

## Request for Proposals (RFP)

**Solicitation No.**        **RFP #AUWS000510**  
**Title:**                    **Provision of Electrical, Generator & Pump Maintenance Technicians**

RFP Distribution..... April 1, 2021  
Date and Time for Questions regarding RFP..... April 8, 2021, 5 pm Kabul time  
Date for responses to Questions..... April 14, 2021,\*  
Deadline for Submission of Proposals..... April 20, 2021, 5 pm Kabul time  
Proposal Evaluation..... April 25, 2021,\*\*

*\*DT Global AUWS reserves the right to adjust and /or extend question response time as necessary*

*\*\* DT Global AUWS reserves the right to adjust and/or extend the evaluation period, as necessary.*

DT Global, the implementer of the Afghan Urban Water and Sanitation (AUWS) under USAID Contract No. **72030619C00003**, invites your firm to submit a proposal for **Provision of Electrical, Generator & Pump Maintenance Technicians** as described in Attachment I “Statement of Work (SOW).”

The period of performance for this project is anticipated to be **one (1) year** commencing on/about **May 01, 2021 and ending on/about April 30, 2022**. The period of performance requires the level of effort from the supplier that is capable to deliver the SOW requirements, goods, and services with minimum expected duration. The issuance of a subcontract is subject to availability of funds, successful negotiation of the subcontract terms and budget, and reception of USAID’s Contracting Officer subcontract consent, if required. The Contract resulting from this award is envisioned to be a Firm Fixed Price (FFP) subcontract.

DT Global encourages your organization to indicate its interest in this procurement by submitting a proposal in accordance with the instructions in Attachment II “Instructions to Offerors”. Proposals will be evaluated based on the evaluation criteria established in Attachment III of this solicitation. An award will be made to the Offeror whose proposal represents the best value to the project after evaluation in accordance with the criteria stated in the solicitation.

To be considered under the solicitation process, the Offeror should submit a complete proposal by the means indicated herein no later than the closing date and time indicated above. Offerors should ensure that the proposals are well written, easy to read and follow, and contain only the requested information.

Proposals should be submitted **electronically** via email to:

Procurement Team via Email: [auws.quotation@auwsaf.com](mailto:auws.quotation@auwsaf.com)

**The solicitation number above must also be mentioned in the subject of the email.**  
All questions relating to this solicitation must be submitted **electronically** via email to:

Procurement Team at [auws.quotation@auwsaf.com](mailto:auws.quotation@auwsaf.com), no later than **April 8, 2021, at 5 p.m. Kabul time**. Unless otherwise notified by an amendment to this RFP, no questions will be accepted after this date. No questions/clarifications will be entertained if received by means other than the specified email address. The solicitation number should be stated in the subject. If you are planning to submit a proposal, it is imperative to confirm receipt of this solicitation by email to [auws.quotation@auwsaf.com](mailto:auws.quotation@auwsaf.com) to be included on the solicitation mailing list to receive answers to questions and any future amendment(s).

Proposals must be submitted separately via two different emails. The first email shall include the technical proposal as an attachment and should be named “Technical Proposal” and the second email shall include the cost/business proposal and should be named “Business Proposal.” **DO NOT COMBINE** and bidders must follow the instructions to Offerors at Attachment II.

Attachments:

- Attachment I Statement of Work
- Attachment II Instructions to Offerors
- Attachment III Evaluation Criteria
- Attachment IV Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment
- Attachment V Prime Contract Flow-Down Clauses

Sincerely,

Amy Ubana  
Finance and Operations Director

## **ATTACHMENT I STATEMENT OF WORK**

### **Purpose:**

DT Global Inc./AUWS (“**the Company**”) seeks services of firm(s) to provide three (3) technicians for the Afghanistan Urban Water Supply and Sewerage Corporation (AUWSSC) Strategic Business Units (SBUs) to assist Operations and Maintenance crews (O&M) in the development of practical training plans, on-site supervision/ follow up on components of O&M activities, as well as the review and updating of relevant O&M procedures and reporting as part of capacity-building efforts for AUWSSC/ SBU operations workers. Based upon the review and evaluation of proposals offered in response to this RFP, the Company may at its sole discretion negotiate and enter into contracts with one or more successful Bidders. As such there will be no volume commitment for the services to be delivered under this RFP by the shortlisted Bidder.

The Company reserves the right to accept or reject any or all bids from a specific or multiple Bidders for any reason at any time. The Company also reserves the right at its sole discretion to select or reject any or all Bidder(s) in this process and will not be responsible for any direct or indirect costs incurred by the Bidders in this process.

Proposals submitted may be reviewed and evaluated by any person at the discretion of the Company’s internal evaluation team, including independent consultants retained by the Company for the sole purpose of obtaining evaluations to proposals. Bidders may be asked to further explain or clarify areas of their proposal including technical specifications in writing during the evaluation process.

### **Background:**

DT Global Inc. is a fast-growing international development organization that focuses on improving the capability, capacity, and effectiveness of development programming in complex global environments. Working across a variety of sectors – including Economic Growth, Environment & Infrastructure, Governance, Human Development, and Stabilization & Transition - we provide world class program management, design, analysis, and monitoring and evaluation services.

Built on the strengths, knowledge, and 50+ years of experience from AECOM International Development, Development Transformations, and the Global Peace and Development Charitable Trust, we have a global ecosystem – including a non-profit partner, the DT Institute – working together to develop cutting edge solutions to the world’s most pressing challenges. With corporate offices in the USA, Spain and Australia, in addition to project field offices in over 90 countries around the world, DT Global implements projects funded from a wide array of clients, including USAID, EU, DFAT, NC, MFAT, DFID and other public and private stakeholders. We value learning, research, and rapid program adaptation in response to changing realities on the ground. Together with our global team of experts, we are building technical capabilities across sectors in order to deliver high-quality interventions and transform lives around the world. For more information please see: [DT Global](http://DTGlobal.com).

DT Global Inc. is currently implementing the USAID-funded Afghan Urban Water and Sanitation (AUWS) activity. USAID’s AUWS activity aims to provide technical assistance to the Afghanistan Urban Water Supply and Sewerage Corporation (AUWSSC) and the Afghan government to increase

access to urban water and sanitation services for residents in six Afghan cities including Zaranj city. The USAID Afghan Urban Water and Sanitation Activity aims at strengthening the capacity of the AUWSSC Headquarters (HQ) and six Strategic Business Units (SBUs), and the Ministry of Urban Development and Land (MUDL) to expand and improve access to sustainable water and sanitation services through an integrated program of assessment, planning, capacity building, and infrastructure and equipment support.

The objective of the support being provided by AUWS is to increase access to urban water and sanitation services for residents in the six (6) Afghan cities, including Zaranj city that are serviced by AUWSSC and the Afghan government. Increased access to services may include new access, improved access, or improved service quality. The Afghan Urban Water and Sanitation activity will support AUWSSC at its Kabul headquarters and sub-offices. The specific objectives of this activity are:

1. Increase the technical and operational performance of AUWSSC.
2. Enhance sanitation service delivery and planning; and
3. Improve water and sanitation infrastructure.

To accomplish these objectives, DT Global/AUWS will work directly with AUWSSC and other entities as appropriate, to implement practical interventions; to strengthen existing systems and processes, without creating parallel systems or duplicative interventions. The DT Global/AUWS intended to improve the overall operations of the utility, as well as at the strategic business unit level in the six (6) cities including Zaranj city.

The goal of AUWS is to strengthen the capacity of the Afghanistan Urban Water Supply and Sanitation Corporation (AUWSSC) Headquarters (HQ), six of their Strategic Business Units (SBUs) to expand and improve access to sustainable water and sanitation services through an integrated program of assessment, planning, capacity building, and infrastructure and equipment support.

### **Project Overview and Project Requirements**

The activities are to be conducted in seven (7) regions of Afghanistan, namely in Herat, Jalalabad, Mazar, Kandahar, Kunduz, Kabul and Zaranj.

The Bidder should also demonstrate that it has the financial capability to fulfill the requirements set out in this RFP. Bidders not meeting them or not demonstrating that they do meet them may not receive further consideration during the evaluation process.

All costs shall be rolled into a fixed price and the successful Bidder shall be paid upon delivery and acceptance by the Company of the deliverables.

The proposed visit to SBUs will be three (3) round trips from Kabul with each stay of two weeks in each SBU during the contract period. The list of deliverables/ outputs is available in the TORs.

The technician(s) shall work closely with SBUs technical team to help SBUs in Operation and Maintenance to execute the services and shall be supervised by the program Construction Component team.

With this support, DT Global Inc. requires the services of Technicians for Utility Components Operations & Maintenance and on the job site training for SBU technical staff. For full details of the assignments and responsibilities please refer to the job descriptions attached to this SOW.

### **SCOPE OF WORK:**

The provision for these personnel with required tools and testing equipment will perform the work as described below:

1. Electrical Maintenance Technician
2. Generator Maintenance Technician
3. Pump Maintenance Technician

It is important for Bidders to provide information to demonstrate to DT Global/AUWS and fully understands all required services to satisfy AUWS's requirements.

- If one of the technicians or all three of them shall fail to establish and meet the mentioned conditions for this DT Global Inc./AUWS project, the Bidder is obliged to replace them with other qualified technicians, at similar to or better standard to that originally proposed.
- The Bidder shall make sure that the alternates/ replacements are available in case of any technician is not available due to annual leave, sickness etc.
- Required work tools such as testing equipment, electrical, mechanical toolboxes and safety equipment must be prepared and supplied by the Bidder. The Bidder shall provide the list of aforementioned required tools and equipment as part of its proposal.
- Required heavy equipment such as cranes and heavy lifting and other machineries as required for the job, will be the responsibility of DT Global/AUWS or AUWSSC.
- The successful Bidder is obliged to pass successfully the one-month evaluation process (Probationary). If the successful Bidder fails to meet the contract requirements and conditions, then the Bidder will be asked for corrective action or contract may be terminated.
- Every technician is obliged to prepare a work plan for himself according to his scope of work and prepare a thorough assessment report with inclusion of photos for each site visit.
- Quality of work, accuracy of assessment and data collection, and on time reporting must be ensured and practiced.
- Detailed condition survey of equipment/ components (generators, pumps, electrical components)
  - a. Data collection phase
  - b. Identify equipment/ components conditions phase
  - c. Technical recommendations phase
  - d. Detailed condition reports of components

- Provision of regular training for AUWSSC technicians regarding facilities operations, preventive and corrective maintenance.
- Emergency technical support and other duties as directed.
- Institutional Capacity and Past Performance: the successful Bidder shall demonstrate how it possesses the skills and relevant experience needed to implement and meet the methodological requirements of the project.
  - a. The technician/s should provide training on operating, routine fault finding, fine-tuning and servicing the equipment.
  - b. The technician/s should also provide on the job training on troubleshooting of common problems in the equipment along with indicators and beeps signs.
- Annexes: Mandatory annexes include CVs of the technicians and past performances. *See detailed Terms of Reference (TOR) per position on Annex 3.*
- The proposal shall NOT subcontract to other firms. All work must be performed by the successful Bidder
- The Bidder must have the technical and financial capability to provide the requested qualified technicians and necessary tools.
- The successful Bidder is responsible for safety precautions and hazards insurance.

**DELIVERABLES AND SCHEDULE OF PAYMENT:**
**1. Tasks and Deliverables**

#	Deliverables	Frequency
1	Provide a detailed timelines and schedules of maintenance and visit within one (1) week after the signing of the contract.	One time subject for update
2	Submit weekly, monthly and quarterly reports and updates to AUWS Engineering Team Leader. The report for each SBU shall identify and highlight the main findings, detail of the condition of equipment. Each final report shall also include a list of key data related to the condition of components and recommendations for future maintenance efforts.	Weekly, Monthly Quarterly
3	Provide overall technical guidance and assistance to AUWSSC/ SBU Operation staff. Supervise and coach while tasks are being carried out by AUWSSC personnel.	As necessary
4	Detailed condition survey of equipment/ components (generators, pumps, electrical components).	As necessary
5	Provide training and supervision to AUWSSC operators on routine activities including reports to the AUWS technical team, list of consumable and critical spare parts, their specifications along with prioritization of its quantity and time of procurement – see timelines and schedules	According to the schedule and timelines provided
6	Routine schedule and immediate checks, inspections, fault finding, routine servicing, maintenance, basic repairs, and provision of preventive maintenance service – timelines and schedules	According to the schedule and timelines provided
7	Identify necessary tools required for routine tasks in relation to item no. 6	One time
8	Assist AUWSSC in the review and updating of O&M documentation for such routine activities and reporting requirements for components performance and provide such information to the AUWS Engineering Team Leader.	Monthly
10	Cross-check and sign the reports of completed maintenance activity across the SBUs that were provided by the technician for payment.	Weekly, Monthly and Quarterly
11	Close out report along with necessary advices and report of lessons learned	Once at the end of the contract
12	Submit the final annual report at the end of the contract.	Once at the end of the contract

**Note:** List of equipment e.g. generators, pumps and other electrical components to be used for all training and other activities mentioned in the above table.

## 2. Schedule of Payment

<b>Milest one</b>	<b>Milestone Description</b>	<b>Payment Amount (%)</b>	<b>Completion Dates</b>
1	Submission and Acceptance of First Quarterly Report and Original Invoice	25%	End of first quarter from the notice to proceed
2	Submission and Acceptance of Second Quarterly Report and Original Invoice	25%	End of second quarter from notice to proceed
3	Submission and Acceptance of Third Quarterly Report and Original Invoice	25%.	End of third quarter from notice to proceed
11	Submission and Acceptance of final annual report at the end of the contract and Original Invoice.	25%	End of final quarter from notice to proceed



## **ATTACHMENT II INSTRUCTIONS TO OFFERORS**

### **General Instructions**

These Instructions to Offerors will not form part of the offer or of the Subcontract. They are intended solely to aid Offerors in the preparation of their proposals.

- This is a full and open competition open to all qualified Offeror who possess physical office or workshop and able to carry out the requirements as indicated in the scope of work.
- The proposals, and all corresponding documents related to the proposal must be written in the English language unless otherwise explicitly allowed.
- No costs incurred by the Offerors in preparing and submitting the proposal are reimbursable by DT Global. All such costs will be at the Offeror's expense.
- Proposals and all cost and price figures must be presented in local or Afghan currency. All prices should be net of Afghanistan tax and customs duties. The services provided under this contract are funded by the U.S. Government and shall be exempt from Afghanistan Government taxes, import and other fees, as stipulated in the bilateral agreement between the U.S. Government and Government of Afghanistan. The subcontractor shall obtain prior written approval by DT Global before making any tax or VAT payments. Awards and payments made to Afghanistan firms will be in local currency.
- The Offeror must state in its Proposal the validity period of its offer. The minimum offer acceptance period for this RFP is ninety **(90) days** after closing date of the RFP. Offers with a shorter acceptance period will be rejected. This RFP in no way obligates DT Global to award a subcontract.
- Responsibility Determination: Award shall only be made to "responsible" prospective Offerors. To enable DT Global to make this determination, the Offeror must briefly describe in the Attachment Section of the proposal that it:
  - has adequate financial resources including appropriate insurance coverage to perform the work stated herein, or the ability to obtain them;
  - is able to comply with the required or proposed delivery or performance schedule, taking into consideration all existing commercial and governmental business commitments.
  - has a satisfactory performance record
  - has a satisfactory record of integrity and business ethics
  - has the necessary technical capacity, equipment and facilities, or the ability to obtain them; and;

- is otherwise qualified and eligible to receive an award under applicable laws and regulations.
- **Eligibility of Firms – Source /Nationality:** The authorized geographic code for the source and nationality of the goods, services, and suppliers under the AUWS contract is 937. 937 requires that goods and services be acquired from the United States, cooperating country, and developing countries other than advanced developing countries but excluding any country that is a prohibited source. A full discussion of the source and nationality requirements maybe found at 22 CFR 228. Offerors whose proposals fail to meet the nationality requirements will be considered non-responsive.
- **NDA Section 889 Compliance.** Section 889 of John S. McCain National Defense Authorization Act for Fiscal Year 2019 (NDA) prohibits the U.S. Government and its contractors from (1) procuring or obtaining any equipment, system, or services that uses covered telecommunications equipment or services and (2) enter into a contract (or extend or renew a contract) with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services. A full discussion of the prohibitions can be found at FAR 52.204-25. To be eligible for award the offeror must complete and sign the representation in Attachment IV.
- In addition to the above and to comply with the Afghanistan local laws, Offerors must be licensed and authorized to conduct business in Afghanistan.
- According to Article 72 of Afghanistan Income Tax Law of Islamic Republic of Afghanistan, DT Global must withhold a certain percentage based on gross payment made to the subcontractor and transfer that amount, on behalf of the subcontractor, to the Ministry of Finance’s relevant account. For businesses without a valid business license, 7% of the gross payment to the subcontractor shall be withheld as fixed tax in lieu of the income tax. For those who have a business license 2% will be withheld which will be credited against the Subcontractor’s subsequent tax liabilities. A copy of Offerors’ valid license or registration in Afghanistan is required.
- **Late Offers:** Offerors are wholly responsible for ensuring that their offers are received in accordance with the instructions stated herein. DT Global reserves the right to reject any offer not submitted by the indicated deadline, even if it was late as a result of circumstances beyond the Offeror's control.
- **Modification/Withdrawal of Offers:** Offerors have the right to withdraw, modify or correct their offer after such time as it has been emailed to DT Global; at the email address stated above and provided that the request is made before the RFP closing date.
- **Disposition of Proposals:** Proposals submitted in response to this RFP will not be returned. Reasonable efforts will be made to ensure confidentiality of both Business and Technical Proposals received from all Offerors. This RFP does not seek information of a highly proprietary nature but if such information is included in the Offeror’s proposal, the Offeror must alert DT Global and must annotate the material by marking it “Confidential and Proprietary” so that these sections can be treated appropriately.

- Regardless of the method used in the submission of the proposal, the Technical Proposal and Business Proposal must be kept separate from each other. Technical Proposals **must not** make reference to cost or pricing data in order that the technical evaluation may be made strictly on the basis of technical merit.
- Clarification and Amendment to the RFP:
  - Any question raised regarding this solicitation should be received **no later 5 pm Kabul time on April 8, 2021**. All questions must be **in writing**, emailed to the email address specified in the cover letter. No questions/clarifications will be entertained if they are received by means other than the aforementioned email address. The solicitation number should be stated in the subject line. Responses to questions received will be compiled and emailed to potential Offerors.
- If Offeror intends to submit a proposal in response to this solicitation and wishes to receive any updates thereto, Offeror is encouraged to confirm receipt of this solicitation by email to the email address specified in the cover memo.
- Offeror's email message should state in the subject the solicitation number. Also, the email should include the name of your organization, the name of contact person, email address and telephone number.
- DT Global anticipates that discussions with Offerors will be conducted; however, DT Global reserves the right to make award without discussions. Therefore, it is strongly recommended that Offerors present their best offer as their initial submission.
- DT Global may waive informalities and minor irregularities in proposals received.

### **Submission of Proposal:**

- Proposals must be submitted in an electronic format as an email attachment, sent to the email address specified in the cover letter, no later than the date and time specified in the cover letter.
- **The email should state the solicitation number in the subject line.**
- The file attachment should be in a format that can be opened by one of the following applications: PDF, MSWord, MS Excel, MS PowerPoint. The submission of attachments in any other format may result in disqualifying the offer.
- Please note that the DT Global email server has a limitation of 20MB for the total attachments per single email. It is strongly recommended that the size of ALL attachments per a single email be less than 20MB.
- The technical proposal and business proposals should be submitted in two separate emails. The first should be named **“Technical”** and the second is named **“Cost/Business.”** If the submission will be through several emails, then the emails should be sequentially numbered indicating the total number of emails that will be submitted (example 1/4, 2/4, 3/4 and 4/4).

**Content of Proposal:**

The proposal shall consist of five (5) sections. 1) The Cover Page-Technical, 2) The Technical Proposal, 3) The Cover Page-Cost, 4) the Cost/Business Proposal; and 5) The Attachments

**1. The Cover Page-Technical:**

The cover page should be on the Offeror's letterhead and MUST contain the following information:

- Solicitation Number
- Company's Name:
- Company's Address
- Name of Company's authorized representative
- Telephone No, Cellular Phone #, Email address
- Validity of Proposal
- Signature, Date and time

**2. Technical Proposal:**

The technical proposal shall describe how the Offeror intends to carry out the statement of work. It will also address the Offeror's corporate capabilities to carry out the work and the extent to which the Offeror has a demonstrated ability to provide the required services.

The Offeror will also include the resumes of all proposed personnel. The Offeror shall provide information about past performance implementing similar work globally, and most particularly, in Afghanistan within the last three (3) years. Capacity to undertake the technical and administrative backstopping of all interventions described in the Scope of Work. Offeror should also provide detailed description of existing facilities in Afghanistan.

The technical proposal should be divided into three (3) sections following the same order of the technical evaluation criteria mentioned in Attachment III. Failure to respond to any section will be the basis for disqualification of the Offeror from further consideration.

**3. The Cover Page - Cost/Business:**

The cover page should be on the Offeror's letterhead and MUST contain the following information:

- Solicitation Number
- Company's Name:
- Company's Address
- Name of Company's authorized representative
- Telephone No, Cellular Phone #, Email address
- Total Proposed Price
- Validity of Proposal
- Acceptance of Tax Withholding Statement
- DUNS number (if available) and TIN
- Name and address of Government Audit Agency and name and phone number of the auditor

- A valid business license or Registration Certificate
- Signature, Date and time

#### 4. The Cost/Business Proposal:

As stated earlier, the cost proposal shall be submitted separately from the technical proposal. The budget will present the cost for performing the work specified in this solicitation – *see Annex 1*. At a minimum, the cost proposal will include the following information:

- A detailed cost break-down of the proposed budget to the maximum extent practical using the template provided.
- A detailed and comprehensive budget narrative explaining the basis for the cost estimates for each element included in the budget (e.g. salaries, travel, OTCs, fixed fee, etc).

In accordance with Implementing Partner Notice #OAA-IP-2015-001, all subcontractors are required to utilize the current English version of the National Technical Assistance Salary Scale and Implementation Guideline (NTA) compensation scale, as posted on the Government of the Islamic Republic of Afghanistan (GIRoA), Ministry of Finance website (<http://www.budgetmof.gov.af/index.ph/en/>), as the Local Compensation Plan for all Cooperating Nationals (CCN) employees.

#### 5. Attachments

This section will include any information or document that was not listed in the above sections and the Offeror finds necessary to include in the proposal. In this section, the Offeror will also include the information that will assist DT Global to determine the Offeror's responsibility. The following are required documents to be submitted with the proposal:

- Current copy of the business registration (front and back)
- Proof of good standing with the Afghanistan Revenue Department (ARD)
- Proof that there are no outstanding tax liabilities with the Afghanistan Government that could lead to company being unable to provide services as set out in the RFP
- Updated CV or Resume of Personnel based on the requirements mentioned in this RFP – *See Annex 2*
- Completed and signed NDAA Representation Form (see Attachment IV)

This solicitation in no way obligates DT Global to award a subcontract, nor does it commit DT Global to pay any costs incurred in preparation and submission of a proposal in response to the RFP. Furthermore, DT Global reiterates that it reserves the right to reject any and all offers if such action is in the best interest of DT Global.

### **Instructions for the Preparation of the Cost/Business Proposal**

The subcontract type will be Firm Fixed Price (FFP) Subcontract.

A Firm Fixed Price Subcontract is: An award for the provision of specific services, goods, or deliverables and is not adjusted if the actual costs are higher or lower than the fixed price amount. Offerors are expected to include all costs, direct and indirect, into their total proposed price.

The Offeror must provide a completed budget in the template provided. If an Excel file, it should not be 'read only' or 'protected' The proposal must include any necessary supporting information to substantiate proposed costs. The Offerors must submit a detailed budget narrative that supports and clarifies item for item the cost estimates proposed in its budget. Narratives for the individual cost items must provide a discussion of any estimated escalation rates where applicable. Estimated costs proposed to exceed ceilings imposed by USAID or Federal procurement policy must be fully explained and justified.

DT Global/AUWS reserves the right to request, and have Offeror furnish, a further breakdown of the Agreement Price for accounting and progress payment purposes. This request may be made after the Agreement Price has been finalized with the Successful Offeror.

The Successful Offeror will be responsible for acquiring any, and all license(s), and any/all permits required to perform the Work.

## ATTACHMENT III

### EVALUATION CRITERIA

#### TECHNICAL PROPOSAL EVALUATION

Proposals will be evaluated according to the criteria stated herein. The relative importance of each criterion is indicated by the number of points assigned thereto. A total of 100 points is the maximum possible technical score for each proposal. The evaluation criteria services to (a) identify the significant factors which the Offeror should address in their proposal under each section and (b) set the standard against which all proposals will be evaluated.

<b>Technical Proposal</b>	
<b>Evaluation Criteria</b>	<b>Maximum Points</b>
The contractor possesses a sound financial position and stability.	10
Relevant Experience/ Past performance	30
Personnel qualification in implementing similar activities	15
The technical proposal demonstrates a detailed timetable to achieve the SOW objectives as per the Delivery Schedule.	15
<b>Cost Proposal</b>	
Offerors are requested to submit their best and final offer prices. The cost will be evaluated to determine the best value for the required services.	30

Offerors are reminded that DT Global is not obligated to award a negotiated subcontract based on the lowest proposed cost or to the bidder with the highest technical evaluation score. DT Global will make an award to the bidder whose proposal offers the best value to the DT Global AWUS program considering both technical and cost factors. When competing technical proposals are considered essentially equal then the cost will become the determining factor.

Supply and delivery of Iranian products are not allowed, as is payment for transportation through Iran.

#### COST PROPOSAL EVALUATION

Evaluation scores are not assigned for cost. The review of the cost proposal shall include cost realism. This process will include a review of the cost portion of the Offeror's proposal to determine if the overall costs proposed are reasonable and realistic for the work to be performed, if the cost reflects that the Offeror understands the requirements, and if the costs are consistent with the technical part of the proposal. Cost proposals providing more direct funding towards the program instead of administrative costs will be reviewed favorably in the best value determination. Offerors must use the costing template provided as *Annex 1*.

Evaluation of cost proposals will consider, but not be limited to, the following:

- Cost realism and completeness of cost proposal and supporting documentation.
- Overall cost control evidenced in the proposal such as avoidance of excessive salaries, competitive procurement of subcontracts, excessive cost of management oversight and other costs in excess of reasonable requirements.
- Amount of proposed fee, if any.
- Cost efficiency of proposed Other Direct Costs (ODCs).

Offerors are reminded that DT Global/AUWS is not obligated to award a negotiated subcontract based on lowest proposed cost or to the bidder with the highest technical evaluation score. DT Global will make award to the bidder whose proposal offers the best value to the AUWS activity considering both technical and cost factors. When competing technical proposals are considered essentially equal then cost will become the determining factor.



## ATTACHMENT IV

### REPRESENTATION REGARDING CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT

#### (a) Prohibitions.

Section 889(a) of the John S. McCain National Defense Authorization Act (NDAA) for Fiscal Year 2019 (Pub. L. 115-232) prohibits the U.S. Government and any of its contractors and subcontractors from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system.

#### (b) Definitions:

*Covered foreign country* means The People's Republic of China.

*Covered telecommunications equipment or services* means telecommunications equipment produced by Huawei Technologies Company, ZTE Corporation, Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities)

*Critical technology* means defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations; Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled- (i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or (ii) For reasons relating to regional stability or surreptitious listening; Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities); Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material); Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

*Reasonable inquiry* means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

*Substantial or essential component* means any component necessary for the proper function or performance of a piece of equipment, system, or service.

**(c) Representation.** After conducting a reasonable inquiry Subcontractor represents that it [ ] will or [ ] will not provide covered telecommunications equipment or services to DT Global in the performance of any contract, subcontract, order, or other contractual instrument resulting from this contract. This representation shall be provided as part of the proposal and resubmitted on an annual basis from the date of award.

**(d) Disclosures.** If the Subcontractor has responded affirmatively to the representation in paragraph (c) of this clause, the Subcontractor shall provide the following additional information to DT Global:

(1) List of all covered telecommunications equipment and services offered or provided (Entity name, brand; model number, such as original equipment manufacturer (OEM) number, manufacturer part number, or wholesaler number; and item description, as applicable);

(2) Explanation of the proposed use of covered telecommunications equipment and services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b) of this provision;

**(e) Reporting requirement.**

(1) In the event the Subcontractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Subcontractor is notified of such by a subcontractor at any tier or by any other source, the Subcontractor shall report the information in paragraph (d)(2) of this clause to DT Global.

(2) The Subcontractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Immediately upon such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended. (ii) Within 5 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Subcontractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

**(f) 2<sup>nd</sup> Tier Subcontracts.** The Subcontractor shall insert the substance of this clause, including this paragraph (f), in all 2<sup>nd</sup> Tier subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

**(g) SAM Verification.** The Subcontractor shall regularly review the list of excluded parties in the System for Award Management (SAM) (<https://www.sam.gov>) to identify entities excluded from receiving federal awards for “covered telecommunications equipment or services”.

Contract/Subcontract No.: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Organization: \_\_\_\_\_

## ATTACHMENT V

### PRIME CONTRACT FLOW-DOWN CLAUSES

This Contract will be funded by the U.S. Agency for International Development (USAID) with DT Global implementing this USAID project. Applicable clauses incorporated herein by reference shall have the same force and effect as if they were incorporated in full text. A copy of the full text of each clause may be obtained from <http://www.acquisition.gov/far>, <http://www.usaid.gov/policy/ads/300/aidar.pdf>, or from DT Global 's procurement official. The term "FAR" means Federal Acquisition Regulation. The terms, "Contractor," "Government" and "Contracting Officer" as used in these clauses shall refer to Vendor, DT Global , and DT Global Contract Administrator respectively. In no event shall any provision of this contract or Orders issued against it be construed as allowing the Vendor to appeal directly to or otherwise communicate directly with (USAID) without written consent of DT Global.

NUMBER	TITLE	DATE
FEDERAL ACQUISITION REGULATION (48 CFR Chapter 1)		
52.202-1	DEFINITIONS	NOV 2013
52.203-5	COVENANT AGAINST CONTINGENT FEES	MAY 2014
52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT	SEP 2006
52.203-7	ANTI-KICKBACK PROCEDURES	MAY 2014
52.203-8	CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY	MAY 2014
52.203-13	CONTRACTOR CODE OF BUSINESS ETHICS AND CONDUCT	OCT 2015
52.204-9	PERSONAL IDENTIFICATION VERIFICATION OF CONTRACTOR PERSONNEL	JAN 2011
52.204-10	REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS	OCT 2018
52.204-13	SYSTEM FOR AWARD MANAGEMENT MAINTENANCE	OCT 2018
52.204-14	SERVICE CONTRACT REPORTING REQUIREMENTS	OCT 2016
52.204-25	PROHIBITION ON CONTRACTING FOR CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT.	AUG 2020
52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT	OCT 2015
52.209-9	UPDATES ON PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS	OCT 2018
52.215-2	AUDIT AND RECORDS—NEGOTIATION	OCT 2010
52.215-8	ORDER OF PRECEDENCE--UNIFORM CONTRACT	OCT 1997

	FORMAT	
52.215-10	PRICE REDUCTION FOR DEFECTIVE CERTIFIED COST AND PRICING DATA	AUG 2011
52.215-11	PRICE REDUCTION FOR DEFECTIVE CERTIFIED COST AND PRICING DATA-MODIFICATIONS	AUG 2011
52.215-12	SUBCONTRACTOR COST AND PRICING DATA	OCT 2010
52.215-13	SUBCONTRACTOR COST AND PRICING DATA-MODIFICATIONS	OCT 2010
52.215-19	NOTIFICATION OF OWNERSHIP CHANGES	OCT 1997
52.215-23	LIMITATIONS ON PASS-THRU CHARGES	OCT 2009
52.216-7	ALLOWABLE COST AND PAYMENT	AUG 2018
52.217-8	OPTION TO EXTEND SERVICES	NOV 1999
52.222-21	PROHIBITION OF SEGREGATED FACILITIES	APR 2015
52.222-26	EQUAL OPPORTUNITY	SEP 2016
52.222-29	NOTIFICATION OF VISA DENIAL	APR 2015
52.222-35	EQUAL OPPORTUNITY FOR VETERANS OCT 2015	
52.222-36	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES	JUL 2014
52.222-37	EMPLOYMENT REPORTS ON VETERANS	FEB 2016
52.222-50	COMBATING TRAFFICKING IN PERSONS	MAR 2015
52.223-6	DRUG-FREE WORKPLACE	MAY 2001
52.223-18	ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING	AUG 2011
52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	JUN 2008
52.225-14	INCONSISTENCY BETWEEN ENGLISH VERSION AND TRANSLATION OF CONTRACT	FEB 2000
52.225-19	CONTRACTOR PERSONNEL IN A DESIGNATED OPERATIONAL AREA/SUPPORTING DIPLOMATIC OR CONSULAR MISSION OUTSIDE UNITED STATES	MAR 2008
52.228-3	WORKERS' COMPENSATION INSURANCE (DBA)	JUL 2014
52.228-4	WORKERS' COMPENSATION AND WAR-HAZARD INSURANCE OVERSEAS	APR 1984
52.228-7	INSURANCE--LIABILITY TO THIRD PERSONS	MAR 1996
52.230-2	COST ACCOUNTING STANDARDS	OCT 2015
52.232-18	AVAILABILITY OF FUNDS	APR 1984
52.232-23	ASSIGNMENT OF CLAIMS	MAY 2014
52.232-25	PROMPT PAYMENT JULY 2017) ALTERNATE 1	FEB 2002
52.232-33	PAYMENT BY ELECTRONIC FUNDS TRANSFER-SYSTEM FOR AWARD MANAGEMENT	OCT 2018
52.233-1	DISPUTES (MAY 2014) ALTERNATE 1	DEC 1991
52.233-3	PROTEST AFTER AWARD ALTERNATE I	AUG 1996 JUN 1985
52.233-4	APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM	OCT 2004
52.237-3	CONTINUITY OF SERVICES	JAN 1991
52.242-1	NOTICE OF INTENT TO DISALLOW COSTS	APR 1984
52.242-3	PENALTIES FOR UNALLOWABLE COSTS	MAY 2014

52.242-4	CERTIFICATION OF FINAL INDIRECT COSTS	JAN 1997
52.242-13	BANKRUPTCY	JUL 1995
52.242-15	STOP WORK ORDER ALTERNATE I	AUG 1989 APR 1984
52.243-7	NOTIFICATION OF CHANGES	JAN 2017
52.244-2	SUBCONTRACTS ALTERNATE I (JUN 2007)	OCT 2010
52.244-5	COMPETITION IN SUBCONTRACTING	DEC 1996
52.244-6	SUBCONTRACTS FOR COMMERCIAL ITEMS	OCT 2018
52.245-1	GOVERNMENT PROPERTY	JAN 2017
52.246-25	LIMITATION OF LIABILITY—SERVICES	FEB 1997
52.247-63	PREFERENCE FOR U.S. FLAG AIR CARRIERS	JUN 2003
52.249-14	EXCUSABLE DELAY	APR 1984

### **AIDAR 48 CFR Chapter 7**

752.202-1	DEFINITIONS	JAN 1990
752.209-71	ORGANIZATIONAL CONFLICT OF INTEREST DISCOVERED AFTER AWARD	JUN 1993
752.211-70	LANGUAGE AND MEASUREMENT	JUN 1992
752.222-781	NONDISCRIMINATION	JUN 2012
752.225-70	SOURCE AND NATIONALITY REQUIREMENTS	FEB 2012
752.228-3	WORKERS' COMPENSATION INSURANCE (DBA)	DEC 1991
752.228-7	INSURANCE-LIABILITY TO THIRD PERSONS	JUL 1997
752.228-70	MEDICAL EVACUATION (MEDVAC) SERVICES	JUL 2007
752.245-70	GOVERNMENT PROPERTY-USAID REPORTING REQUIREMENTS	OCT 2017
752.245-71	TITLE TO AND CARE OF PROPERTY	APR 1984
752.7003	DOCUMENTATION FOR PAYMENT	NOV 1998
752.7004	EMERGENCY LOCATOR INFORMATION	JUL 1997
752.7006	NOTICES	APR 1984
752.7008	USE OF GOVERNMENT FACILITIES OR PERSONNEL	APR 1984
752.7009	MARKING	JAN 1993
752.7010	CONVERSION OF U.S. DOLLARS TO LOCAL CURRENCY	APR 1984
752.7011	ORIENTATION AND LANGUAGE TRAINING	APR 1984
752.7013	CONTRACTOR-MISSION RELATIONSHIPS	OCT 1989
752.7014	NOTICE OF CHANGES IN TRAVEL REGULATIONS	JAN 1990
752.7015	USE OF POUCH FACILITIES	JUL 1997
752.7019	PARTICIPANT TRAINING	JAN 1999
752.7025	APPROVALS	APR 1984
752.7027	PERSONNEL	DEC 1990
752.7028	DIFFERENTIALS AND ALLOWANCES	JUL 1996
752.7029	POST PRIVILEGES	JUL 1993
752.7031	LEAVE AND HOLIDAYS	OCT 1989
752.7032	INTERNATIONAL TRAVEL APPROVAL AND NOTIFICATION REQUIREMENTS	APR 2014

752.7033	PHYSICAL FITNESS	JUL 1997
752.7034	ACKNOWLEDGEMENT AND DISCLAIMER	DEC 1991
752.7035	PUBLIC NOTICES	DEC 1991

**EXECUTIVE ORDER ON TERRORISM FINANCING (AUG 2016)**

The Subcontractor/Recipient is reminded that U.S. Executive Orders and U.S. law prohibits transactions with, and the provision of resources and support to, individuals and organizations associated with terrorism. It is the legal responsibility of the subcontractor/recipient to ensure compliance with these Executive Orders and laws. This provision must be included in all subcontracts/sub-awards issued under this subcontract/agreement.

**Annex 1  
Cost Proposal**

<b>Annex 1 : BUDGET TEMPLATE</b>				
<b>Instructions:</b> Please fill out the budget template per the budget lines. The Offeror may add in as many lines as necessary. Any sub-line items included in the template are illustrative and may be changed, renamed, or not used based on the Offeror's proposal. All cells should be unlocked to verify calculations.				
<b>Line Item</b>	<b>Unit Costs</b>	<b>Monthly Cost (AFN)</b>	<b>Total (AFN)</b>	<b>Comments (if needed)</b>
<b>Labor</b>				
Electrical Maintenance Technician	12 months		\$ -	
Generator Maintenance Technician	12 months		\$ -	
Pump Maintenance Technician	12 months		\$ -	
<b>GRAND TOTAL</b>			<b>\$ -</b>	

## Annex 2

### Terms of References

#### **1. Electrical Maintenance Technician**

Project:	Afghan Urban Water and Sanitation (AUWS)
Duty station:	Kabul with frequent travel to provinces
Section/Unit:	Engineering/Construction
Duration:	One-Year
Reports to:	AUWS Construction Team Leader

#### **General Background of Project / Assignment**

The USAID Afghan Urban Water and Sanitation Activity aim at strengthening the capacity of the Afghan Urban Water Supply and Sanitation Corporation (AUWSSC) Headquarters (HQ) and six Strategic Business Units (SBUs) to expand and improve access to sustainable water and sanitation services through an integrated program of assessment, planning, capacity building, and infrastructure and equipment support.

With this support, DT-Global requires the services of Electrical Maintenance Technician for Utility electrical components Operations & Maintenance and on the job site training for SBUs/sub-SBUs technical staff.

Reporting to the AUWS Construction Team Leader, the **Electrical Maintenance Technician** will be responsible for provision of the practical training and supervision for the operation, maintenance, and basic repair of 400-volt portion of bus systems, control panels, distribution panels, junction boxes, wire ways, conduit runs, cable and wire switches, operator stations, relays, plugs, receptacles, soft starter, invertors, etc., and on job site training activity as part of AUWS capacity building initiatives. H/she will also be responsible for coordination with the SBU operation department, in the development of practical training plan, on-site supervision/ follow up on electrical components O&M activities, as well as the review and updating of relevant O&M procedures and reporting as part of capacity-building efforts for AUWSSC/ SBUs & sub-SBU operation workers.

#### **Purpose and Scope of Assignment**

Under the overall guidance and direct supervision of the Construction Team Leader/ technical team members, the Electrical Maintenance Technician will support and enable the team by providing services to operate and maintain electrical equipment to meet Manufacturer's specifications and requirements. The Electrical Maintenance Technician is also providing training to AUWSSC staff on operations, inspection, servicing fault finding and basic repairs to electrical components within SBU/ sub-SBU facilities and transfer of knowledge throughout on job training and practice.

Provide technical support, as direct support to AUWSSC, through DT Global/AUWS, at any location where SBUs electrical equipment are located, to provide on-the-job training and supervision in routine inspections, and maintenance procedures. To develop and update O&M documentation/ checklists in Dari and Pashto languages as appropriate.

The Successful Bidder is to provide a Technician for a period of One Year, experienced in the operation and maintenance of electrical components and similar electro-mechanical equipment



associated with pumps and their electrical control systems. The individual should be a permanent employee of the Contractor, must be able to read, write, and speak in both Dari and Pashto, to undertake the following activities:

- a. Provide training and supervision to AUWSSC operators in routine activities as required by the electrical equipment manufacturer, to comply with all requirements for Warranty, as well as Manufacturer's Documentation and/or Manuals. Activities to include routine checks, inspections, fault finding, and basic repairs. Typical activities to be included are:
  - Adjust controls to generate specified electrical power or to regulate the flow of power between generating stations and substations.
  - Monitor power plant equipment and indicators to detect evidence of operating problems.
  - Control generator output to match the phase, frequency, or voltage of electricity supplied to panels.
  - Control or maintain auxiliary equipment, such as pumps, fans, compressors, condensers, filters, fuel, lubricants, air, or auxiliary power.
  - Record and compile operational data by completing and maintaining forms, logs, or reports.
  - Examine and test electrical power distribution machinery and equipment, using testing devices.
  - Place standby emergency electrical generators online in emergencies and monitor the temperature, output, and lubrication of the system.
  - Clean, lubricate, or maintain equipment, such as generators, pumps, or compressors, to prevent failure or deterioration.
  - Inspect records or logbook entries or communicate with plant personnel to assess equipment operating status.
  - Menu system for collection of data, along with acceptable parameters during routine normal operations.
  - Planning for routine maintenance/servicing activities.
  - Stock control for routine servicing, to include ordering of electrical parts, part numbers, parts descriptions, etc. to be sent to Procurement.
  - Fault finding and typical issues, with solutions.
  - Use of tools during inspections and servicing.
  - Health and safety, and organization of work during inspections and servicing.
- b. To assist AUWSSC in the development of routine O&M documentation/ checklists for such routine activities and reporting requirements for equipment performance.
- c. To ensure that each control panel has a circuit diagram. To inspect respective panels and develop such a diagram if one does not exist.
- d. Identification of necessary electrical parts required for these routine tasks to be performed, for review and procurement by AUWS.
- e. To train AUWSSC technical staff at other offices throughout Afghanistan, in the application and use of these manuals and practical exercises.

- f. Provide instruction at AUWSSC owned repair workshop or similar, of the fundamentals of how an electrical system/control panel functions, names and functions of the various parts, basic operations as defined in the Owner's Manual/circuit diagram, routine inspection, and servicing, and planning for routine maintenance to include basics of stock control/ordering of routine consumables (Circuit breakers, wire, fuse, voltmeter/ amp meter, etc.).

The technician should be equipped with the necessary tools and testing equipment to perform his role. Any specific equipment for the removal of control panels and electrical equipment, such as cranes and lifting equipment, etc., will be provided by AUWSSC, along with consumables required for servicing.

### **Required Training Methodology:**

The AUWSSC technicians require a combination of initial theoretical knowledge along with practical experience. On-job site training shall combine theoretical and practical elements with a clear priority on practical learning including sessions at the SBU's facilities. The technician shall comply with the following training methodology:

- Practical: On-the-job training or hands-on practice to apply the procedures as defined in the manuals
- Demonstration of tasks to be performed including health and safety aspects.
- Supervision of and coaching while tasks are being carried out by AUWSSC personnel.
- Workshop visits for theory instruction, and for demonstration in larger groups (may only be appropriate in Kabul)

#### **a. Qualifications**

- Minimum of an associate diploma/ certificate in Electronic Engineering Technology or related field or equivalent vocational/technical training and experience

#### **b. Experience:**

Minimum of 5 years' experience in the same field

- Electrical inspection and repairs of: Motors, Motor Starters, Running Conduit, wire pulling, and control panels using both 3 phase and single-phase supply.
- Troubleshooting and repair of programmable logic controllers (PLC) and / distributed control systems (DCS) systems
- Supervisory experience including mentoring and training of junior technicians.
- Prior experience in capacity building and training in the inspection, testing, and maintenance of electrical control systems.
- Operate effectively in a team environment.
- Proven electrical and mechanical skills required to include the ability to read electrical info blueprint and electrical schematics, as well as the interpretation of PLC control systems when the PLC logic diagram is not available.
- Experience in repair and troubleshooting of electrical equipment of complex systems would be a plus.
- Prior experience in capacity building and training in the use and maintenance of the electrical system for the water utility.
- Excellent computer competence, including experience with Microsoft Office.
- Writing skills in English, Pashto, and Dari,
- Good written and verbal communication skills

## **2. Generator Maintenance Technician**

Project:	Afghan Urban Water and Sanitation (AUWS)
Duty station:	Kabul with frequent travel to provinces
Section/Unit:	Engineering/Construction
Duration:	One-Year
Reports to:	AUWS Construction Team Leader

### **General Background of Project / Assignment**

The USAID Afghan Urban Water and Sanitation Activity aims at strengthening the capacity of the Afghan Urban Water Supply and Sanitation Corporation (AUWSSC) Headquarters (HQ) and six Strategic Business Units (SBUs) to expand and improve access to sustainable water and sanitation services through an integrated program of assessment, planning, capacity building, and infrastructure and equipment support.

With this support, DT Global requires the services of a Generator Maintenance Technician for Utility generators Operations & Maintenance and on-the-job site training for SBUs/sub-SBU technical staff.

Reporting to the AUWS Construction Team Leader, the **Generator Maintenance Technician** will be responsible for the provision of practical training and supervision for the operation, maintenance, and basic repair of several types of generators (Standby generators) and on job site training activity as part of AUWS capacity building initiatives.

H/she will also be responsible for coordination with the SBU Operations department, in the development of the training plan, on-site supervision/ follow up on generator O&M activities, as well as the review and updating of relevant O&M procedures and reporting as part of capacity-building efforts for AUWSSC/ SBUs & sub-SBUs operation workers.

### **Purpose and Scope of Assignment**

Under the overall guidance and direct supervision of the AUWS Technical Team members, the Generator Maintenance Technician will support and enable the team by providing services to operate and maintain diesel generators to meet the Manufacturer's specifications and requirements. The Generator Maintenance Technician is also providing training to AUWSSC staff on operations, inspection, servicing fault-finding, and basic repairs to diesel generators within SBU/ sub SBU facilities and transfer of knowledge throughout on-job training and practice.

Provide technical support, as direct support to AUWSSC, through DT Global/AUWS, at any location where generators are located, to provide on-the-job training and supervision in operations, routine inspections, and maintenance procedures. To develop and update O&M documentation/ checklists in Dari and Pashto languages as appropriate for the location.

The Successful Bidder is to provide a Technician for a period of One Year, experienced in the operation and maintenance of generators. The individual should be a permanent employee of the Contractor, must be able to read, write and speak in both Dari and Pashto, to undertake the following activities:

- a. Provide training and supervision to AUWSSC operators on routine activities as required by the generator's manufacturer, to comply with all requirements for Warranty, as well as the Manufacturer's Documentation and/or Manuals. Activities to include routine checks, inspections, fault finding, routine servicing, maintenance, basic repairs, and provision of preventive maintenance service and repairs on diesel engine driven generators, Typical activities to be included are:
- Daily inspections both mechanical and electrical, fuel delivery, and connection to the electrical control panel.
  - Capacity load test on batteries.
  - Check battery charger for proper operation.
  - Check the entire cooling system for leaks and brittle hoses, all hose clamps tightened as required.
  - Fan hub lubrication if required.
  - Jacket water heaters checked for proper operation.
  - Engine leaks in the fuel, lubrication, and air inlet. Special attention will to the water pump, turbo-charger, and rear main seal areas.
  - Exhaust condensate trap opened to drain possible water out of the system if applicable.
  - Control wiring checked for chafing, burn marks, and/or loose connections and noted on inspection report.
  - Run for 15 minutes and oil pressure, fuel pressure, charging amps, voltage, and frequency, engine temperature recorded.
  - Resistive Load bank Test.
  - Menu system for collection of data, along with acceptable parameters during routine normal operations.
  - Data recording and reporting.
  - Planning for routine maintenance/servicing activities.
  - Stock control for routine servicing, to include ordering of spares, part numbers, parts descriptions, etc. to be sent to Procurement.
  - Development and use of checklists for routine tasks.
  - Fault finding and typical issues, with solutions.
  - Use of tools during inspections and servicing.
  - Health and safety, and organization of work during inspections and servicing.
- b. To assist AUWSSC in the review and updating of O&M documentation for such routine activities and reporting requirements for generator performance.
- c. Identification of necessary tools required for these routine tasks to be performed, for review and procurement by AUWS.
- d. To train AUWSSC technical staff at other offices throughout Afghanistan, in the application and use of these manuals.
- e. Provide instruction at Company-owned repair workshop or similar, of the fundamentals of how a generator functions, names and functions of the various parts/assemblies, basic operations as defined in the Owner's Manual, routine inspection, and servicing, and planning for routine

maintenance to include basics of stock control/ordering of routine consumables (filters, fluids, etc.).

The technician should be equipped with the necessary tools and testing equipment to perform this role. Any specific equipment for removal of generators, such as cranes and lifting equipment, etc., will be provided by AUWSSC, along with consumables required for servicing.

### **Required Training Methodology:**

The AUWSSC technicians require a combination of initial theoretical knowledge along with practical experience. On-job site training shall combine theoretical and practical elements with a clear priority on practical learning including sessions at the SBU facilities. The technician shall utilize the following training methods:

- Practical: On-the-job training and hands-on practice to apply the procedures as defined in the manuals
- Demonstration of tasks to be performed including health and safety aspects.
- Supervision of and coaching while tasks are being carried out by AUWSSC personnel.
- Workshop visits for theory instruction, and for demonstration in larger groups (may only be appropriate in Kabul, or where large numbers of generators at one SBU).

### **f. Qualifications**

- Minimum of an associate diploma certificate in Industrial Electricity, Mechanical Engineering or related field or equivalent vocational/technical training and experience

### **g. Experience:**

- Minimum of 5 years' relevant experience in generator repair, fault-finding, and servicing of different types of diesel engines and generator sets.
- Professionally trained in: Mechanical engineering, power electronics systems, mechatronic engineering.
- Supervisory experience including mentoring and training of junior technicians.
- Prior experience in capacity building and training in the inspection, testing, and maintenance of generators to 1 MW.
- Technical understanding of synchronized control systems
- Excellent fault finding and diagnostic skills.
- Understanding of Health & Safety regulations
- Manual handling experience and working with automatic refueling systems.
- Excellent communication skills with a flexible, adaptable approach to working.
- Ability to interact well with superiors and subordinates professionally.
- Excellent computer competence, including experience with Microsoft Office.
- Writing skills in English, Pashto and Dari,
- Good written and verbal communication skills

### 3. Pump Maintenance Technician

Project: Afghan Urban Water and Sanitation (AUWS)  
Duty station: Kabul with frequent travel to provinces  
Section/Unit: Engineering/Construction  
Duration: One-Year  
Reports to: AUWS Construction Team Leader

#### General Background of Project / Assignment

The USAID Afghan Urban Water and Sanitation Activity aim at strengthening the capacity of the Afghan Urban Water Supply and Sanitation Corporation (AUWSSC) Headquarters (HQ) and six Strategic Business Units (SBUs) to expand and improve access to sustainable water and sanitation services through an integrated program of assessment, planning, capacity building, and infrastructure and equipment support.

With this support, DT Global requires the services of a Pump Maintenance Technician for Utility electrical water pumps Operations & Maintenance and on-the-job site training for SBUs/sub-SBUs technical staff.

Reporting to the AUWS Construction Team Leader, the **Pump Maintenance Technician** will be responsible for the provision of practical training and supervision for the operation and maintenance and basic repair of several types of pumps (Submersible, centrifugal pumps, Monoblock, etc.), installation/ uninstallation, and on job site training activity as part of AUWS capacity building initiatives.

H/she will also be responsible for coordination with the SUB operation department/s, in the development of training plan, on-site supervision/ follow up on pump O&M activities, as well as the review and updating of relevant O&M procedures and reporting as part of capacity-building efforts for AUWSSC/ SBUs & sub-SBU operation workers.

#### Purpose and Scope of Assignment

Under the overall guidance and direct supervision of the Construction Team Leader, the Pump Maintenance Technician will support and enable the team by providing services to operate and maintain electric pumps to meet the Manufacturer's specifications and requirements. The Pump Maintenance Technician is also providing training to AUWSSC staff on operations, inspection, servicing fault-finding, and basic repairs to electrical pumps within SBU/ sub SBU facilities and transfer of knowledge throughout on-job training and practice.

Provide technical support, as direct support to AUWSSC, through DT Global/AUWS, at any location where pumps and similar electro-mechanical equipment are located, to provide on-the-job training and supervision in routine inspections, and maintenance procedures. To develop and update O&M documentation/ checklists in Dari and Pashto languages as appropriate for the location.

The Successful Bidder is to provide a Technician for a period of One Year, experienced in the operation and maintenance of pumps and similar electro-mechanical equipment associated with pumps and their electrical control systems. The individual should be a permanent employee of the Contractor, must be able to read, write and speak in both Dari and Pashto, to undertake the following activities:

- a. Provide training and supervision to AUWSSC operators in routine activities as required by the equipment manufacturer, to comply with all requirements for Warranty, as well as Manufacturer's Documentation and/or Manuals. Activities to include routine checks, inspections, fault finding, routine servicing, maintenance, and basic repairs. Typical activities to be included are:
- Daily inspections of pump both mechanical and electrical, and connection to the electrical control panel, soft starters, and frequency inverters.
  - Lock and tag out equipment.
  - Record equipment data
  - Check all mounting and flange bolts to ensure proper torque.
  - Check equipment base for soundness.
  - Visual inspection of pump grout for soundness.
  - Check for mechanical seal leaks.
  - Check the condition of oil and grease seals.
  - Check packing for excessive leakage and adjust and/or replace.
  - Make sure all gauges are operational,
  - Remove coupling guard, check alignment, and correct as required.
  - Lubricate coupling assembly as required.
  - Lubricate pump and motor.
  - Change oil on equipment as recommended by OEM.
  - Ensure all auxiliary equipment is functioning properly.
  - Put the unit into service, check bearing temperatures, listen and record any mechanical or hydraulic noise
  - Make a note on the field report of any findings that may require additional work.
  - Data recording and reporting.
  - Planning for routine maintenance/servicing activities.
  - Stock control for routine servicing, to include ordering of spares, part numbers, parts descriptions, etc. to be sent to Procurement.
  - Development and use of checklists for routine tasks.
  - Fault finding and typical issues, with solutions.
  - Use of tools during inspections and servicing.
  - Health and safety, and organization of work during inspections and servicing.
- b. To assist AUWSSC in the development of routine O&M documentation for such routine activities and reporting requirements for equipment performance.
- c. Identification of necessary tools required for these routine tasks to be performed, for review and procurement by AUWS.
- d. To train AUWSSC technical staff at other offices throughout Afghanistan, in the application and use of these manuals.
- e. Provide instruction at Company-owned repair workshop or similar, of the fundamentals of how a water pump functions, names and functions of the various parts/assemblies, basic operations as defined in the Owner's Manual, routine inspection, and servicing, and planning for routine

maintenance to include basics of stock control/ordering of routine consumables (washers, ball bearing, gaskets, etc.).

The technician should be equipped with the necessary tools and testing equipment to perform his role. Any specific equipment for removal of pumps, such as cranes and lifting equipment, etc., will be provided by AUWSSC along with consumables required for servicing.

### **Required Training methodology:**

The AUWSSC technicians require a combination of initial theoretical knowledge along with practical experience. On-job site training shall combine theoretical and practical elements with a clear priority on practical learning including sessions at the SBU facilities. The technician shall comply with the following training methodology:

- Practical: On-the-job training or hands-on practice to apply the procedures as defined in the manuals
- Demonstration of tasks to be performed including health and safety aspects.
- Supervision of and coaching while tasks are being carried out by AUWSSC personnel.
- Workshop visits for theory instruction, and for demonstration in larger groups (may only be appropriate in Kabul, or where large numbers of booster pumps at one SBU).

### **Pump Maintenance Technician Requirements**

#### **f. Qualifications**

- Minimum of an associate diploma/ certificate in Mechanical/ Electronic Engineering Technology or related field or equivalent vocational/technical training and experience

#### **g. Experience:**

- Minimum of 5 years' experience in the same field
- Must have pump repair/ rewinding experience up to 160 kW and/or 450 cu m output capacity.
- Prior experience with KSB, Shakti, Franklin, Grundfos, Singla, Dongyin, CRI, Aquanox pumps, etc.
- Supervisory experience including mentoring and training of junior technicians.
- Machining and welding experience
- Proven mechanical and electrical skills required to include the ability to read a mechanical blueprint and electrical schematics.
- Experience in repair and troubleshooting of electrical, mechanical of complex pumping systems would be a plus.
- Prior experience in capacity building and training in the use and maintenance of electrical water pumps.
- Excellent computer competence, including experience with Microsoft Office.
- Writing skills in English, Pashto, and Dari,
- Good written and verbal communication skills