



REQUEST FOR QUOTES

Floriculture Material and Equipment for Demonstration Farm Greenhouses

**UNDER
THE HYDROPONIC SECTOR DEVELOPMENT IN LEBANON PROGRAM**

FUNDED BY



ASSOCIATE COOPERATIVE AGREEMENT No: 268-A-00-10-00045-00

Quotes Submission Deadline: 5:00 pm (EST), Monday, May 9th, 2011

Item Delivery Deadline (US): Friday, May 27th, 2011

Item Delivery Deadline (Lebanon): June 30, 2011

BACKGROUND INFORMATION

ACDI/VOCA is a private, nonprofit organization that promotes broad-based economic growth and the development of civil society in emerging democracies and developing countries. Offering a comprehensive range of technical assistance services, ACDI/VOCA addresses the most pressing and intractable development problems.

ACDI/VOCA is currently implementing the Hydroponic Sector Development in Lebanon Program which aims to establish a sustainable hydroponic greenhouse sector in Lebanon.

REQUEST FOR QUOTES

ACDI/VOCA is seeking quotes from qualified US vendors for the supply and delivery of material and equipment for floriculture for the 3 hydroponic greenhouses in accordance with the attached specifications.

There are several list included in the Annex bellow:

- LIST OF PLANT EQUIPMENT FOR FLORICULTURE
- LIST OF FERTILIZERS, PESTICIDES AND PESTICIDES EQUIPMENT FOR FLORICULTURE
- LIST OF IRRIGATION, COOLING AND HEATING SYSTEMS FOR FLORICULTURE
- LIST OF MATERIAL AND EQUIPMENT FOR FLORICULTURE POST-HARVEST TREATMENT AND PACKAGING

Interested vendors may submit bids for any of the lists or any combination of the lists, but must be able to provide all of the items in any one of the lists.

US MANUFACTURE REQUIREMENTS

In accordance with funding requirements, the material and equipment for floriculture treatment provided must be of US Origin. Vendors must certify that the items to be supplied in their bid are manufactured in the US and must be capable of supplying certificates of origin for the items if selected and required.

US NATIONALITY REQUIREMENTS

Vendors supplying quotes must be US nationals in accordance with the definition of Nationality found in 22 CFR 228.

AMERICAN FLAG SHIPPING

In accordance with funding requirements bidders are required to use U.S. flag commercial ocean vessels to transport the items from the USA to Beirut, Lebanon, to the extent that a U.S. flag vessel is available

SHIPPING AND DELIVERY

ACDI/VOCA is seeking quotes from qualified vendors for the supply and delivery of the Floriculture items in accordance with the attached specifications, CIF Port of Beirut, Lebanon. ACDI/VOCA reserves the right to request that the materials be shipped to a location in Virginia instead of Lebanon.

Shipping prices must be listed separately in the bids.

The items are to be delivered CIF Port of Lebanon no later than the 30th of June, 2011.

The selected vendor will be required to segregate and mark the items when shipped in accordance with the attached schedule identifying the greenhouse structure they are assigned to (by letter, H, A or S).

SELECTION CRITERIA

ACDI/VOCA will evaluate bids based on a best value determination, taking into account estimate time for delivery of goods to destination, the quality of goods being provided and the bid price. Only responsive bids meeting the specifications and requirements of this RFQ shall be considered for selection. The quality of the goods as an evaluation factor is weighted approximately equal to that of price. Bidding vendors must be able to deliver the items requested by the delivery date stated above.

ACDI/VOCA may accept any item or group of items of a bid, unless the bidder qualifies the bid by specific limitations. ACDI/VOCA reserves the right to make an award on any item for a quantity less than the quantity offered, at the unit prices offered, unless the bidder specifies otherwise in the bid

SUBMISSION REQUIREMENTS

Firms interested in submitting quotes for selection should include, at a minimum, the following information:

- Price Quotes:
 - The price/fees (inclusive of all taxes) and description for the items in accordance with the attached specifications.
 - The price (inclusive of all taxes and fees) for shipping the items to the final destination.
- A certification of the US origin (place of manufacture) of the items to be supplied
- Proposed payment terms (final payment terms shall be negotiated with the selected vendor).

SUBMISSIONS AND BID CLOSING TIME

All quotes must be submitted in writing either through fax or by email no later than 5:00pm US Eastern Standard time on Monday May 9th, 2011. Bids received after the stated closing time may be disqualified.

Submission Address:

Email: hrubeiz@acdivoca.org
Fax: +1 202.469.6257

ADDITIONAL INFORMATION

Questions regarding these RFQ instructions should be directed to Helen Rubeiz, hrubeiz@acdivoca.org.

DISCLAIMER

ACDI/VOCA reserves the right to fund/award any or none of the submitted quotes. No commitment is made either expressed or implied, to compensate applicants for costs incurred in preparing quotes.

ATTACHMENTS

Annex A: Specifications

ANNEX A
Specifications

LIST OF PLANT EQUIPMENT FOR FLORICULTURE

	Description	H	A	S	UNITS	TOTAL
	Plant Equipement					
1	Elevated Beds (1m*3.5m*0.3m)		10	9	ea.	19
2	Growing stand (GS system (double))		42	18	ea.	60
3	Growing beds (Troughs)			18	ea.	18
4	Growing Boxes (1m*1m*30cm)		39		ea.	39
5	Rolling Benches (2m*6m)	18			ea.	18
6	Pot (10 cm)	1400			ea.	1400
7	Pot (23 cm)			214	ea.	214
8	Pot (13 cm)	1680			ea.	1680
9	Trays (288 cells)	7			ea.	7
10	Mixes (Peat (250 Litre/Bag)	16	88	44	ea.	148
11	Mixes (Perite (100 Litre))	14	35	54	ea.	103
	TOTAL	3135	214	357		3706

LIST OF FERTILIZERS, PESTICIDES AND PESTICIDES EQUIPMENT FOR FLORICULTURE

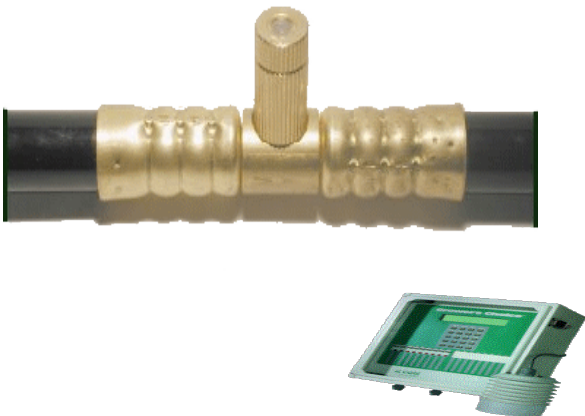
	Description	H	A	S	UNITS	TOTAL
	Fertilizer (Bags)					
1	Calcium nitrate		20	20	ea.	40
2	Iron chelate		10	10	ea.	20
3	Potassium nitrate		30	30	ea.	60
4	Mono potassium sulfate		10	10	ea.	20
5	Magnesium sulfate		10	10	ea.	20
6	Trace elements ready formulated		4	4	ea.	8
7	Peter Excel 20,20,20	5			ea.	5
8	Peter Excel 10,5,30	5			ea.	5
9	Controlled released fertilizer (25kg, 14,14,14)	5			ea.	5
10	Chemical sprayer (100 Liter)	1	1	1	ea.	3
	TOTAL	15	84	84		183
	Pesticide Safety Equipment					
1	Face Shield - Full	2	2	2	ea.	6
2	Goggles - Wrap Around - Vented	2	2	2	ea.	6
3	Respirator	2	2	2	ea.	6
4	Tyvek Coverall - With Hood - Med.	5	5	5	ea.	15
5	Tyvek Coverall - With Hood - Large	5	5	5	ea.	15
	TOTAL	16	16	16		48
	Pesticide					
1	Contactt (1L/1Kg)				ea.	1
2	nissorun (1L/1Kg)				ea.	1
3	oberon (1L/1Kg)				ea.	1
4	vertimec (1L/1Kg)				ea.	1
5	bn3 (1L/1Kg)				ea.	1
6	floromite (1L/1Kg)				ea.	1
7	appolo (1L/1Kg)				ea.	1
8	lazer (1L/1Kg)				ea.	1
9	lannate (1L/1Kg)				ea.	1
10	endosulfan (1L/1Kg)				ea.	1
11	rogor (1L/1Kg)				ea.	1
12	zennit (1L/1Kg)				ea.	1
13	confidor (1L/1Kg)				ea.	1
14	myclobutanil (1L/1Kg)				ea.	1
15	quadris (1L/1Kg)				ea.	1
16	sabithane (1L/1Kg)				ea.	1
17	mycap (1L/1Kg)				ea.	1
18	couppa (1L/1Kg)				ea.	1
19	methalaxyl (1L/1Kg)				ea.	1
20	scala (1L/1Kg)				ea.	1
21	avaunt (1L/1Kg)				ea.	1
22	prevent (1L/1Kg)				ea.	1
	TOTAL				ea.	22
1	Secateurs	2	5	5	ea.	12
2	Black out system (4 m* 20 m)			1	ea.	1

LIST OF IRRIGATION, COOLING AND HEATING SYSTEMS FOR FLORICULTURE

	Description	H	A	S	UNITS	TOTAL
	Irrigation system					
1	Tanks (1000 Litre)	1	3	3	ea.	7
2	Mixing Pump		2	2	ea.	4
3	Mixing table (Nutri dose 2, 4m3/h)		1	1	ea.	2
5	Instruments -Hanna 98129 pH/EC/TDS/Temp Tester	1			ea.	1
6	Pipes (Microtubes fitted with hoses at 30 cm sapce, 2l/h, 390m)		1	1	ea.	2
7	Pipes with Drippers (Driper 2L/h 100m for S&A and 288m for H)	1	1	1	ea.	3
8	Solenoid valves (1 inch)	24	8	8	ea.	40
9	Main Pipe (2 inch)	1	1	1	ea.	3
10	Main Pump (2.5hp)	1	1	1	ea.	3
11	Filter (sand filter) up to 81000 litre,155 kg sand and 40 mm Ports		1	1	ea.	2
12	Single Filter (1 inch)	8	8	8	ea.	24
13	Dosatron 4m3/h	1			ea.	1
	TOTAL	38	27	27		92
	Cooling					
1	Fog system (Nylon Tubing, electrical supply phase1, 50Hz,water conditions;400 PPM, Calcium 50PPM,pipe size 1/2) Outside Max T:35°C, Outside Max H:80, Approx elevation:300, Required Temp:24, Required Humidity:60, Temperature control of system)			1	ea.	1
2	Horizontal fans (18"/45cm aluminium fan blade, Moulded 3 Pin Plug, Air flow 1800 CFM, 77 Watt, 35 Amps)		6	6	ea.	12
3	Evaporative cooler (36", 3/4 HP variable speed 240 volt, pump is high efficiency 1/6 HP 240 volt)		1		ea.	1
	TOTAL	0	7	7		14
	Heating (Low temperature)					
1	Pipes (500m, thermy pipe, 16mm)		1	1	ea.	2
2	Mega Tube Manifold		12	12	ea.	24
3	Mega Tube Grabber Trak		50	50	ea.	100
4	Mega Tube "I" Fitting		30	30	ea.	60
5	"T" Fitting		30	30	ea.	60
6	Clamp		50	50	ea.	100
7	Splice Union		50	50	ea.	100
8	Goof Plug		10	10	ea.	20
	TOTAL		233	233	ea.	466
9	Boiler 47KW/h	1	1	1	ea.	3
	Heating (High temperature)					

1	Aerotherm (Horizontal discharge output range from 50000 to 60000 BTU-Vertical discharge output range from 90000 to 110000 BTU)		6	6	ea.	12
2	Heat exchangeable (30,000 KCal/h)		2	2	ea.	4
	TOTAL		8	8		16
	Heating					
1	Air heater (60Kcal/hour) include thermostat, cheminee, diesel functioning	2			ea.	2
2	Heat Mesh (2m*6m)	24			ea.	24
	TOTAL	26				26
	Polycarbonate sheet					
1	Polycarbonate sheet (120m2)		1	1	ea.	2
2	Polycarbonate sheet (60m2)	1			ea.	1
	TOTAL	1	1	1		3

SPECIFICATIONS FOR THE LIST OF IRRIGATION, COOLING AND HEATING SYSTEMS FOR FLORICULTURE

Sand Filter : Suitable for up to 81,000 Litres 155Kg Sand 40mm Ports	
Fog system: Requesting Tubing: Nylon Electrical supply: Phase 1, 50 HZ Water source and Condition: Well TDS:440 PPM, Calcium 50PPM Pipe Size:1/2 Regional climate conditions: Average Max Outside Temperature:35 Average Max Outside Humidity:80 Approximate Elevation:300 Required Temp: 24 Required Humid:60 Control Of system; Temperature	
Air heater 60 kcal/hour include thermostat, cheminee, diesel functioning- Power supply required is 240 volt	

Aerotherm

- Horizontal discharge output range from 50000 to 60000 BTU
- Vertical discharge output range from 90000 to 110000BTU



HAF Horizontal Airflow Fan Specifications

- 18"/45cm aluminum fan blade
- Moulded 3 Pin Plug
- Powdercoated guards
- Completely assembled and wired with 2m cord
- Totally enclosed highly efficient motor
- § Air flow 1800 CFM
- § 77 Watt, 35 Amps



Boiler

47kw/hour
Boiler Model #: HC-399
BTUH Input: 399
BTUH Output: 394
Efficiency: 98.70%
Shipping Wt. lbs: 217
Width inches: 18.2
Height inches: 25.8
Depth inches: 44.3



Evaporative cooler

- 36" Specifications
- Cools an area up to 200sqm floor area
- Industrial duty fan 13500 CFM @ 0 SP
- Constructed of roto molded corrosion free polyethylene
- High efficiency 3/4 HP variable speed 240 volt, totally enclosed motor
- Pump is high efficiency 1/6 HP 240 volt, maintenance free
- Cooling media is a cross corrugated angle fluted specially formulated cellulose material treated with a thermosetting resin for long life and efficient cooling
- Water supply is a standard garden hose



MegaTube Tubing: This high performance tubing is formulated to last, UV and chemical resistant, will handle foot and small cart traffic, warranted for 10 years— designed to last for 50 years! Used in our engineered MegaTube Systems on ground, in concrete slab and sometimes in a rolling bench application. Ships on convenient, easy to handle 500 foot reels.	
MegaTube Manifolds: Manifolds are designed to direct the flow of hot water from the supply piping through the MegaTube out over the bed/slab providing gentle, even heat, returning the water to the return piping and heat source to be re-heated and re-circulated. Creating a hydronic or closed-loop system. The diameter of manifold pipe is determined through the engineering process, taking into consideration flow rate and heating application. MegaTube manifolds are custom manufactured to the width of your bed/slab. Schedule 80 PVC manifold piping is used for standard greenhouse heating installations. Schedule 80 CPVC is also available for high temperature installations.	 MegaTube Manifold
MegaTube Grabber Trak: The Grabber Trak does just that, it is designed to “grab” and hold the MegaTube firmly in its original spacing. The slots are placed every 1” to provide total flexibility of the tube spacing. The groove in the base is for nails or screws, making centering a breeze. Available by the linear foot or on a continuous 150 foot reels.	 MegaTube Grabber Trak
MegaTube “I” Fitting: For Manifolds installed at the end of a run. Recommended for a bed/slab up to 100 feet.	 MegaTube “I” Fitting
MegaTube “T” Fitting: For manifolds installed at the center of a bench/bed. Sometimes called center-fed or butterfly headers. Recommended for bed/slab over 100 feet.	 “T” Fitting

MegaTube Clamp: Ensures a secure connection of the tubing to the fitting.	 Clamp
MegaTube Splice Union: Used for tubing connection, in an installation or to repair a tube in an existing greenhouse system.	 Splice Union Splice Union
MegaTube Goof Plug: In case you decide to build your own manifolds and drill one too many holes, “Oh no I goofed” — we have the solution.	 Goof Plug

**LIST OF MATERIAL AND EQUIPMENT FOR
FLORICULTURE POST-HARVEST TREATMENT AND PACKAGING**

	Description	H	A	S	UNITS	TOTAL
1	Buckets (5 litre)		20	20	ea.	40
2	Holding water trolley (40litre)		5	5	ea.	10
3	Danish Trolley (1350*565*1900)	5	5	5	ea.	15
		5	30	30		65
	Packaging					
1	Bunch cutter		1	1	ea.	2
2	Plastic rubber		1	1	ea.	2
3	Cellophane		2000	2000	ea.	4000
	TOTAL	0	2002	2002	0	4004
	Roses packaging					
1	Florida 18 hooks system					
2	container (height 15 cm)			40	ea.	40
3	collar (height 38 cm)			40	ea.	40
4	container (height 15 cm)			40	ea.	40
5	collar (height 53 cm)			40	ea.	40
	0	0	0	160		160
	Gerbera packaging					
1	Gerona interior system (Dimension 12 stem)			32	ea.	32
2	gerona pair			8	ea.	8
3	gerona tray			8	ea.	8
4	gerona bags (height 50 cm)			8	ea.	8
5	gerona bags (height 40cm)			8	ea.	8
6	gerona lid			4	ea.	4
7	gerona card box			4	ea.	4
8	gerona plastic box			4	ea.	4
	TOTAL	0	0	76		76
	Chrysanthemum packaging					
1	London system				ea.	
2	container (height 35cm)			50	ea.	50
3	container rim			50	ea.	50
4	collar (height 78cm)			50	ea.	50
5	lid			50	ea.	50
	TOTAL	0	0	200		200
	Anthurium packaging					
1	Flower fix system				ea.	
2	flower box (solid pack VBN690)		100		ea.	100
3	flower fix card (contain 4 stem)		400		ea.	400
4	stem reservoir (contain water)		400		ea.	400
	TOTAL	0	900	0		900
	Calla lily packaging					

1	London system				ea.	
2	container (height 35cm)		50		ea.	50
3	container rim		50		ea.	50
4	collar (height 28cm)		50		ea.	50
5	lid		50		ea.	50
	TOTAL	0	200	0		200
	Lisianthus packaging					
1	London system				ea.	
2	container (height 33 cm)		50		ea.	50
3	container rim		50		ea.	50
4	collar (height 33cm)		50		ea.	50
5	lid		50		ea.	50
	TOTAL	0	200	0		200
	Postharvest treatment					
1	Chrysal (10 Litre)		1	1	ea.	2
2	AVB (5 Litre)		1	1	ea.	2
3	Water treatment (Hydrogen peroxide (100ml))	1	1	1	ea.	3
4	Flower Mesh (90cm*120cm (250m))		1	1	ea.	2
5	Potting Bench (3m x 3m)	1			ea.	1
6	Packaging pot plant (Sleeves 35cm x 35cm x 12cm)	1000			ea.	1000
7	Packaging pot plant(Sleeves 45cm x 45cm x 15cm)	1000			ea.	1000
8	Packaging pot plant (Sleeves 45cm x 45cm x 12 cm)	1000			ea.	1000
9	Packaging pot plant (Carton Boxes 30cmx60cmx50cm)	200			ea.	200
	TOTAL	3201				3201

NOTES

1. All items must be filled as listed. No substitutions allowed. All items must be of commercial quality, no exceptions.
2. Individual items must be grouped together for packaging according to column designation (H-M-A-S)
3. Individual shipments must be properly marked, crated and palletized according to column designation (H-M-A-S)
4. Quotes must include all related costs for packaging, crating, palletizing, and shipping
5. All items must be of USA origin or manufactured in the US using a minimum of foreign parts
6. All items must be shipped to the specified shipping location.

**SUBMIT THIS LIST OF FLORICULTURE POST-HARVEST TREATMENT
AND PACKAGING FOR FINAL BIDDING**