applicable to Subcomponent 1.3. The Document Control Specialist would be working on multiple projects at the same time and ensure all staff were following proper filing protocols.

3.1.8 Startup Specialist

The Startup Specialist would have reported directly to the Construction Operations Manager and was to be based at the KHPP Regional Camp. The Startup Specialist was to be responsible for oversight of the startup of the substation. Additional responsibilities included; implementation of DABS training for and oversight and assistance in the operation and maintenance of the facility, ensuring daily activities are reported and in accordance with the schedule and the Project Execution Plan, and the coordination of work effort with KHPP Program Management resources.

3.2 Execution of Work

The execution of the work under Component 1 Sub-Component 3 prior to this subcomponent being terminated achieved the following;

- Development of an EPC RFP document, solicitation of bids and contract negotiations with the selected bidder. **(See Attachment d-02)**
- Request for Consent to award a Firm Fixed Price Subcontract for Engineering, Procurement, and Construction for the new Kandahar East Substation was submitted to USAID on July 14, 2011. Subcomponent termination occurred prior to receiving the consent to subcontract. The RFC document which details all of the activities leading up to the contract termination is provided on the file transfer site noted below. All bidders were notified of the Subcomponent termination. **(See Attachment m-03)**
- A Final Conceptual Design of Kandahar East Substation was also provided in the file transfer site noted below. **(See Attachment a-20)**

As also directed in Modification No. 06, activities to procure three (3) 110/20kV transformers, six (6) SF6 110kV circuit breakers and three (3) 20 kV metal clad switchgear units were re-budgeted to Component 2, Subcomponent 2 of the Contract.

3.3 Subcontracts and Major Procurements

Due to descoping neither subcontracts nor major expenditures occurred within Subcomponent 1.3.or procurements were executed.

3.4 Budget and Expenditures

A summary of Component 1 Subcomponent 3 budget and expenditures is provided in Table 5 below:

Table 5: Component 1, Subcomponent 3 - Financial Summary

	Budget	Costs Incurred Up To Descoping	Remaining Budget*
TOTAL COST (Including Fee)	██████████	██████████	██████████

*Remaining budget was and continued to be part of the overall Component 1 budget as the Prime Contract between BVSPC and USAID was budgeted at a CLIN level.

3.5 Government Property Summary

No government property procured due to subcomponent descoping.

4 PHYSICAL COMPLETION OF THE WORK

Not applicable given descoping.

4.1 Documentation of Completion

Please reference **Attachment m-05**.

4.2 Photo Album

Please reference **Attachment a-09**.

5 SUSTAINABILITY

Not applicable given descoping

6 FINAL SCHEDULE

Not applicable given descoping

7 SECURITY PLAN AND INCIDENT REPORTS

BVSPC operated under a program-wide **Security Plan** (See CLIN 3 Closeout Report **Attachment a-02**) that was managed and coordinated by the BVSPC Security Managers. There were no security incidents affecting Subcomponent 1.3 prior to its descoping.

8 SAFETY AND HEALTH PROGRAMS AND PLAN

BVSPC operated under a program-wide **Health and Safety Plan and Procedures** (See CLIN 3 Closeout Report **Attachment a-04**) that was managed by the BVSPC Health, Safety and Environmental Manager. There was no safety incidents reported under Subcomponent 1.3 prior to descoping. In addition, all key Component personnel successfully completed OSHA 30hr training.



9 QUALITY CONTROL PROGRAM AND PLAN

BVSPC operated under a project-wide **Quality Control Plan** (See CLIN 3 Closeout Report **Attachment a-05**).

10 ENVIRONMENTAL CONTROL

BVSPC operated under a project-wide Environmental Plan (See CLIN 3 Closeout Report **Attachment a-14**). No environmental reports were issued related to Subcomponent 1.3 due to descoping.

11 STATEMENT OF PATENTS, ROYALTIES OR CLASSIFIED MATERIALS

There were no patents, royalties or classified materials obtained or generated under the activities of Subcomponent 1.3 prior to its descoping.

12 VALUE ENGINEERING CHANGES

There were no value engineering changes identified or implemented during the course of the Subcomponent 1.3.

13 ENHANCING BEST PRACTICES (LESSONS LEARNED)

Best practices were applied to the tender development, evaluation, selection of the proposed subcontractor and design which were utilized throughout the implementation period of the KHPP.

14 WARRANTY

No Warranty applies.

15 OUTSTANDING ISSUES

There are no outstanding issues related to the completion of Subcomponent 1.3.

16 CONCLUSION

USAID has determined with the descoping all contractual requirements applicable to this SUBCOMPONENT have been met.

17 DEVELOPMENT EXPERIENCE CLEARINGHOUSE (DEC)

Documents to be submitted to the DEC which result from the implementation of Subcomponent 1.3 are listed below.

1. Final Conceptual Design of Kandahar East Substation.
2. Closeout Report