REPUBLIC OF THE PHILIPPINES

**DEPARTMENT OF AGRICULTURE**

WESTERN VISAYAS

**DETAILED ENGINEERING DESIGN PLAN**

# ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS FACILITY

**DA- HVCDP (2023 NUPAP)**

Prepared/ Designed:

**MELVIN D. HAGONOB, ABE**
Engineer II (License No. 0008100)

Reviewed/ Submitted:

**YVONNE GRACE H. SUR, ABE**
Engineer III (License No. 0005970)
Head, EPDSS

Recommended:

MICHAEL D. MANAFAT, ABE, MEE
Engr. IV / OIC- AED Chief

Approved:

**JOSE ALBERT A. BARROGO, ABE**
OIC- RTD FOR OPERATIONS AND EXTENSION

A 1 PERSPECTIVE

SCALE NTS

| IMPLEMENTING AGENCY: | PROJECT NAME & LOCATION | SHEET CONTENTS: | PREPARED: | REVIEWED/ SUBMITTED: | RECOMMENDED: | APPROVED: | CAD BY: |
|---|---|---|---|---|---|---|---|
| REPUBLIC OF THE PHILIPPINES<br>**DEPARTMENT OF AGRICULTURE**<br>WESTERN VISAYAS<br>ILOILO CITY | ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS FACILITY | AS SHOWN | MELVIN D. HAGONOB, ABE<br>Engineer II (ABE No. 0006100) | YVONNE GRACE H. SUR, ABE<br>Engineer III (ABE No. 0005970)<br>Head, EPDSS | MOISES D. MANA-AY, ABE, MEE<br>Engineer IV (ABE No. 0006077)<br>OIC- Division Chief, RAED | JOSE ALBERT A. BARROGO, ABE<br>OIC- RTD for Operations and Extension | GP SILVA<br>DATE:<br>PAGE NO. 1/8 |

A 2 FLOOR PLAN
SCALE 1:140

ST 1 FOUNDATION PLAN
SCALE 1:130

| IMPLEMENTING AGENCY: | PROJECT NAME & LOCATION | SHEET CONTENTS: | PREPARED: | REVIEWED/ SUBMITTED: | RECOMMENDED: | APPROVED: | CAD BY: |
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A 3 FRONT ELEVATION
SCALE 1:140

A 4 RIGHT SIDE ELEVATION
SCALE 1:140

A 5 REAR ELEVATION
SCALE 1:140

A 6 LEFT SIDE ELEVATION
SCALE 1:140

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ST 2 FOUNDATION PLAN
SCALE 1:120

ST 3 POST- COLUMN 1 DETAIL
SCALE 1:35

ST 4 POST- COLUMN 2 DETAIL
SCALE 1:75

ST 5 WALL FOOTING DETAIL
SCALE 1:75

ST 6 TENSION SUPPORT DETAIL
SCALE 1:75

| IMPLEMENTING AGENCY: | PROJECT NAME & LOCATION | SHEET CONTENTS | PREPARED: | REVIEWED/ SUBMITTED: | RECOMMENDED: | APPROVED: | CAD BY: |
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ST 7 ROOF FRAMING PLAN
SCALE 1:120

ST 8 CENTER GIRT DETAIL
SCALE 1:110

ST 9 TRUSS DETAIL
SCALE 1:90

ST 10 HALF TRUSS DETAIL
SCALE 1:90

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ST 11 AIR VENT DETAIL
SCALE 1:65

ST 12 DOOR DETAIL
SCALE 1:40

ST 13 STORAGE TANK DETAIL
SCALE 1:40

ST 14 FOOT BATH DETAIL
SCALE 1:30

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A 7 HYDROPONICS LAY-OUT
SCALE 1:250

A 8 HYDROPONICS PLAN
SCALE 1:90

A 9 HYDROPONICS SECTION
SCALE 1:90

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REPUBLIC OF THE PHILIPPINES
**DEPARTMENT OF AGRICULTURE**
WESTERN VISAYAS
PAROLA, ILOILO CITY

**PROJECT:** ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS FACILITY
**COST** :
**FUND SOURCE/S** : DA- HVCDP (2023 INSERTION)
**LOCATION:**

**IMPLEMENTING AGENCY** : DEPARTMENT OF AGRICULTURE- WESTERN VISAYAS
**DEVELOPMENT PARTNER/S** :
**CONTRACTOR SUPPLIER** :
**BRIEF DESCRIPTION OF PROJECT** :

**PROJECT DETAILS :**

| PROJECT DATE | | | PROJECT STATUS | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| DURATION | STARTED | TARGET DATE OF COMPLETION | PERCENTAGE OF COMPLETION | AS OF (DATE) | COST INCURRED TO DATE | DATE COMPLETED | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

FOR PARTICULARS OR COMPLAINTS ABOUT THIS PROJECT, PLEASE CONTACT THE REGIONAL OFFICE OR CLUSTER WHICH HAS AUDIT JURISDICTION ON THIS PROJECT:

**COA** REGIONAL OFFICE NO./CLUSTER :_____
ADDRESS :_____
CONTACT NO. :_____ OR TEXT **COA** CITIZEN'S DESK AT 0915-5391957

TARPAULIN, WHITE, 8 FT x 8FT
RESOLUTIION: 70 DPI
FONT: HELVETICA
FONT SIZE: MAIN INFORMATION - 3"
SUB INFORMATION -1"
FONT COLOR: BLACK

## PROJECT SIGNBOARD

ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS FACILITY
Location:

CONTRACTOR :
DATE STARTED :
CONTRACT COMPLETION DATE :
CONTRACT COST :
IMPLEMENTING OFFICE : DEPARTMENT OF AGRICULTURE- WESTERN VISAYAS
SOURCE OF FUND : DA- HVCDP (2023 National Urban and Peri-Urban Agriculture Program)

REPUBLIC OF THE PHILIPPINES
**DEPARTMENT OF AGRICULTURE**
WESTERN VISAYAS
PAROLA, ILOILO CITY

- THE BILLBOARD DESIGN LAYOUT AND DIMENSION SHALL BE ON A STANDARD BILLBOARD MEASURING1200 mm x 2400 mm (4FT x 8FT.) USING 12 mm ($\frac{1}{2}$ INCH) THICK MARINE PLYWOOD OR TARPAULIN POSTED ON 5 mm ($\frac{3}{16}$ INCH) MARINE PLYWOOD.
- THE BILLBOARD SHALL BE INSTALLED IN FRONT OF THE PROJECT SITE

## COA BILLBOARD

**PLAN**

0.60M X 0.60M STAINLESS STEEL PLATE W/ ENGRAVE LETTERING

## PROJECT MARKER DETAIL

**FRONT ELEVATION**

**SIDE ELEVATION**

| IMPLEMENTING AGENCY: | PROJECT NAME & LOCATION: | SHEET CONTENTS: | PREPARED: | REVIEWED/ SUBMITTED: | RECOMMENDED: | APPROVED: | CAD BY: |
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Project Name: ESTABLISHMENT OF GREENHOUSE WITH HYDROPONICS FACILITY

Location: REGION VI

Project Duration: 60 calendar days

Total Estimated Project Cost: PhP 3,000,000.00

Banner Program: DA- HVCDP (2023 NUPAP)

# PERT/CPM NETWORK*

| Project No. | Project Description | Quantity | Unit | Unit Cost (PhP) | Total Amount (PhP) | Wt. % |
|---|---|---|---|---|---|---|
| 1.0 | Establishment of Greenhouse with Hydroponics Facility | 1.00 | set | 1,000,000.00 | 1,000,000.00 | 33.33% |
| 2.0 | | 1.00 | set | 1,000,000.00 | 1,000,000.00 | 33.33% |
| 3.0 | | 1.00 | set | 1,000,000.00 | 1,000,000.00 | 33.33% |
| | | | | Total | 3,000,000.00 | 100.00% |

*Note:* PERT/CPM NETWORK diagram was adjusted/corrected for sundays and holidays.

| | | Month 1 | | | | Month 2 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 |
| Physical Accomplishment % | Monthly | 7.77% | 12.22% | 16.67% | 23.33% | 17.78% | 13.33% | 7.78% | 1.11% |
| | Commulative | 7.77% | 20.00% | 36.68% | 60.00% | 77.78% | 91.11% | 98.89% | 100.00% |
| Financial Accomplishment PhP | Monthly | 233,100.00 | 366,600.00 | 500,100.00 | 699,900.00 | 533,400.00 | 399,900.00 | 233,400.00 | 33,300.00 |
| | Commulative | 233,100.00 | 599,700.00 | 1,099,800.00 | 1,799,700.00 | 2,333,100.00 | 2,733,000.00 | 2,966,400.00 | 3,000,000.00 |

S-Curve

Number of Working Days *(Critical Path)*: 50 days

Sundays and Holidays: 10 days

Total Number of Calendar Days: **60 days** (Project Duration)

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**MELVIN D. HAGONOB, ABE**
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