

Request for Quotations (RFQ)

RFQ Number: RFQ-SWIM-2018-070

Issuance Date: March 20, 2018 / 9:30 a.m. Kabul, Afghanistan local time

Deadline for Quotations: March 29, 2018 / 4:30 p.m. Kabul, Afghanistan local time

Description: Consulting Services on Training in On-Farm Water Management Practices and Supply, Delivery and Installation of Drip Irrigation Systems in 58 demo-plots

For: Strengthening Watershed and Irrigation Management (SWIM)

Funded By: United States Agency for International Development (USAID),
Contract No. AID-306-C-17-00001

Implemented By: AECOM International Development Inc.

Point of Contact: swimcontracts@swimafg.com

Section 1: Instructions to Respondents

Introduction: The Strengthening Watershed and Irrigation Management (SWIM) Project is a USAID program implemented by AECOM International Development Inc. (AECOM) in Afghanistan. The goal of the SWIM project is to support sustainable, agriculture-led economic growth by increasing the sustainable and productive use of water livelihoods, and strengthening water resource management. To support its project activities, SWIM requires a qualified Agriculture Firms to provide training to 6,500 farmers and associations members in On-Farm Water Management (OFWM) techniques and provision, installation and delivery of drip irrigation systems in 58 demo-plots in SWIM five targeted provinces (Balkh, Samangan, Baghlan, Badakhshan and Jawzjan) in north Afghanistan. The purpose of this RFQ is to solicit quotations for these services.

Respondents are responsible for ensuring that their quotations are received by AECOM in accordance with the instructions, terms, and conditions described in this RFQ. Failure to adhere to instructions described in this RFQ may lead to disqualification of a quotation from consideration.

- 1. Submission Deadlines and Instructions:** Quotations must be received no later than 4:30 p.m. Kabul local time on March 29, 2018, by email or hard copy delivery to the SWIM office.

Emailed quotations must be sent to swimcontracts@swimafg.com the subject line of the quotation email must be as follows: RFQ-SWIM-2018-070, OFWM Training and Supply, Delivery and Installation of Drip Irrigation Systems in 58 demo-plots

Hard copy quotations must be stamped and signed by the respondent's authorized representative and delivered in a sealed envelope to the SWIM Office located at the Baron, Kabul Afghanistan.

Please reference the RFQ number in any response to this RFQ. Quotations received after the specified time and date will be considered late and will be considered only at the discretion of AECOM.

2. **Questions:** Questions regarding the technical or administrative requirements of this RFQ may be submitted no later than 10:00 a.m. local Kabul time on March 29, 2018, by email to swimcontracts@swimafg.com. Questions must be submitted in writing; phone calls will not be accepted. Questions and requests for clarification—and the responses thereto—that AECOM believes may be of interest to other respondents will be circulated to all RFQ respondents who have indicated an interest in submitting quotations.

Only the written answers issued by AECOM will be considered official and carry weight in the RFQ process and subsequent evaluation. Any verbal information received from employees of AECOM or any other entity should not be considered as an official response to any questions regarding this RFQ.

3. **Specifications:** Section 3 contains the technical specifications of the required items. All items offered in response to this RFQ must be new and unused.

Please note that, unless otherwise indicated, stated brand names or models are for illustrative description only. An equivalent substitute, as determined by the specifications, is acceptable.

4. **Quotations:** Quotations in response to this RFQ must be priced on a fixed-price, all-inclusive basis, including delivery and all other costs. Pricing must be presented in Afghani.

Quotations must remain valid for not less than thirty (30) calendar days after the RFQ deadline. Respondents are requested to provide quotations using their official quotation format or letterhead; if this is not possible, respondents may complete and submit the table in Section 3 of this RFQ.

In addition, respondents to this RFQ are requested to submit the following:

- Companies responding to this RFQ are requested to submit a copy of their official registration or business license.
 - Individuals responding to this RFQ are requested to submit a copy of their identification card.
5. **Delivery:** The delivery location for the services and equipment described in this RFQ is the five SWIM targeted provinces (Balkh, Samangan, Baghlan, Badakhshan and Jawzjan) of north region of Afghanistan – see below Attachment 4.
 6. **Source/Nationality/Manufacture:** All goods and services offered in response to this RFQ or supplied under any resulting award must meet **USAID Geographic Code** 937 in accordance with the United States Code of Federal Regulations (CFR), [22 CFR §228](#). The cooperating country for this RFQ is Afghanistan.

Respondents may not offer or supply any commodities or services that are manufactured or assembled in, shipped from, transported through, or otherwise involving any of the following countries: Burma (Myanmar), Cuba, Iran, North Korea, (North) Sudan, Syria.

7. **Warranty:** Respondent warrants and implies that all goods and services delivered or provided hereunder to be merchantable and fit for use for the particular purpose described in the contract.

All equipment shall have the standard manufacturer's warranty. Warranty service and repair within the cooperating country is required for all commodities under this RFQ. The warranty coverage must be valid on all commodities for a minimum of twelve (12) months after delivery and acceptance of the commodities, unless otherwise specified in the technical specifications.

- 8. Taxes and VAT:** Respondents must assess and include in the total cost of their quotation the Business Receipt Tax (BRT) or any other tax required by the Afghanistan income tax law. AECOM will not allow an awarded entity to add taxes (including BRT taxes) or any previously unanticipated costs to the budget after an award is made.

Pursuant to Article 72 of the Afghanistan Income Tax Law, AECOM is required to withhold taxes from any gross amount payable to the Supplier. In accordance with this requirement, AECOM will withhold two percent (2%) tax from the Supplier's gross invoices if the Supplier is in possession of an active business license issued by the Ministry of Commerce and Industry, Afghanistan Investment Support Agency (AISA), the Ministry of Information and Culture, the Ministry of Education, or the Ministry of Public Health, at the time it submits invoices to AECOM for payment, and the invoices are successfully reviewed and approved. If the Supplier provides services contrary to those approved by-laws or does not possess a business license issued by these public entities, but possesses licenses issued by other local or national government entities or municipalities, AECOM will withhold a seven percent (7%) fixed tax on the gross amount payable to the supplier, pending review and approval of the supplier's invoices. In either case, whether 2% or 7%, this tax is withheld by AECOM from the gross amount payable to the Supplier and subsequently remitted to the Ministry of Finance. AECOM will maintain records of all such remittances.

- 9. Eligibility:** By submitting a quotation in response to this RFQ, the respondent certifies that it and its principal officers are not debarred, suspended, or otherwise considered ineligible for an award by the U.S. Government. AECOM will not award a contract to any firm that is debarred, suspended, or considered to be ineligible by the U.S. Government.

- 10. Evaluation and Award:** The award will be made to a responsible Respondent whose quotation follows the RFQ instructions, meets the eligibility requirements, and meets or exceeds the minimum required technical specifications, and is judged to be the best value based on a lowest-price, technically-acceptable basis.

Please note that if there are significant deficiencies regarding responsiveness to the requirements of this RFQ, a quotation may be deemed "non-responsive" and thereby disqualified from consideration. AECOM reserves the right to waive immaterial deficiencies at its discretion.

Best-offer quotations are requested. It is anticipated that award will be made solely on the basis of these original quotations. However, AECOM reserves the right to conduct any of the following:

- AECOM may conduct negotiations with and/or request clarifications from any Respondent prior to award.
- While preference will be given to respondents who can address the full technical requirements of this RFQ, AECOM may issue a partial award or split the award among various respondents, if in the best interest of the SWIM Project.
- AECOM may cancel this RFQ at any time.

Please note that in submitting a response to this RFQ, the respondent understands that USAID is not a party to this solicitation and the respondent agrees that any protest hereunder must be presented—in writing with full explanations—to the SWIM Project for consideration, as USAID will

not consider protests regarding procurements carried out by implementing partners. AECOM, at its sole discretion, will make a final decision on the protest for this procurement.

11. Terms and Conditions: This is a Request for Quotations only. Issuance of this RFQ does not in any way obligate AECOM, the SWIM Project, or USAID to make an award or pay for costs incurred by potential suppliers in the preparation and submission of a quotation.

This solicitation is subject to AECOM's standard terms and conditions. Any resultant award will be governed by these terms and conditions.

Section 2: Quotation Checklist

To assist Respondents in preparation of quotations, the following checklist summarizes the documentation to submit a quotation in response to this RFQ:

- ☐ Cover letter, signed by an authorized representative of the Respondent (see Section 4 for template)
- ☐ Official quotation, including specifications of offered equipment and services (see Section 3 for example format)
- ☐ Copy of Respondent's registration or business license

Section 3: Specifications and Technical Requirements

Please see below Scope of Work and Bill of Quantities (Attachment 1 and 2) for Technical and Financial Proposal requirements.

Delivery location for the OFWM Training and Installation of Drip Irrigation Systems in 58 demo-Plots: Please see the Detailed Locations of Demo Plots in attachment 5.

Delivery time of service (after receipt of order): _____ calendar days

SWIM anticipates that the maximum duration of the services under this RFQ will be 84 working days from the date of signing of the Purchase Order.

Section 4: Cover Letter

The following cover letter must be placed on letterhead and completed/signed/stamped by a representative authorized to sign on behalf of the Supplier:

To: Strengthening Watershed and Irrigation Management (SWIM)
The Baron, Kabul

Reference: RFQ-SWIM-2018-070, OFWM Training and Supply, Delivery and Installation of Drip Irrigation Systems in 58 demo-plots

To Whom It May Concern:

We, the undersigned, hereby provide the attached quotation to perform all work and commodities required to complete the activities and requirements as described in the above-referenced RFQ. Please find our quotation attached.

We hereby acknowledge and agree to all terms, conditions, special provisions, and instructions included in the above-referenced RFQ. We further certify that the below-named firm—as well as the firm’s principal officers and all commodities and services offered in response to this RFQ—are eligible to participate in this procurement under the terms of this solicitation and under USAID regulations.

Furthermore, we hereby certify that, to the best of our knowledge and belief:

- We have no close, familial, or financial relationships with any AECOM or Strengthening Watershed and Irrigation Management (SWIM) project staff members;
- We have no close, familial, or financial relationships with any other parties submitting quotations in response to the above-referenced RFQ; and
- The prices in our quotation have been arrived at independently, without any consultation, communication, or agreement with any other supplier or competitor for the purpose of restricting competition.
- All information in our proposal and all supporting documentation is authentic and accurate.
- We understand and agree to AECOM’ prohibitions against fraud, bribery, and kickbacks.

We hereby certify that the enclosed representations, certifications, and other statements are accurate, current, and complete.

Authorized Signature: _____

Name and Title of Signatory: _____

Date: _____

Company Name: _____

Company Address: _____

Company Telephone and Website: _____

Company Registration or Taxpayer ID Number: _____

Does the company have an active bank account (Yes/No)? _____

Official name associated with bank account (for payment): _____

4.2.1: Business detail information

Vendor name per Business License	
Vendor Address:	
Vendor Contact person and Phone Numbers	
Vendor email addresses	

4.2.2. Minimum Terms and Conditions

No	Description/Question	Response
1	Offer Cover letter Did you submit the Offer Cover Letter? See Section 4 for template.	<input type="checkbox"/> Attached <input type="checkbox"/> Not attached
2	Valid Business License and Nature of Business. Only authorized Agriculture Firms/Companies and Consultants are eligible to apply. Vendors in the business of Logistics, Construction or not related to the relevant scope will not be considered.	<input type="checkbox"/> Attached <input type="checkbox"/> Not attached
3	Did you include the cost and specification for each item? The cost should be in AFN	<input type="checkbox"/> Yes <input type="checkbox"/> No
4	Validity of Bid Price: Bids must be valid for at least 30 days. Please choose only one checkbox.	<input type="checkbox"/> 30 Days <input type="checkbox"/> 60 Days <input type="checkbox"/> 90 Days <input type="checkbox"/> Other:
5	Payment Term: Payment will be made to the vendor following completion of each Lot, within 30 business days after the delivery of services and acceptance of invoice. No advance payment is authorized under this procurement. Do you accept these terms and conditions?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attachment 1: Scope of Work
Training in
On-Farm Water Management (OFWM) Practices

Type of Contract: Purchase Order

Expected Starting Date: April 15, 2018

Anticipated Duration: 84 regular working days

Location: North Region, Afghanistan

Background Strengthening Watershed and Irrigation Management (SWIM) is a five-year, USAID-funded program for Afghanistan implemented by AECOM, with a main office in Kabul, Afghanistan, and implementing program office in Mazar-e-Sharif. USAID's Strengthening Watershed and Irrigation management (SWIM) aims to support sustainable, agriculture-led economic growth by increasing the sustainable and productive use of water livelihoods and strengthening water resource management. The project focuses on three components: increase productive and sustainable use of water in agriculture; strengthen the water regulatory framework; and strengthen capacity of local entities to manage water resources. Activities will provide capacity building, technical services, and related resources to support farmers and farm communities as they manage their water and on-farm resources. Also, provide support to USAID's Regional Agriculture Development Programs (RADPN) to increase agricultural water productivity. The SWIM Program's three technical components are:

1. Increased Productive and Sustainable Use of Water in Agriculture;
2. Strengthen the Water Regulatory Framework; and
3. Strengthen Capacity of Local Entities to Manage Water Resources.

Overall Objective: The overall objective of this activity is to train 6,500 farmers and associations members in OFWM techniques. The proposed firm is also required to establish 58 demo-plots in SWIM five targeted provinces (Balkh, Samangan, Baghlan, Badakhshan and Jawzjan) in north Afghanistan based on SWIM specification. This activity includes; designing of a comprehensive training package on OFWM techniques, conducting training to 6500 famers and association members. The firm will also do the procurement of good quality equipment of drip irrigation (Complete package) according to SWIM's specifications including transportation and installation of drip irrigation system in 58 demo-plots in the targeted provinces. **The total area of each demo plot is 500 m2 for drip irrigation.**

Detailed scope of Work: Primary responsibility of the consulting company is to efficiently deliver the following tasks and deliverables at a high level of quality and competence within the agreed schedule.

- Supply, Delivery and Installation of Drip Irrigation system in 58 demo-plots.
- The company shall provide a qualified Consultants/ Trainers to provide theoretical and practical trainings in OFWM techniques for 6,500 farmers in mentioned provinces.
- The specialized and experienced company shall provide best quality drip irrigation materials along with installation according to the bill of quantity and specification provided in the RFQ, into the above mentioned five provinces.

- The Company is required to complete this activity according to the set/given timeline for the entire assignment.
- Formulate comprehensive, empirical activities for designing and implementation of the training plan for 6,500 Lead Farmers or associations members training in On-Farm Water Management, and improved irrigation techniques.
- Share the first draft of training package with SWIM Chief of Party (COP) /Deputy Chief of Party (DCOP) and Component-3 team lead to take feedback on the training plan.
- Develop training curriculum for 6,500 farmers in OFWM.
- Develop training materials for the training of farmers in the field of On-Farm Water Management practices (OFWM) drip irrigation system.
- Develop pre and post tests and training evaluation forms.
- Conduct formal and practical training in the field of On-Farm Water Management practices (OFWM), and Improved Irrigation techniques.
- Finalize and approve comprehensive training package both in English and local languages along with estimate budget and implementation plan.
- The firm will be required to submit regular update status to SWIM top management during this assignment.

Deliverable:

A) Provide a comprehensive training package:

- Provide training material including training curriculum for training in OFWM techniques and practices.
- Develop training implementation plan in OFWM techniques, practices to train 6,500 lead farmers or associations members. Upon contract award, the firm will prepare and provide the training material within 5 days.
- All materials has to be in both local languages (Dari and Pashto) as well as in English language.
- Submit final training package to COP from April **15 to April 22, 2018) total 6 days.**

B) Delivery and Installation of 58 drip irrigation systems

- Delivery and Installation of 58 drip irrigation systems in 58 sites after the quality check/ verification of SWIM QA & QC department.
- The specialized and experienced company shall provide best quality drip irrigation materials along with supply and installation into the above mentioned five provinces. The Company is required to complete this activity according to the set/ given timeline for the entire assignment.
- Submit final training report to SWIM COP, DCOP and Component (3) team lead from (April 23 to July 22, 2018) Total 29 days.

C) Conduct training for 6,500 farmers

- Conduct theoretical training for 6,500 farmers in OFWM techniques (estimated one day)
- Conduct practical training for 6,500 farmers in OFWM techniques, practices that will be implemented in established demo plots (estimated one day)
- Submit final training report to COP from April **23 to July 22, 2018) total 78 days.**

Minimum Qualification and Eligibility:

Academic Qualifications:

- The firm must have sufficient experience in the mentioned needed field will provide consultants or trainers with advanced university degree in agricultural or engineering. Must have 5 Years of relevant experience in OFWM techniques. Work experience in

similar assignments with USAID or other international organizations will be advantage.

Selection Criteria: The selection of appropriate and competitive company among the eligible bidders with shall take place with respect to following consecutive processes:

Area of Evaluation	Maximum Marks
Past performance and Similar Experience in On-farm water management training at least three years	25
Work Methodology and Implementation Plan	15
Key Experts	20
Cost proposal	40

Reporting: The company will directly report to the SWIM Chief of Party and Deputy Chief of Party and will work with the close coordination of component-3 Team leader. The project team will ensure the proper briefing to contracted company on the assignment, provide guidance, advice, supervision and quality of deliverables and timely delivery of the expected outputs/results. Upon completion of contract assignments, the supervisor will certify relevant documents; evaluate the contracting company works and follow-up on the payments.

Duration of the Purchase Order The anticipated duration is 84 working days from the date of signing of the Purchase Order.

Attachment 2: Bill of Quantities

Lot 1: Bill of Quantity 19 Demo-Plots in Balkh

No	Description and Specifications	Qty	Unit	Unit Price (AFN)	Total price (AFN)
Training Services for 1,910 farmers					
1	Mobilization and demobilization of Technical staff to the region include transportation, accommodation and food	LM	1		
3	Fees for Key experts for the training of 1910 farmers in OFWM techniques.	No	2		
4	Supplies and Stationary	LM	1		
5	Training facility with a capacity of 50 persons per day	Days	44		
Equipment Supply and Installation					
1	Plastic Clip (Connector of main pipe to drip pipe or lateral pipe, 1-inch x 1/2 inch.	790	Piece		
2	Valve (Plastic PVC), 16 mm	790	Piece		
3	Filter (Plastic PVC), 1 inch	19	Piece		
4	Main Pipe (Plastic PVC), 1 inch	570	Meter		
5	Metallic table (Including material + manufacturing cost), 1.5m height x 1m width x 1m length	19	Piece		
6	Water Tank (including metallic base support) - 2000 liters plastic water tank	19	Piece		
7	Gate Valve, Good quality x 1 inch	19	Piece		
8	Elbow PVC, Good quality x 1 inch	38	Piece		
9	Drip Pipe, Good quality x 16 mm x 20 cm dripper spacing	15960	Meter		
10	End Stop, Good quality x 1 inch	38	Piece		
11	End Stop 16 mm	790	Piece		
12	Plastic T, Good Quality x 1 inch	38	Piece		
13	Portable HONDA WX10 1 INCH GX25 (25cc) Water Pump including generator along with 20 m plastic pipe.	38	No		
14	Agricultural Tools (Planting Boards, Measuring Tapes, Shovels (5), Wheel Borrowes)	38	Set		
Grand Total					

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in 58 demo-plots

Lot 2: Bill of Quantity 17 Demo-Plots in Samangan Province

No	Description and Specifications	Qty	Unit	Unit Price (AFN)	Total price (AFN)
Training Services for 1,710 farmers					
1	Mobilization and demobilization of Technical staff to the region include transportation, accommodation and food	LM	1		
3	Fees for Key Experts for the training of 1710 farmers in OFWM techniques.	No	2		
4	Supplies and Stationary	LM	1		
5	Training facility with a capacity of 50 persons per day	Days	35		
Equipment Supply and Installation					
1	Plastic Clip (Connector of main pipe to drip pipe or lateral pipe, 1-inch x 1/2 inch.	714	Piece		
2	Valve (Plastic PVC), 16 mm	714	Piece		
3	Filter (Plastic PVC), 1 inch	17	Piece		
4	Main Pipe (Plastic PVC), 1 inch	510	Meter		
5	Metallic table (Including material + manufacturing cost), 1.5m height x 1m width x 1m length	17	Piece		
6	Water Tank (including metallic base support) - 2000 liters plastic water tank	17	Piece		
7	Gate Valve, Good quality x 1 inch	17	Piece		
8	Elbow PVC, Good quality x 1 inch	34	Piece		
9	Drip Pipe, Good quality x 16 mm x 20 cm dripper spacing	14280	Meter		
10	End Stop, Good quality x 1 inch	34	Piece		
11	End Stop 16 mm	714	Piece		
12	Plastic T, Good Quality x 1 inch	17	Piece		
13	Portable HONDA WX10 1 INCH GX25 (25cc) Water Pump including generator along with 20 m plastic pipe.	17	No		
14	Agricultural Tools (Planting Boards, Measuring Tapes, Shovels (5), Wheel Borrowes)	17	Set		
Grand Total					

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in 58 demo-plots

Lot 3: Bill of Quantity 3 Demo-Plots in Jawzjan Province

No	Description and Specifications	Qty	Unit	Unit Price (AFN)	Total price (AFN)
Training Services for 900 farmers					
1	Mobilization and demobilization of Technical staff to the region include transportation, accommodation and food	LM	1		
3	Fees for Key Experts for the training of 900 farmers in OFWM techniques.	No	2		
4	Supplies and Stationary	LM	1		
5	Training facility with a capacity of 50 persons per day	Days	18		
Equipment Supply and Installation					
1	Plastic Clip (Connector of main pipe to drip pipe or lateral pipe, 1-inch x 1/2 inch.	126	Piece		
2	Valve (Plastic PVC), 16 mm	126	Piece		
3	Filter (Plastic PVC), 1 inch	3	Piece		
4	Main Pipe (Plastic PVC), 1 inch	90	Meter		
5	Metallic table (Including material + manufacturing cost), 1.5m height x 1m width x 1m length	3	Piece		
6	Water Tank (including metallic base support) - 2000 liters plastic water tank	3	Piece		
7	Gate Valve, Good quality x 1 inch	3	Piece		
8	Elbow PVC, Good quality x 1 inch	6	Piece		
9	Drip Pipe, Good quality x 16 mm x 20 cm dripper spacing	2520	Meter		
10	End Stop, Good quality x 1 inch	6	Piece		
11	End Stop 16 mm	126	Piece		
12	Plastic T, Good Quality x 1 inch	3	Piece		
13	Portable HONDA WX10 1 INCH GX25 (25cc) Water Pump including generator along with 20 m plastic pipe.	3	No		
14	Agricultural Tools (Planting Boards, Measuring Tapes, Shovels (5), Wheel Borrowes)	3	Set		
Grand Total					

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in 58 demo-plots

Lot 4: Bill of Quantity 3 Demo-Plots in Baghlan Province

No	Description and Specifications	Qty	Unit	Unit Price (AFN)	Total price (AFN)
Training Services for 540 farmers					
1	Mobilization and demobilization of Technical staff to the region include transportation, accommodation and food	LM	1		
3	Fees for Key Experts for the training of 540 farmers in OFWM techniques.	No	2		
4	Supplies and Stationary	LM	1		
5	Training facility with a capacity of 50 persons per day	Days	11		
Equipment Supply and Installation					
1	Plastic Clip (Connector of main pipe to drip pipe or lateral pipe, 1-inch x 1/2 inch.	126	Piece		
2	Valve (Plastic PVC), 16 mm	126	Piece		
3	Filter (Plastic PVC), 1 inch	3	Piece		
4	Main Pipe (Plastic PVC), 1 inch	90	Meter		
5	Metallic table (Including material + manufacturing cost), 1.5m height x 1m width x 1m length	3	Piece		
6	Water Tank (including metallic base support) - 2000 liters plastic water tank	3	Piece		
7	Gate Valve, Good quality x 1 inch	3	Piece		
8	Elbow PVC, Good quality x 1 inch	6	Piece		
9	Drip Pipe, Good quality x 16 mm x 20 cm dripper spacing	2520	Meter		
10	End Stop, Good quality x 1 inch	6	Piece		
11	End Stop 16 mm	126	Piece		
12	Plastic T, Good Quality x 1 inch	3	Piece		
13	Portable HONDA WX10 1 INCH GX25 (25cc) Water Pump including generator along with 20 m plastic pipe.	3	No		
14	Agricultural Tools (Planting Boards, Measuring Tapes, Shovels (5), Wheel Borrows)	3	Set		
Grand Total					

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in 58 demo-plots

Lot5: Bill of Quantity 16 Demo-Plots in Badakhshan Province

No	Description and Specifications	Qty	Unit	Unit Price (AFN)	Total price (AFN)
Training Services for 1,440 farmers					
1	Mobilization and demobilization of Technical staff to the region include transportation, accommodation and food	LM	1		
3	Expertise requirements and qualifications key experts for the training of 1440 farmers in OFWM techniques.	No	2		
4	Supplies and Stationary	LM	1		
5	Training facility with a capacity of 50 persons per day	Days	24		
Equipment Supply and Installation					
1	Plastic Clip (Connector of main pipe to drip pipe or lateral pipe, 1-inch x 1/2 inch.	672	Piece		
2	Valve (Plastic PVC), 16 mm	672	Piece		
3	Filter (Plastic PVC), 1 inch	16	Piece		
4	Main Pipe (Plastic PVC), 1 inch	480	Meter		
5	Metallic table (Including material + manufacturing cost), 1.5m height x 1m width x 1m length	16	Piece		
6	Water Tank (including metallic base support) - 2000 liters plastic water tank	16	Piece		
7	Gate Valve, Good quality x 1 inch	16	Piece		
8	Elbow PVC, Good quality x 1 inch	32	Piece		
9	Drip Pipe, Good quality x 16 mm x 20 cm dripper spacing	13440	Meter		
10	End Stop, Good quality x 1 inch	32	Piece		
11	End Stop 16 mm	672	Piece		
12	Plastic T, Good Quality x 1 inch	16	Piece		
13	Portable HONDA WX10 1 INCH GX25 (25cc) Water Pump including generator along with 20 m plastic pipe.	16	No		
14	Agricultural Tools (Planting Boards, Measuring Tapes, Shovels (5), Wheel Borrows)	16	Set		
Grand Total					

Attachment 3- Anticipated Training Timelines

1. OFWM Training- 6,500 Associations Members Training, Indicator ≠ 3.2.2								April 23 - July 22			Remarks
Training Sessions	Days	No. Participants	Provinces	Total Participants	Weekly Achievements	Associations	Target	Estimated Time line for the Implementation			
								Days	Weeks	Months	
1st	Sunday-Theory	50	5	250	500	80- WUAs, IAs, FAs	6,500	84	13	3.2	90 Members from each association will be trained
	Monday-Practical										
(Tuesday) Break											
2nd	Wednesday-Theory	50	5	250							
	Thursday-Practical										

Attachment 4 – Drawing of Demo Plot Layout

