

DETAILED COST ESTIMATE

CONSTRUCTION OF TWO (2) FIX VENT GREENHOUSES WITH AEROPONICS AND DRIP IRRIGATION SYSTEM

ITEM 1: GREENHOUSE (8M X 32M X 5M) WITH AEROPONICS SYSTEM

BASIC COST

1.1 GREENHOUSE

1.11 Materials

ITEM	Unit	Materials/Item Description	Quantity	Unit Cost	Total
1	pcs	BALCONY POST - GI PIPE 1" S40	34		
2	pcs	BALCONY BRACE - GI PIPE 1" S40	34		
3	pcs	GUTTER HOLDER	34		
4	pcs	GUTTER	28		
5	pcs	ARCH BRACE 1 - GI PIPE 1" S40	34		
6	pcs	ARCH - GI PIPE 1" S40	17		
7	pcs	ARCH BRACE 2 - GI PIPE 1" S40	34		
8	pcs	ARCH CHORD	17		
9	pcs	POST 2 - GI PIPE 1" S40	5		
10	pcs	ALUMINUM SLIDING DOOR	2		
11	set	ANTE-ROOM BRACES	1		
12	pcs	POST 1 - GI PIPE 1 1/2" S40	34		
13	pcs	FOUNDATION POST	34		
14	pcs	DIAGONAL POST	4		
15	pcs	DIAGONAL ROOF BRACE	8		
16	pcs	APEX BRACE	64		
17	pcs	FILM ROLL-UP	2		
18	set	FILM ROLL-UP BRACES	1		
19	len	ALUMINUM LOCKING PROFILE 3M	97		
20	lem	PLASTIC COATED W WIRE 2M	194		
21	roll	UV PLASTIC 200 MIC	1		
22	roll	ANTI-INSECT NET 32 MESH	4		
23	pcs	BOLT 3/8 X 2" W/ NUT AND WASHER	68		
24	pcs	BOLT 3/8 X 1 1/2" W/ NUT AND WASHER	200		
25	box	BLIND RIVETS	1		
26	kgs	WELDING ROD	40		
27	gals	PAINT - ALUMINUM	2		
28	gals	PAINT - RED OXIDE PRIMER	2		
29	bags	CEMENT	15		
30	cu.m	AGGREGATES	2		
31	cu.m	GRAVEL	4		

Total Material Cost:

1.12 Labor

Total Labor Cost:

Item Total:

1.2 CONCRETE WORKS

Scope of works: Class A 100mm

1.21 Materials

Unit	Description	Quantity	Unit Cost	Total
bags	Cement	272		
cu.m	Sand	16		
cu.m	Gravel	16		

Total Material Cost:

1.22 Labor

Required	Manpower	No. of days	Daily rate (Php)	Amount (Php)

Total Labor Cost:

1.23 Equipment

Quantity	Materials	No. of days	Daily rate (Php)	Amount (Php)

Total Equipment Cost:

Item Total:

ITEM	Unit	Materials/Item Description	Quantity	Unit Cost	Total
------	------	----------------------------	----------	-----------	-------

1.3 AEROPONIC SYSTEM

1.51 Materials

	Unit	Description	Quantity	Unit Cost	Total
1	set	STAINLESS CENTRIFUGAL PUMP 1/2 " HP	3		
2	pcs	PLASTIC DRUM 200L	6		
3	pcs	CHECK VALVE 1" PLASSON	3		
4	pcs	PLASTIC FEMALE COUPLER 1	6		
5	pcs	PVC MALE ADAPTOR 32*1 BLUE	15		
6	pcs	PVC PIPE 32MM BLUE X 3M	12		
7	pcs	PVC 90 DEG ELBOW 32MM BLUE	15		
8	pcs	PLASTIC NIPPLE 1 X 1	3		
9	pcs	PLASSON TWO WAY VALVE 1	3		
10	pcs	1"TAVLIT SCREEN THRD FILTER 120 MESH	3		
11	pcs	1"AQUANET PLUC AC BSP W/ FLOW	3		
12	pcs	TAVLIT CAP 1'SELF SEAL	3		
13	pcs	PVC TEE 32MM BLUE	6		
14	pcs	PVC SHORT REDUCER BUSHING 32M-20f	6		
15	pcs	PVC BALL VALVE 20MM	6		
16	pcs	MERIDOR PIPE 20MM (5M)	50		
17	pcs	PVC TEE 20MM BLUE	145		
18	pcs	PVC FEMALE ADAPTOR 20 x 1/2 BLUE	145		
19	pcs	MIC TRANS. 1/2 TH.M.-FEMALE	145		
20	pcs	MIC ADVAL 2.0/0.9 PURPLE M/F	145		
21	pcs	MISTNET 'S'25 L/H HEAD ON MALE CON	145		
22	pcs	NARROW TEFLON	50		
23	pcs	WELD-ON CEMENT 717 LOW VOC PVC PL.	1		
24	pcs	GALCON 6S AC 8056 CONROLLER	1		
25	pcs	WIRES FOR ELECTRIC VALVES	1		
26	pcs	FLOAT SWITCH AND CABLES	3		

Total of Material Cost:

Item Total:

1.4 AEROPONICS BOX

1.41 Materials

Unit	Description	Quantity	Unit Cost	Total
len	GI PIPE 1 1/2" S40	24		
len	GI PIPE 1"S40	47		
len	ANGLE BAR 1 1/4"	104		
sheets	STEEL MATTING 2"X 2" 5MM	48		
sheets	PLAIN SHEET G26	72		
kgs	WELDING ROD	60		
rolls	BLACK FILM 7M X 90M 200 MICRONS	1		
lens	ALUMINUM LOCKING PROFILE 3M	57		
lens	PLASTIC COATED W WIRE	114		
sets	ROLLER	44		
pcs	PLASTIC POTS FOR POTATOES	2793		
sheets	POLYCARBONATE SHEET (OPAL) 4"X 8"	48		

Total of Material Cost:

1.42 Labor

Required	Man Power	No of Days	Daily rate(Php)	Amount (Php)

Total of Labor Cost:

1.43 Equipment

Required	Materials	No of Days	Daily rate(Php)	Amount (Php)

Total of Material Cost:

Item Total:

1.5 REINFORCING STEEL

Scope of works: 10mm RSB for slab and CHB reinforcement

1.51 Materials

Unit	Description	Quantity	Unit Cost	Total
len	RSB 10mm	142		
kgs	Tie Wire #16	15		

Total of Material Cost:

1.52 Labor

Required	Man Power	No of Days	Daily rate(Php)	Amount

ITEM	Unit	Materials/Item Description	Quantity	Unit Cost	Total

Total of Labor Cost:

1.53 Equipment

Quantity	Materials	No of Days	Daily rate(Php)	Amount

Total of Equipment Cost:

Item Total:

1.6 MASONRY WORKS

Scope of works: CHB Laying and Filling

1.61 Materials

Unit	Description	Quantity	Unit Cost	Total
pcs	CHB	1255		
bags-40kg	Cement	82		
cu.m	Sand	6		

Total of Material Cost:

1.62 Labor

Required	Man Power	No of Days	Daily rate(Php)	Amount

Total of Labor Cost:

1.63 Equipment

Quantity	Materials	No of Days	Daily rate(Php)	Amount

Total of Equipment Cost:

Item Total:

SUB TOTAL:

ITEM 2: GREENHOUSE (8M X 32M X 5M) WITH DRIP IRRIGATION SYSTEM

BASIC COST

2.1 GREENHOUSE

2.11 Materials

ITEM NO.	Unit	Materials/Item Description	Quantity	Unit Cost	Total
1	pcs	BALCONY POST - GI PIPE 1" S40	34		
2	pcs	BALCONY BRACE - GI PIPE 1" S40	34		
3	pcs	GUTTER HOLDER	34		
4	pcs	GUTTER	28		
5	pcs	ARCH BRACE 1 - GI PIPE 1" S40	34		
6	pcs	ARCH - GI PIPE 1" S40	17		
7	pcs	ARCH BRACE 2 - GI PIPE 1" S40	34		
8	pcs	ARCH CHORD	17		
9	pcs	POST 2 - GI PIPE 1" S40	5		
10	pcs	ALUMINUM SLIDING DOOR	2		
11	set	ANTE-ROOM BRACES	1		
12	pcs	POST 1 - GI PIPE 1 1/2" S40	34		
13	pcs	FOUNDATION POST	34		
14	pcs	DIAGONAL POST	4		
15	pcs	DIAGONAL ROOF BRACE	8		
16	pcs	APEX BRACE	64		
17	pcs	FILM ROLL-UP	2		
18	set	FILM ROLL-UP BRACES	1		
19	len	ALUMINUM LOCKING PROFILE 3M	97		
20	lem	PLASTIC COATED W WIRE 2M	194		
21	roll	UV PLASTIC 200 MIC	1		
22	roll	ANTI-INSECT NET 32 MESH	4		
23	pcs	BOLT 3/8 X 2" W/ NUT AND WASHER	68		
24	pcs	BOLT 3/8 X 1 1/2" W/ NUT AND WASHER	200		
25	box	BLIND RIVETS	1		
26	kgs	WELDING ROD	40		
27	gals	PAINT-ALUMINUM	2		
28	gals	PAINT-RED OXIDE PRIMER	2		
29	bags	CEMENT	15		
30	cu.m	AGGREGATES	2		
31	cu.m	GRAVEL	4		

Total of Material Cost:

ITEM	Unit	Materials/Item Description	Quantity	Unit Cost	Total
------	------	----------------------------	----------	-----------	-------

2.12 Labor

lot		FABRICATION COST	1		
lot		INSTALLATION COST	1		

Total of Labor Cost:

Item Total:

2.2 ALLEY-3 ROWS 1M BY 32 M

Scope of Works: Beddings of plants and Drip Irrigation System

2.21 Materials

Unit	Decription	Quantity	Unit Cost	Total
pcs	CEMENT	87		
cu.m	SAND	5		
cu.m	GRAVEL	10		

Total of Material Cost:

2.22 Labor

Required	Man Power	No. of Days	Daily rate (Php)	Amount

Total of Labor Cost:

2.23 Equipment

Quantity	Materials	No. of Days	Daily rate (Php)	Amount

Total of Equipment Cost:

Item Total:

2.3 DRIP IRRIGATION SYSTEM

2.31 Materials

ITEM NO.	Unit	Description	Quantity	Unit Cost	Total
1	unit	STAINLESS PRESSURE TANK (21 GAL. CAP) WITH 1 HP ELECTRIC CENTRIFUGAL PUMP	1		
2	unit	FLOAT SWITCH, WIRES CONTROL PANEL	1		
3	lot	PLASTIC NIPPLE 1 X 1	1		
4	unit	PLASSON TWO WAY VALVE 1	1		
5	unit	1" TAVLIT SCREEN THRD FILTER 120 MESH	1		
6	unit	PLASTIC FEMALE COUPLER 1	1		
7	unit	PE MALE ADAPT. 32*1	1		
8	unit	PE PIPE SDR17 32MM X 60M	1		
9	unit	PE ELBOW 32MM	3		
10	unit	PE TEE 32MM	1		
11	unit	PE COUPLING 32MM	2		
12	unit	PE END PLUG 32MM	2		
13	unit	BLANK DRIPLINE 16012 400MM	2		
14	unit	PE BARB START 16 CONN. MP	20		
15	unit	PE BARB COUPLING 16 CONN	20		
16	unit	ENDLINE DOUBLE O 16/17	20		
17	unit	DR PCJ 4.0L/H1.1G/H	549		
18	unit	MANIFOLD 4 OUTLETS 5MM-FLAT + NIPPLE	549		
19	unit	DR ARROW ANG 2.3 L/H BLACK	2196		
20	unit	PVC TUBE 5*3 500	2		
21	unit	C-CLUMP PLASTIC (SMALL) 8.2 MM	1		
22	unit	PLASTIC PUNCH 3MM W/ BRASS INSERTER	20		
23	unit	NARROW TEFLON	1		

Total of Material Cost:

2.32 Labor

--	--	--	--	--

Total of Labor Cost:

Item Total:

ITEM	Unit	Materials/Item Description	Quantity	Unit Cost	Total
------	------	----------------------------	----------	-----------	-------

2.4 AUTOMATION AND FERTIGATION

2.41 Materials

Unit	Description	Quantity	Unit Cost	Total
	AUTOMATION			
unit	E-SL800 4 ZONE CONTROLLER SMARTLINE	1		
unit	1"AQUANET PLUC AC BSP W/ FLOW	4		
Unit	WIRES FOR SOLENOIDS	1		
	FERTIGATION			
Unit	MIXTRITE TF5, 0.1%-1%, ON/OFF, 1'BSP	1		
Unit	ACCESSORIES TO COMPLETE	1		

Total of Material Cost:

Item Total:

SUB-TOTAL:

Grand Total: