

# Aquaponics Solution To Climate Change

*Aquaponics combines Aquaculture (fish farming) with Hydroponics (growing plants without soil)*

<b>AQUAPONICS GREENHOUSE: 36x65 FEET</b>				
<b>DESCRIPTION</b>	<b>UNIT</b>	<b>AMOUNT</b>	<b>UNITARY PRICE</b>	<b>TOTAL \$</b>
<b>PLANTS Y SUPPORTS</b>				
Clean 5 gallon buckets	Unit	50	2.60	130.00
Pomas Stone	Cubic Foot	70	1.70	119.00
Tomato Seedlings	plantines	100	0.20	20.00
Green Pepper Seedlings	Plantines	100	0.20	20.00
Lettuce Seedlings	Plantines	500	0.20	100.00
Garden Herb seedlings	plantines	500	0.12	60.00
<b>SUB TOTAL PLANTS AND SUPPORTS:</b>				<b>449.00</b>
<b>IRRIGATION SYSTEM</b>				
4" PVC Tubes 80psi	Unit	48	12.60	604.80
4" PVC drainage elbow	Unit	48	1.90	91.20
4" PVC drainage trap	Unit	4	7.20	28.80
3/4" PVC Tubes	Unit	12	2.90	34.80
1/2" PVC Tubes	Unit	6	2.25	13.50
3/4" PVC Elbow	Unit	12	0.27	3.24
3/4" PVC Tee	Unit	6	0.33	1.98
3/4" Ball Valve	Unit	2	9.00	18.00
1/2" Ball Valve	Unit	4	6.00	24.00
PVC Glue	Quart	1	28.50	28.50
1/2" PVC Male Adapter	Unit	24	0.13	3.12
1/2" PVC Female Adapter	Unit	24	0.16	3.84
Silicon Sealent	Unit	1	11.50	11.50
Sumergable Pump	Unit	1	129.00	129.00
Galvanized Wire	Pounds	20	0.90	18.00
1x3" pine slats	Feet	210	0.41	86.10
1x10 pine planks	Feet	140	0.47	65.80
Styrofoam Sheets	Sheets	50	1.15	57.50
Sponge	Sq. Feet	10	9.20	92.00
2 1/2" Nails	Pounds	7	0.86	6.02
Black plastic sheeting	Yards	25	1.44	36.00
<b>SUB TOTAL IRRIGATION SYSTEM:</b>				<b>1,357.70</b>

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<b>METAL STRUCTURE</b>				
4x4" Steel Tubing , # 16	Unit	12	60.00	720.00
2x2 Steel Tubing, #16	Unit	20	26.50	530.00
1x 1/8" Strap Iron	Unit	14	4.44	62.16
Self-drilling Screws	Unit	800	0.06	48.00
Anti-corrosive Paint	Bucket	1	100.00	100.00
2x1" Steel Tubing	Unit	12	13.80	165.60
1 1/2" Angle Iron	Unit	2	14.95	29.90
4x4" C-Frame	Unit	1	14.95	14.95
Rollers for Sliding Door	Unit	4	8.00	32.00
Barbed Wire	Pounds	100	0.40	40.00
3/8" reinforcing rods	Unit	4	4.10	16.40
<b>SUB TOTAL METAL STRUCTURE:</b>				<b>1,759.01</b>
<b>ROOF AND WALLS</b>				
Insect and anti-fungus screening	Sq. Feet	3000	0.15	441.00
6 ml. UV Plastic Sheeting	Sq. Feet	320	0.94	300.80
<b>SUB TOTAL ROOF AND WALLS:</b>				<b>741.80</b>
<b>FOUNDATION AND BRICK WALL</b>				
Bricks	Unit	600	0.20	120.00
Sand	Truckload	1	240.00	240.00
Cement	Bag	40	8.60	344.00
<b>SUB TOTAL FOUNDATION AND BRICK WALL:</b>				<b>704.00</b>
<b>TANK AND FISH</b>				
Excavation and preparation Fish Tank	Unit	1	184.00	184.00
Accessories	Unit	1	55.00	55.00
Solar Panel	Unit	1	600.00	600.00
Membrane for Fish Tank	Sq.Feet	860	0.21	180.60
Tilapia Fingerlings	Units	2000	0.06	120.00
Concentrate	Pounds	900	0.50	450.00
Transportation	Unit	1	200.00	200.00
<b>SUB TOTAL TANK AND FISH:</b>				<b>1,789.60</b>
Sub-Contract: Soldering Metal Structure				<b>200.00</b>
<b>TOTAL INVESTMENT IN AQUAPONICS GREENHOUSE</b>				<b>7,001.11</b>