

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	BPA NO.	1. CONTRACT ID CODE	PAGE 1	OF PAGES 2
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2. AMENDMENT/MODIFICATION NO. One (1)	3. EFFECTIVE DATE 02/03/2011	4. REQUISITION/PURCHASE REQ. NO. N/A	5. PROJECT NO. (If applicable)
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6. ISSUED BY Office of Acquisition & Assistance USAID/Afghanistan American Embassy, Great Massoud Road Kabul, Afghanistan	7. ADMINISTERED BY (If other than Item 6)
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) All Offerors	(X)	9A. AMENDMENT OF SOLICITATION NO. 306-11-0015
		9B. DATED (SEE ITEM 11) 01/28/2011
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 13)

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning one (1) copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required) N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

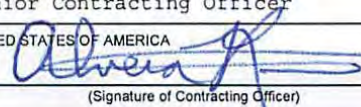
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purposes of this amendment are:

- Section L.9(b) of the solicitation is revised as indicated on the continuation page of this amendment.
- Attachment J.11, Task Order One, is replaced with the attached Attachment J.11 Task Order One, amendment 1.

THE CLOSING DATE AND TIME SHALL REMAIN THE SAME.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) N/A	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Alvera Reichert Senior Contracting Officer
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 2-3-2011

**Continuation Page
Solicitation Amendment 1
Request for Proposal (RFP) 306-11-0015
Energy & Water Indefinite-Quantity Contract (IQC)**

1. Section L.9(b) of the solicitation is revised as follows (addition in bold italics):

(b) Part 2 - Cost Breakdown and Narrative Basis of Estimates: The Offeror must provide sufficiently in-depth numeric and narrative details of the proposed costs/prices ***for task order one*** to allow a complete analysis and understanding of proposed cost. ***Offerors shall provide a priced Bill of Quantities (BOQ) in the format of attachment 1 to Section B of task order one (as amended). Offerors must provide a narrative with their proposal that clearly defines cost that is and that is not included in the fixed unit prices. Offerors must also demonstrate offeror controls that will assure that cost-reimbursement and fixed unit price elements of its cost proposal will be segregated to avoid the potential mixing of cost and mischarging.*** Offeror may also include an executive summary in the cost proposal. The numeric breakdown must follow the instructions and cost breakdown format described at FAR Part 15.408, Table 15-2—Instructions for Submitting Cost/Price Proposals When Certified Cost or Pricing Data Are Required.

ATTACHMENT J.11

TASK ORDER ONE

SECTION B – SUPPLIES OR SERVICES AND PRICE/COSTS FOR KABUL URBAN WATER SUPPLY PROGRAM

B.1 TASK ORDER TYPE AND SERVICES

This is a hybrid Cost-Plus-Fixed-Fee (CPFF) completion type task order with fixed unit prices for all items listed attachment 1 to this section B, Bill of Quantities (BOQ). The Contractor shall complete all the work set forth in this task order at prices consistent with this task order Section B, the BOQ, and the IQC.

B.2 OBLIGATED AMOUNT

B.3 LIMITATION OF COST

B.4 PRICE/COST BREAKDOWN

- a. Total Estimated Cost for completion of all work under this task order is as follows:

Upon award, final task order cost/price breakdowns will be inserted to reflect negotiation based on offeror's proposal.

- b. Bill of Quantities:

(1) Contractor shall provide all items included in the Bill of Quantities at the unit prices listed in the BOQ. Said BOQ is incorporated into this task order as attachment 1 to this Section B and in made a part of this task order. *Upon award, offeror's priced BOQ will be included in the task order.*

(2) Fixed unit price shall include all the Contractor direct and indirect cost, fees, profit and all other costs directly associated with the procurement and installation of the items listed in the BOQ. Said unit prices shall include, but not are limited to, procurement, transportation, storage, and installation cost (including installation subcontractor cost) of the BOQ items. Unit prices will not include Contractor task order management costs such as Contractor management staff labor, facilities, support, security, demining, and other direct cost (ODC) associated with task order and construction management (*definitions of unit price items and cost reimbursement items to be refined at task order award to reflect negotiations based on offeror's proposal*).

B.5 TASK ORDER FIXED FEE

Further to Section B.11 of the IQC, the maximum fixed fee for this task shall be __%. *(to be inserted at task order award)*

B.6 ACCOUNTING AND APPROPRIATION DATA

Budget Fiscal:	<u>(Data to be inserted at award)</u>
Operating Unit:	_____
Strategic Objective:	_____
Team/Division:	_____
Benefiting Geographic Area:	_____
Expanded Object Class Code (EOCC):	_____
Amount Obligated:	_____

(The remainder of this section will be completed on task order award)

[END OF SECTION B]

TASK ORDER ONE

SECTION C – STATEMENT OF WORK FOR KABUL URBAN WATER SUPPLY PROGRAM

C.1 INTRODUCTION

The pipe-water system operated by the Afghanistan Urban Water Supply and Sewerage Company (AUWSSC) covers the needs of less than 20% of the population. The ailing distribution system is highly unreliable and inefficient and the majority of the population obtains water through open wells or hand pumps. Stress on the urban water supply is projected to increase significantly due to extended droughts, rising population numbers and severe ground water contamination resulting from the absence of a functioning waste water disposal system. In view of the current situation, the targeted coverage of 50% of the population of Kabul with pipe-based drinking water and basic sanitation systems by the end of 2010, as foreseen by the Afghanistan National Development Strategy (ANDS), is impossible to achieve.

C.2 BACKGROUND

In 2003, KfW, the German Development Bank, began a feasibility study for expanding and improving the existing water supply network in Kabul. They began with the design of the Short Term Program (STP) in 2005 and construction in 2008. STP which was financed entirely by KfW is currently under construction. The project consisted of ten parts that include:

- Drilled of 17 new wells in the Upper Kabul River (UKR) Logar well fields, access and fencing.
- Upper Kabul well field, collector.
- Mechanical and electrical equipment for the wells, suction tank and pumping station of the UKR well field (extension of Allaudin pumping station).
- Mechanical and electrical equipment for Bagrami pumping station (extension of Bagrami pumping station).
- Replacement of trunk main Allaudin to reservoir A and rehabilitation works at reservoir A.
- Replacement of part of trunk main Bagrami to reservoir O and rehabilitation works at reservoir O.
- Construction of trunk main Allaudin to reservoir F and minor modifications at reservoir F.
- Distribution networks Deh Naw, Parwan 3, and Khosal Mena.
- Distribution networks at extension at Rahman Mena.
- Kabul Utility's Headquarters.

KfW also planned on the expansion of the project with three additional phases as part of their medium term program (MTP). The first section (MTP-1) has been designed and the design of the second (MTP-2) is currently in progress. USAID plans on implementing one section of MTP-1 which includes the wells, pumping station and reservoir E.

Description of Existing Adjacent Works

The existing works which are adjacent to the Logar II Project are described hereinafter briefly. Accurate as-built drawings of any of the existing works are not available. Schedules of operation may change from time to time.

(1) **Logar I Well Field:** The Logar I well field is situated on the western bank of the Logar River and is permanently operated. The well field comprises ten productive wells, LG01 through LG10, of nominal capacity of approximately 40l/s (or 140 m³/h). The wells are linked to the Bagrami Pumping Station by an approximately 1.7 km long well field collector made of welded steel pipe with a diameter ranging between DN 600 and DN 800. The wells are equipped with submersible motor pumps, check valve, gate valve, meter, by-pass (all of DN 150) and a vent. Low Voltage (LV) is supplied to each well; furthermore, stand-by power is generally provided. The section of the existing well field collector with relevance to the Logar II works is the section between wells LG07 and LG10. Within this section the new well field collector shall link wells LG07 and LG10 wells to Logar II pumping station. The relevant parts of the existing well field collector are shown in the drawings which will be included in the solicitation.

(2) **Bagrami Pumping Station:** This pumping station is located in the village of Bagrami about 750 m to the north of the Logar well field at the end of the existing well field collector and is permanently operated. No new works shall take place in this pumping station except if provided under a variation order.

(3) **Trunk Main from Bagrami pumping station to Wazir Akbar Khan:** A DN800 trunk main runs from Bagrami Pumping Station along Bagrami Road in westerly direction. Up to km 3+970 the trunk main consists of welded steel pipes DN 800. At km 3+970 a branch from the trunk main leads to Reservoir O. From km 3+970 the main is considered a principal main and follows initially further westwards along Bagrami Road and then continues along Karte Naw Road until it reaches the crossing with Old Makrayan Road. The diameter of the welded steel pipes along this section is DN 700. From Old Makrayan Road to Mahmad Khan Bridge the diameter of the main is 650mm. Beyond Mahmad Khan Bridge the main runs further northwards towards Wazir Akbar Khan Street. This section has a length of 2.3km and the main consists of welded steel pipes of diameter 550 mm. At Wazir Akbar Khan Street the main branches off in two mains each of diameter DN 450. Connected to this principal main are further principal and local mains of different diameters.

Existing mains with relevance to the Logar II works are situated between the crossing Old Makaryan /Karte Naw Road and the bottom of Wazir Akbar Khan Hill. Within this section the new trunk main runs in parallel to and/or crosses existing mains. The relevant parts of existing mains are shown on the drawings listed as “Supply and Installation of Equipment for Logar II Wells, Pumping Station and Reservoir” MUD-482 Vol. II.

(4) **Logar II wells:** 11 new deep wells were constructed under the previous KfW Contract MUD-472 and completed in mid-2008. Among these new wells, the following wells listed below shall be equipped, connected to the well field collectors and commissioned under the current USAID Contract MUD-482:

The new wells: LG12, LG13, LG14, LG16; LG18, LG19, LG20.

Among the previously existing wells, LG07, LG08, LG09, LG10 shall be equipped, connected and commissioned.

Boundary fences, gates and site grading and fill were completely executed under the same contract MUD-472.

C.3 SCOPE OF WORK

The purpose of this task order is to provide USAID with all necessary equipment, piping, valves, and pumps for the Logar II wells, pumping station and reservoir. The Contractor shall be responsible for all activities, but not limited to, civil, mechanical, electrical, logistics, human resources, life support, all necessary tooling and security required for procurement, erection, testing, and commissioning of the pumping station and the reservoir.

C.4 DETAILED WORK REQUIREMENTS

Detailed work requirements are provided below representing the expected actions necessary to complete the required work. The Contractor shall provide all services and supplies required for successful installation, testing, and activation of all designated equipment per applicable and appropriate international best practices. The Contractor shall conform to the requirements set forth in the designs and specifications listed in "Supply and Installation of Equipment for Logar II Wells, Pumping Station and Reservoir", Volumes I and II, which are hereby attached to this task order and made a part hereof.

The detailed requirements of this work are as follows:

- (1) Prepare detailed method statements, temporary works design, and field drawings including embedded parts for erection of pumps, other mechanical and electrical equipment for USAID review and approval.
- (2) Excavate/trip rock surfaces as needed and complete civil/structural concrete and piping work, foundations for reservoir, wells and pumping station and other equipment.
- (3) Install reservoir E tanks, piping, valves and electrical system.
- (4) Construct the pumping station building and install tanks, pumps, all piping, valves, transformers, generators and all other equipment.
- (5) Construct structures for wells and all pumps, all piping, valves and electrical systems.
- (6) Complete all mechanical, electrical, and civil works.
- (7) Test and commission wells and pumping station for safe and secure operation per relevant and appropriate international best practices.

Additional Requirements:

(1) Contractor shall be responsible for warranty of all design, construction, installation, testing, and commissioning of equipment to accepted international practice for one year after final acceptance of task order work by USAID.

(2) The Contractor shall be responsible for acquiring, erecting and maintaining the necessary areas for the erection of offices, workshops, storage sheds, maintenance facilities, outside storage areas, etc. The Contractor shall be responsible for preparing and surfacing the area and for providing any security fencing, gates and lights that it considers necessary for its facilities.

(3) Site security at the project site and all adjoining facilities must be provided by and is the responsibility of Contractor.

C.5 DELIVERABLES

The detailed program deliverables for this contract are as follows:

C.5(a) Reports

The Contractor shall deliver the following items to the Contracting Officer's Technical Representative (COTR):

(1) Work Plan: The Contractor will submit a Work Plan with an organizational chart 30 days after contract award. The Work Plan will include the following: approach, staffing, mobilization, timeline, life support, logistics, cost control, safety, Quality Assurance/Quality Control QA/QC (internal), contingency plans, and reporting chain.

(2) Schedule: The Contractor shall submit a baseline schedule to include all activities prior to receiving the NTP. Every month the contractor will submit to the COTR an updated schedule showing changes to the baseline schedule. This will be submitted to the COTR in hard and electronic formats (pdf, Word or Excel).

(3) Weekly Report: The Contractor shall submit weekly reports to the COTR on all scheduled activities for the following week. This should explain activities and requirements necessary to complete the work.

(4) Security Plan: The Contractor shall submit a security plan that shows how the contractor will provide security for the project. This is due to the COTR no later than 30 days after contract award.

C.5(b) Technical Deliverables

The technical deliverables required to be submitted to the COTR are as follows:

(1) Method statements for construction of temporary and permanent works, installation of equipment.

(2) Civil designs and drawings for temporary works.

- (3) Pumping station, wells and reservoir installation plans, temporary works design.
- (4) Mechanical and electrical systems including installation plans detailed single line diagrams for review and as built drawings.
- (5) Unit testing and commissioning plans and procedures.
- (6) Unit testing and commissioning reports.
- (7) Operation and Maintenance (O&M) plans, procedures and equipment manuals.
- (8) Incident/accident notification as soon as possible (ASAP) but no later than 24 hours of occurrence.
- (9) Incident/accident reports within 3 days of occurrence.

C.6 QUALIFICATIONS OF KEY PERSONNEL

(a) Program Manager/Chief of Party (PM/COP): The PM/COP shall, at a minimum, have a bachelor's degree in civil engineering, with 15 years' experience in inspection and acceptance of vendor equipment, construction of water works of an equivalent nature and volume, and at least 10 years of relevant experience in conflict and/or post-conflict countries is highly desirable. Demonstrated excellent written and oral communication skills. The PM/COP must have at minimum a BS degree in a field relevant to engineering, construction or management from an accredited college or university.

Position Description: Provide expertise in managing a complex construction programs outside of the United States. The candidate must have the ability to express engineering and scientific judgment clearly and concisely in writing and orally. The PM/COP's management responsibilities will include, as appropriate, coordinating activities with other USAID-supported programs and partners. The PM/COP will be responsible for all USAID required reports and deliverables.

(b) Project Manager/Construction Foreman: The construction foreman shall have at least 10 years experience in construction, inspection, quality assurance, and acceptance of water works construction of an equivalent nature and volume. The Project Manager/Construction Foreman must have at minimum a BS degree in a field relevant to engineering or construction from an accredited college or university.

Position Description: Provides expertise in construction and related construction activities including the selection, installation, rehabilitation, operation and maintenance support, commissioning, and testing of a wide variety of electrical and mechanical equipment. Typical work includes the supervision of construction personnel, construction subcontractors, coordinating multiple construction activities, preparing schedules, cost invoices, and related construction reports. The candidate should have extensive experience and knowledge in concepts, principles and practices of construction and the specific challenges presented in developing countries. The candidate must have the ability to express engineering and scientific judgment clearly and concisely in writing and orally. In addition, the candidate must be able to fulfill the duties of the Program Manager/Chief of Party in their absence.

(c) Electrical Engineer: Of not less than 10 years of experience in water works construction of an equivalent nature and volume including the installation and commissioning of pumping and

control systems. The candidate must have at minimum a BS degree in civil, mechanical, or electrical engineering or a relevant field from an accredited college or university. A Professional Engineering (P.E.) license or equivalent is required for international offerors (non-afghan).

Position Description: Provides expertise in detailed design, application, selection, installation, rehabilitation, operation and maintenance support, commissioning, and testing of a wide variety of electrical equipment. Typical work includes the conceptual design of new electrical systems, pumps, grounding systems, protective devices, transformers, and electrical features for other major electrical equipment.

(d) Mechanical Engineer: Of not less than 10 years of experience in water works construction of an equivalent nature and volume including the installation and commissioning of pumps and mechanical components. The candidate must have at minimum a BS degree in civil, mechanical, or electrical engineering or a relevant field from an accredited college or university. A Professional Engineering (P.E.) license or equivalent is required for international offerors (non-afghan).

(e) Position Description: Provides expertise in analyzing and design of alternatives for pumping equipment as well as other mechanical equipment. Prepare preliminary automated design sketches, contract plans and specifications, and cost estimates for mechanical equipment. Will use design techniques to size and select optimum equipment components for given flows and heads.

(f) Replacement of key personnel cannot be made by the Contractor without the written consent of the Contracting Officer. The listing of key personnel may, with the consent of the contracting parties, be amended from time to time during the course of the task order to add, change, or delete personnel and positions, as appropriate.

C.7 REFERENCES

The Contractor should refer to the design listed as “Supply and Installation of Equipment for Logar II wells, Pumping Station and Reservoir” Volume II listed in the attachments. The specifications for this project can be found in Section VI, Volume I of the “Supply and Installation of Equipment for Logar II wells, Pumping Station and Reservoir” also listed in the attachments.

TASK ORDER ONE

SECTION F – DELIVERIES OR PERFORMANCE FOR KABUL URBAN WATER SUPPLY PROGRAM

F.1 PERIOD OF PERFORMANCE

(a) The estimated period of performance for this Task Order is eight hundred and seventy six calendar days (876).

(b) This task order and notice to proceed will be issued concurrently with contract award.

(c) Liquidated damages will be in the amount of \$1,000.00 per day

F.2 DELIVERABLES/ REPORTS

The Contractor shall promptly notify the Contracting Officer's Technical Representative of any problems, delays, or adverse conditions which materially impair the Contractor's ability to meet the requirements of the contract.

In addition to the requirements set forth for submission of reports and in the AIDAR clause 752.242-70, periodic progress reports (OCT 2007) below, the contractor shall submit the deliverables or outputs to the COTR as specified. Each of the reports shall be submitted electronically and in hard copies (two copies). Electronic versions of the reports shall be submitted using Microsoft Word, Excel, or Portable Document Format, or PowerPoint software. Design drawings shall be prepared in CADD editable software. All reports shall be written in English. All reports and plans are subject to written final approval and acceptance by the COTR.

Reporting requirements and the schedule for delivery are included in attached Table F.1.

F.3 ADDRESS FOR REPORTS

Copies of all reports and other deliverables shall be sent to the COTR.

F.4 TECHNICAL DIRECTION AND DESIGNATION OF RESPONSIBLE USAID OFFICIALS

Contracting Officer and Contracting Officer's Technical Representative (COTR) will be inserted here at the time of task order award.

F.5 PLACE OF PERFORMANCE

Performance of this contract will be in Kabul, Afghanistan. Key personnel will be based in offices located in Kabul.

F.6 PERFORMANCE STANDARDS

Evaluation of the Contractor's overall performance in accordance with the performance standards set forth in Section C will be conducted jointly by the COTR and the Contracting Officer and shall form the basis of the Contractor's permanent performance record with regard to this contract.

- (1) Quality of service/work;
- (2) Results
- (3) Cost control/effectiveness;
- (4) Timeliness of performance;
- (5) Customer satisfaction by USAID;
- (6) Customer satisfaction by End-users; and
- (7) Effectiveness of Key Personnel.

Attachment F.1 Required Reports Table:

Report Name	Frequency	Description
Status Report	Weekly, at the beginning of the week	Short (~ 1-2 pages) report highlighting activities coming over the next week; issues if any and proposed solutions
Schedule	Baseline Schedule due 30 days after NTP, updated schedule due at the beginning of each month	The contractor will provide a schedule showing all major activities and will update monthly to show current progress.
Work plan	30 days after receiving Notice to Proceed (NTP)	Workplan will include the following: approach, staffing, mobilization, timeline, life support, logistics, cost control, safety, Quality Control QA/QC, contingency plans, and reporting chain.
Security Plan	30 days after award.	Description of corporate policy on security. It should include all procedures and measures necessary to implement them. It should explain reporting incident criteria and personnel responsible for its application.
Critical Information Reports	Immediately following incident	The contractor shall report any of the following Critical Information incidents immediately to the COTR or his designee: <ol style="list-style-type: none"> 1. AC/PSC Escalation of Force to include the use of weapons resulting in the death or injury of an Afghan citizen, ISAF, or U.S. service member, other government official, or contractor 2. AC/PSC accidents, traffic or otherwise, resulting in the death or injury of an Afghan citizen, ISAF, or U.S. service member, governmental official, or contractor. 3. Attacks against AC/PSC activities by Anti-Afghan Forces resulting in the death or injury of an Afghan citizen, ISAF or US service member, governmental official, or contractor. 4. AC/PSC Escalation of Force, accidents, or other activities that result in significant damage to Afghan or ISAF vehicles, materials or facilities. 5. Anti-Afghan Force actions including small arms fires

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Amendment 1

		(SAF), RPG fire, indirect fire (IDF), improvised explosive devices (IEDs), and/or complex attacks against AC/PSC activities. 6. Contractor accidental or negligent discharge of a weapon.
Inspection and Equipment test reports	Various as tests are completed	Per specifications pre- and post installation
Concrete strength tests; Steel reinforcements tests reports	Various – per construction schedule	Various details per specifications
Other Project Reporting	As necessary to achieve objectives in the Annual Workplan	The Contractor shall prepare and disseminate, as directed in the Annual Workplan and by the COTR other reports and deliverables needed to accomplish the purpose of the this contract, such as technical reports prepared by in-country staff and short-term consultants, studies of policy and other issues, products, sectors, markets, technologies, etc. Contractor’s format. No page limitation.
As-built construction Drawings	At commissioning	Final CADD drawings of all project drawings including but not limited to detailed layouts, civil, mechanical, and electrical design, erection, and block drawings, single-line and 3-line diagrams structures, and installation sketches.
Close-out Plan	90 days Prior to end of project	The Contractor shall submit a Demobilization Plan for COTR approval. The Demobilization Plan shall include an illustrative Property Disposition Plan, a plan for phase-out of in-country operations, a delivery schedule for all reports and other deliverables required under the contract and a timetable for completing all required action in the Demobilization Plan. Contractor format. No page limitation.
Final Report	30 days after project close-out	The Contractor shall prepare a final report that matches accomplishments to the specific paragraphs of the Scope of Work. The final report will be drafted to allow for incremental improvements in the process, both generally within USAID and specifically with respect to this contract. The report shall describe in summary the following: <ol style="list-style-type: none"> 1. Activities undertaken to achieve the contract objectives. 2. Results achieved as applied to the Statement of Objectives of this contract. 3. Cost of efforts. 4. Problems encountered and solutions undertaken.
Other Project Reporting	As necessary when directed by the COTR	The Contractor shall prepare and disseminate, as directed by the COTR other reports and deliverables needed to accomplish the purpose of the this contract, such as technical reports prepared by in-country staff and short-term consultants, studies of policy and other issues, products, sectors, markets, technologies, etc. Contractor’s format. No page limitation.

Installation of Plant and Material Supplied under Schedule 1.1 and related other Works of Lot 1
Extension of Kabul Water Supply System
MUDH / 482: Supply and Installation of Equipment for Logar II Wells,
Pumping Station and Reservoir and related Civil Works
Lot 1: Logar II Pumping station and Well equipment

1	3	5	6	7	8=(6)x(7)
Item	Description (For detailed description of items please refer to Bill of Specifications)	Unit	Qty.	Unit Price US\$	Total Price US\$
10	SITE INSTALLATION AND PREPARATORY WORKS				
10.01.07	Site installation for works under Contract No. MUDH / 482, Lot 1	lump sum	1		
10.02.07	Fully furnished Engineers office under Contract No. MUDH / 482, Lot 1	lump sum	1		
10.03.07	Provision of site laboratory under Contract No. MUDH / 482, Lot 1	lump sum	1		
10.04.07	Erection of project signboards under Contract No. MUDH / 482, Lot 1	pce.	3		
10.05.07	Preparatory works under Contract No. MUDH / 482, Lot 1	lump sum	1		
	Total Site Installation and Preparatory Works				
	EARTHWORKS AND ROADWORKS				
21	SITE CLEARANCE AND DEMOLITION WORKS				
21.01.01	General site clearance	sq.m	5,720		
21.05.01	Demolition/removal of plain concrete structures	cu.m	6		
21.05.02	Demolition/removal of reinforced concrete structures	cu.m	6		
21.05.03	Demolition/removal of brick or stone masonry structures	cu.m	6		
21.06.01	Demolition/removal of wooden structures of internal space ≤ 10 m³	pce.	6		
21.06.02	Demolition/removal of wooden structures of internal space > 10 m³	pce.	6		
21.06.03	Demolition/removal of brick or stone masonry structures, ≤ 3m above ground level and of internal space ≤ 25 m²	pce.	6		
21.06.04	Demolition/removal of brick or stone masonry structures, ≤ 3m above ground level and of internal space > 25 m²	pce.	6		
21.20.01	Extra over "excavation" items for removal of water pipe not exceeding DN 150	lin. m.	22		
21.20.02	Extra over "excavation" items for removal of water pipe of DN 200 to DN 400	lin. m.	22		
21.20.03	Extra over "excavation" items for removal of water pipe exceeding DN 400	lin. m.	22		
22	EXCAVATION AND BACKFILL				
22.01.01	Stripping of topsoil and stockpiling on site for later re-use	cu.m	1,124		
22.01.02	Stripping of topsoil and stockpiling at aradius fo 5 km on site for later re-use	cu.m	825		
22.01.03	Stripping of topsoil and transport to Contractor's deposit	cu.m	825		
22.02.01	Trench excavation of subsoil to a depth not exceeding 1.75m	cu.m	671		
22.02.02	Trench excavation of subsoil to a depth not exceeding 3.00m	cu.m	4,712		
22.02.03	Trench excavation of subsoil to a depth not exceeding 5.00m	cu.m	11		
22.02.05	Extra over items 22.02.01 thru 04 for transport to a deposit within 20km of site	cu.m	2,471		
22.05.01	Bulk excavation of subsoil for immediate re-use on site or storage on site for later reuse; options (a) & (b)	cu.m	7,004		
22.05.02	Bulk excavation of subsoil and transport to a deposit within 5km from site for later reuse; option (c)	cu.m	2,258		
22.07.01	Trial pit excavation to a depth not exceeding 1.50 m; cross-section of 1.0m x 1.0m	pce.	9		
22.07.02	Trial pit excavation to a depht not exceeding 3.0m; cross-section of 1.5m x 1.5m	pce.	9		
22.07.04	Sounding trench excavation to a depth of 1.50 m and with a width of 0.6m	lin. m.	88		
22.08.01	Transport of material to a site exceeding the distance included in the unit rate of the relevant item	cu.m x km	44,000		
22.10.03	Main backfill with selected excavated material	cu.m	631		
22.11.01	Pipe bedding with imported material	cu.m	441		
22.11.02	Initial backfill with imported fill material	cu.m	1,088		
22.11.03	Main backfill with imported material	cu.m	922		
22.13.01	Extra over item 22.10 for backfill of trenches with concrete C12/15	cu.m	22		
22.14.01	Bulk backfill with excavated material available on site; options (a) and (b)	cu.m	7,004		
22.14.02	Bulk backfill with excavated material from deposit within 5km from backfill site; option (c)	cu.m	0		
22.15.03	Bulk backfill with imported material 0/31 compacted to 95% MDD (AASHTO T 180)	cu.m	4,324		
23	LANDSCAPING WORKS				
23.01.01	Placing of topsoil with stockpiled material	cu.m	1,124		
24	PAVEMENT WORKS				
24.08.02	Construction of granular road sub-base 5/31of thickness between 30and 25cm as per drawing or directed by Engineer	cu.m	3,420		
24.08.04	Construction/reconstruction of asphalt concrete pavement consisting of base course of thickness 70mm, but without wearing course	cu.m	139		
24.08.06	Construction/reconstruction of asphalt concrete pavement wearing course of thickness 40mm on existing base course	cu.m	66		

Attachment 1, Section B

1	3	5	6	7	8=(6)x(7)
Item	Description (For detailed description of items please refer to Bill of Specifications)	Unit	Qty.	Unit Price US\$	Total Price US\$
24.10.02	Construction/reconstruction of concrete tile pavement with new tiles embedded in cemented sand	sq.m	1,980		
24.12.01	Construction/reconstruction of gravel road sub-base 30cm, gravel size 5/31.5	cu.m	1,100		
24.12.02	Construction/reconstruction of gravel road base, 15cm gravel size 2/21	cu.m	3,179		
24.13.01	Construction of coarse pebble bed around buildings 10cm of selected pebbles 50/100	sq.m	1,716		
25	DRAINAGE WORKS				
25.04.01	Laying of PVC-U drain/sewer pipes, OD 110/DN 100	lin. m.	110		
25.04.02	Laying of PVC-U drain/sewer pipes, OD 160/DN 150	lin. m.	418		
25.04.03	Laying of PVC-U drain/sewer pipes, OD 225/DN 200	lin. m.	418		
25.06.01	Construction of inlet chambers of height upto 1,50 m, with gully	pce.	0		
25.06.02	Construction of inlet chambers of height exceeding 1,50 m, with gully	pce.	0		
26	MISCELLANEOUS WORKS				
26.04.12	Construction of DI pipe culverts, DN 300	lin. m.	44		
26.04.16	Construction of DI pipe culverts, DN 400	lin. m.	44		
26.04.18	Construction of DI pipe culverts, DN 500	lin. m.	44		
26.04.20	Construction of DI pipe culverts, DN 600	lin. m.	44		
26.05.01	Construction of masonry headwall for culverts	cu.m	99		
26.06.01	Supply and placing of gabions	cu.m	110		
Total Earthworks and Roadworks					
INSTALLATION OF PIPES AND VALVES					
31	INSTALLATION OF PIPES AND HYDRAULIC EQUIPMENT FOR WELLS, RESERVOIRS AND PUMPING STATIONS				
Applying to wells LG12-LG20:					
31.01.02	Installation of pipes and hydraulic equipment for Wells - Type A - Manifold DN150	pce.	7		
Applying to wells LG07-LG10:					
31.01.03	Installation of pipes and hydraulic equipment for Wells - Type A - Manifold DN150 for LG07, LG08, LG09, LG10 only	pce.	4		
Applying to wells LG12-LG20:					
31.15.01	Installation of riser pipes of DN 150 and accessories of any material and of submersible cables for wells	lin. m.	331		
upon special order only for wells LG07 thru LG10:					
31.15.01	Installation of riser pipes of DN 150 and accessories of any material and of submersible cables for wells	lin. m.	95		
31.16.01	Installation of new well-head to existing bore-holes after removal of existing wellheads	pce	4		
Applying to collector LG18:					
31.30.01	Laying of underground control cables A-2Y(L)Y n pairs 0,8mm ² together with pipe in pipe trench, n<=50	lin. m.	341		
Applying to cables provided and stored as coils on site of pumping station under Contract MUD-481:					
31.31.01	Laying of underground control cables A-2Y(L)Y n pairs 0,8mm ² in separate trench >60cm depth, n<=50	lin. m.	1,078		
31.41.01	Installation of pipes and hydraulic equipment of Suction Tanks of Logar II Pumping Station	lump sum	1		
31.42.01	Installation of pipes and hydraulic equipment for Logar II Pumping Station, suction side	lump sum	1		
31.43.01	Installation of pipes and hydraulic equipment for Logar II Pumping Station, delivery side	lump sum	1		
31.45.01	Installation of pipes and hydraulic equipment of Manhole n° 7	lump sum	1		
31.45.02	Installation of pipes and hydraulic equipment of System points PS001, PS002, PS047	lump sum	1		
35	INSTALLATION OF PIPES, FITTINGS, VALVES & ACCESSOIRES				
35.01.07	Laying of DI pipes in trenches, DN 150	lin. m.	44		
35.01.08	Laying of DI pipes in trenches, DN 200	lin. m.	418		
35.01.10	Laying of DI pipes in trenches, DN 250	lin. m.	244		
35.01.12	Laying of DI pipes in trenches, DN 300	lin. m.	83		
35.01.16	Laying of DI pipes in trenches, DN 400	lin. m.	215		
35.01.18	Laying of DI pipes in trenches, DN 500	lin. m.	39		
35.01.20	Laying of DI pipes in trenches, DN 600	lin. m.	281		
35.01.22	Laying of DI pipes in trenches, DN 700	lin. m.	50		
35.01.24	Laying of DI pipes in trenches, DN 800	lin. m.	74		
35.10.07	Extra over items "laying of pipes in trenches" for installation of any buried valve, DN <200, <PN16	pce.	11		
35.10.08	Extra over items "laying of pipes in trenches" for installation of buried butterfly valve, DN 200, < PN16	pce.	7		
35.10.10	Extra over items "laying of pipes in trenches" for installation of buried butterfly valve, DN 250, < PN16	pce.	1		
35.10.12	Extra over items "laying of pipes in trenches" for installation of buried butterfly valve, DN 300, < PN16	pce.	1		
35.10.16	Extra over items "laying of pipes in trenches" for installation of buried butterfly valve, DN 400, < PN16	pce.	1		
35.10.20	Extra over items "laying of pipes in trenches" for installation of buried butterfly valve, DN 600, < PN16	pce.	2		
35.10.24	Extra over items "laying of pipes in trenches" for installation of buried butterfly valve, DN 800, < PN16	pce.	2		

Attachment 1, Section B

1	3	5	6	7	8=(6)x(7)
Item	Description (For detailed description of items please refer to Bill of Specifications)	Unit	Qty.	Unit Price US\$	Total Price US\$
35.15.01	Installation of indicator plate on wall, complete with numbers and letters	pce.	25		
35.15.02	Installation of marker post and fixing of indicator plate, complete with numbers and letters	pce.	25		
38	DISMANTLING AND STORAGE FOR RE-USE OF PIPES AND HYDRAULIC EQUIPMENT				
38.08.01	Dismantling of above-ground equipment of wells Nos LG-07, LG-08, LG-09, LG-10; transport to Employer's store	per well	4		
	upon special order only for wells LG07 thru LG10:				
38.08.02	Dismantling of pump, riser of wells Nos LG-07, LG-08, LG-09, LG-10; transport to Employer's store	per well	4		
38.08.03	Dismantling of wellhead of wells Nos LG-07, LG-08, LG-09, LG-10; transport to Employer's store	per well	4		
	Total Installation of Pipes and Valves				
	CIVIL WORKS				
40	COMPLETE STANDARD STRUCTURES				
40.20.01	Construction of combined well house and generator room with 1 roof hatch, Drwg.No.STD-1.02 for DN150 equipment	pce.	7		
40.20.04	Construction of operator house incl. exterior toilet, Drwg.No.STD-1.04 & .05	pce.	7		
40.22.02	Construction of a new building for chlorination and agent storage on Logar II pumping station, Drw No.LG II - PS - 3.06	pce.	1		
40.23.01	Construction of a gate house on Logar II pumping station, Drw No.LG II - PS - 3.10	pce.	1		
42	CONCRETE WORKS				
42.01.01	Supply and placing of plain concrete C8/10	cu.m	234		
42.01.02	Supply and placing of plain concrete C12/15	cu.m	61		
42.01.03	Supply and placing of plain concrete C20/25	cu.m	61		
42.01.04	Supply and placing of screed concrete C20/25 with slope	cu.m	101		
42.02	Supply and placing of reinforced concrete	0.00			
42.02.01	Supply and placing of reinforced concrete C25/30 for floor slab or abutments	cu.m	743		
42.02.02	Supply and placing of reinforced concrete C25/30 for walls,	cu.m	875		
42.02.03	Supply and placing of reinforced concrete C25/30 for columns,	cu.m	47		
42.02.04	Supply and placing of reinforced concrete C25/30 for beams and ceiling slabs,	cu.m	407		
42.02.05	Extra over items 42.02.01pp for watertight concrete	cu.m	1,746		
42.02.06	Supply and placing of reinforced concrete C20/25 for floor slab or abutments,	cu.m	55		
42.02.07	Supply and placing of reinforced concrete C20/25 for walls,	cu.m	55		
42.02.08	Supply and placing of reinforced concrete C20/25 for columns,	cu.m	6		
42.02.09	Supply and placing of reinforced concrete C20/25 for beams and ceiling slabs,	cu.m	55		
42.02.10	Supply and placing of pre-cast slabs of reinforced concrete C30/37	cu.m	91		
42.03.01	Supply and placing of ordinary formwork for floor slab or abutments	sq.m	394		
42.03.02	Supply and placing of ordinary formwork for walls	sq.m	3,696		
42.03.03	Supply and placing of ordinary formwork for columns	sq.m	457		
42.03.04	Supply and placing of ordinary formwork for beams, stairs and ceiling	sq.m	2,134		
42.03.05	Extra over items 42.03.01pp for smooth & coated formwork for watertight concrete	sq.m	4,400		
42.03.06	Extra over items 42.03.01pp for smooth & coated formwork	sq.m	1,639		
42.04.01	Supply and placing of reinforcing steel bars BST 220/340	ton	200		
42.06	Brick masonry walls				
42.06.01	Construction of ordinary brick masonry walls one stone thick (ca. 24cm)	sq.m	11		
42.06.02	Construction of ordinary brick masonry walls one-and-half stone-thick (ca. 36cm)	sq.m	11		
42.06.03	Construction of first class, hard-burnt brick masonry walls one stone thick, both sides fair-faced	sq.m	462		
42.06.04	Construction of first class, hard-burnt brick masonry walls one-and-half stone-thick, both sides fair-faced	sq.m	66		
42.07	Natural stone masonry walls				
42.07.01	Supply and construction of ordinary stone masonry walls, thickness over 50 cm	cu.m	22		
42.08	Masonry walls of hollow blocks				
42.08.01	Supply and construction of hollow block masonry walls, thickness 20 cm	sq.m	209		
43	STRUCTURAL STEEL WORKS				
43.01.01	Supply and installation of structural steel works of mild steel plate and profiles, corrosion protected	ton	11		
44	ROOFING AND WATERPROOFING				
44.01.01	Supply and installation of corrugated galvanized steel sheets	sq.m.	655		

Attachment 1, Section B

1	3	5	6	7	8=(6)x(7)
Item	Description (For detailed description of items please refer to Bill of Specifications)	Unit	Qty.	Unit Price US\$	Total Price US\$
44.01.02	Supply and installation of corrugated galvanized steel sheets special pieces for First	lin.m	44		
44.01.03	Supply and installation of corrugated galvanized steel sheets special pieces for gable	lin.m	36		
44.01.04	Supply and installation of corrugated galvanized steel sheets gutter pieces	lin.m	92		
44.01.05	Supply and installation of galvanized steel down pipes incl. Inlet and outlet pieces	lin.m	66		
45	DOORS, WINDOWS, CEILINGS AND PARTITIONS				
45.01	Supply and installation of sliding outside doors of steel plate				
45.01.01	Supply and installation of sliding outside doors of steel plate up to W=4,10m H=4,20 clear dimensions	pce	2		
45.02.01	Supply and installation of double winged outside doors of steel plate W=3,00 H=3,60m clear dimensions (generator room),	pce	1		
45.02.02	Supply and installation of 2 double winged outside doors of steel plate total W=4,80 H=2,70m clear dimensions (transformer bays), but	pce	1		
45.03.01	Supply and installation of single winged outside doors of steel plate W=1,0 H=2,0m clear dimensions	pce	3		
45.06.01	Supply and installation of single winged inside doors of steel plate up to W=1,0 H=2,0 m clear dimensions	pce	9		
45.07	Supply and installation of fixed windows with PVC-frame		0		
45.07.01	Supply and installation of single-panne PVC-frame fixed window	sq.m	55		
45.07.02	Supply and installation of double-panne PVC-frame fixed window	sq.m	6		
45.08.01	Supply and installation of single-pane PVC-frame movable window	sq.m	11		
45.08.02	Supply and installation of double-pane PVC-frame movable window	sq.m	28		
45.10	Supply and Installation of false suspended ceilings of softboard		0		
45.10.01	Supply and installation of suspended ceiling of softboard	sq.m	88		
45.10.02	Supply and installation of sound-proofing suspended ceiling of	sq.m	41		
45.11	Supply and Installation of sound-proofing wall cladding		0		
45.11.01	Supply and installation of sound-proofing wall cladding of softboard	sq.m	176		
46	PLASTERING, TILING, FLOORING; PAINTING				
46.01	Plastering of walls and ceilings with cement plaster	0.00	0		
46.01.02	Prepare inside plaster, 1,5 cm thickness, on walls	sq.m	638		
46.01.03	Prepare inside plaster, 1,5 cm thickness, on ceilings	sq.m	55		
46.02	Tiling of walls and floors with selected ceramic tiles	0.00	0		
46.02.01	Supply and lay tiles on floors	sq.m	33		
46.02.02	Supply and lay tiles on walls	sq.m	72		
46.02.03	Supply and lay beads or wainscots of tiles	lin.m	26		
46.03.01	Construction of floors of cement screed	sq.m	825		
46.03.02	Extra over construction of floors of cement screed on steps of stairs and landings	sq.m	50		
46.04.01	Construction of floors of PVC-tiles	sq.m	66		
46.04.02	Wainscoat of PVC tiles	lin.m	50		
46.06.01	Construction of insulating false floor for 5kN/m2 live load incl. all supports and frames	sq.m	39		
46.07	Painting of inside or outside walls and ceilings	0.00	0		
46.07.01	Painting of inside walls and ceilings with dispersion paint	sq.m	2,090		
46.07.03	Painting of inside walls with oil-proof paint	sq.m	33		
46.08	Preparation of inside and outside silicone joints	0.00	0		
46.08.01	Preparation of silicone joints on inside walls and ceilings	lin.m	110		
46.08.02	Preparation of silicone joints on outside walls and ceilings	lin.m	110		
47	METALWORKS				
47.01	Construction of Steel Guardrails	0.00	0		
47.01.01	Construction of Guardrails	kg	880		
47.02.01	Construction of complete Steel Stairs	kg	1,540		
47.03.01	Construction of complete Steel Ladders	kg	715		
47.04.01	Construction of Vent hood with movable vanes and fly-screen for a 1,0x1,0m inside x-section	kg	990		
47.05.01	Construction of Covers of steel plate with frame for 5kN/m2 live load	kg	385		
47.06.01	Construction of Covers of steel grates with frame, for 5kN/m2 live load	kg	275		
47.07.01	Construction of Fly screens with frame	kg	13		
47.08.02	Construction of air intakes or outlets with movable vanes 2,00 x 0,50m	pce	9		
48	FENCING				
48.01	Fence walls	0.00	0		

Attachment 1, Section B

1	3	5	6	7	8=(6)x(7)
Item	Description (For detailed description of items please refer to Bill of Specifications)	Unit	Qty.	Unit Price US\$	Total Price US\$
48.01.01	Construct fence foundation wall of natural masonry works minimum 50cm wide and 1,0m total height.	cu.m	109		
48.01.02	Construct fence wall of hard burnt bricks 2,0m high above foundation wall, 24cm thick, with columns every 2,5m, 36cm	lin.m	182		
48.02	Wire mesh fence				
48.02.01	Construct wire mesh fence of 1,5m galvanised and plastic-coated mesh	lin.m	0		
48.02.02	Construct wire mesh fence of 2m galvanised and plastic-coated mesh	lin.m	0		
48.03	Steel entrance gates	0.00	0		
48.03.01	Construct double-winged steel entrance gates up to 2,0m high for up to 5,0m span, incl. hinges, locks	pce	9		
48.03.02	Construct single-winged steel entrance gates up to 2,0m high for up to 1,5m span, incl. hinges, locks	pce	2		
	Total Civil Works				
50	INSTALLATION OF MECHANICAL, ELECTROMECHANICAL AND HYDRAULIC EQUIPMENT				
52.01	Installation of complete submersible borehole motor pumps for wells of capacities not exceeding 60kW				
52.01.01	Installation of submersible borehole motor pumps not exceeding 60kW	pce.	7		
	upon special order only for wells LG07 thru LG10				
52.01.01	Installation of submersible borehole motor pumps not exceeding 60kW	pce.	4		
52.09	Installation of horizontal in-line horizontally split large centrifugal pump set item 51.05				
52.09.01	Installation of horizontal in-line horizontally split large centrifugal pump set item 51.05	pce.	3		
54.02.01	Installation of complete surge vessel of capacity 20 m³	pce.	1		
54.03.01	Installation of air compressor of capacity 280 l / min at 15 bar	pce.	1		
56.01.01	Installation of 1 complete chlorination station as described under item 55.01	lump sum	1		
57.02.16	Installation of bulk water meter of Woltmann or IDM type DN400, PN10 or PN16	pce.	1		
57.02.20	Installation of bulk water meter of Woltmann or IDM type DN600, PN10 or PN16	pce.	1		
57.02.22	Installation of bulk water meter of Woltmann or IDM type DN700, PN10 or PN16	pce.	1		
57.07.01	Installation of water level staff gauges.	lin. m.	12		
57.11.01	Installation of ultra-sonic water level sensor/transmitter	pce.	2		
57.09.01	Installation of manometers and its accessories	pce.	8		
58	Cranes and hoists	0.00	8		
58.02.01	Installation of a single girder crane 5t capacity	pce.	8		
	Total Installation of Mechanical, and Hydraulic Equipment				
	INSTALLATION OF ELECTRICAL LOW TENSION EQUIPMENT				
65.10	Installation of Switchcabinets				
65.13.01	Installation of Wells Main switch cabinets for well pumping houses	pcs.	7		
	upon special order only for wells LG07 thru LG10				
65.13.01	Installation of Wells Main switch cabinets for well pumping houses	pcs.	4		
65.14.01	Installation of sub-distribution panels for house installation	pcs.	16		
65.20	Installation of Pump Switch Boards	0.00	0		
65.25.01	Installation of pump switch cabinet for submersible well pumps, 45/32 kW, item 51.01.04	pcs.	7		
	upon special order only for wells LG07 thru LG10				
65.25.01	Installation of pump switch cabinet for submersible well pumps, 45/32 kW, item 51.01.04	pcs.	4		
65.26A.01	Installation of Soft Starter Unit for above pump switch cabinet for pump motor 45/32kW	pcs.	0		
65.31.01	Installation of pump switch cabinet for Logar II Pumping station, pump motor item 51.05.01, 400 kW	pcs.	3		
65.32A.01	Installation of Soft Starter Unit for Motors >=400 kW into a.m. pump switch cabinet	pcs.	3		
65.43	Installation of FAULT alarm	0.00	0		
	upon special order only for wells LG07 thru LG10				
65.43.01	Installation of FAULT alarm for individual switch cabinets of existing wells	pcs.	4		
65.46	Installation of Chlorination Switch Board	0.00	0		
65.46.01	Installation of of Chlorination switchboard	pce.	1		
65.80.	Installation of Monitoring and Communication Equipment				
65.81.01	Installation of monitoring panel item #60.81	pce.	1		
65.82.01	Installation of a complete inside telephone system item #60.82	pce.	1		
65.83.01	Installation of a patch bay item #60.83	pce.	1		

Attachment 1, Section B

1	3	5	6	7	8=(6)x(7)
Item	Description (For detailed description of items please refer to Bill of Specifications)	Unit	Qty.	Unit Price US\$	Total Price US\$
66	INSTALLATION OF GENERATOR SET	0.00	0		
66.02.02	Installation of diesel generator, Item 61.01.02, rated @ 50Hz: 100kVA	pce.	7		
66.03.01	Installation of diesel generator, rated prime / stand-by power @ 50Hz: 1350 / 1485 kVA	pce.	1		
67	INSTALLATION OF CABLES AND WIRES	0.00	0		
67.01	Installation of Cables and Wires	0.00	0		
67.01.02	Install underground cable NYCWY 4 x 70SM/35 sqmm	lin. m.	360		
	upon special order only for wells LG07 thru LG10:				
67.01.02	Install underground cable NYCWY 4 x 70SM/35 sqmm	lin. m.	140		
67.01.06.1	Install underground cable NYY-J 5 x 16 sqmm,	lin. m.	200		
67.01.06.2	Install underground cable NYY-J 5 x 10 sqmm,	lin. m.	440		
67.01.07.1	Install underground cable NYY-J 5 x 6 sqmm, above ground incl. galva steel duct, or below ground incl. PVC-U duct	lin. m.	300		
67.01.07.2	Install underground cable NYY-J 5 x 4 sqmm, above ground incl. galva steel duct, or below ground incl. PVC-U duct	lin. m.	300		
67.01.08	Install underground cable NYY-J 3 x 2,5 sqmm incl. galvanised steel pipe and joint boxes for wall lights	lin. m.	440		
67.01.09	Install control cable NYSLYÖ 4 x 1 sqmm, flexible, oil resistant control cable according DIN 57250,	lin. m.	0		
67.01.10	Install underground cable A-2Y(L)Y 10x2x0,8 for underground	lin. m.	300		
67.01.11	Install underground cable NYY 4 X 240 sqmm	lin. m.	500		
67.01.12	Install underground cable NYY 1 x 300 sqmm	lin. m.	500		
67.01.20	Install underground cable NYY-J 10 x 1,5 sqmm incl. galvanised steel pipe and joint boxes for wall lights	lin. m.	200		
67.02	Installation of Cables and Wires for submerged installation	0.00	0		
	Remuneration for installation of submerged cables and wires is to be included in items 31.01 or 31.02				
67.03	Installation of cables termination material	0.00	0		
67.03.02	Installation cable joints for connection to the pump motor-fixed underwater cable	pcs.	12		
67.03.03	Installation cable termination and distribution box, thermoplast, for 16 cable NYY 1 x 300 sqmm	pcs.	12		
68.01	General Electrical House Installation				
68.01.04	Installation of typical electrical installation for well site acc. to Drawing STD-3.01	pcs.	7		
68.01.05	Installation of typical electrical installation for well room Type A and B acc. to Drawing STD-3.02,	pcs.	7		
68.01.07	Installation of typical electrical installation for operator house acc. to Drawing 3.04	pcs.	11		
68.01.11	Installation of general electric installations for Logar II acc. to Drawing LG II - PS - 5.01, Layout plan external works	pcs.	1		
68.01.12	Installation of general electric installations for Logar II Main building acc. to Drawing LG II - PS - 5.02	pcs.	1		
68.01.13	Installation of general electric installations for Logar II Chlorination station acc. to Drawing LG II - PS - 5.03	pcs.	1		
68.01.14	Installation of general electric installations for Logar II Suction tanks, Gate house acc. to Drawing LG II - PS - 5.04	pcs.	1		
69.01	Installation of Building Lightning and Grounding System				
69.01.01	Installation of building lightning and grounding system for well - and generator house	pcs.	7		
69.01.03	Installation of building lightning and grounding system for operator house	pcs.	11		
69.01.04	Installation of building lightning and grounding system for Logar II pump house	pcs.	1		
69.01.05	Installation of building lightning and grounding system for Logar II Chlorination station	pcs.	1		
69.01.06	Installation of building lightning and grounding system for Logar II gate house	pcs.	1		
69.01.07	Installation of building lightning and grounding system for Logar II suction tanks	pcs.	1		
	Total Installation of Electrical Equipment				
71	PLUMBING				
71.01.01	Complete plumbing of Pump house	lump sum	1		
71.03.01	Construction of 2" PE-HD SDR11 water pipeline including all specials	lin.m	290		
71.03.02	Construction of 1 1/2" PE-HD SDR11 water pipeline including all specials	lin.m	150		
71.03.03	Suppply and installation of 2" garden hydrant, buried including surface box	pce.	6		
71.03.04	Construction of 3/4" tap on 1" galvanized pipe 70cm above ground	pce.	4		
71.03.05	Supply and installation of stop valves 1 1/2 " and 2" with spindle extension and surface box	pce.	8		
71.04.01	Complete sanitary installation of Pump house	lump sum	1		
72	HEATING, VENTILATION AND AIRCONDITIONING	lump sum	1		
73	FURNITURE				

Attachment 1, Section B

1	3	5	6	7	8=(6)x(7)
Item	Description (For detailed description of items please refer to Bill of Specifications)	Unit	Qty.	Unit Price US\$	Total Price US\$
73.01.01	Provide complete set of steel furniture to Pumping station	lump sum	1		
74	VOID				
75	MISCELLANEOUS EQUIPMENT				
75.03.01	Provide diesel storage tank of capacity 4,500 liter.	pce.	7		
75.04.01	Provide diesel storage tank of capacity 120,000 liter.	pce.	1		
	Total Plumbing, heating, Ventilation and Miscellaneous Equipment				
91	PROVISIONAL SUMS				
91.06.01	Installation of various additional equipment, Lot 1	P.S.	1		
	Total Provisional sumsInstallation of Electrical Equipment				
	TRAINING PROGRAM				
	Lot 1				
92.01.01	Allowance per man-month of counterpart staff assigned to Contractor by Employer	MM	56		
92.02.01	Lump sum for 3 months training of Operating Agencies's staff as per Special specifications	lump sum	1		
	(Note: The cost shall include all related training expenses, included but not limited to cost of trainers, training materials and facilities, Dari/translaters/interpreters, etc.)				
	Total Training				
	DAYWORK				
99.01.01	Unskilled labour	day	500		
99.01.02	Skilled labour (any)	day	200		
99.01.03	foreman	day	50		
99.01.04	General foreman	day	20		
99.01.05	Surveyour	day	30		
99.01.06	Driver for vehicles not exceeding 10 tons gw	day	20		
99.01.07	Driver for vehicles exceeding 10 tons gw	day	20		
99.01.08	Driver for vehicle up to 10 tons	day	20		
99.01.09	Operator for excavator, front loader, or crane	day	30		
99.01.10	Operator for tractor with dozer blade or ripper	day	30		
99.01.11	Operator of grader an other large road construction equipment	day	30		
99.02.01	Cement, ordinary Portland, or equivalent in bags	t	10		
99.02.02	High tensile steel reinforcing bar up to 16 mm diameter	t	10		
99.02.03	Selected aggregate for concrete	cu.m.	50		
99.02.04	Sand for any purpose	cu.m.	50		
99.02.05	Natural gravel	cu.m.	250		
99.02.06	Hard burnt bricks of size [indicate]	1000 pces	30		
99.02.07	Natural stones for masonry	cu.m.	100		
99.02.08	Steel pipes	t	10		
99.02.09	Structural steel profiles	t	10		
99.02.10	Shaft rings, diameter 1,0m, RCC thickness 10cm, h = 50cm	piece	50		
99.02.11	PVC drain pipe diameter 200mm	m	100		
99.02.12	PVC drain pipe diameter 300mm	m	100		
99.03.01	Excavator, 0,4m3, not less than 70kW	day	10		
99.03.02	Excavator, 0,7m3, not less than 90kW	day	10		
99.03.03	Excavator, not less than 70kW with compressor hammer, incl. Compressor	day	10		
99.03.04	Frontloader, 0,4m3, not less than 40kW	day	10		
99.03.05	Frontloader, 0,8m3, not less than 70kW	day	10		
99.03.06	Grader	day	10		
99.03.07	Tanker truck 15m3	day	10		
99.03.08	Generator 50kVA	day	10		
99.03.09	Generator 100kVA	day	10		
99.03.10	Compressor for 4 chipping hammers	day	10		
99.03.11	Electric welding equipment	day	10		

Attachment 1, Section B

1	3	5	6	7	8=(6)x(7)
Item	Description (For detailed description of items please refer to Bill of Specifications)	Unit	Qty.	Unit Price US\$	Total Price US\$
99.03.12	Gas welding equipment	day	10		
99.03.13	Dewatering pumps 50m3/h	day	10		
99.03.14	Dewatering pumps 100m3/h	day	10		
99.03.15	Roller compactor, heavy 70kW	day	10		
99.03.16	Roller compactor, light	day	10		
99.03.17	Plate compactor	day	10		
99.03.18	Bulldozer not less than 100kW	day	10		
	Total Daywork				
4.1	TOTAL				