



Date: 29/4/2024

REQUEST FOR QUOTATION: RFQ20240005

FOR THE SUPPLY OF: Irrigation preferred supplier from May 2024 to May 2025

QUOTATION TO BE RECEIVED BY: 16/05/2024 COB

The LEBANON REFORESTATION INITIATIVE requests your price quotation for the supply of Irrigation Materials - Irrigation Systems preferred supplier for the period of May 2024 till May 2025 for its projects in Lebanon. The selected provider needs to be able to maintain the quoted prices for the whole mentioned period. The quantities that will be ordered are based on the project needs. Each vendor will be evaluated on quality of service and competitive prices while responding to the specifications mentioned in this Request for Quotation (RFQ).

1. All quotes provided should meet the specification(s) listed, and include the following information for the criteria listed, which shall be used in evaluating the best bidder:

*Please quote us your best price as per below:

Item	Qty	Price
Irrigation Material (List of items attached to this RFQ)	1.00	
Irrigation System (Design - technical supervision - installation attached to this RFQ)	1.00	
Delivery to Shouf - Bekaa - North - South - Metn and Keserwan	1.00	

2- PROPOSAL PREPARATION AND SUBMISSION REQUIREMENTS:

A- Technical proposal: the service provider needs to provide the below:

*Company documents (MOF registration, VAT registration (if applicable), Commercial register, bank account details, Company Authorized Representative name)

*Capabilities statement including years of the company's experience in the sector, portfolio of customers with similar contracts, delivery time for orders, customer service and flexibility towards repair, return and exchange

B- Financial proposal: the service provider shall submit a quotation in response to the above needed items. The quotation should specify the payment terms (method, timeline).

3- CRITERIA FOR EVALUATION:

LRI will evaluate proposals based on a best-value determination using the following criteria:

* Products Quality: 30% * Proposed Budget: 40%

* Service Quality: 30%

4- QUOTE SUBMISSION DEADLINE : Date 16/05/2024 COB at 4:00pm (GMT +3)

PAYMENT TERMS:

- All invoices should be stamped with a stamp as per MOF regulations.
- Payments are processed via (a) wire transfer, or (b) telegraphic transfer to the beneficiary
- In case of telegraphic transfers, please provide us with the name of the person who will be collecting the funds, his phone number, photo of ID as well as preferred Bank Audi branch
- For cumulative payments up to USD 3,000, LRI can issue telegraphic transfers to suppliers with cash withdrawal fees that the vendor approves to bare
- For amounts exceeding USD 3,000, payments will be processed via wire transfers to fresh accounts
- Wire transfers to external accounts in Bank Audi are free of charge as for transfers to any other bank, fees will be shared between both parties
- Payments will be issued within 15 to 30 days from date of invoice acceptance

6- CONTRACT MECHANISM:

LRI will award the contract to one or more suppliers by signing a Blanket Purchase Order (framework agreement) with the selected provider(s). During the agreement period, LRI will sign a specific Purchase Order with the provider for every confirmed order. The framework agreement may be extended for an additional period of 6 months, subject to mutual agreement between both parties.

7- MODE OF SUBMISSION OF QUOTE:

Quote(s) shall be submitted by email to:

Name: Procurement Office
Address: Hekmeh Jdeideh St., Sagesse Theater Building, 2nd & 3rd floors, Jdeideh, Lebanon.
Email: procurement@lri-lb.org
Phone: 01 - 872 785



SPECIAL CONDITIONS

SOURCE AND NATIONALITY INFORMATION

Lebanon Reforestation Initiative retains the right to request an original certificate of source for any item being procured under this RFQ. No items may be provided from a prohibited source and must be available in country at the time of purchase.

VALIDITY OF QUOTES

Quotes submitted shall remain open for acceptance for a minimum of 30 days from the last date specified for receipt of quotes. The selected Bidder(s) shall supply the amounts of goods requested at the quoted prices for the delivery/performance period specified in this RFQ.

BASIS OF SELECTION

Bidders should provide their lowest competitive quotes. All Bidders will be notified in writing should there be a significant change to the listed requirements. A Purchase Order will be issued to the responsible Bidder that is judged to be most advantageous to Lebanon Reforestation Initiative in terms of quality of service, delivery schedule and cost. Lebanon Reforestation Initiative may accept any item or group of items of a bid. Lebanon Reforestation Initiative reserves the right to make an award on any item for a quantity less than the quantity stated, at the unit prices quoted.

Lebanon Reforestation Initiative may reject any quote that is determined to be nonresponsive. A responsive quote is one that complies with all terms and conditions of the RFQ. A quote must be complete, signed by an authorized signatory and delivered no later than the submission time and date indicated on the first page of this RFQ. Lebanon Reforestation Initiative may reserve the right to waive any minor discrepancies in a quote.

This RFQ does not legally obligate Lebanon Reforestation Initiative to award a contract. Lebanon Reforestation Initiative reserves the right to fund/award any or none of the submitted quotes. No commitment is made, either expressed or implied, to compensate Bidders for costs incurred in the preparation and submission of their quotes.

ANTI-TERRORISM CERTIFICATION

The Bidder, to the best of its current knowledge, did not provide within the previous 10 years, and will take all reasonable steps to ensure that it does not and will not knowingly provide, material support or resources to any individual or entity that commits, attempts to commit, advocates, facilitates, or participates in terrorist acts, or has committed, attempted to commit, facilitated, or participated in terrorist acts.

The Bidder also verifies that it does not appear on

1. List of Parties Excluded from Federal Procurement and Non-Procurement Programs (<https://www.sam.gov>);
2. Specially Designated Nationals List (<http://sdnsearch.ofac.treas.gov/Default.aspx>); and
3. The list established and maintained by the United Nations 1267 Committee with respect to individuals, groups, undertakings and other entities associated with Al-Qaida (<https://www.un.org/sc/suborg/sites/www.un.org.sc.suborg/files/1267.htm>).



IRRIGATION BILL OF QUANTITIES

SUBJECT	MATERIALS FOR IRRIGATION SYSTEMS FOR FOREST TREES NURSERIES, REFORESTATION SITES AND AGROFORESTRY PROJECTS			
DATE				
ITEM DESCRIPTION	QTY	NET UNIT PRICE / US\$ (VAT EXCLUDED)	VAT, 11% / US\$	NET UNIT PRICE / US\$ (VAT INCLUDED)
POLYETHYLENE PIPES				
HDPE PIPE 100% VIRGIN MATERIALS, 63mm, PN30, PE100, 10.5mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 63mm, PN25, PE100, 8.6mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 63mm, PN20, PE100, 7.1mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 63mm, PN16, PE100, 5.8mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 63mm, PN10, PE100, 3.8mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 63mm, PN6 PE80 / PN8 PE100, 3.0mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 50mm, PN30, PE100, 8.3mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 50mm, PN25, PE100, 6.9mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 50mm, PN20, PE100, 5.6mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 50mm, PN16, PE100, 4.7mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 50mm, PN10, PE100, 3.0mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 50mm, PN6 PE80 / PN8 PE100, 2.4mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 40mm, PN20, PE100, 4.5mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 40mm, PN16, PE100, 3.7mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 40mm, PN10, PE100, 2.4mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 40mm, PN6 PE80 / PN8 PE100, 2.0mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 32mm, PN20, PE100, 3.6mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			

ITEM DESCRIPTION	QTY	NET UNIT PRICE / US\$ (VAT EXCLUDED)	VAT, 11% / US\$	NET UNIT PRICE / US\$ (VAT INCLUDED)
POLYETHYLENE PIPES				
HDPE PIPE 100% VIRGIN MATERIALS, 32mm, PN16, PE100, 3.0mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 32mm, PN10, PE100, 1.9mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 32mm, PN6 PE80 / PN8 PE100, 1.8mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 25mm, PN20, PE100, 3.0mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 25mm, PN16, PE100, 2.3mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 25mm, PN10, PE100, 1.8mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
HDPE PIPE 100% VIRGIN MATERIALS, 25mm, PN6 PE80 / PN8 PE100, 1.7mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
LDPE PIPE 100% VIRGIN MATERIALS, 20mm, PN4, PE40, 1.5mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
LDPE PIPE 100% VIRGIN MATERIALS, 16mm, PN4, PE40, 1.3mm WALL THICKNESS, ACCORDING TO EN 12201-2 OR DIN 8074/8075	1			
FLEXIBLE HOSES FOR MANUAL IRRIGATION				
FLEXIBLE GARDEN HOSE, 1/2" O.D., MADE OF PVC SYNTHESIS MATERIALS WITH NET SHAPED POLYESTER FIBER, 3.6mm MINIMUM WALL THICKNESS, MINIMUM 11.2Kg COIL WEIGHT, WITHSTAND HIGH PRESSURE UP TO 2 Bars, 40m/Coil	1 Coil			
IRRIGATION PUMPS AND ACCESSORIES				
HIGH PRESSURE IRRIGATION PUMP SET (37Kg GROSS WEIGHT), GAZOLINE AIR COOLED ENGINE, 5HP AT 3600RPM, SELF PRIMING CENTRIFUGAL PUMP, 2" x 2" MALE THREADED CONNECTIONS, TOTAL HEAD 90m, 150l/min FLOW AT 65m HEAD, 3.1 LITRES FUEL TANK, WITH ENGINE TOOL KIT AND 1Kg OF LUBRICANT	1			
HIGH PRESSURE IRRIGATION PUMP SET (25Kg GROSS WEIGHT), GAZOLINE AIR COOLED ENGINE, 6.0HP AT 3600RPM, SELF PRIMING CENTRIFUGAL PUMP, 2" x 2" MALE THREADED CONNECTIONS, TOTAL HEAD 50m, 150l/min FLOW AT 40m MAX. HEAD, 2.5 LITRES FUEL TANK, WITH ENGINE TOOL KIT AND 1Kg OF LUBRICANT	1			
IRRIGATION PUMP SET (22Kg GROSS WEIGHT), GAZOLINE AIR COOLED ENGINE, 3.0HP AT 3600RPM, SELF PRIMING CENTRIFUGAL PUMP, 2" x 2" MALE THREADED CONNECTIONS, TOTAL HEAD 30m, 150l/min FLOW AT 25m MAX. HEAD, 2.0 LITRES FUEL TANK, WITH ENGINE TOOL KIT AND 1Kg OF LUBRICANT	1			
ELECTRIC SUBMERSIBLE PUMP 8.0m ³ /h AT 120m HEAD, 5.5HP, 4.0KW, THREEPHASE MOTOR, 2" OUTLET, 4" BODY, STAINLESS STEEL NON-RETURN VALVE	1			
ELECTRIC SUBMERSIBLE PUMP 6.0m ³ /h AT 115m HEAD, 4.0HP, 3.0KW, THREEPHASE MOTOR, 2" OUTLET, 4" BODY, STAINLESS STEEL NON-RETURN VALVE	1			
ELECTRIC SUBMERSIBLE PUMP 3.0m ³ /h AT 140m HEAD, 3.0HP, 2.2KW, THREEPHASE MOTOR, 1"1/4 OUTLET, 4" BODY, STAINLESS STEEL NON-RETURN VALVE	1			

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IRRIGATION PUMPS AND ACCESSORIES				
ELECTRIC SUBMERSIBLE PUMP 4.0m ³ /h AT 80m HEAD, 2.0HP, 1.5KW, MONOPHASE MOTOR, WITH ELECTRIC PANEL BOAD INCLUDING CAPACITOR AND THERMAL OVERLOAD 1"1/4 OUTLET, 4" BODY, STAINLESS STEEL NON-RETURN VALVE	1			
ELECTRIC SUBMERSIBLE PUMP 4.0m ³ /h AT 60m HEAD, 1.5HP, 1.1KW, MONOPHASE MOTOR, WITH ELECTRIC PANEL BOAD INCLUDING CAPACITOR AND THERMAL OVERLOAD 1"1/4 OUTLET, 4" BODY, STAINLESS STEEL NON-RETURN VALVE	1			
STAINLESS STEEL SUBMERSIBLE PUMP, 1.5HP, 1,100KW, SINGLE PHASE, 4.5m ³ /h AT 25m HEAD, 1" OUTLET, POLYPROPYLENE IMPELLER, WITH FLOAT SWITCH	1			
STAINLESS STEEL SUBMERSIBLE PUMP, 1.2HP, 0.9KW, SINGLE PHASE, 3m ³ /h AT 26m HEAD, 1" OUTLET, POLYPROPYLENE IMPELLER, WITH FLOAT SWITCH	1			
CENTRIFUGAL PUMP, 3HP, 2.2KW, THREE PHASE, MINIMUM 12m ³ /h AT 34m HEAD	1			
CENTRIFUGAL PUMP, 2HP, 1.5KW, SINGLE PHASE, MINIMUM 9m ³ /h AT 30m HEAD	1			
CENTRIFUGAL PUMP, 1.5HP, 1.1KW, SINGLE PHASE, MINIMUM 6m ³ /h AT 28m HEAD	1			
CENTRIFUGAL PUMP, 1.0HP, 0.75KW, SINGLE PHASE, MINIMUM 3m ³ /h AT 26m HEAD	1			
STEEL BASE NEEDED TO INSTALL VERTICALLY OR HORIZONTALLY SUBMERSIBLE PUMP INSIDE RESERVOIR	1			
GALVANIZED STEEL BASE U SHAPE FOR ELECTRICAL PANEL BOARD, 2.0m HEIGHT, MADE FROM 1"1/4 GALVANIZED STEEL PIPES AND FITTINGS	1			
<p>PROFESSIONAL ELECTRIC PANEL BOARD, COMPLETE ASSEMBLY, WITH ALL SAFETY DEVICES AND CONNECTIONS FOR THREEPHASE IRRIGATION PUMP CONSISTING OF THE FOLLOWING DEVICES:</p> <ul style="list-style-type: none"> - 1 WATER-PROOF IP55 POWDER COATED STEEL CABINET 0.60m x 0.40m x 0.30m MINIMUM DIMENSIONS INSTALLED INSIDE WATER-PROOF IP55 POWDER COATED STEEL CABINET 0.70m x 0.50m x 0.35m MINIMUM DIMENSIONS. - 1 THREE PHASE CIRCUIT BREAKER. - 1 THREE PHASE 380V CONTACTOR WITH THERMAL OVERLOAD - 1 VOLTAGE RELAY DEVICE TO PROTECT PUMP FROM PHASE FAILURE. - 3 LEVEL PROBES. - 1 LEVEL RELAY DEVICE TO WHICH THE 3 LEVEL PROBES WILL BE CONNECTED. - VOLTAGE AND AMPERAGE LCD DISPLAY SCREEN, 4 WARNING / OPERATION LAMPS AND ELECTRIC METER MODULE FIXED ON THE FACE OF THE STEEL CABINET. 	1			
<p>PROFESSIONAL ELECTRIC PANEL BOARD, COMPLETE ASSEMBLY, WITH ALL SAFETY DEVICES AND CONNECTIONS FOR MONOPHASE IRRIGATION PUMP CONSISTING OF THE FOLLOWING DEVICES:</p> <ul style="list-style-type: none"> - 1 WATER-PROOF IP55 POWDER COATED STEEL CABINET 0.50m x 0.30m x 0.20m MINIMUM DIMENSIONS INSTALLED INSIDE WATER-PROOF IP55 POWDER COATED STEEL CABINET 0.60m x 0.40m x 0.30m MINIMUM DIMENSIONS. - 1 MONOPHASE CIRCUIT BREAKER. - 3 LEVEL PROBES. - 1 LEVEL RELAY DEVICE TO WHICH THE 3 LEVEL PROBES WILL BE CONNECTED. - ON/OFF SWITCH FIXED ON THE FACE OF THE STEEL CABINET 	1			

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IRRIGATION PUMPS AND ACCESSORIES				
ELECTRIC LEVEL RELAY PANEL BOARD, COMPLETE ASSEMBLY, WITH THE FOLLOWING DEVICES: - 1 WATER-PROOF IP55 POWDER COATED STEEL CABINET. - 1 MONO PHASE CIRCUIT BREAKER. - 1 THREE PHASE CIRCUIT BREAKER. - 1 THREE PHASE 380V CONTACTOR. - 3 LEVEL PROBES. - 1 LEVEL RELAY DEVICE TO WHICH THE 3 LEVEL PROBES WILL BE CONNECTED. - 2 WARNING / OPERATION LAMPS FIXED ON THE FACE OF THE STEEL CABINET.	1			
PLASTIC WATER PROOF IP66 ELECTRICAL ISOLATOR SWITCH, 2 POLES, 220V, 20Amps	1			
ELECTRICAL WATER LEVEL PROBES	1			
ELECTRICAL FLOAT SWITCH, 10m LENGTH CABLE	1			
ELECTRIC ALUMINUM TWISTED CABLE AS THREE PHASE POWER SUPPLY CABLE FROM POWER SOURCE TO PUMPS LOCATIONS, 4 WIRES x 25mm ²	1			
ELECTRIC ALUMINUM TWISTED CABLE AS THREE PHASE POWER SUPPLY CABLE FROM POWER SOURCE TO PUMPS LOCATIONS, 4 WIRES x 16mm ²	1			
ELECTRIC ALUMINUM TWISTED CABLE AS THREE PHASE POWER SUPPLY CABLE FROM POWER SOURCE TO PUMPS LOCATIONS, 2 WIRES x 16mm ²	1			
ELECTRIC CABLE, 3 WIRES x 6mm ²	1			
ELECTRIC CABLE, 3 WIRES x 4mm ²	1			
ELECTRIC CABLE, 3 WIRES x 2.5mm ²	1			
ELECTRIC CABLE, 3 WIRES x 1.5mm ²	1			
ELECTRIC CABLE, 2 WIRES x 2.5mm ²	1			
FERTIGATION STATION				
PLASTIC DISC FILTER, 2", 1,000cm ² MINIMUM FILTRATION AREA, 30m ³ /h MAXIMUM FLOW, 120mesh, 8 bar MAXIMUM WORKING PRESSURE	1			
PLASTIC DISC FILTER, 2", 520cm ² FILTRATION AREA, 25m ³ /h MAXIMUM FLOW, 120mesh, 8 bar MAXIMUM WORKING PRESSURE	1			
PLASTIC DISC FILTER, 1 1/2", 290cm ² FILTRATION AREA, 14m ³ /h MAXIMUM FLOW, 120mesh, 8 bar MAXIMUM WORKING PRESSURE	1			
PLASTIC DISC FILTER, 1", 175cm ² FILTRATION AREA, 6m ³ /h MAXIMUM FLOW, 120mesh, 8 bar MAXIMUM WORKING PRESSURE	1			
FERTILIZER INJECTOR, 1" MALE CONNECTIONS, WITH BUILT-IN CHECK VALVE, TRANSPARENT SUCTION PIPE AND FOOT STRAINER	1			
FERTILIZER INJECTOR, 3/4" MALE CONNECTIONS, WITH BUILT-IN CHECK VALVE, TRANSPARENT SUCTION PIPE AND FOOT STRAINER	1			
50mm GLYCERINE FILLED PRESSURE GAUGE, STAINLESS STEEL BODY, 0 - 10 bar	1			
STEEL BASE FOR FILTRATION STATION, 1.20m HEIGHT, WITH 50 - 63mm PIPE CLAMP WITH RUBBER	1			

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DRIPLINES				
PRESSURE COMPENSATING DRIPLINE FROM 0.5 TO 3.5bar, SELF FLUSHING, ANTI-SIPHON, SILICON DIAPHRAGM WITHSTAND ACID DOWN TO PH2, CV < 3%, BLACK COLOR, 16mm O.D., FLAT EMITTER 3.8l/h OR 2.4l/h CONSTANT FLOW, 50cm SPACING BETWEEN EMITTERS, 1.0mm MINIMUM WALL THICKNESS	1 m			
CLASSIC DRIPLINE, BLACK COLOR, 17mm O.D., FLAT EMITTER 3.1/h at 0.7bar / 3.8l/h at 1bar , 40cm SPACING BETWEEN EMITTERS, 0.6mm (24mil) MINIMUM WALL THICKNESS, PN4	1 m			
PIPE STAKE HOLDER 16mm	1			
UPSIDE-DOWN MICROSPRAYERS				
UPSIDE-DOWN MIST ATOMIZER, 90l/h / 70l/h FLOW, 0.8 to 1m RADIUS COVERAGE, 0.8 to 1m2 COVERED AREA/HEAD, WITH CHECK VALVE AND 40cm LENGTH MICROTUBE WITH 40gr. WEIGHT STABILIZER	1			
PUNCHER 3mm, STEEL NOZZLE	1			
DUCTILE IRON GATE VALES, NON-RETURN VALVES AND FITTINGS				
DUCTILE IRON GATE VALVE 50mm DOUBLE FLANGED, PN25	1			
DUCTILE IRON GATE VALVE 50mm DOUBLE FLANGED, PN16	1			
DUCTILE IRON NON-RETURN VALVE 50mm DOUBLE FLANGED, PN40	1			
DUCTILE IRON NON-RETURN VALVE 50mm DOUBLE FLANGED, PN16	1			
DUCTILE IRON TEE 50mm ALL FLANGED, PN16	1			
AIR VENTS				
DUCTILE IRON AIR RELEASE VALVE 1", PN25, WITH 1" MALE THREADED BRASS NICKEL PLATED BALL VALVE	1			
DUCTILE IRON AIR RELEASE VALVE 1", PN16, WITH 1" MALE THREADED BRASS NICKEL PLATED BALL VALVE	1			
DUCTILE IRON FEMALE SADDLE 63 x 1", PN16	1			
DUCTILE IRON FEMALE SADDLE 50 x 1", PN16	1			
PLASTIC AIR RELEASE VALVE, KINETIC SERIES, PLASTIC BODY, 1" MALE THREADED, PN16	1			
BRASS GATE AND BALL VALVES				
BRASS GATE VALVE, 2", 16 bar	1			
BRASS GATE VALVE, 1"1/2, 16 bar	1			
BRASS GATE VALVE, 1"1/4, 16 bar	1			
BRASS GATE VALVE, 1", 16 bar	1			
BALL VALVE, BRASS NICKEL PLATED, 2", 25 bar	1			
BALL VALVE, BRASS NICKEL PLATED, 1"1/2, 25 bar	1			
BALL VALVE, BRASS NICKEL PLATED, 1"1/4, 25 bar	1			

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BRASS GATE AND BALL VALVES				
BALL VALVE, BRASS NICKEL PLATED, 1", 30 bar	1			
BALL VALVE, BRASS NICKEL PLATED, 3/4", 30 bar	1			
BALL VALVE, BRASS NICKEL PLATED, 1/2", 30 bar	1			
BALL VALVE, BRASS NICKEL PLATED, T HANDLE, 3/4" F., 40 bar	1			
BALL VALVE, BRASS NICKEL PLATED, T HANDLE, 1/2" F., 50 bar	1			
SWING CHECK VALVE WITH BRASS PLATE, BRASS BODY, 2", 10 bar	1			
SWING CHECK VALVE WITH BRASS PLATE, BRASS BODY, 1"1/2, 10 bar	1			
SWING CHECK VALVE WITH BRASS PLATE, BRASS BODY, 1"1/4, 10 bar	1			
SWING CHECK VALVE WITH BRASS PLATE, BRASS BODY, 1", 10 bar	1			
CHECK VALVE WITH STAINLESS STEEL SPRING, PLATE IN STAINLESS STEEL, WASHER IN NBR, BRASS BODY, 2", 18 bar	1			
CHECK VALVE WITH STAINLESS STEEL SPRING, PLATE IN STAINLESS STEEL, WASHER IN NBR, BRASS BODY, 1"1/2, 18 bar	1			
CHECK VALVE WITH STAINLESS STEEL SPRING, PLATE IN STAINLESS STEEL, WASHER IN NBR, BRASS BODY, 1"1/4, 18 bar	1			
CHECK VALVE WITH STAINLESS STEEL SPRING, PLATE IN STAINLESS STEEL, WASHER IN NBR, BRASS BODY, 1", 18 bar	1			
Y STRAINER WITH STAINLESS STEEL SCREEN, BRASS BODY, 2", 20 bar	1			
Y STRAINER WITH STAINLESS STEEL SCREEN, BRASS BODY, 1"1/2, 20 bar	1			
Y STRAINER WITH STAINLESS STEEL SCREEN, BRASS BODY, 1"1/4, 20 bar	1			
FOOT VALVE WITH STAINLESS STEEL SPRING AND SCREEN, PLATE IN POLYMER, WASHER IN NBR, BRASS BODY, 2", 10 bar	1			
FOOT VALVE WITH STAINLESS STEEL SPRING AND SCREEN, PLATE IN POLYMER, WASHER IN NBR, BRASS BODY, 1"1/2, 10 bar	1			
FOOT VALVE WITH STAINLESS STEEL SPRING AND SCREEN, PLATE IN POLYMER, WASHER IN NBR, BRASS BODY, 1"1/4, 10 bar	1			
BIBCOCK HOSE END, BRASS NICKEL PLATED, 3/4", 15 bar	1			
BIBCOCK HOSE END, BRASS NICKEL PLATED, 1/2", 15 bar	1			
PVC BALL VALVES, 16 bar				
UPVC BALL VALVE 2", SINGLE UNION, FEMALE THREADED PN16	1			
UPVC BALL VALVE 1"1/2, SINGLE UNION, FEMALE THREADED PN16	1			
UPVC BALL VALVE 1"1/4, SINGLE UNION, FEMALE THREADED PN16	1			
UPVC BALL VALVE 1", SINGLE UNION, FEMALE THREADED PN16	1			
UPVC BALL VALVE 3/4", SINGLE UNION, FEMALE THREADED PN16	1			

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PVC BALL VALVES, 16 bar				
UPVC BALL VALVE 63mm COMPRESSION x 2", SINGLE UNION, FEMALE THREADED PN16	1			
UPVC BALL VALVE 50mm COMPRESSION x 1"1/2, SINGLE UNION, FEMALE THREADED PN16	1			
UPVC BALL VALVE 40mm COMPRESSION x 1"1/4, SINGLE UNION, FEMALE THREADED PN16	1			
UPVC BALL VALVE 32mm COMPRESSION x 1", SINGLE UNION, FEMALE THREADED PN16	1			
UPVC BALL VALVE 25mm COMPRESSION x 3/4", SINGLE UNION, FEMALE THREADED PN16	1			
BUTT WELDING AND ELECTROFUSION FITTINGS				
BUTT WELDING FLANGE ADAPTOR 63mm x 50mm PN25, WITH BACKING FLANGE AND 1 SET OF 50mm JOINT, BOLTS, NUTS AND WASHERS	1			
BUTT WELDING FLANGE ADAPTOR 63mm x 50mm PN16, WITH BACKING FLANGE AND 1 SET OF 50mm JOINT, BOLTS, NUTS AND WASHERS	1			
BUTT WELDING FLANGE ADAPTOR 50mm x 50mm PN25, WITH BACKING FLANGE AND 1 SET OF 50mm JOINT, BOLTS, NUTS AND WASHERS	1			
BUTT WELDING FLANGE ADAPTOR 50mm x 50mm PN16, WITH BACKING FLANGE AND 1 SET OF 50mm JOINT, BOLTS, NUTS AND WASHERS	1			
BUTT WELDING FLANGE ADAPTOR 50mm x 40mm PN25, WITH BACKING FLANGE AND 1 SET OF 40mm JOINT, BOLTS, NUTS AND WASHERS	1			
BUTT WELDING FLANGE ADAPTOR 50mm x 40mm PN16, WITH BACKING FLANGE AND 1 SET OF 40mm JOINT, BOLTS, NUTS AND WASHERS	1			
ELECTROFUSION COUPLING 63mm PN25	1			
ELECTROFUSION COUPLING 63mm PN16	1			
ELECTROFUSION COUPLING 50mm PN25	1			
ELECTROFUSION COUPLING 50mm PN16	1			
ELECTROFUSION ELOBW 63mm PN25	1			
ELECTROFUSION ELOBW 63mm PN16	1			
ELECTROFUSION ELOBW 50mm PN25	1			
ELECTROFUSION ELOBW 50mm PN16	1			
STEEL FLANGE 50mm x 2" FEMALE THREADED PN16	1			
STEEL FLANGE 50mm x 1"1/2 FEMALE THREADED PN16	1			
STEEL FLANGE 40mm x 1"1/4 FEMALE THREADED PN16	1			
SET OF 50mm JOINT, BOLTS, NUTS AND WASHERS, PN25	1			
SET OF 50mm JOINT, BOLTS, NUTS AND WASHERS, PN16	1			

ITEM DESCRIPTION	QTY	NET UNIT PRICE / US\$ (VAT EXCLUDED)	VAT, 11% / US\$	NET UNIT PRICE / US\$ (VAT INCLUDED)
POLYETHYLENENE COMPRESSION FITTINGS, 16 bar				
FLANGED COMPRESSION ADAPTOR 63mm x 50mm FLANGED PN16 WITH 1 SET OF PN16 JOINT, BOLTS, NUTS AND WASHERS	1			
FLANGED COMPRESSION ADAPTOR 50mm x 50mm FLANGED PN16 WITH 1 SET OF PN16 JOINT, BOLTS, NUTS AND WASHERS	1			
MALE ADAPTOR 63 x 2"	1			
MALE ADAPTOR 50 x 2"	1			
MALE ADAPTOR 50 x 1"1/2	1			
MALE ADAPTOR 50 x 1"1/4	1			
MALE ADAPTOR 40 x 1"1/2	1			
MALE ADAPTOR 40 x 1"1/4	1			
MALE ADAPTOR 32 x 1"1/4	1			
MALE ADAPTOR 32 x 1"	1			
MALE ADAPTOR 25 x 1"	1			
MALE ADAPTOR 25 x 3/4"	1			
FEMALE ADAPTOR 63 x 2"	1			
FEMALE ADAPTOR 50 x 2"	1			
FEMALE ADAPTOR 50 x 1"1/2	1			
FEMALE ADAPTOR 40 x 1"1/2	1			
FEMALE ADAPTOR 40 x 1"1/4	1			
ELBOW 63 x 63	1			
ELBOW 50 x 50	1			
ELBOW 40 x 40	1			
ELBOW 32 x 32	1			
ELBOW 25 x 25	1			
FEMALE ELBOW 63 x 2"	1			
FEMALE ELBOW 50 x 1"1/2	1			
FEMALE ELBOW 40 x 1"1/4	1			
FEMALE ELBOW 32 x 1"	1			
FEMALE ELBOW 25 x 3/4"	1			
TEE 63 x 63 x 63	1			
TEE 50 x 50 x 50	1			
TEE 40 x 40 x 40	1			
TEE 32 x 32 x 32	1			

ITEM DESCRIPTION	QTY	NET UNIT PRICE / US\$ (VAT EXCLUDED)	VAT, 11% / US\$	NET UNIT PRICE / US\$ (VAT INCLUDED)
POLYETHYLENENE COMPRESSION FITTINGS, 16 bar				
TEE 25 x 25 x 25	1			
REDUCING TEE 63 x 50 x 63	1			
REDUCING TEE 50 x 40 x 50	1			
REDUCING TEE 40 x 32 x 40	1			
REDUCING TEE 32 x 25 x 32	1			
FEMALE TEE 63 x 2" x 63	1			
FEMALE TEE 63 x 1"1/2 x 63	1			
FEMALE TEE 50 x 2" x 50	1			
FEMALE TEE 50 x 1"1/2 x 50	1			
FEMALE TEE 50 x 1"1/4 x 50	1			
FEMALE TEE 40 x 1"1/2 x 40	1			
FEMALE TEE 40 x 1"1/4 x 40	1			
FEMALE TEE 40 x 1" x 40	1			
FEMALE TEE 32 x 1"1/4 x 32	1			
FEMALE TEE 32 x 1" x 32	1			
FEMALE TEE 32 x 3/4" x 32	1			
FEMALE TEE 25 x 1" x 25	1			
FEMALE TEE 25 x 3/4" x 25	1			
COUPLING 63 x 63	1			
COUPLING 50 x 50	1			
COUPLING 40 x 40	1			
COUPLING 32 x 32	1			
COUPLING 25 x 25	1			
REDUCING COUPLING 63 x 50	1			
REDUCING COUPLING 50 x 40	1			
REDUCING COUPLING 40 x 32	1			
REDUCING COUPLING 32 x 25	1			
END PLUG 63	1			
END PLUG 50	1			
END PLUG 40	1			
END PLUG 32	1			
END PLUG 25	1			

ITEM DESCRIPTION	QTY	NET UNIT PRICE / US\$ (VAT EXCLUDED)	VAT, 11% / US\$	NET UNIT PRICE / US\$ (VAT INCLUDED)
PLASTIC FEMALE SADDLE FOR POLYETHYLENE PIPES, 16 bar, ANTI ROTATION SYSTEM DEVICE, STAINLESS STEEL REINFORCING RING AND STAINLESS STEEL BOLTS, WASHERS AND NUTS				
F. SADDLE 63 x 1"1/2	1			
F. SADDLE 63 x 1"1/4	1			
F. SADDLE 63 x 1"	1			
F. SADDLE 63 x 3/4"	1			
F. SADDLE 63 x 1/2"	1			
F. SADDLE 50 x 1"	1			
F. SADDLE 50 x 3/4"	1			
F. SADDLE 50 x 1/2"	1			
F. SADDLE 40 x 1"	1			
F. SADDLE 40 x 3/4"	1			
F. SADDLE 40 x 1/2"	1			
F. SADDLE 32 x 3/4"	1			
F. SADDLE 32 x 1/2"	1			
F. SADDLE 25 x 3/4"	1			
F. SADDLE 25 x 1/2"	1			
POLYETHYLENE THREADED FITTINGS, 4 bar				
FEMALE ELBOW 1" x 1"	1			
NIPPLE 2" x 2"	1			
NIPPLE 1"1/2 x 1"1/2	1			
NIPPLE 1"1/4 x 1"1/4	1			
NIPPLE 1" x 1"	1			
NIPPLE 3/4" x 3/4"	1			
NIPPLE 1/2" x 1/2"	1			
REDUCING NIPPLE 2" x 1"1/2	1			
REDUCING NIPPLE 1"1/2 x 1"1/4	1			
REDUCING NIPPLE 1"1/4 x 1"	1			
REDUCING NIPPLE 1" x 3/4"	1			
REDUCING NIPPLE 3/4" x 1/2"	1			
REDUCING SOCKET 2" x 1"1/2	1			
REDUCING SOCKET 1"1/2 x 1"1/4	1			

ITEM DESCRIPTION	QTY	NET UNIT PRICE / US\$ (VAT EXCLUDED)	VAT, 11% / US\$	NET UNIT PRICE / US\$ (VAT INCLUDED)
POLYETHYLENENE THREADED FITTINGS, 4 bar				
BUSHING 2" x 1"1/2	1			
BUSHING 1"1/2 x 1"1/4	1			
BUSHING 1"1/4 x 1"	1			
BUSHING 1" x 3/4"	1			
BUSHING 3/4" x 1/2"	1			
POLYETHYLENENE BARBED FITTINGS, 4 bar				
MALE ADAPTOR 20 mm BARBED x 3/4" MALE THREADED	1			
MALE ADAPTOR 20 mm BARBED WITH NUT x 3/4" MALE THREADED	1			
MALE ADAPTOR 16 mm BARBED x 3/4" MALE THREADED	1			
MALE ADAPTOR 16 mm BARBED WITH NUT x 3/4" MALE THREADED	1			
GROMMET TAKE OFF 20mm BARBED WITH 14mm RUBBER	1			
GROMMET TAKE OFF 20mm BARBED WITH NUT WITH 14mm RUBBER	1			
GROMMET TAKE OFF 17mm BARBED WITH NUT WITH 14mm RUBBER	1			
GROMMET TAKE OFF 16mm BARBED WITH 14mm RUBBER	1			
GROMMET TAKE OFF 16mm BARBED WITH NUT WITH 14mm RUBBER	1			
TEE 20 x 20 x 20 mm BARBED	1			
TEE 20 x 20 x 20 mm BARBED WITH NUT	1			
TEE 16 x 16 x 16 mm BARBED	1			
TEE 16 x 16 x 16 mm BARBED WITH NUT	1			
ELBOW 20 x 20 mm BARBED	1			
ELBOW 20 x 20 mm BARBED WITH NUT	1			
ELBOW 16 x 16 mm BARBED	1			
ELBOW 16 x 16 mm BARBED WITH NUT	1			
COUPLING 20 x 20 mm BARBED	1			
COUPLING 20 x 20 mm BARBED WITH NUT	1			
COUPLING 17 x 17 mm BARBED WITH NUT	1			
POLYETHYLENENE BARBED FITTINGS, 4 bar				
COUPLING 16 x 16 mm BARBED	1			
COUPLING 16 x 16 mm BARBED WITH NUT	1			
END STOP 20mm, EIGHT SHAPE	1			
END STOP 16mm, EIGHT SHAPE	1			

ITEM DESCRIPTION	QTY	NET UNIT PRICE / US\$ (VAT EXCLUDED)	VAT, 11% / US\$	NET UNIT PRICE / US\$ (VAT INCLUDED)
CAST IRON ACCESSORIES AND MISCELLANEOUS				
MALE ADAPTOR 1/2" M. x 14mm BARBED (BRASS OR CHROME)	1			
FEMALE ADAPTOR 1/2" F. WITH 1/2" RUBBER JOINT x 14mm BARBED, (BRASS OR CHROME)	1			
LONG ELBOW 2" MALE THREADED x 2" FEMALE THREADED (HE - STEEL GALVANIZED)	1			
LONG ELBOW 1"1/2 MALE THREADED x 1"1/2 FEMALE THREADED (HE - STEEL GALVANIZED)	1			
LONG ELBOW 1"1/4 MALE THREADED THREADED x 1"1/4 FEMALE THREADED (HE - STEEL GALVANIZED)	1			
NIPPLE 2" x 2" (GF - STEEL GALVANIZED)	1			
NIPPLE 2" x 2" (HE - STEEL GALVANIZED)	1			
NIPPLE 1"1/2 x 1"1/2 (GF - STEEL GALVANIZED)	1			
NIPPLE 1"1/2 x 1"1/2 (HE - STEEL GALVANIZED)	1			
NIPPLE 1"1/4 x 1"1/4 (GF - STEEL GALVANIZED)	1			
NIPPLE 1"1/4 x 1"1/4 (HE - STEEL GALVANIZED)	1			
NIPPLE 1" x 1" (HE - STEEL GALVANIZED)	1			
NIPPLE 3/4" x 3/4" (HE - STEEL GALVANIZED)	1			
NIPPLE 1/2" x 1/2" (HE - STEEL GALVANIZED)	1			
LONG NIPPLE 5cm, 1/2" x 1/2" (STEEL GALVANIZED)	1			
BUSHING 2" x 1"1/2 (HE - STEEL GALVANIZED)	1			
BUSHING 2" x 1"1/4 (HE - STEEL GALVANIZED)	1			
BUSHING 2" x 1" (HE - STEEL GALVANIZED)	1			
BUSHING 1"1/2 x 1"1/4 (HE - STEEL GALVANIZED)	1			
BUSHING 1"1/2 x 1" (HE - STEEL GALVANIZED)	1			
BUSHING 1"1/4 x 1" (HE - STEEL GALVANIZED)	1			
BUSHING 1" x 3/4" (HE - STEEL GALVANIZED)	1			
BUSHING 3/4" x 1/2" (HE - STEEL GALVANIZED)	1			
BUSHING 1/2" x 1/4" (BRASS)	1			
PIPE CLAMP, 3/4" (STEEL GALVANIZED)	1			
TEFLON TAPE, 12mm x 10m x 0.076mm (MADE IN CHINA)	1			
POLYETHYLENE TRANSPARENT PIPE, 16mm TO BE USED AS WATER LEVEL INDICATOR (MADE IN LEBANON)	1			
PREPARE FULL IRRIGATION DESIGN ON GOOGLE EARTH, IRRIGATION BILL OF QUANTITES AND IRRIGATION BUDGET FOR EACH REFORESTATION / AGROFORESTRY SITE	LUMP SUM / 1 SITE			
PREPARE FULL AUTOCAD IRRIGATION DESIGN, IRRIGATION BILL OF QUANTITES AND IRRIGATION BUDGET FOR EACH AGROFORESTRY SITE / NURSERY	LUMP SUM / 1 SITE			

ITEM DESCRIPTION	QTY	NET UNIT PRICE / US\$ (VAT EXCLUDED)	VAT, 11% / US\$	NET UNIT PRICE / US\$ (VAT INCLUDED)
SITE VISIT TO SITE IN PREPARATION FOR THE DESIGN FOR EACH REFORESTATION / AGROFORESTY SITE / NURSERY	LUMP SUM / 1 SITE			
DELIVERY OF IRRIGATION MATERIALS TO EACH REFORESTATION OR AGROFORESTRY SITE / NURSERY, COMPRISING MATERIALS TRANSPORTATION TO SITES	LUMP SUM / 1 SITE			
TECHNICAL ASSISTANCE TO THE LOCAL COMMUNITITES. TECHNICAL SUPPORT SHOULD BE DONE BY AN IRRIGATION ENGINEER AND COMPRISES SEGREGATION OF MATERIALS, PRESENTATION OF THE DESIGN (2 HARD COPIES OF THE DESIGN LAYOUT) AND TIPS FOR INSTALLATION AS NEEDED TO ACHIEVE THE OBJECTIVE OF THE PROJECT	LUMP SUM / 1 SITE			
SUPERVISION ON EXECUTION WORKS IN EACH REFORESTATION SITE / NURSERY. THE TEAM SUPERVISING THE IMPLEMENTATION SHALL COMPRISE 1 IRRIGATION ENGINEER AND 2 SKILLED WORKERS	1 DAY			
SUPERVISION ON EXECUTION WORKS IN EACH REFORESTATION SITE / NURSERY. THE TEAM SUPERVISING THE IMPLEMENTATION SHALL COMPRISE 1 IRRIGATION ENGINEER AND 1 SKILLED WORKER	1 DAY			
INSTALLATION AND SUPERVISION CHARGES AND HANDING OVER OF THE PROJECT. THE TEAM COMPRISES 1 IRRIGATION ENGINEER AND 4 SKILLED WORKERS	1 DAY			
INSTALLATION AND SUPERVISION CHARGES AND HANDING OVER OF THE PROJECT. THE TEAM COMPRISES 1 IRRIGATION ENGINEER AND 3 SKILLED WORKERS	1 DAY			
INSTALLATION AND SUPERVISION CHARGES AND HANDING OVER OF THE PROJECT. THE TEAM COMPRISES 1 IRRIGATION ENGINEER AND 2 SKILLED WORKERS	1 DAY			

Validity of the prices

: One year

Warranty:

: All irrigation materials listed above should have 3 years full warranty against any manufacturing defect starting the date of the delivery.