

WHLO REQUEST FOR QUOTES (RFQ)

| | |
|--------------------------------|--|
| RFQ Number & Title: | RFQ-WHLO-FYB-DYK-0213-2026 Drip Irrigation, Water Reservoir, Nursery and Tree Saplings in Faryab and Daikundi Provinces |
|--------------------------------|--|

Since 2002, Way of Hope to Life Organization (WHLO), a leading Afghan non-governmental organization, has been working to create lasting change in Afghanistan. Over the years, we have reached around six million vulnerable Afghans through education, skills development, vocational training, and curriculum innovation. With over 250 completed projects across the country, WHLO has built strong community ties and deep local knowledge. This experience makes us a trusted partner for both international donors and Afghan communities, ensuring that every effort delivers sustainable impact. Registered with the Ministry of Economy (License No. 480), WHLO is committed to operating with transparency and accountability, delivering programs that reduce suffering while fostering resilience and hope across Afghan communities.

| Request for Quotes Issue Date: | | February 09, 2026 | | | |
|--|--|--|-------|-----------|------------|
| Due Date and Time for Questions: | | February 12, 2026, 4:00 PM local time Kabul, Afghanistan | | | |
| Quote Due Date and Time: | | February 15, 2026, 4:00 PM local time Kabul, Afghanistan | | | |
| <i>Quotes submitted after the deadline has passed or that do not include all of the information requested may be rejected.</i> | | | | | |
| WHLO Point of Contact: | | procurement@whl.org.af | | | |
| Complete Description of Need/Scope of Work/Specifications | | | | | |
| # | DESCRIPTION OF GOOD/SERVICE | UNIT | QT. | Unit Cost | Total Cost |
| Faryab Province | | | | | |
| Installation of Drip Irrigation System in Faryab | | | | | |
| 1 | Dripper_4/8 LPH Fixed capacity, should be Pressure compensating and cleanable along with the pipe required for outlet OR as per site and system requirements | Pcs | 9,000 | | |
| 2 | Flash Valve with required fittings_ Best quality 2 Flash Valve of 32mm (28.2internal Dia) with necessary mounting equipment's of PN10-16 (HDPE (PE 100) pipe) | Pcs | 1 | | |
| 3 | Disc Filter5-6 M3/Hour net discharge capacity, with outlet Dia of 50 mm (44mm OD) and all other necessary fittings and materials of PN10-16. | Pcs | 1 | | |
| 4 | LLDPE Lateral Pipe_ 16 mm (Polyethylene tubes (LLDPE) 14 mm inside diameter, minimum weight 20.09 g/m) PN 3.5 | Meter | 5,000 | | |
| 5 | Main Pipe_ 2" Inch (63mm-90mm) HDPE (PE 100), PN 10, WT 3 mm) | Meter | 500 | | |
| 6 | Sub main 1" inch (32mm) HDPE (PE100) (PE100), PN 10 WT 1.9 mm) | Meter | 600 | | |
| 7 | Fertilizer Injector Venturi Injector + Suction Assembly_ Injector's size epically 50mm (4mm out lets dia), working pressure (often 1-6 kg/cm ²), and suction capacity (e.g., 34-92 L/h) with all other necessary fittings materials of PN10-16 and 60 Liter tank for fertilizer solution | Pcs | 1 | | |
| 8 | End cap_ Best quality end cap for 14 mm internal dia of lateral pipe | Pcs | 200 | | |
| 9 | Control valve_ Size 50mm (44 mm outlet dia), for HDPE (PE 100) pipe with all necessary fittings materials of PN 10-16 | Pcs | 4 | | |

| | | | | | |
|---|--|---------|----|--|--|
| 10 | Air release Valve_ Best quality Air Release Valve of 50mm (44 mm outlet Dia) with necessary mounting equipment's for PN10-16 (HDPE (PE 100) pipe) | Pcs | 2 | | |
| 11 | Non return value_ Best quality Non return Valve of 50mm (44 mm outlet dia) with necessary mounting equipment's of PN10- 16 (HDPE (PE 100)) | Pcs | 4 | | |
| 12 | Pressure gauge Glycerin Filled, Size 50mm (44mm outlet Dia) with necessary mounting equipment's. of PN 10-16, (HDPE (PE 100) pipe) or as per the site requirement. | Pcs | 2 | | |
| 13 | Tool Kit _ Hand Saw for Metal and PE pipe Cutting with blades, Spanner (Wrench) small set, Plumbers Adjustable Wrench for Repairing 16 to 50mm Pipe (2), Drip tube Hole Punch, Plier, end nipper (2), Multi -Bit Screwdriver, Box for tools Kit and Dripline tube cutter | Package | 1 | | |
| 14 | Compression Elbow 90 degree_ (32 mm , for HDPE (PE 100), PN 10-16) | Pcs | 6 | | |
| 15 | Compression Elbow 90 degree_ (40 mm , for HDPE (PE 100), PN 10- 16) | Pcs | 3 | | |
| 16 | GTO_ Best quality Poly gromate take off, Size 14 m | Pcs | 70 | | |
| Total | | | | | |
| 20 m3 RCC Drinking Water Reservoir See (Annex 1 and 2) in Faryab | | | | | |
| 1 | Excavation for reservoir in ground type 3. کندن کاری در زمین قسم سوم | M3 | 39 | | |
| 2 | Back filling with soil and excavated material. پرکاری خاک معه تپک کاری. | M3 | 20 | | |
| 3 | Plain Cement Concrete (PCC), M150.(1:2:4) کانکریت بیدون سیخ با مارک مخلوطی | M3 | 4 | | |
| 4 | Reinforced Cement Concrete (RCC), M 200kg/cm2 including steel bars and shuttering according to the drawings. کانکریت سیخدار با مارک مخلوطی 1:1.5:3 همراى قالب بندى | M3 | 21 | | |
| 5 | Plaster work with cement-sand + padlow powder M: 1:3 for inside. M: 1:3. پلسترکاری داخلی با پودر ضد نفوذ آب | M2 | 63 | | |
| 6 | Plasterwork with cement-sand M: 1:3 for exterior wall: 1:3. پلسترکاری بیرونی | M2 | 64 | | |
| 7 | Isogam insulation on roof of reservoir. ایزوگام برای پوشش ذخیره. | M2 | 24 | | |
| 8 | Supply and installation of iron gate for reservoir manhole (iron 20 gauge) with all required activities and as per drawing. دروازه آهنی برای منهول ذخیره | Pcs | 1 | | |
| 9 | Supply and installation of 3 inch Galvanised Iron Ladder for reservoir with all required activates according to drawings. زیننه از پایپ جستی ملمع شده بقطر 3 انچ | Pcs | 1 | | |
| 10 | Supply and installation of Galvanized Iron pipe for the out let of purposed net work, Internal dia.2 1/2" پایپ آهنی ملمع جستی بقطر داخلی | M | 3 | | |
| 11 | Galvanized Iron pipe for in leg and over flow , Internal dia.2 1/2" پایپ آهنی ملمع جستی بقطر داخلی | M | 6 | | |

| | | | | | |
|--|---|-------|-------|--|--|
| 12 | Supply and installation of Galvanized Iron pipe for drain pipe , Internal dia.2 1/2" پایپ آهنی ملمع جستی بقطر داخلی "2 1/2" | M | 3 | | |
| 13 | Supply and installation of Flanged Gate valve (VAG KOS) Nominal Diameter = 2 1/2" for distribution system best quality به گیت وال قطر دونیم انچ | Pcs | 1 | | |
| 14 | Supply and installation of Galvanized Iron Socket, diameter 2 1/2" سامی آهنی ملمع جستی بقطر | Pcs | 6 | | |
| 15 | Supply and installation of Galvanized Iron Nipple 2 1/2" dia اشتت آهنی ملمع جستی بقطر | Pcs | 6 | | |
| 16 | Supply and installation of Galvanized Iron Union 2 1/2" بیوند آهنی ملمع جستی بقطر | Pcs | 4 | | |
| 17 | Supply and installation of Galvanized Iron Elbow 2 1/2" dia زانو خم آهنی ملمع جستی بقطر | Pcs | 8 | | |
| 18 | Supply and installation of End cup for the wash out pipe 2 1/2" فلق برای پایپ شستشو | Pcs | 1 | | |
| Total | | | | | |
| Nursery Establishment One Jerrib Land_ 2000 m2 in Faryab. | | | | | |
| 1 | lid Almond seed/nuts | Kg | 40 | | |
| 2 | Peer seed | Kg | 20 | | |
| 3 | Chemical Fertilizer (DAP) 50 kg bag | Bag | 2 | | |
| 4 | Animal manure | Kg | 4,000 | | |
| 5 | Shovel with handle | Pcs | 6 | | |
| 6 | Pruning shear | Pcs | 4 | | |
| 7 | Rake with handle | Pcs | 2 | | |
| 8 | Backpack sprayer 16 lit | Pcs | 2 | | |
| 9 | Wire mish for protection | M | 280 | | |
| 10 | Wooden stick, 2m | Pcs | 150 | | |
| 11 | Land Plowing | Site | 2 | | |
| 12 | Land preparation | Labor | 10 | | |
| Total | | | | | |
| Supply of 6000 Tree Saplings in Faryab | | | | | |
| 1 | Almond sapling (Sattarbai or Qambari Variety, good quality, certified with ANNGO label) | PCs | 1,500 | | |
| 2 | Pistachio sapling(Tajiki or Sarda or any other well-adopted variety within the area | PCs | 1,000 | | |
| 3 | Mulberry sapling (Grafted saplings good quality | PCs | 1,750 | | |
| 4 | Weeping mulberry sapling (Grafted saplings good quality | PCs | 250 | | |
| 5 | Russian olive sapling Good quality | PCs | 200 | | |
| 6 | Thuja 100 leave sapling (Evergreen ornamental tree | PCs | 450 | | |
| 7 | Pine sapling (Type: Stay green all year, evergreen | PCs | 550 | | |
| 8 | Judas sapling (Native to North west region | PCs | 300 | | |
| 9 | Chemical Fertilizer (DAP) 50 kg bag | Bag | 12 | | |
| Total | | | | | |

| Daikundi Province | | | | | |
|---|---|---------|--------|--|--|
| Installation of Drip Irrigation System Installation in Daikundi | | | | | |
| 1 | Flat Tape Drip Irrigation Pipes High-quality. Coverage: 5 Sites (Jawzak Dasht Nili- Khakbad Anok- Hedjdi Ulya Nili- Tokhsar Tagablor Shahrستان and Awri Mazar Shahrستان) | Meter | 19,000 | | |
| 2 | Main Pipe 2" Inch (63mm-90mm) HDPE (PE 100), PN 10, WT 3 mm) Coverage: 5 Sites (Jawzak Dasht Nili- Khakbad Anok- Hedjdi Ulya Nili- Tokhsar Tagablor Shahrستان and Awri Mazar Shahrستان) | Meter | 3,750 | | |
| 3 | Submain Pipe 2" Inch (63mm-90mm) HDPE (PE 100), PN 10, WT 3 mm) standards same as main pipe. Coverage: 5 Sites (Jawzak Dasht Nili- Khakbad Anok- Hedjdi Ulya Nili- Tokhsar Tagablor Shahrستان and Awri Mazar Shahrستان) | Meter | 1,500 | | |
| 4 | Barb 7mm Used for connecting drip tape to sub-main pipes Coverage: 5 Sites (Jawzak Dasht Nili- Khakbad Anok- Hedjdi Ulya Nili- Tokhsar Tagablor Shahrستان and Awri Mazar Shahrستان) | Pcs | 250 | | |
| 5 | Tool Kit (Complete Set) Hand Saw for Metal and PE pipe Cutting with blades, Spanner (Wrench) small set, Plumbers Adjustable Wrench for Repairing 16 to 50mm Pipe (2), Drip tube Hole Punch, Plier, end nipper (2), Multi -Bit Screwdriver, Box for tools Kit and Dripline tube cutter. Coverage: 5 Sites (Jawzak Dasht Nili- Khakbad Anok- Hedjdi Ulya Nili- Tokhsar Tagablor Shahrستان and Awri Mazar Shahrستان) | Package | 5 | | |
| 6 | GTO Best quality Poly gromate take off Mixed sizes compatible with HDPE pipes Coverage: 5 Sites (Jawzak Dasht Nili- Khakbad Anok- Hedjdi Ulya Nili- Tokhsar Tagablor Shahrستان and Awri Mazar Shahrستان) | Pcs | 250 | | |
| 7 | Muddy pond construction (10 x 3 x 2) Excavation dimensions: 10 meters (L) x 3 meters (W) x 2 meters (D) Coverage: 5 Sites (Jawzak Dasht Nili- Khakbad Anok- Hedjdi Ulya Nili- Tokhsar Tagablor Shahrستان and Awri Mazar Shahrستان) | Pcs | 5 | | |
| 8 | Plastic for covering pond Material: Heavy-duty plastic sheet (HDPE or equivalent) Coverage: 5 Sites (Jawzak Dasht Nili- Khakbad Anok- Hedjdi Ulya Nili- Tokhsar Tagablor Shahrستان and Awri Mazar Shahrستان) | Meter | 5 | | |
| 9 | Drip system installation Complete installation of drip irrigation system Coverage: 5 Sites (Jawzak Dasht Nili- Khakbad Anok- Hedjdi Ulya Nili- Tokhsar Tagablor Shahrستان and Awri Mazar Shahrستان) | Pcs | 5 | | |
| Total | | | | | |
| Nursery establishment for one Jerrib land_ 2000m2 in Daikundi | | | | | |
| 1 | Wild Almond seed/nuts | Kg | 80 | | |
| 2 | Chemical Fertilizer (DAP) 50 kg bag | Bag | 2 | | |
| 3 | Animal manure | Kg | 4,000 | | |
| 4 | Shovel with handle | Pcs | 6 | | |
| 5 | Pruning shear | Pcs | 4 | | |
| 6 | Rake with handle | Pcs | 2 | | |

| | | | | | |
|---|--|---|-------|--|--|
| 7 | Backpack sprayer 16 lit | Pcs | 2 | | |
| 8 | Wire mish for protection | M | 280 | | |
| 9 | Land Plowing | Site | 2 | | |
| 10 | Land preparation | Labor | 10 | | |
| Total | | | | | |
| Supply of 5000 Saplings in Daikundi | | | | | |
| 1 | Imond sapling, Non- grafted sapling, Native to Daikundi province (Jawzak Dasht, Nili) | PCs | 1,000 | | |
| 2 | Almond sapling, Non- grafted sapling, Native to Daikundi province (Khakbad Anok) | PCs | 1,000 | | |
| 3 | Almond sapling, Non- grafted sapling, Native to Daikundi province (Hedjdi Ulya, Nili) | PCs | 1,000 | | |
| 4 | Almond sapling, Non- grafted sapling, Native to Daikundi province (Tokhsar Tagablor, Shahristan) | PCs | 1,000 | | |
| 5 | Almond sapling, Non- grafted sapling, Native to Daikundi province (Awri Mazar, Shahristan) | PCs | 1,000 | | |
| 6 | Chemical Fertilizer (DAP) 50 kg bag | Bag | 10 | | |
| 7 | Tree Irrigation Supply (via water tanker or labor after plantation, as required) | Month | 4 | | |
| Total Cost | | | | | |
| Grand Total Cost | | | | | |
| Delivery Address/Place of Performance: | | Faryab and Daikundi, Afghanistan | | | |
| Payment Terms: | | Net 30 Days | | | |
| <i>By responding with a quote you are accepting the requirements as outlined above, including any delivery requirements and payment terms</i> | | | | | |

Type of Procurement: Open Tender

Type of Contract: Reasonable Price and High Quality

Contract Conditions: Based on the issued Terms and Conditions

Bid Submission Address:

WHLO accepting the Bids through email and hardcopy as follow:

Hardcopy to: Head Office of Way of hop to life organization (WHLO), House 32, Street 4, District 10, Qala-E-Fathullah, Kabul, Afghanistan.

Softcopy to: procurement@whl.org.af

Technical Terms and Conditions (Conditions for Winning Bidders / Participants):

- Project Location:** The project includes procurement Drip Irrigation, Water Reservoir, Nursery and Tree Saplings in Faryab and Daikundi Provinces.
- Project Implementation Requirements:** Qualified personnel must carry out Procurement, transportation, and delivery of saplings and required items. The company/vendor must provide documented technical specifications and quality details for each item.

3. **Bid Security:** No bid security is required.
 4. **Submission of Samples for Preliminary Approval:** The successful bidder must submit sample saplings before full supply. WHLO's technical team will evaluate samples. For compliance with BoQ specifications. No final delivery will be accepted without sample approval.
 5. **Technical Supervision:** Supervision will be conducted by WHLO at the nursery during preparation of sapling packages. Only after verification of quality, the final delivery will be authorized.
 6. **Technical Specifications of Proposed Saplings:** The preliminary list is included in the RFQ. Any variation or special condition must be clearly explained with physical samples or valid documentation.
 7. **Delay Penalty:** A penalty of 0.5% per official day of delay will be applied unless justified and approved by WHLO's technical committee.
 8. **Pricing Requirements:** All prices must be in AFN and include all taxes, transport, loading, unloading, services, and packaging. Quotations without official stamp and authorized signature will not be accepted.
 9. **Quality Assurance and Replacement:** The Company must replace or correct any low quality or non-compliant saplings at no additional cost.
 10. **Specification of supply tree sapling: (I).** Saplings must be free from diseases and pests. **(II).** Age of saplings should be 1–2 years. **(III).** Saplings must have well-developed fibrous root system. (4)-Saplings should be healthy and free from defects (unbroken, undamaged, and robust).
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Required Documents with Bids:

1. Price proposal per BoQ and technical specifications
 2. Company license
 3. List of similar experiences and projects
 4. Company profile
 5. Bank statement
 6. Financial capacity proof (if applicable)
 7. Latest tax clearance certificate (if applicable)
 8. Work plan
-

General Procurement Principles of WHLO Organization:

1. Contract award based on price, quality, capacity, and technical ability
2. Commitment to child labor prohibition
3. All documents must be signed and stamped
4. Contract cancellation penalty of 10%
5. Procurement supervised by central committee
6. Donor bears no responsibility for contract
7. Full access to procurement documents for auditors
8. Reporting corruption via +93202212348
9. Contact # for location +93700297441 / +93783281645
10. Concealment of corruption will be prosecuted
11. Compliance with organizational policies
12. Quotations in AFN with official letterhead
13. Validity of prices is 90 working days
14. In order to be considered, quotes must be valid for at least 90 days
15. Complete vendor information including physical address, full legal name, registration certificate & national ID (Tazkira)
16. Wire transfer through an official bank account will make the payment.
17. Detailed information on the specific make, model or brand of items proposed.

18. The itemized price is offered for the needed goods and/or services, including all costs no additional charge accepting.
19. If the bids submitting in a hard-copy sealed envelope and delivered to the WHLO main office in Kabul City
20. Please write (RFQ-WHLO-FYB-DYK-0213-2026) and (From Vendor Name – To: WHLO) on the sealed envelope.
21. Offer Deadline and Protocol: Offers must receive on **February 15, 2026, 4:00 PM local time Kabul, Afghanistan** by hard copy or email to procurement@whl.org.af Please reference the RFQ number in any response to this RFQ. Offers received after the specified time and date will be considered late and will be considered only at the discretion of WHLO.

- **Delivery:** The delivery location for the items described in this Order is WHLO sub offices to the Faryab and Daikundi Provinces. As part of its response to this RFQ, each offer or is expected to provide an estimate of the delivery timeframe (after receipt of the order). The delivery estimate presented in an offer in response to this RFQ must upheld in the performance of any resulting contract.

- **Taxes and VAT in Afghanistan:** Prices must quoted on a lump sum, all-inclusive basis. Any taxes (including BRT taxes) or fees should not added later. The BRT tax must be included in the Grand Total Cost of the Proposal. The offeror are required to submit their business licenses to support the 2% BRT tax. According to Article 72 in the Afghanistan Tax Law effective March 21, 2017, WHLO is required to withhold “contractor” taxes from the gross amounts payable to all Afghan subcontractors. Following this requirement, WHLO withholds two percent (2%) tax from all gross invoices to Afghan subcontractors under this agreement with an active business registration license at the time of payment. All legal and natural persons who, without a business license or contrary to an approved by-law, provide supplies, materials, construction, and services under this contract shall be subject to seven percent (7%) fixed tax instead of income tax. This tax is withheld from the gross.

Evaluation Criteria:

| No | Criteria | Max Score | Description |
|--------------|--|------------|---------------------------------|
| 1 | Valid license, 3 years’ experience and Profile | 40 | Official documentation required |
| 2 | Lowest price | 40 | Compared based on BoQ, RFQ |
| 3 | Financial & technical capacity | 10 | Resources & manpower |
| 4 | Similar project experience | 10 | Past projects & execution plan |
| Total | | 100 | |

Quotes will evaluated based on the following Evaluation Criteria:

Above-mentioned Technical Terms and Conditions (Conditions for Winning Bidders / Participants), The least price is technically acceptable – we will select the lowest price of the proposal that meets the technical criteria and includes all administrative requirements.

Please refer to WHLO's Standard Terms and Conditions of Supply viewable at <https://whl.org.af/> and understand that these terms shall govern any contract unless otherwise negotiated with WHLO and agreed to in writing.



This RFQ is non-binding and in no way obligates WHLO to award any contract. WHLO reserves the right to purchase any or all of the items requested, to adjust quantities if necessary, or to make no purchase. Firm commitment to purchase is not established until a written order is issued by WHLO. The WHLO will not pay for vendors' quote preparation costs.

If any company or individual submitting an offer in response to this RFQ is found to have offered anything of value to any member of WHLO staff, they will be disqualified from participation in this procurement and may be disqualified for any future procurements with WHLO. WHLO staff are instructed not to request or accept anything of value from companies or individuals receiving RFQs. If an WHLO representative asks you for any kind of incentive payment or other gifts, please report it to the following email address: complaints@whl.org.af

Yours sincerely,

Vendor Name: -----

Authorized Name: -----

Address: -----

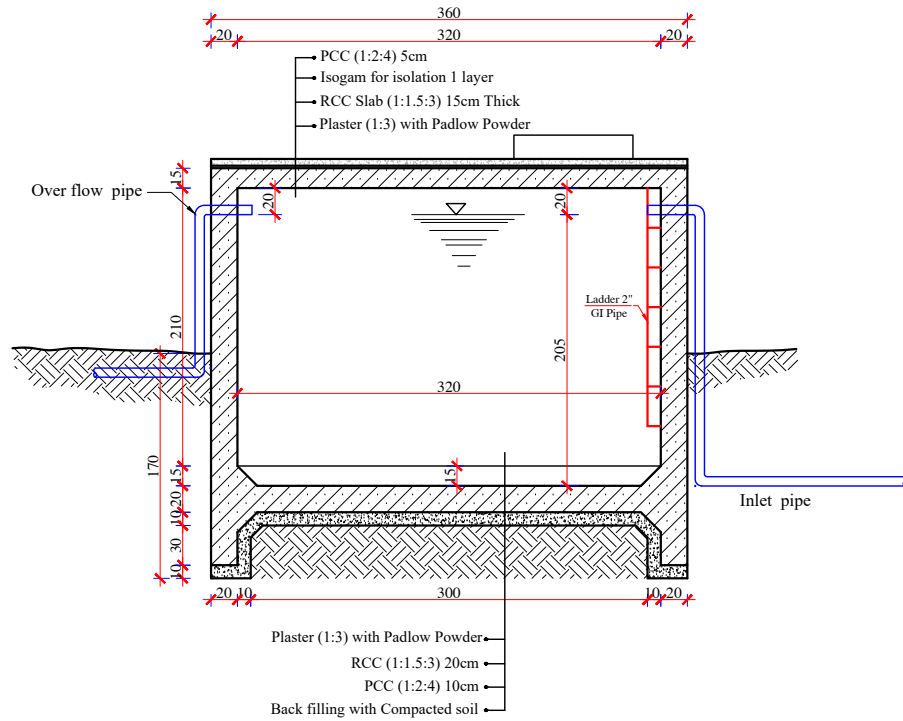
Contact information Phone: -----

Signature & Stamp: -----

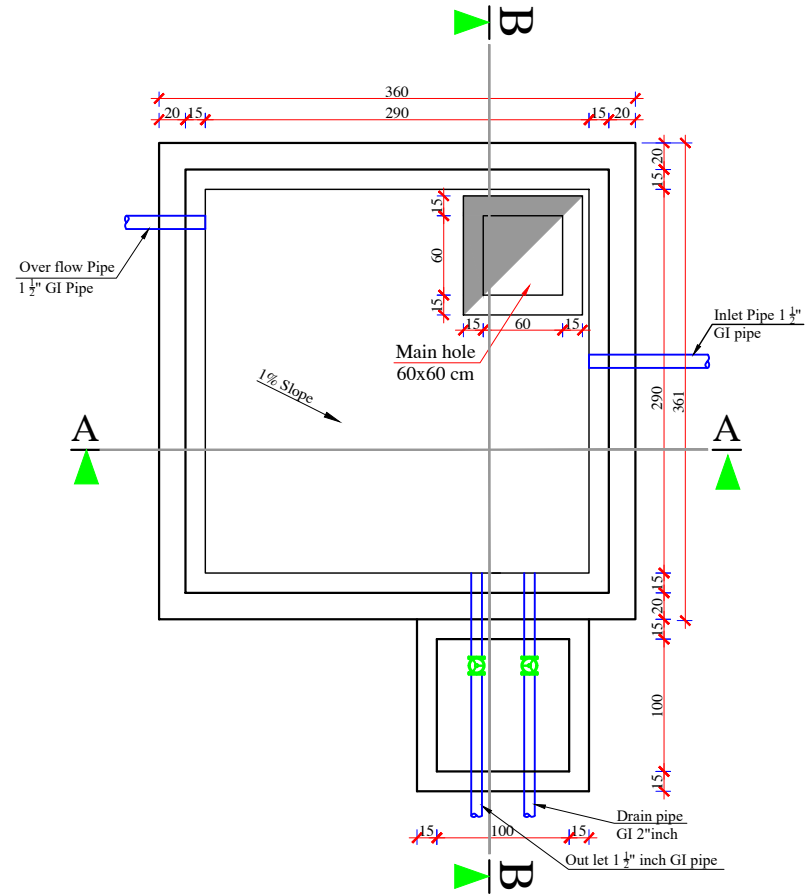
(Annex I) Estimation of 20 m3 RCC Water Reservoir 20000 Liters

| NO | Description | NO | Width | Hieght | Length | Total |
|-----------|--|----|-------|--------|--------|---------------|
| 1 | Excavation of Reservior place | 1 | 4 | 1.7 | 4 | 27.2 |
| 2 | Excavation of Get Valve place | 1 | 1.15 | 1.7 | 1.8 | 3.519 |
| A1 | Total Excavation | | | | | 30.719 |
| 1 | RCC of length wall Reservior | 2 | 0.2 | 2.85 | 3.2 | 3.648 |
| 2 | RCC of Width wall Reservior | 2 | 0.2 | 2.85 | 3.6 | 4.104 |
| 3 | RCC of up Reservior | 1 | 3.2 | 0.2 | 3.2 | 2.048 |
| 4 | RCC of bed Reservior | 1 | 3.6 | 0.2 | 3.6 | 2.592 |
| 5 | RCC for length foundation Reservior | 2 | 0.2 | 0.4 | 3.2 | 0.512 |
| 6 | RCC for width foundation Reservior | 2 | 0.2 | 0.4 | 3.6 | 0.576 |
| 7 | RCC of length wall Valve | 2 | 0.2 | 1.2 | 1.3 | 0.624 |
| 8 | RCC of Width wall Valve | 2 | 0.2 | 1.2 | 1.3 | 0.624 |
| 9 | RCC of up Valve | 1 | 1.1 | 0.1 | 1.1 | 0.121 |
| 10 | RCC of bed Valve | 1 | 1 | 0.2 | 1 | 0.2 |
| A2 | Total RCC | | | | | 15.049 |
| 1 | Pcc of under Reservior | 1 | 3.2 | 0.1 | 3.2 | 1.024 |
| 2 | pcc up resefvior | 1 | 3.6 | 0.05 | 3.6 | 0.648 |
| 3 | Pcc of under foundation Reservior | 2 | 3.2 | 0.15 | 3.2 | 3.072 |
| A3 | Total PCC | | | | | 4.744 |
| 1 | Plastering inlet length wall reservior | 2 | 1 | 2.25 | 3.2 | 14.4 |
| 2 | Plastering inlet width wall reservior | 2 | 1 | 2.25 | 3.2 | 14.4 |
| 3 | Plastering outlet length wall reservior | 2 | 1 | 3 | 3.6 | 21.6 |
| 4 | Plastering outlet width wall reservior | 2 | 1 | 3 | 3.6 | 21.6 |
| 5 | Plastering inlet under surfece reservior | 1 | 1 | 3.2 | 3.2 | 10.24 |
| 6 | Plastering inlet valve bax | 4 | 1 | 0.95 | 1 | 3.8 |
| 7 | Plastering outlet valve bax | 3 | 1 | 1.2 | 1.3 | 4.68 |
| 8 | Plastering under valve bax | 1 | 1 | 1 | 1 | 1 |
| 9 | Plastering inlet up valve bax | 1 | 1 | 1 | 1 | 1 |
| A4 | Total plastering | | | | | 92.72 |
| 1 | back filling of length foundation Reservior | 4 | 0.1 | 1.7 | 3.6 | 2.448 |
| 2 | back filling of width foundation Reservior | 4 | 0.1 | 1.7 | 3.6 | 2.448 |
| 3 | back filling of Reservior place | 4 | 0.1 | 1.3 | 3.6 | 1.872 |
| 4 | back filling of valve | 3 | 0.1 | 1.2 | 1.3 | 0.468 |
| A5 | Total Back filling | | | | | 7.236 |
| | Water piping system and drip irrigation system | 1 | | | | 200000 |
| A6 | Total water piping | | | | | 200000 |
| 1 | Isogam for insolation one layer | 4 | 3.6 | 1.7 | 3.6 | 88.128 |
| A7 | total isogam | | | | | 88.128 |

(Annex II)




SECTION A-A

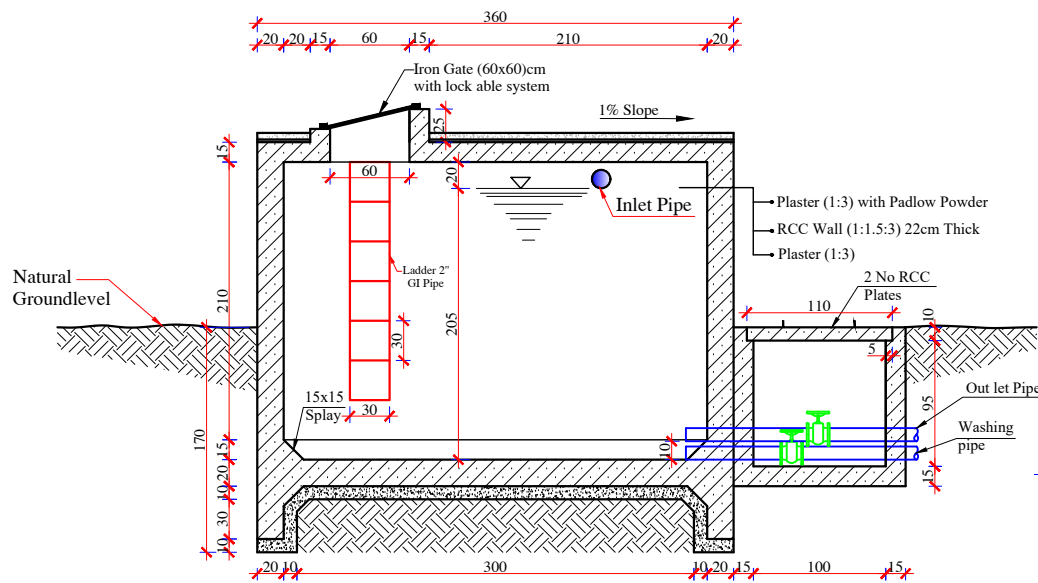


PLAN

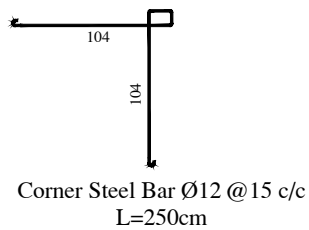
Notes:

- 1- All dimensions are in cm unless otherwise stated.
- 2- During RCC work adequate must be used to avoid water leakage from reservoir.
- 3- All P.C.C. works should be with 1:2:4 mortar unless otherwise stated.
- 4- All RCC works should be with 1:1.5:3 concrete.
- 5- Isolating material is glass wool.
- 6- Curing must be continued upto 28 days.
- 7- Clean and clean water must be used every where.
- 8- The inlet, outlet, over flow and washing pipes should be adjusted according to site condition.

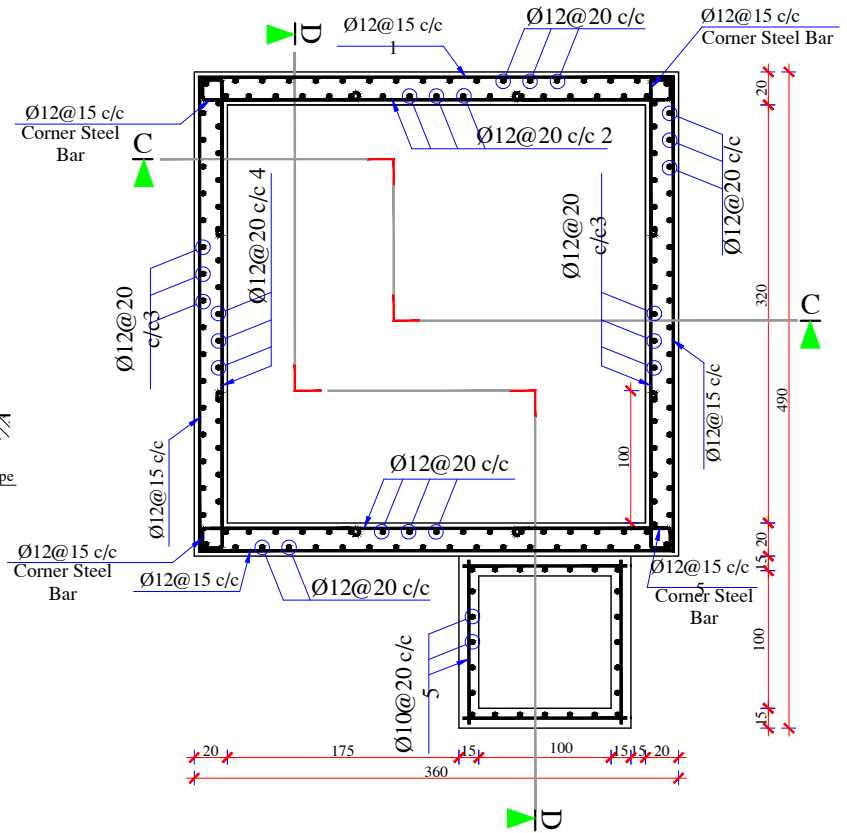
| | | | | | | |
|--|-------------|-------------|-------------|-----------|----------|---------------------------------------|
|  MRRD TIS AFGHANISTAN Ministry of Rural Rehabilitation and Development WatsIP | SURVEYED BY | CHECKED BY | SCALE | SHEET NO. | PROVINCE | PROJECT NAME |
| | DESIGNED BY | REVIEWED BY | DATE | 1/3 | DISTRICT | 20 Cubic meter RCC Water Reservoir |
| | DRAWN BY | APPROVED BY | DRAWING NO. | | VILLAGE | DRAWING TITLE |



SECTION B-B



| Steel Bar Schedule for 20 cum R.C.C Reservoir | | | | | | | | | | |
|---|---------------|----------------|--------------|--------------------------|----------------|-------------------|-----------------|--------------------------------|-------------------|--|
| SNO | Code of steel | shape of steel | No of member | No of bar in each member | Di of Bar (mm) | Length of bar (m) | Total length(m) | Weight (steel) (mtr) bar(kg/m) | Total Weight (kg) | |
| 1 | 1 | Horizontal | 1 | 12 | 12 | 2.85 | 274 | 0.888 | 242 | |
| 2 | 2 | Vertical | 36 | 12 | 12 | 2.85 | 274 | 0.888 | 242 | |
| 3 | 3 | Horizontal | 36 | 12 | 12 | 2.85 | 274 | 0.888 | 242 | |
| 4 | 4 | Vertical | 36 | 12 | 12 | 2.85 | 274 | 0.888 | 242 | |
| 5 | 5 | Horizontal | 80 | 12 | 12 | 2.5 | 200 | 0.888 | 178 | |
| 6 | 6 | Vertical | 56 | 10 | 10 | 1.25 | 63 | 0.616 | 38.8 | |
| 7 | 7 | Horizontal | 76 | 10 | 10 | 1.5 | 114 | 0.616 | 70.2 | |
| 8 | 8 | Vertical | 48 | 12 | 12 | 2.5 | 216 | 0.888 | 191 | |
| 9 | 9 | Horizontal | 76 | 12 | 12 | 1.5 | 274 | 0.888 | 242 | |
| 10 | 10 | Vertical | 14 | 12 | 12 | 1.5 | 18.2 | 0.888 | 16.16 | |
| 11 | 11 | Horizontal | 8 | 8 | 8 | 1.3 | 10.4 | 0.395 | 4.1 | |
| 12 | 12 | Vertical | 14 | 10 | 10 | 1.3 | 18.2 | 0.616 | 11.2 | |
| Total weight +5% wastage Dia 12mm | | | | | | | | 1667.16mtr | 1474 kg | |
| Total weight +5% wastage Dia 10mm | | | | | | | | 1291.68mtr | 1260 kg | |
| Total weight +5% wastage Dia 8mm | | | | | | | | 417.6mtr | 160 kg | |
| Total weight with wastage | | | | | | | | | 1794 kg | |



REINFORCEMENT PLAN



TIS AFGHANISTAN
Ministry of Rural
Rehabilitation and
Development
WatSIP

| | |
|-------------|--|
| SURVEYED BY | |
| DESIGNED BY | |
| DRAWN BY | |

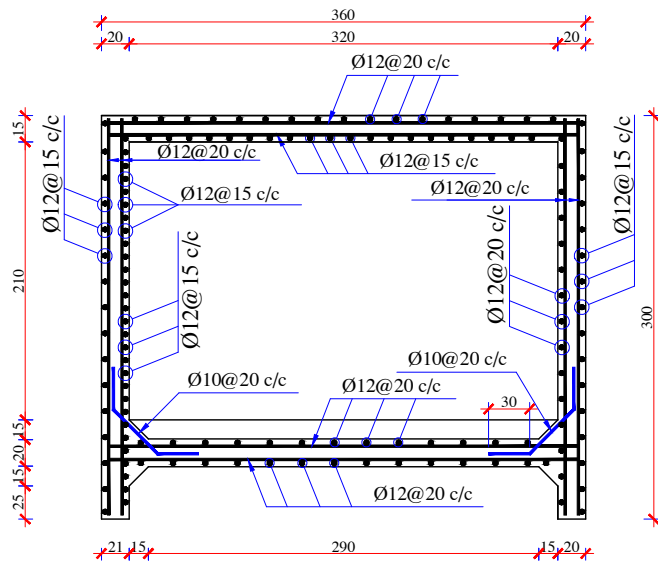
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| REVIEWED BY | |
| APPROVED BY | |

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| SCALE | |
| DATE | |
| DRAWING NO | |

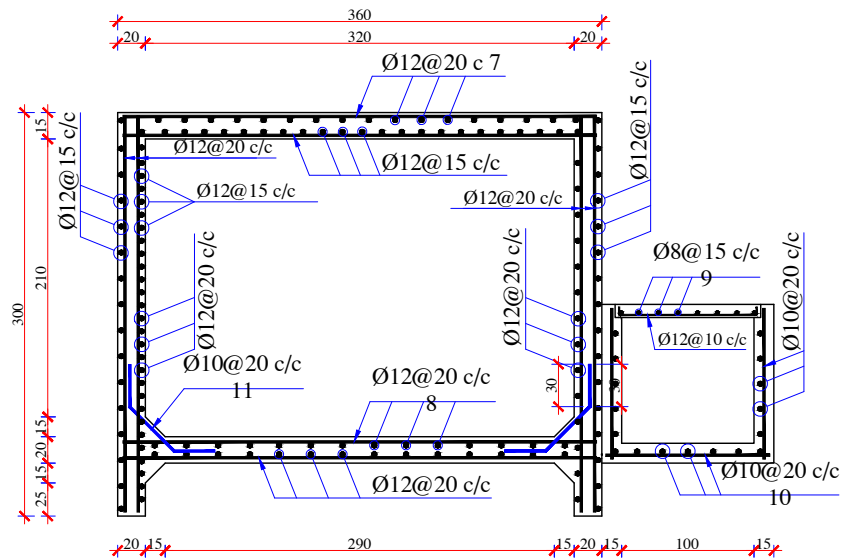
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| SHEET NO. | 2/3 |
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| PROVINCE | |
| DISTRICT | |
| VILLAGE | |

| | |
|---------------|------------------------------------|
| PROJECT NAME | 20 Cubic meter RCC Water Reservoir |
| DRAWING TITLE | Reinforcement Plan and Section B-B |



SECTION C-C



SECTION D-D



| | | | | | | |
|--|-------------|-------------|-------------|------------------|----------|--|
| MRRD TIS AFGHANISTAN Ministry of Rural Rehabilitation and Development WatSIP | SURVEYED BY | CHECKED BY | SCALE | SHEET NO. 3/3 | PROVINCE | PROJECT NAME |
| | DESIGNED BY | REVIEWED BY | DATE | | DISTRICT | 20 Cubic meter RCC Water Reservoir |
| | DRAWN BY | APPROVED BY | DRAWING NO. | | VILLAGE | DRAWING TITLE |
| | | | | | | Section C-C and Section D-D Reinforcement |