**A REPORT ON THE CROP ENTERPRISE BUDGET PRODUCED BY THE STATISTICS RESEARCH AND INFORMATION DIRECTORATE FOR THE 2019/2020 CROPPING SEASON**

**Introduction**

As part of its mandate to generate good, timely and reliable data on agricultural production, the Statistics, Research and Information Directorate (SRID) of the Ministry of Food and Agriculture (MoFA) produces annual Crop Enterprise Budget to inform agri-business decision making.

This current crop Enterprise Budget (CEB) which covers 5 major commodities; maize, rice, cassava, pepper and tomato have been developed by the Directorate for the 2019/2020 cropping season to assist prospective investors in crop production, producers and other agricultural stakeholders in evaluating expected cost and returns for selected crops in the upcoming cropping season (2020/2021). The crop budget estimates are also expected to serve as a tool for producers and their credit providers in enterprise selection and financing.

The data analysed for Production methods analysed for the CEB represent factors of production activities as determined in consultations with officials of Crop Services Directorate of MoFA, farmers and field officers of the Departments of Agriculture of selected districts in the respective agro-ecological zones.

Actual production methods vary greatly among individual farmers due to management practices and preferences and between production year due to climatic conditions.

NB the cost of alternative agronomic practices has been captured in the report to give a fair idea of the cost implication of the choice one makes. This has thereby inflated the production cost of crops in some instances).

Presentation in this report should therefore be regarded **ONLY** as a guide for individual farmers and prospective investors developing budgets for their production practices based on their soil types and other unique circumstances.

**Methodology**

The Agriculture Statistics and Census Unit (ASCU) of SRID in May, 2019, organised a stakeholder workshop to review its template used for the development of CEB for specific crops to reflect the changing trends in farming practices across the country.

Subsequently, in December of 2019, two teams made up of two officers from the unit undertook field visits to all four agro-ecological zones (AEZ) namely; coastal, forest, transitional and the savannah zones to administer the CEB template. Each team visited two districts in each AEZ. Districts studied under each AEZ are indicated below.

Coastal Zone: Akatsi and Mfanstiman

Forest Zone: Sunyani and New Juaben South

Transitional Zone: Techiman and Ejura

Savannah Zone: Bawku West and Yendi

Upon arrival in the district, the team from SRID together with the district MIS officer interacted with farmers cultivating the crops of interest to generate the required data to develop the CEB.

**Data Analysis**

The data collected from the field was subjected to a series of analysis by the ASC unit using the MS Excel software to generate the expected costs and revenues for the specified crop enterprises. The data from districts in each AEZ was aggregated into one composite budget for the various crops. In the course of the analysis, calls were made to farmers through their respective district MIS officers to verify data that looked suspicious and inconsistent with the norm.

Attached are the detailed cost benefit analysis done for the specified crops in the their respective agro-ecological zones

COASTAL ZONE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COASTAL: MAIZE** | | | | |
|  | **UNIT/MANDAYS/ CONTRACT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **acre** | **150.00** | **1** | **150.00** |
| **B) LABOUR COST** |  |  |  |  |
| **I) LAND PREPARATION** |  |  |  |  |
| • Land Clearing |  |  |  |  |
| √ Manual | 2 mandays | 110.00 | 1 | 220.00 |
| √ Chemical (Application) | 1 manday | 50.00 | 1 | 50.00 |
| • Stumping | 2 mandays | 45.00 | 1 | 90.00 |
| • Ploughing | contract | 120.00 | 1 | 120.00 |
| • Harrowing | NA | NA | NA |  |
| • Ridges | contract | 300.00 | 1 | 300.00 |
| **II) PLANTING / SOWING** |  |  |  |  |
| • Lining and Pegging | NA | NA | NA |  |
| • Sowing (Seeding) | 4 mandays | 37.50 | 1 | 150.00 |
| **III) WEED CONTROL** |  |  |  |  |
| • Manual | 1 manday | 60.00 | 2 | 120.00 |
| • Chemicals | 1 manday | 45.00 | 1 | 45.00 |
|  |  |  |  |  |
|  |  |  |  |  |
| **IV) FERTILIZER APPLICATION** |  |  |  |  |
| • NPK | 3 mandays | 30.00 | 1 | 90.00 |
| • S.O.A | NA | NA | NA |  |
| • Urea | 3 mandays | 30.00 | 1 | 90.00 |
| • Organic Manure | NA | NA | NA |  |
| • Foliar | NA | NA | NA |  |
| **V) PEST AND DISEASE CONTROL** |  |  |  |  |
| • Striga | 1 manday | 42.50 | 2 | 85.00 |
| • FAW / Stem Borer | 1 manday | 40.00 | 2 | 80.00 |
| • Maize Streak Virus | NA | NA | NA |  |
| Disease(mancosp) | 1 manday | 40.00 | 1 | 40.00 |
| **VI) HARVESTING** |  |  |  |  |
| • Harvest | contract | 25.00 | 1 | 200.00 |
| • Gather at central point | contract | 100.00 | 1 | 100.00 |
| • Cart to barn |
| **VII) POST HARVEST** |  |  |  |  |
| • De-husking | 5 mandays | 20.00 | 1 | 100.00 |
| • Shelling | 5 mandays | 25.00 | 1 | 125.00 |
| • Drying | 1 manday | 25.00 | 3 | 75.00 |
| • Winnowing | NA | NA | NA |  |
| • Treatment | contract | 70.00 | 1 | 70.00 |
| • Bagging |
| • Load/park in storage house |
| **INPUTS** |  |  |  |  |
| • Weedicides -selective | 2 litres | 37.00 | 1 | 74.00 |
| • Weedicides -non selective | 2 litres | 20.00 | 1 | 40.00 |
| • Pesticide | 2 litres | 25.00 | 1 | 50.00 |
| • Fungicides | 2 litres | 15.00 | 1 | 30.00 |
| • Fertilizer |  |  |  |  |
| √ NPK (50Kg) | 2 bags | 120.00 | 1 | 240.00 |
| √ Manure (50kg) |  |  |  |  |
| √ S.O.A (50Kg) |  |  |  |  |
| √ Urea | bag | 100.00 | 1 | 100.00 |
| • Cutlass | single | 25.00 | 1 | 25.00 |
| • Plastic Sheets/Tarpaulin | 4 | 10.00 | 1 | 40.00 |
| • Sacks | 15 | 3.00 | 1 | 45 |
| • Baskets | single | 8.00 | 1 | 8.00 |
| • Rope (Line ) | NA | NA | NA |  |
| • Pegs | NA | NA | NA |  |
| • Nose mask | 1 | 6.00 | 1 | 6.00 |
| • Gloves | 1 | 5.00 | 1 | 5.00 |
| • Knap sack | hire | 5.00 | 5 | 25.00 |
| • Hoe | 1 | 20.00 | 1 | 40.00 |
| • wellington boots | pair | 40.00 | 1 | 40.00 |
| **• shovel** | 1 | 30.00 | 1 | 30.00 |
| • seed | 9 Kg | 63.00 | 1 | 63.00 |
| • sharpening stone | 1 | 10.00 | 1 | 10.00 |
| • head pan | single | 30.00 | 1 | 30.00 |
| Total |  |  |  | 3,201.00 |
| Contingency (10% of Total cost) |  |  |  | 320.10 |
| Grand Total |  |  |  | **3,521.10** |
| REVENUE |  |  |  |  |
| Number of bags harvested Acre | 15 |  |  |  |
| Average weight of bag | 100 kg |  |  |  |
| Price per bag |  |  |  | 200.00 |
| Total Income = (x \* z ) |  |  |  | **3,000.00** |
| Net Total (loss) |  |  |  | **(521.10)** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COASTAL: RICE (UPLAND)** | | | | |
|  | **UNIT/MANDAY/ CONTRCT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **acre** | 225.00 | 1 | 225.00 |
| **B) LABOUR COST** |  |  |  |  |
| **I) NURSERY MANAGEMENT** |  |  |  |  |
| • Establishment of nursery | manday | 100.00 | 1 | 100.00 |
| • Maintenance up to transplanting | NA | NA | NA |  |
| **II) LAND PREPAPRATION** |  |  |  |  |
| **Upland**  • Slashing | contract | 100.00 | 1 | 100.00 |
| • Stumping /Spraying | manday | 30.00 | 1 | 30.00 |
| • Collect debris | 3 mandays | 40.00 | 1 | 120.00 |
| • Burning of debris | NA | NA | NA |  |
| • Chemical control of weeds | NA | NA | NA |  |
| • Ploughing | contract | 250.00 | 1 | 250.00 |
| • Harrowing | NA | NA | NA |  |
| **V) THINNING** | 2 mandays | 45.00 | 1 | 90.00 |
| **VI) REFILL (where necessary)** | NA | NA | NA |  |
| **VI) WEED CONTROL** |  |  |  |  |
| 2 • Manually -handpicking | 2 mandays | 50.00 | 1 | 100.00 |
| 1• Chemically -spraying | 1 manday | 45.00 | 1 | 45.00 |
| **VII) PESTS CONTROL** |  |  |  |  |
| • Bird Scaring at flowering | manday | 10.00 | 25 | 250.00 |
| • Rodent controls | 1 manday | 50.00 | 1 | 50.00 |
|  |  |  |  |  |
| **VIII) DISEASE CONTROL** |  |  |  |  |
| spraying | 1 manday | 40.00 | 1 | 40.00 |
| **IX) FERTILIZER APPLICATION** |  |  |  |  |
| • NPK-(50kg) | 1 manday | 30.00 | 1 | 30.00 |
| • SOA | NA | NA | NA |  |
| • Urea-(50kg) | 1 manday | 30.00 | 1 | 30.00 |
| • K2O as base fertilizer at harrow before seeding | NA | NA | NA |  |
| • N application after seeding | NA | NA | NA |  |
| **X) HARVESTING** |  |  |  |  |
| • Cutting of panicles | contract | 300.00 | 1 | 300.00 |
| • Collecting to threshing point | contract | 250.00 | 1 | 250.00 |
| • Threshing | contract | 250.00 | 1 | 250.00 |
| • Winnowing (Cleaning) | bag | 5.00 | 30 | 150.00 |
| **XI) STORAGE** |  |  |  |  |
| • Dry Paddy to 12% moisture content | days | 20.00 | 6 | 120.00 |
| • winnowing and Bagging | days | 20.00 | 10 | 200.00 |
| • Transportation into barns | NA | NA | NA |  |
| • Loading and Off-loading | NA | NA | NA |  |
| **INPUTS COST** |  |  |  |  |
| • Seed 40Kg | kg | 200.00 | 1 | 200.00 |
| Chemical to seed treatment | KG | 15.00 | 1 | 15.00 |
| • Hiring of Tarpaulins | day | 10.00 | 6 | 60.00 |
| • Sickles/ Knife | 1 | 25.00 | 1 | 25.00 |
| • Sacks | 28 | 2.50 | 1 | 70.00 |
| • Baskets | 1 | 40.00 | 1 | 40.00 |
| • Nose Mask | 1 | 5.00 | 1 | 5.00 |
| • Gloves | 1 | 5.00 | 1 | 5.00 |
| • Hiring of Knapsack | day | 5.00 | 3 | 15.00 |
| • Weedicides-none selective | 2 litres | 20.00 | 1 | 40.00 |
| weedicide selective (250ml) | 2 bottles | 40.00 | 1 | 80.00 |
| • Chemicals for Pest control | 1 litre | 25.00 | 1 | 25.00 |
| • Chemicals for Disease control/stone | 2 sachets | 12.50 | 1 | 25.00 |
| • SOA/Urea (kg) | 1 bag | 60.00 | 1 | 60.00 |
| • NPK | 2 bags | 120.00 | 1 | 240.00 |
| • selective weedicides | 2 litres | 70.00 | 1 | 140.00 |
| • Traps | single | 10.00 | 1 | 10.00 |
| • shovel | single | 30.00 | 1 | 30.00 |
| • Head Pans | single | 30.00 | 1 | 30.00 |
| • cutlass/machete | single | 30.00 | 1 | 30.00 |
| • sharpening stone | single | 10.00 | 1 | 10.00 |
| • wellington boots | pair | 40.00 | 1 | 40.00 |
| TOTAL |  |  |  | **3,925.00** |
| Contingency (10% of Total cost) |  |  |  | **392.50** |
| Grand Total |  |  |  | **4,317.50** |
| **REVENUE** |  |  |  |  |
| Number of bags harvested Acre | 30 |  |  |  |
| Average weight of bag | 50kg |  |  |  |
| Price per bag |  |  |  | 200.00 |
| Total Income = x \* z |  |  |  | **6,000.00** |
| Net Total (Profit) |  |  |  | **1,682.50** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COASTAL: RICE (LOWLAND)** | | | | |
|  | **UNIT/MANDAY/ CONTRCT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **acre** | 225.00 | 1 | 225.00 |
| **B) LABOUR COST** |  |  |  |  |
| **I) NURSERY MANAGEMENT** |  |  |  |  |
| • Establishment of nursery | manday | 100.00 | 1 | 100.00 |
| • Maintenance up to transplanting | NA | NA | NA |  |
| **II) LAND PREPAPRATION** |  |  |  |  |
| **Lowland (Flooded)** |  |  |  |  |
| 2 • Rotovate (using power tillers) | contract | 400.00 | 1 | 400.00 |
| • Level field / 3 Picking of weeds | 2 mandays | 50.00 | 1 | 100.00 |
| • Bounding of field | NA | NA | NA |  |
| **III) IRRIGATION** | NA | NA | NA |  |
| **IV) PLANTING** |  |  |  |  |
| • Transplanting | 5 mandays | 80.00 | 1 | 400.00 |
| • Seed - drills / suppliers | 2 mandays | 50.00 | 1 | 100.00 |
| • Broadcasting of seeds | 1 manday | 30.00 | 1 | 30.00 |
| • Harrow seeds into the soils | contract | 140.00 | 1 | 140.00 |
| **V) THINNING** | 2 mandays | 45.00 | 1 | 90.00 |
| **VI) REFILL (where necessary)** | NA | NA | NA |  |
| **VI) WEED CONTROL** |  |  |  |  |
| 2 • Manually -handpicking | 2 mandays | 50.00 | 1 | 100.00 |
| 1• Chemically -spraying | 1 manday | 45.00 | 1 | 45.00 |
| **VII) PESTS CONTROL** |  |  |  |  |
| • Bird Scaring at flowering | manday | 10.00 | 25 | 250.00 |
| • Rodent controls | 1 manday | 50.00 | 1 | 50.00 |
|  |  |  |  |  |
| **VIII) DISEASE CONTROL** |  |  |  |  |
| spraying | 1 manday | 40.00 | 1 | 40.00 |
| **IX) FERTILIZER APPLICATION** |  |  |  |  |
| • NPK-(50kg) | 1 manday | 30.00 | 1 | 30.00 |
| • SOA | NA | NA | NA |  |
| • Urea-(50kg) | 1 manday | 30.00 | 1 | 30.00 |
| • K2O as base fertilizer at harrow before seeding | NA | NA | NA |  |
| • N application after seeding | NA | NA | NA |  |
| **X) HARVESTING** |  |  |  |  |
| • Cutting of panicles | contract | 300.00 | 1 | 300.00 |
| • Collecting to threshing point | contract | 250.00 | 1 | 250.00 |
| • Threshing | contract | 250.00 | 1 | 250.00 |
| • Winnowing (Cleaning) | bag | 5.00 | 30 | 150.00 |
| **XI) STORAGE** |  |  |  |  |
| • Dry Paddy to 12% moisture content | days | 20.00 | 6 | 120.00 |
| • winnowing and Bagging | days | 20.00 | 10 | 200.00 |
| • Transportation into barns | NA | NA | NA |  |
| • Loading and Off-loading | NA | NA | NA |  |
| **INPUTS COST** |  |  |  |  |
| • Seed 40Kg | kg | 200.00 | 1 | 200.00 |
| Chemical to seed treatment | kg | 15.00 | 1 | 15.00 |
| • Hiring of Tarpaulins | day | 10.00 | 6 | 60.00 |
| • Sickles/ Knife | 1 | 25.00 | 1 | 25.00 |
| • Sacks | 28 | 2.50 | 1 | 70.00 |
| • Baskets | 1 | 40.00 | 1 | 40.00 |
| • Nose Mask | 1 | 5.00 | 1 | 5.00 |
| • Gloves | 1 | 5.00 | 1 | 5.00 |
| • Hiring of Knapsack | day | 5.00 | 3 | 15.00 |
| • Weedicides-none selective | 2 litres | 20.00 | 1 | 40.00 |
| weedicide selective | 2 bottles(250ml) | 40.00 | 1 | 80.00 |
| • Chemicals for Pest control | litre | 25.00 | 1 | 25.00 |
| • Chemicals for Disease control/stone | 2 sachets | 12.50 | 1 | 25.00 |
| • SOA/Urea | kg | 60.00 | 1 | 60.00 |
| • NPK | 2 bags | 120.00 | 1 | 240.00 |
| • selective weedicides | 2 litres | 70.00 | 1 | 140.00 |
| • Traps | single | 10.00 | 1 | 10.00 |
| •shovel | single | 30.00 | 1 | 30.00 |
| • Head Pans | single | 30.00 | 1 | 30.00 |
| •cutlass/machete | single | 30.00 | 1 | 30.00 |
| •sharpening stone | single | 10.00 | 1 | 10.00 |
| •wellington boots | pair | 40.00 | 1 | 40.00 |
| •water charges | production cycle | 300.00 | 1 | 300.00 |
| TOTAL |  |  |  | **4,895.00** |
| Contingency (10% of Total cost) |  |  |  | **489.50** |
| Grand Total |  |  |  | **5,384.50** |
| **REVENUE** |  |  |  |  |
| Number of bags harvested Acre | 30 |  |  |  |
| Average weight of bag | 50kg |  |  |  |
| Price per bag |  |  |  | 200.00 |
| Total Income = x \* z |  |  |  | **6,000.00** |
| Net Total (Profit) |  |  |  | **615.50** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COASTAL: CASSAVA** | | | | |
|  | **UNIT(CONTRACT/MANDAYS)** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **Acre** | 150.00 | 1 | 150.00 |
| **B) LABOUR COST** |  |  |  |  |
| **B) LAND PREPARATION** |  |  |  |  |
| • Land Clearing |  |  |  |  |
| √ Manual | Contract | 150.00 | 1 | 150.00 |
| √ Chemical (Application) | 1 manday | 20.00 | 2 | 40.00 |
| • Stumping | 3 mandays | 30.00 | 1 | 90.00 |
| • Ploughing | 1 manday | 250.00 | 1 | 250.00 |
| • Harrowing | NA | NA | NA |  |
| • Lining and pegging | NA | NA | NA |  |
| **C) PLANTING** |  |  |  |  |
| • Stem Cutting | 1 manday | 40.00 | 1 | 40.00 |
| • Planting | 5 mandays | 25.00 | 1 | 125.00 |
| • Intercrop with mucuna to prevent nutrient mining | NA | NA | NA |  |
| **D) FERTILIZER APPLICATION** |  |  |  |  |
| **• Manure (Cow dung/poultry dropping)** | NA | NA | NA |  |
| • NPK | NA | NA | NA |  |
| **E) WEED CONTROL** |  |  |  |  |
| • Manual | 4 mandays | 30.00 | 1 | 120.00 |
| • Chemicals | 1 manday | 30.00 | 2 | 60.00 |
| **F) PEST AND DISEASE CONTROL** |  |  |  |  |
| **• Mealy bug/ Termite/ Grasshopper** | NA | NA | NA |  |
| • Cassava Mosaic Virus | NA | NA | NA |  |
| • Cassava Bacterial Blight | NA | NA | NA |  |
| • Root Rot | NA | NA | NA |  |
| • Anthracnose Disease | NA | NA | NA |  |
| **G) HARVESTING** |  |  |  |  |
| • harvesting | Contract | 160.00 | 1 | 160.00 |
| • Carting to central point | NA | NA | NA |  |
| • Bagging and loading | I manday | 20.00 | 6 | 120.00 |
| • Loading | NA | NA | NA |  |
| Transport to market | NA | NA | NA |  |
| **INPUT COST** |  |  |  |  |
| • Planting material (stem cuttings) | 40 bundles | 5.00 | 1 | 200.00 |
| • Leguminous seeds | NA | NA | NA |  |
| • Pesticides | NA | NA | NA |  |
| • Weedicides/Herbicides non-selective | 4 litres | 20.00 | 1 | 80.00 |
| • Chemicals for Disease control | NA | NA | NA |  |
| • Manure (poultry droppings) | NA | NA | NA |  |
| • N.P.K | NA | NA | NA |  |
| • Line and Pegs | NA | NA | NA |  |
| •.Cutlass/ machete | 1 | 25.00 | 1 | 25.00 |
| • Hoe | 1 | 25.00 | 1 | 25.00 |
| • sacks | 1 | 2.00 | 75 | 150.00 |
| • Knap sack hiring | day | 5.00 | 3 | 15.00 |
| • Gloves | 1 | 5.00 | 1 | 5.00 |
| • Nose Mask | 1 | 5.00 | 1 | 5.00 |
| • Boots | pair | 40.00 | 1 | 40.00 |
| sharpening stone | single | 10.00 | 1 | 10.00 |
| **total cost** |  |  |  | 1,860.00 |
| **Contingency (10% of Total cost)** |  |  |  | 186.00 |
| **Grand Total** |  |  |  | 2,046.00 |
| **REVENUE** |  |  |  |  |
| Number of bags harvested Acre | 75 |  |  |  |
| Average weight of bag |  |  |  |  |
| Price per bag |  |  |  | 80.00 |
| 1. Income from sale of tubers= x\*z |  |  |  | 6,000.00 |
| Number of bundles harvested/ Acre | 40 |  |  |  |
| Price per bundle |  |  |  | 7.50 |
| 1. Expected Income from sale of sticks |  |  |  | 300.00 |
| Total Income = (A+B) |  |  |  | 6,300.00 |
| Net Total (Profit) |  |  |  | 4,254.00 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COASTAL: CHILLI PEPPER** | | | | |
|  | **UNIT (MANDAY/ CONTRACT)** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **acre** | **100.00** | **1** | **100.00** |
| **B) LABOUR COST** |  |  |  |  |
| **I) NURSERY MANAGEMENT** |  |  |  |  |
| • Structure i.e Fencing + Net | NA | NA | NA |  |
| Nursery bed | contract | 200.00 | 1 | 200.00 |
| • Solarization | NA | NA | NA |  |
| • Fertilization | NA | NA | NA |  |
| • Watering | NA | NA | NA |  |
| **II) LAND PREPARATION** |  |  |  |  |
| • Land Clearing |  |  |  |  |
| √ Manual slashing | 1 | 40.00 | 4 | 160.00 |
| √ Chemical (Application) | NA | NA | NA |  |
| • Stumping /control burning | 1 | 40.00 | 1 | 40.00 |
| • Ploughing | acre | 100.00 | 1 | 100.00 |
| • Harrowing | NA | NA | NA |  |
| • Composting | NA | NA | NA |  |
| • Raising of bed | NA | NA | NA |  |
| • Ridging of bed | NA | NA | NA |  |
| • Mulching (Plastic/Organic) | NA | NA | NA |  |
| **III) IRRIGATION** |  |  |  |  |
| • Watering of seedlings on nursery bed | 6 | 5.00 | 5 | 150.00 |
| • Drip irrigation (installation) | NA | NA | NA |  |
| • Sprinkler System | NA | NA | NA |  |
| • Farrow System | NA | NA | NA |  |
| **IV) PLANTING / SOWING** |  |  |  |  |
| • Transplanting | 1 | 20.00 | 10 | 200.00 |
| • Seeding | NA | NA | NA |  |
| **V) WEED MANAGEMENT** |  |  |  |  |
| • Manual weeding(hoeing) | 1 | 20.00 | 20 | 400.00 |
| • Chemical | NA | NA | NA |  |
| **VI) FERTILIZER APPLICATION** |  |  |  |  |
| • NPK | acre | 20.00 | 5 | 100.00 |
| • SOA/ foliar spraying | 1 | 30.00 | 6 | 180.00 |
| • Urea | NA | NA | NA |  |
| • Organic Fertilizer | NA | NA | NA |  |
| **VII) PEST AND DISEASE CONTROL** |  |  |  |  |
| • Nemotodes / insecticides fungicides | 1 | 30.00 | 6 | 180.00 |
| • Blights | NA | NA | NA |  |
| • Integrated Pest Management (IPM) | NA | NA | NA |  |
| **VIII) HARVESTING** |  |  |  |  |
| • Harvesting of produce | 1 | 30.00 | 10 | 300.00 |
| • Carting of produce (Crates ,bowls, baskets ) | NA | NA | NA |  |
| • Sheds | NA | NA | NA |  |
| **IX) PACKAGING/PROCESSING** |  |  |  |  |
| • Blanching | 1 | 10.00 | 5 | 50.00 |
| • Sorting /drying | 1 | 10.00 | 5 | 50.00 |
| • Grading | NA | NA | NA |  |
| • Packing into Containers | NA | NA | NA |  |
| **COST OF INPUTS** |  |  |  |  |
| • Weedicides | NA | NA | NA |  |
| • Pesticides | 2 litres | 25.00 | 1 | 50.00 |
| • Nematicides /fungicides | 1 sachets | 15.00 | 1 | 30.00 |
| • NPK | 2 bags | 120.00 | 1 | 240.00 |
| • SOA/ foliar | 6 sachets | 15.00 | 1 | 90.00 |
| • Urea | NA | NA | NA |  |
| • Irrigation equipment/ Pipes | NA | NA | NA |  |
| • Overhead Tank | NA | NA | NA |  |
| • Pumping machine | NA | NA | NA |  |
| • Furrow/Drains | NA | NA | NA |  |
| • Buckets | NA | NA | NA |  |
| • Organic Fertilizer | NA | NA | NA |  |
| • Plastic Sheet -dry | single | 40.00 | 2 | 80.00 |
| • Sacks | single | 15.00 | 3 | 45.00 |
| • Cutlass | single | 20.00 | 1 | 20.00 |
| • Hoe | single | 30.00 | 1 | 30.00 |
| • Nursery Trays | NA | NA | NA |  |
| • Rake | NA | NA | NA |  |
| • Hand Fork | NA | NA | NA |  |
| • Seed | bottle | 50.00 | 3 | 150.00 |
| • Baskets/ Containers | single | 10.00 | 2 | 20.00 |
| • Knapsack hiring | day | 5.00 | 12 | 60.00 |
| • Nose Mask | single | 5.00 | 1 | 5.00 |
| • Gloves | single | 5.00 | 1 | 5.00 |
| • Wellington Boots | pair | 40.00 | 1 | 40.00 |
| • sharping stone | single | 10.00 | 1 | 10.00 |
| • Goggles | single | 10.00 | 1 | 10.00 |
| • transportation of fertilizer | bag | 5.00 | 2 | 10.00 |
| Total income |  |  |  | 3,105.00 |
| • Contingency (10% of Total cost) |  |  |  | 310.50 |
| Grand Total |  |  |  | 3,415.50 |
| **REVENUE** |  |  |  |  |
| Number of Sacks harvested per Acre 6 | 15 Bags |  |  |  |
| Average weight of Sacks | 60kg |  |  |  |
| Price per Sack 300-500 |  |  |  | 600.00 |
| Total income = Number of Sacks × Unit Price |  |  |  | 9,000.00 |
| Net Total (Profit) |  |  |  | 5,779.20 |

FOREST ZONE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FOREST:MAIZE** | | | | |
|  | **UNIT/MANDAYS/ CONTRACT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **acre** | **160.00** | **1** | **160.00** |
| **B) LABOUR COST** |  |  |  |  |
| **I) LAND PREPARATION** | **mandays** |  |  |  |
| • Land Clearing |  |  |  |  |
| √ Manual | 5 | 35.00 | 1 | **175.00** |
| √ Chemical (Application) | 2 | 25.00 | 1 | **50.00** |
| • Stumping | 2 | 25.00 | 1 | **50.00** |
| • Ploughing | contract | 150.00 | 1 | **150.00** |
| • Harrowing | contract | 150.00 | 1 | **150.00** |
| • Ridging | contract | NA | NA |  |
| **II) PLANTING / SOWING** | **mandays** |  |  |  |
| • Lining and Pegging | 5 | 30.00 | 1 | **150.00** |
| • Sowing (Seeding) | 6 | 20.00 | 2 | **240.00** |
| **III) WEED CONTROL** | **mandays** |  |  |  |
| • Manual | 2 | 25.00 | 2 | **100.00** |
| • Chemicals |  |  |  | **-** |
| √ Post emergence | 2 | 30.00 | 2 | **120.00** |
| **IV) FERTILIZER APPLICATION** | **mandays** |  |  | **-** |
| • NPK | 4 | 20.00 | 2 | **160.00** |
| • S.O.A | NA | NA | NA |  |
| • Urea | 4 | 16.00 | 2 | **128.00** |
| • Organic Manure | 2 | 15.00 | 2 | **60.00** |
| • Foliar | 2 | 15.00 | 2 | **60.00** |
| **V) PEST AND DISEASE CONTROL** | **mandays** |  |  |  |
| • Striga | NA | NA | NA |  |
| • FAW / Stem Borer | 2 | 18.00 | 2 | **72.00** |
| • Maize Streak Virus | NA | NA | NA |  |
| **VI) HARVESTING** | mandays |  |  |  |
| |  | | --- | | • Harvest | |  |  |  |  |
| • Gather at central point | 7 | 30.00 | 1 | **210.00** |
| • Cart to barn | NA | NA | NA |  |
| |  | | --- | | **VII) POST HARVEST** | | **mandays** |  |  |  |
| • De-husking |  |  |  | **-** |
| • Shelling |  |  |  | **-** |
| • Drying | 6 | 15.00 | 4 | **360.00** |
| • Winnowing |  |  |  | **-** |
| • Treatment |  |  |  | **-** |
| • Bagging |  |  |  | **-** |
| • Load/park in storage house | 3 | 30.00 | 1 | **90.00** |
| **INPUTS** | **quantity** |  |  |  |
| • Weedicides (litres) | 4 | 18.00 | 1 | **72.00** |
| • Pesticide (litres) | 1 | 28.00 | 1 | **28.00** |
| • Fungicides(litres) | NA | NA | NA |  |
| • Fertilizer |  |  |  |  |
| √ NPK (Kg) | 2 | 98.00 | 1 | **196.00** |
| √ Manure(bag) | NA | NA | NA |  |
| √ S.O.A | NA | NA | NA |  |
| √ Urea(50kg) | 1bag | 90.00 | 1 | **90.00** |
| • Cutlass | 2 | 16.00 | 1 | **32.00** |
| • Plastic Sheets/Tarpaulin | 2 | 25.00 | 1 | **50.00** |
| • Sacks | 15 | 16.00 | 1 | **240.00** |
| • Baskets | 2 | 5.00 | 1 | **10.00** |
| • Rope (Line ) | 4 | 2.00 | 1 | **8.00** |
| • Pegs | NA | NA | NA |  |
| • Nose mask | NA | NA | NA |  |
| • Gloves | NA | NA | NA |  |
| • Knap sack (hiring) | 1 | 7.00 | 2 | **14.00** |
| • Hoe | NA | NA | NA |  |
| **TOTAL** |  |  |  | **3,225.00** |
| **Contingency (10% of Total cost)** |  |  |  | **322.50** |
| **Grand Total** |  |  |  | **3,547.50** |
| **REVENUE** |  |  |  |  |
| Number of bags harvested per acre………...x | 15 |  |  |  |
| Weight per bag (kg) | 100 |  |  |  |
| Price per bag…………….z |  | 180.00 |  |  |
| **Total Income = x\* z** |  |  |  | **2,700.00** |
| **Net Total (loss)** |  |  |  | **(847.50)** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FOREST: RICE** | | | | |
|  | **UNIT/MANDAYS/ CONTRACT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **acre** | 200.00 | **1** | 200.00 |
| **B)LABOUR COST** |  |  |  |  |
| **I) NURSERY PREPARATION AND MANAGEMENT** | **mandays** |  |  |  |
| • Establishment of nursery | 1 | 30.00 | 1 | 30.00 |
| • Maintenance up to transplanting | 1 | 30.00 | 1 | 30.00 |
| **II) LAND PREPAPRATION** | **mandays** |  |  |  |
| **Upland** |  |  |  |  |
| • Slashing | 5 | 30.00 | 1 | 150.00 |
| • Stumping | NA | NA | NA |  |
| • Collect debris | NA | NA | NA |  |
| • Burning of debris | NA | NA | NA |  |
| • Chemical control of weeds | NA | NA | NA |  |
| • Ploughing | NA | NA | NA |  |
| • Harrowing | NA | NA | NA |  |
| **Lowland (Flooded)** | NA | NA | NA |  |
| • Rotovate (using power tillers) | NA | NA | NA |  |
| • Level field | NA | NA | NA |  |
| • Bounding of field | NA | NA | NA |  |
| **III) IRRIGATION** | NA | NA | NA |  |
| **IV) PLANTING** | **mandays** |  |  |  |
| • Transplanting / direct seeding | 8 | 30.00 | 1 | 240.00 |
| • Seed - drills | NA | NA | NA |  |
| • Broadcasting of seeds | NA | NA | NA |  |
| • Harrow seeds into the soils | NA | NA | NA |  |
| **V) THINNING** | NA | NA | NA |  |
| **VI) REFILL (where necessary)** | NA | NA | NA |  |
| **VII) WEED CONTROL** | **mandays** |  |  |  |
| 2 • Manually -uprooting | NA | NA | NA |  |
| 1• Chemically -spraying | 2 | 30.00 | 2 | 120.00 |
| **VIII) PESTS CONTROL** | **mandays** |  |  |  |
| • Bird Scaring (planting/flowering) | 1 | 2.00 | 30 | 60.00 |
| • Rodent controls at flowering | NA | NA | NA |  |
| spray with chemical | 1 | 30.00 | 1 | 30.00 |
| **IX) DISEASE CONTROL** | **mandays** |  |  |  |
| spray with chemical | NA | NA | NA |  |
|  |  |  |  |  |
| **X) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| • NPK broadcasting 2 bags | 2 | 25.00 | 1 | 50.00 |
| • SOA | NA | NA | NA |  |
| • Urea broadcasting 1 bag | 1 | 25.00 | 1 | 25.00 |
| • K2O as base fertilizer at harrow before seeding | NA | NA | NA |  |
| • N application after seeding | NA | NA | NA |  |
| **XI) HARVESTING** | **mandays** |  |  |  |
| • Cutting of panicles(harvesting & Gathering) | 8 | 30.00 | 1 | 240.00 |
| • Collecting to threshing point | NA | NA | NA |  |
| • Threshing | 3 | 30.00 | 1 | 90.00 |
| • Winnowing (Cleaning) | 2 | 30.00 | 1 | 60.00 |
| **XII) STORAGE** | **mandays** |  |  |  |
| • Dry Paddy to 12% moisture content | NA | NA | NA |  |
| • Bagging | Bag | 2.00 | 3 | 6.00 |
| • Transportation into barns | KIA load | 150.00 | 1 | 150.00 |
| • Loading and Off-loading | Bag | NA | NA |  |
| **INPUTS cost** | **quantity** |  |  |  |
| • Seed 40Kg | 20Kg/ Ac | 2.00 | 20 | 40.00 |
| CHEMICAL FOR TREATMENT | NA | NA | NA |  |
| • Hiring of Tarpaulins | 5 | 10.00 | 1 | 50.00 |
| • Sickles/ Knife | 4 | 7.00 | 1 | 28.00 |
| • Sacks | 18 | 5.00 | 1 | 90.00 |
| • weedicide non-selective(litres) | 4 | 20.00 | 1 | 80.00 |
| • Nose Mask | NA | NA | NA |  |
| • Gloves | NA | NA | NA |  |
| • Hiring of Knapsack | mandays |  |  | - |
| • Weedicides selective(litres) | NA | NA | NA |  |
| • Chemicals for Pest control(litres) | 2 | 25.00 | 1 | 50.00 |
| • Chemicals for Disease control(litres) | NA | NA | NA |  |
| • urea(50kg) | 1 | 70.00 | 1 | 70.00 |
| • NPK(50kg) | 2 | 75.00 | 1 | 150.00 |
| • Shovel | NA | NA | NA |  |
| • Scare crows/ wellington boot | 1 | 45.00 | 1 | 45.00 |
| • goggles | NA | NA | NA |  |
| • sharping stone | 1 | 15.00 | 1 | 15.00 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| **TOTAL** |  |  |  | **2,099.00** |
| **Contingency (10% of Total cost)** |  |  |  | **342.00** |
| **Grand Total** |  |  |  | **2,435.40** |
| **REVENUE** |  |  |  |  |
| Number of bags of paddy (Kg) harvested /acre………...x | 18 bags |  |  |  |
| Weight / bag | 130Kg |  |  |  |
| Price / bag…………….z |  | 250.00 |  |  |
| Total Income = x \* z |  |  |  | 4,500.00 |
| **Net Total (Profit)** |  |  |  | **2,064.60** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FOREST:PLANTAIN** | | | | |
|  | **UNIT/MANDAYS/ CONTRACT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **acre** | **200.00** | **1** | **200.00** |
| **B) LABOUR COST** |  |  |  |  |
| **I) LAND PREPARATION** | **mandays** |  |  |  |
| • Land Clearing |  |  |  |  |
| √ Manual | 3 | 30.00 | 2 | **180.00** |
| |  | | --- | | √ Chemical (Application) | | 2 | 30.00 | 1 | **60.00** |
| • Stumping | 2 | 50.00 | 1 | **100.00** |
| • Control Burning |  |  |  |  |
| **II) PLANTING / SOWING** | **mandays** |  |  |  |
| • Holing | 4 | 20.63 | 1 | **82.50** |
| Lining and Pegging | 4 | 30.00 | 1 | **120.00** |
| • Parring/Curing of Suckers (removal of roots) | NA | NA | NA |  |
| • Dipping of suckers in hot water (60° C) | 3 | 15.00 | 1 | **45.00** |
| • Planting of suckers | 4 | 31.89 | 1 | **127.50** |
| Refilling | 2 | 30.00 | 1 | **60.00** |
| • Propping (ie staking of suckers) | 3 | 15.00 | 2 | **90.00** |
| **III) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| • NPK | 3 | 25.00 | 2 | **150.00** |
| • Muriate of potash | NA | NA | NA |  |
| • SOA | 3 | 25.00 | 2 | **150.00** |
| • Organic manure | NA | NA | NA |  |
| **IV) WEED CONTROL** | **mandays** |  |  |  |
| • Manual (1st and 2nd Weeding) | 4 | 30.00 | 2 | **240.00** |
| • Chemicals | 2 | 25.00 | 1 | **50.00** |
| • Pruning (Removal of disease/ excess branches ) | 2 | 21.25 | 2 | **85.00** |
| **V) PEST AND DISEASE CONTROL** | **mandays** |  |  |  |
| • Anthracnose | NA | NA | NA |  |
| • Black Sigatoga | 2 | 25.00 | 1 | **50.00** |
| • Fusarium wilt i.e. Panama disease | 2 | 25.00 | 1 | **50.00** |
| • Rhizome rot | 2 | 25.00 | 1 | **50.00** |
| **VI) HARVESTING** | **mandays** |  |  |  |
| |  | | --- | | • Cutting of bunches | |  |  |  | **-** |
| • Carting to central point | 10 | 23.50 | 1 | **235.00** |
| • Loading of produce |  |  |  |  |
| **INPUT COST** | **quantity** |  |  |  |
| • Suckers | 460 | 2.00 |  | **920.00** |
| • Material for staking | 1210 | 0.10 |  | **121.00** |
| • N.P.K(50kg) | 2 bags | 120.00 |  | **240.00** |
| • Muriate of potash | NA | NA | NA |  |
| • SOA (litres) | 1 | 90.00 | 1 | **90.00** |
| • Organic manure (bag) | NA | NA | NA |  |
| • Chemicals for pest control (litres) | 1 litre | 30.00 | 1 | **30.00** |
| • Chemicals for disease control(litres) | 2litres | 35.00 | 1 | **70.00** |
| • Earth chisel | 2 | 60.00 |  | **120.00** |
| • Cutlass | 2 | 21.50 | 1 | **43.00** |
| • Hoe | NA | NA | NA |  |
| • Boots | 2 | 50.00 |  | **100.00** |
| • Knap sack | 1 | 70.00 | 1 | **70.00** |
| • Gloves | 2 | 15.00 | 1 | **30.00** |
| • Nose Mask | 2 | 7.00 | 1 | **14.00** |
| TOTAL |  |  |  | **3,973.00** |
| **Contingency (10% of Total cost)** |  |  |  | **397.30** |
| **Grand Total** |  |  |  | **4,370.30** |
| **REVENUE** |  |  |  |  |
| Plant Population / Acre |  |  |  |  |
| Number of bunches / Acre | 670 |  |  |  |
| Average weight / bunch | 15kg |  |  |  |
| Price / bunch |  |  |  | 27.5 |
| Number of sucker harvested / Acre | 435 |  |  |  |
| Price / sucker |  |  |  | 2 |
| Total income = income from bunches + income suckers |  |  |  | 19295 |
| Net total (Profit) |  |  |  | **14,924.70** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FOREST:CASSAVA** | | | | |
|  | **UNIT/MANDAYS/ CONTRACT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **Acre** | **160.00** | **1** | 160.00 |
| **B) LABOUR COST** |  |  |  |  |
| **I) LAND PREPARATION** | **mandays** |  |  |  |
| • Land Clearing |  |  |  | - |
| 1st- Manual | 3 | 35.00 | 2 | 210.00 |
| 2nd- Stumping/ Gathering of Debris | 4 | 25.00 | 1 | 100.00 |
| 3rd- Weedicide Application | 2 | 30.00 | 1 | 60.00 |
| • Ploughing | contract | 100.00 | 1 | 100.00 |
| • Harrowing | contract | 100.00 | 1 | 100.00 |
| • Lining and pegging | contract | 100.00 | 1 | 100.00 |
| **II) PLANTING** | **mandays** |  |  | - |
| • Stem Cutting | 2 | 20.00 | 1 | 40.00 |
| • Transportation of sticks to farm at planting | 1 | 47.00 | 1 | 47.00 |
| • Planting | 6 | 30.00 | 1 | 180.00 |
| • Refilling | 2 | 30.00 | 1 | 60.00 |
| **III) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| **•** Manure (Cow dung/poultry dropping) | **NA** | NA | NA |  |
| • NPK | **NA** | NA | NA |  |
| **IV) WEED CONTROL** | **mandays** |  |  |  |
| • Manual ( 1st and 2nd Weeding) | 6 | 30.00 | 1.00 | 180.00 |
| • Chemicals | 2 | 30.00 | 1 | 60.00 |
| **V) PEST AND DISEASE CONTROL** | **mandays** |  |  | - |
| **•** Mealy bug/ Termite/ Grasshopper | **1** | 25.00 | 2 | 50.00 |
| • Cassava Mosaic Virus | NA | NA | NA |  |
| • Cassava Bacterial Blight | NA | NA | NA |  |
| • Root Rot | NA | NA | NA |  |
| • Anthracnose Disease | NA | NA | NA |  |
| **VI) HARVESTING** | **mandays** |  |  | - |
| • Uprooting of roots | 8 | 25.00 | 1 | 200.00 |
| • Carting to central point | 3 | 15.00 | 2 | 90.00 |
| • Bagging and loading | NA | NA | NA |  |
| Transport of produce to market | 1 | 65.00 | 3 | 195.00 |
| **INPUT COST** | **quantity** |  |  | - |
| • Planting material (stem cuttings) | 7 bundles | 25.00 | 1 | 175.00 |
| • Pesticides(litres) | 1 litre | 30.00 |  | 30.00 |
| • Weedicides/Herbicides non-selective(litres) | 3 | 25.00 | 1 | 75.00 |
| • Chemicals for Disease control(litres) | NA | NA | NA |  |
| • Manure (poultry droppings)bag | NA | NA | NA |  |
| • N.P.K(kg) | NA | NA | NA |  |
| • Line and Pegs | NA | NA | NA |  |
| •.Cutlass/ machete | 2 | 20.00 | 1 | 40.00 |
| • Hoe | 2 | 30.00 | 1 | 60.00 |
| • Sacks | 85 | 5.00 | 1 | 425.00 |
| • Knapsack hiring | 2 | 10.00 | 4 | 80.00 |
| • Gloves | 2 | 12.00 | 1 | 24.00 |
| • Nose Mask | 2 | 7.00 | 1 | 14.00 |
| • Boots | 1 | 50.00 | 1 | 50.00 |
| sharping stone | 1 | 18.00 | 1 | 18.00 |
| **TOTAL** |  |  |  | **2,923.00** |
| **Contingency (10% of Total cost)** |  |  |  | **292.30** |
| **Grand Total** |  |  |  | **3,215.30** |
| **REVENUE** |  |  |  |  |
| Number of bags harvested/ Acre = x | 85 |  |  |  |
| Average weight of bag |  |  | 1 |  |
| Price per bag= z |  | 109 | 1 |  |
| Income from sale of tubers=x\*z | 10845.5 |  | 1 |  |
| Number of bundles harvested/ Acre |  |  |  | 25.00 |
| Price per bundle |  |  |  | 10.00 |
| Expected Income from sale of sticks= K |  |  |  | 250.00 |
| **Total Income = x\* z + K** |  |  |  | **11,095.50** |
| **Net Total** |  |  |  | **7,880.20** |

TRANSITIONAL ZONE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TRANSITIONAL: MAIZE** | | | | |
|  | **UNIT/MANDAYS** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | acre | 75.00 | 1 | **75.00** |
| **B) LABOUR COST** |  |  |  |  |
| **I) LAND PREPARATION** | **mandays** |  |  |  |
| • Land Clearing |  |  |  |  |
| √ Manual | 3 | 25.00 | 1 | 75.00 |
| √ Chemical (Application) | 3 | 20.00 | 1 | 60.00 |
| • Stumping | NA | NA | NA |  |
| • Ploughing | 1 | 125.00 | 1 | 125.00 |
| • Harrowing | NA | NA | NA |  |
| • Ridges | NA | NA | NA |  |
| **II) PLANTING / SOWING** | **mandays** |  |  |  |
| • Lining and Pegging | 2 | 25.00 | 1 | 50.00 |
| • Sowing (Seeding) | 2 | 43.00 | 1 | 86.00 |
| **III) WEED CONTROL** | **mandays** |  |  |  |
| • Manual | 2 | 25.00 | 1 | 50.00 |
| • Chemicals |  |  |  |  |
| √ Pre-emergence | 1 | 20.00 | 1 | 20.00 |
| **IV) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| • NPK |  | 25.00 | 1 | 25.00 |
| • S.O.A | NA | NA | NA |  |
| • Urea |  | 18.00 | 1 | 18.00 |
| • Organic Manure | NA | NA | NA |  |
| • Foliar |  |  |  |  |
|  |  |  |  |  |
| **V) PEST AND DISEASE CONTROL** | **mandays** |  |  |  |
| • Striga | NA | NA | NA |  |
| • FAW / Stem Borer | 1 | 23.00 | 3 | 69.00 |
| • Maize Streak Virus | NA | NA | NA |  |
| **VI) HARVESTING** | mandays |  |  |  |
| • Harvest | 2 | 63.00 | 1 | 126.00 |
| • Gather at central point | 2 | 38.00 | 1 | 76.00 |
| • Cart to barn |  | 65.00 | 1 | 65.00 |
| **VII) POST HARVEST** | **mandays** |  |  |  |
| |  | | --- | | • De-husking | |  |  |  |  |
| • Shelling |  | 11.00 | 14 | 154.00 |
| • Drying | NA | NA | NA |  |
| • Winnowing |  |  |  |  |
| |  | | --- | | • Treatment | |  | 20.00 | 1 | 20.00 |
| • Bagging | 2 | 12.00 | 7 | 168.00 |
| • Load/park in storage house | 2 | 11.00 | 7 | 154.00 |
| **INPUTS** | **quantity** |  |  |  |
| • Weedicides (litres) | 6 | 19.00 | 1 | 114.00 |
| • Pesticide (litres) | 2 | 20.00 | 1 | 40.00 |
| • Fungicides(litres) | NA | NA | NA |  |
| • Fertilizer |  |  |  | - |
| √ NPK (Kg) | 2 | 75.00 | 1 | 150.00 |
| √ Manure(bag) | NA | NA | NA |  |
| √ S.O.A (litres) | NA | NA | NA |  |
| √ Urea(kg) | 1 | 70.00 | 1 | 70.00 |
| • Cutlass |  | 19.00 | 1 | - |
| • Plastic Sheets/Tarpaulin | 1 | 25.00 | 1 | 25.00 |
| • Seeds | 9Kg | 63.00 | 1 | 63.00 |
| • Sacks | 15 | 5.00 | 1 | 75.00 |
| • Baskets | NA | NA | NA |  |
| • Rope (Line ) | NA | NA | NA |  |
| • Pegs | NA | NA | NA |  |
| • Nose mask | 1 | 5.00 | 1 | 5.00 |
| • Gloves | 1 | 5.00 | 1 | 5.00 |
| • Knap sack | 1 | 58.00 | 1 | 58.00 |
| • Hoe | 1 | 15.00 | 1 | 15.00 |
| TOTAL |  |  |  | **2,036.00** |
| Contingency (10% of Total cost) |  |  |  | **203.60** |
| Grand Total |  |  |  | **2,239.60** |
| **REVENUE** |  |  |  |  |
| Number of bags harvested per acre………...x | 14.00 |  |  |  |
| Weight per bag (kg) | 130.00 |  |  |  |
| Price per bag…………….z |  |  |  | 150.00 |
| Total Income = x \* z |  |  |  | **2,100.00** |
| Net Total (loss) |  |  |  | **(139.60)** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TRANSITIONAL: CASSAVA** | | | | |
|  | **UNIT (MANDAY/ CONTRACT)** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **Acre** | **55.00** | **2** | **82.50** |
| **B) LABOUR COST** |  |  |  |  |
| **I) LAND PREPARATION** | **mandays** |  |  |  |
| • Land Clearing |  |  |  |  |
| √ Manual | 8 | 25.00 | 1 | **200.00** |
| √ Chemical (Application) | 5 | 22.50 | 1 | **112.50** |
| • Stumping | 4 | 30.00 | 1 | **120.00** |
| • Mounding | 9 | 30.00 | 1 | **270.00** |
| • Harrowing | NA | NA | NA |  |
| • Lining and pegging | NA | NA | NA |  |
| • Ploughing |  | 100.00 | 1 | **100.00** |
| **II) PLANTING** | **mandays** |  |  |  |
| • Stem Cutting | 3 | 37.50 | 1 | **112.50** |
| • Planting | 2 | 22.50 | 3 | **135.00** |
| • Intercrop with mucuna to prevent nutrient mining |  |  |  |  |
| **III) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| **•** Manure (Cow dung/poultry dropping) | **2** | 20.00 | 3 | **120.00** |
| • NPK |  |  |  |  |
| **IV) WEED CONTROL** | **mandays** |  |  |  |
| • Manual | **4** | 30.00 | 3 | **360.00** |
| • Chemicals | 4 | 25.00 | 2 | **200.00** |
| **V) PEST AND DISEASE CONTROL** | **mandays** |  |  |  |
| **•** Mealy bug/ Termite/ Grasshopper | **NA** | **NA** | **NA** |  |
| • Cassava Mosaic Virus | **NA** | **NA** | **NA** |  |
| • Cassava Bacterial Blight | **NA** | **NA** | **NA** |  |
| • Root Rot | **NA** | **NA** | **NA** |  |
| • Anthracnose Disease | **NA** | **NA** | **NA** |  |
| **VI) HARVESTING** | **mandays** |  |  |  |
| • Uprooting of roots | 4 | 40.00 | 6 | **960.00** |
| • Carting to central point | 8 | 25.00 | 3 | **600.00** |
| • Bagging | 1 | 20.00 | 5 | **100.00** |
| • Loading | 6 | 25.00 | 3 | **375.00** |
| • Transport to market | 1 | 200.00 | 2 | **300.00** |
| **INPUT COST** | **quantity** |  |  |  |
| • Planting material / stem cuttings(bundles) | 40 | 5.75 | 1 | **230.00** |
| • Leguminous seeds | NA | NA | NA |  |
| • Pesticides | NA | NA | NA |  |
| • Weedicides/Herbicides(litres) | 8 | 57.00 | 1 | **456.00** |
| • Chemicals for Disease control(litres) | NA | NA | NA |  |
| • Manure (poultry droppings)bag | 24 | 6.00 | 1 | **144.00** |
| • N.P.K(kg) | NA | NA | NA |  |
| • Line and Pegs | NA | NA | NA |  |
| •.Cutlass | 1 | 19.00 | 3 | **57.00** |
| • Hoe | 2 | 17.00 | 3 | **102.00** |
| • Basket/ Sacks | 35 | 3.00 |  | **105.00** |
| • Knap sack | 1 | 155.00 | 2 | **310.00** |
| • Gloves | NA | NA | NA |  |
| • Nose Mask | NA | NA | NA |  |
| • Boots |  | 40.00 | 1 | **40.00** |
| TOTAL |  |  |  | **5,591.50** |
| • Contingency (10% of Total cost) |  |  |  | **559.15** |
| Grand Total |  |  |  | **6,150.65** |
| **REVENUE** |  |  |  |  |
| Number of bags harvested Acre = x | 97 |  |  |  |
| Average weight of bag | 50 |  |  |  |
| Price per bag= z |  |  |  | 75 |
| Income from sale of tubers=x\*z |  |  |  | 7,875 |
| Number of bundles harvested/ Acre | 40 |  |  |  |
| Price per bundle |  |  |  | 6.50 |
| Expected Income from sale of bundles= K |  |  |  | 260 |
| Total Income = (x \* z) + K |  |  |  | **8,135** |
| Net Total (Profit) |  |  |  | **1,984** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TRANSITIONAL: CHILLI PEPPER** | | | | |
|  | **UNIT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **acre** | **100.00** | **1** | **100.00** |
| **B) LABOUR COST** |  |  |  |  |
| **I) NURSERY MANAGEMENT** | **mandays** |  |  |  |
| • Structure i.e Fencing + Net | NA | NA | NA |  |
| • Nursery beds | 2 | 20.00 | 3 | **120.00** |
| • Solarization | 1 | 30.00 | 1 | **30.00** |
| • Fertilization | 1 | 10.00 | 1 | **10.00** |
| • Watering | 1 | 60.00 | 2 | **120.00** |
| **II) LAND PREPARATION** | **mandays** |  |  |  |
| • Land Clearing |  |  |  |  |
| √ Manual | 8 | 25.00 | 1 | **200.00** |
| √ Chemical (Application) | 3 | 23.00 | 1 | **69.00** |
| • Stumping | 4 | 30.00 | 1 | **120.00** |
| • Ploughing | 1 | 100.00 | 1 | **100.00** |
| • Harrowing | NA | NA | NA |  |
| • Composting | NA | NA | NA |  |
| • Raising of bed | 6 | 30.00 | 1 | **180.00** |
| • Ridging of bed | NA | NA | NA |  |
| • Mulching (Plastic/Organic) | NA | NA | NA |  |
| **III) IRRIGATION** | **mandays** |  |  |  |
| • Watering | 4 | 25.00 | 6 | **600.00** |
| • Sprinkler System | NA | NA | NA |  |
| • Farrow System | NA | NA | NA |  |
| **IV) PLANTING / SOWING** | **mandays** |  |  |  |
| • Transplanting | 2 | 60.00 | 1 | **120.00** |
| • Seeding |  |  |  |  |
| **V) WEED MANAGEMENT** | mandays |  |  |  |
| • Manual | 5 | 63.00 | 4 | **1,260.00** |
| • Chemical | NA | NA | NA |  |
| **VI) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| • NPK | 3 | 30.00 | 1 | **90.00** |
| • SOA | 3 | 25.00 | 2 | **150.00** |
| • Urea | 1 | 30.00 | 1 | **30.00** |
| • Organic Fertilizer | 1 | 20.00 | 2 | **40.00** |
| **VII) PEST AND DISEASE CONTROL** | **mandays** |  |  |  |
| • Nemotodes | 1 | 20.00 | 1 | **20.00** |
| • Blights | NA | NA | NA |  |
| • Integrated Pest Management (IPM) | 3 | 23.00 | 5 | **345.00** |
| **VIII) HARVESTING** | **mandays** |  |  |  |
| • Harvesting of produce | 5 | 65.00 | 11 | **3,575.00** |
| • Carting of produce (Crates ,bowls, baskets ) | 2 | 20.00 | 11 | **440.00** |
| • Sheds | NA | NA | NA |  |
| **IX) PACKAGING** | **mandays** |  |  |  |
| • Blanching | NA | NA | NA |  |
| • Sorting | 3 | 20.00 | 12 | **720.00** |
| • Grading | NA | NA | NA |  |
| • Packing into Containers | 1 | 30.00 | 1 | **30.00** |
| **COST OF INPUTS** | **quantity** |  |  |  |
| • Weedicides(litres) | 3 | 17.00 | 1 | **51.00** |
| • Pesticides (litres) | 2 | 35.00 | 1 | **70.00** |
| • Nematicides (litres) | 1 | 53.00 | 1 | **53.00** |
| • NPK(kg) | 2 | 75.00 | 1 | **150.00** |
| • SOA(litres) | 1 | 85.00 | 2 | **170.00** |
| • Urea(kg) |  |  |  | **-** |
| • Irrigation equipment | NA | NA | NA |  |
| • Overhead Tank | NA | NA | NA |  |
| • Pumping machine (Discounted over15 yrs- GHC 1600 | 1 | 107.00 | 1 | **107.00** |
| • Furrow/Drains | NA | NA | NA |  |
| • Buckets | NA | NA | NA |  |
| • Organic Fertilizer | 3 | 25.00 | 1 | **75.00** |
| • Plastic Sheet (Mulch) | NA | NA | NA |  |
| • Cutlass | 1 | 19.00 | 1 | **19.00** |
| • Hoe | 2 | 17.00 | 1 | **34.00** |
| • Nursery Trays | NA | NA | NA |  |
| • Rake | NA | NA | NA |  |
| • Hand Fork | NA | NA | NA |  |
| • Seed |  | 135.00 | 1 | **-** |
| • Baskets/ Containers | 3 | 30.00 | 1 | **90.00** |
| • Knapsack (Discounted over 10yrs - GH₵200.00) | 1 | 20.00 | 1 | **20.00** |
| • Nose Mask | 1 | 20.00 | 1 | **20.00** |
| • Gloves | 1 | 20.00 | 1 | **20.00** |
| • Wellington Boots | 1 | 40.00 | 1 | **40.00** |
| • Goggles | NA | NA | NA |  |
| • Contingency (10% of Total cost) | NA | NA | NA |  |
| TOTAL |  |  |  | **9,388.00** |
| Contingency (10% of Total cost) |  |  |  | **938.80** |
| Grand Total |  |  |  | **10,326.80** |
| **REVENUE** |  |  |  |  |
| Number of Sacks harvested per Acre | 102 |  |  |  |
| Average weight of Sacks |  |  |  |  |
| Price per Sack |  |  |  | 155.00 |
| Total income = Number of Sacks × Unit Price |  | 102.00 | 155.00 | **15,810.00** |
| Realised income = Income - Loss |  |  |  | **15,810.00** |
| Net Total (profit) |  |  |  | **5,483.20** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TRANSITIONAL: TOMATO** | | | | |
|  | **UNIT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **acre** | **100.00** | **1** | **100.00** |
| **I) LABOUR COST** |  |  |  |  |
| **II) NURSERY MANAGEMENT** | **mandays** |  |  |  |
| • Structure i.e Fencing + Net | NA | NA | NA |  |
| • Nursery beds | 2 | 30.00 | 1 | **60.00** |
| • Solarization | 1 | 30.00 | 1 | **30.00** |
| • Fertilization | NA | NA | NA |  |
| • Watering | 1 | 20.00 | 3 | **60.00** |
| **III) LAND PREPARATION** | **mandays** |  |  |  |
| • Land Clearing |  |  |  |  |
| √ Manual | 8 | 25.00 | 1 | **200.00** |
| √ Chemical (Application) | 5 | 25.00 | 1 | **125.00** |
| • Stumping | 4 | 30.00 | 1 | **120.00** |
| • Ploughing | NA | NA | NA |  |
| • Harrowing | NA | NA | NA |  |
| • Composting | NA | NA | NA |  |
| • Raising of bed | 6 | 30.00 | 1 | **180.00** |
| • Ridging of bed | NA | NA | NA |  |
| • Mulching (Plastic/Organic) | NA | NA | NA |  |
| **IV) IRRIGATION** | **mandays** |  |  |  |
| • Watering | 4 | 25.00 | 6 | **600.00** |
|  |  |  |  |  |
| • Sprinkler System | NA | NA | NA |  |
| • Farrow System | NA | NA | NA |  |
| **V) PLANTING / SOWING** | **mandays** |  |  |  |
| • Transplanting | 8 | 25.00 | 1 | **200.00** |
| • Seeding | NA | NA | NA |  |
| **VI) WEED MANAGEMENT** | mandays |  |  |  |
| • Manual | 6 | 30.00 | 4 | **720.00** |
| • Chemical | NA | NA | NA |  |
| **VII) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| • NPK | 4 | 25.00 | 2 | **200.00** |
| • SOA | 4 | 25.00 | 2 | **200.00** |
| • Urea | NA | NA | NA |  |
| • Organic Fertilizer | NA | NA | NA |  |
| **VIII) PEST AND DISEASE CONTROL** | **mandays** |  |  |  |
| • Nemotodes | NA | NA | NA |  |
| • Blights | NA | NA | NA |  |
| • Integrated Pest Management (IPM) | 4 | 25.00 | 8 | **800.00** |
| **IX) HARVESTING** | **mandays** |  |  |  |
| • Harvesting of produce | 8 | 30.00 | 12 | **2,880.00** |
| • Carting of produce (Crates ,bowls, baskets ) | 2 | 20.00 | 12 | **480.00** |
| • Sheds | NA | NA | NA |  |
| **X) PACKAGING** | **mandays** |  |  |  |
| • Washing | NA | NA | NA |  |
| • Sorting | 3 | 20.00 | 12 | **720.00** |
| • Grading | NA | NA | NA |  |
| • Packing into Containers | 1 | 30.00 | 1 | **30.00** |
| **COST OF INPUTS** | **quantity** |  |  |  |
| • Weedicides(litres) | 4 | 14.00 | 1 | **56.00** |
| • Pesticides (litres) | 12 | 45.00 | 1 | **540.00** |
| • Nematicides (litres) | 1 | 55.00 | 1 | **55.00** |
| • NPK(kg) | 2 | 75.00 | 2 | **300.00** |
| • SOA(litres) | 1 | 85.00 | 2 | **170.00** |
| • Urea(kg) | NA | NA | NA |  |
| • Irrigation equipment | NA | NA | NA |  |
| • Overhead Tank | NA | NA | NA |  |
| • Pumping machine (Discounted over15 yrs- GHC 1600 | 1 | 107.00 | 1 | **107.00** |
| • Furrow/Drains | NA | NA | NA |  |
| • Buckets | NA | NA | NA |  |
| • Organic Fertilizer | 4 | 25.00 | 1 | **100.00** |
| • Plastic Sheet (Mulch) | NA | NA | NA |  |
| • Cutlass | 1 | 18.00 | 1 | **18.00** |
| • Hoe | 2 | 24.00 | 1 | **48.00** |
| • Nursery Trays | NA | NA | NA |  |
| • Rake | NA | NA | NA |  |
| • Hand Fork | NA | NA | NA |  |
| • Seed | 1 | 120.00 | 1 | **120.00** |
| • Baskets/ Containers | 6 | 15.00 | 1 | **90.00** |
| • Knapsack (Discounted over 10yrs - GH₵200.00) | 2 | 20.00 | 1 | **40.00** |
| • Nose Mask | NA | NA | NA |  |
| • Gloves | NA | NA | NA |  |
| • Wellington Boots | NA | NA | NA |  |
| • Goggles | NA | NA | NA |  |
| TOTAL |  |  |  | 9,349.00 |
| • Contingency (10% of Total cost) |  |  |  | **935.00** |
| Grand Total |  |  |  | 10,284.00 |
| **REVENUE** |  |  |  |  |
| **Tomato** |  |  |  |  |
| Number of Crates harvested per Acre | 120 |  |  |  |
| Average weight of Crate (kg) | 72 |  |  |  |
| Price per Crate (GHC) |  |  |  | 140.00 |
| Total income = Number of Crates × Unit Price |  |  |  | 16,800.00 |
| Realised income = Income - Loss |  |  |  | **16,800.00** |
| Net total (Profit) |  |  |  | **6,516.00** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TRANSITIONAL:YAM** | | | | |
|  | **UNIT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
|  |  |  |  |  |
| **A) LAND RENT** | **acre** | **100.00** | **1** | **100.00** |
| **B) LABOUR COST** |  |  |  |  |
| **I) LAND PREPAPRATION** | **mandays** |  |  |  |
| • Slashing | 8 | 25.00 | 1 | 200.00 |
| • Stumping | 5 | 30.00 | 1 | 150.00 |
| • Collect debris | 3 | 25.00 | 1 | 75.00 |
| • Burning of debris | NA | NA | NA |  |
| • Chemical control of weeds | 4 | 25.00 | 2 | 200.00 |
| • Mounding | 23 | 30.00 | 1 | 690.00 |
| **II) PLANTING** | **mandays** |  |  |  |
| • Sett treatment (cutting, healing, Pests control) | 1 | 25.00 | 1 | 25.00 |
| • Planting | 3 | 25.00 | 1 | 75.00 |
| **III) MULCHING** | mandays 5 | 25.00 | 1 | 125.00 |
| **IV) REFILL (where necessary)** | mandays | 25.00 | 1 | 25.00 |
| **V) STAKING** | **mandays** |  |  |  |
| • Cutting of stakes and gathering | 10 | 30.00 | `1 | 300.00 |
| Transporting of stakes | f | 150.00 | 1 | 150.00 |
| Staking | 5 | 30.00 | 1 | 150.00 |
| **VI) WEED CONTROL** | **mandays** |  |  |  |
| • Manual | 6 | 30.00 | 3 | 540.00 |
| • Chemical | 2 | 25.00 | 1 | 50.00 |
| **VII) PEST CONTROL** | **mandays** |  |  |  |
|  | NA | NA | NA |  |
| **VIII) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| • NPK | NA | NA | NA |  |
| • SOA | NA | NA | NA |  |
| • Urea | NA | NA | NA |  |
| • Manuring | 3 | 25.00 | 1 | 75.00 |
| **IX) HARVESTING** | **mandays** |  |  |  |
| • Milking | 5 | 30.00 | 1 | 150.00 |
| • Gathering at the central point | 3 | 25.00 | 2 | 150.00 |
| • Loading | 2 | 25.00 | 1 | 50.00 |
| •) Transporting to market | 1 | 350.00 | 1 | 350.00 |
| **X) STORAGE** | **mandays** |  |  |  |
| • Carting into barn | 1 | 150.00 | 1 | 150.00 |
| • Packing | 2 | 20.00 | 1 | 20.00 |
| **INPUTS** | **quantity** |  |  |  |
| • Seed / Setts | 2,500 | 1.50 | 1 | 3,750.00 |
| • Stakes | - | - | 0 | - |
| • Insecticide (litres) | 1 | 20.00 | 1 | 20.00 |
| • Fungicide (kg) | 1 | 45.00 | 1 | 45.00 |
| • Baskets | NA | NA | NA |  |
| • Nose Mask | NA | NA | NA |  |
| • Gloves | NA | NA | NA |  |
| • Hiring of Knapsack | 4 | 7.00 | 1 | 28.00 |
| • Weedicides(litres) | 8 | 14.00 | 1 | 112.00 |
| • Chemicals for Pest control(litres) | NA | NA | NA |  |
| • Chemicals for Disease control(litres) | NA | NA | NA |  |
| • SOA(bags) | NA | NA | NA |  |
| • NPK(bags) | 1 | 40.00 | 1 | 40.00 |
| • Cutlass | 1 | 18.00 | 1 | 18.00 |
| • Hoe | 2 | 24.00 | 1 | 48.00 |
| • Pans | NA | NA | NA |  |
| TOTAL |  |  |  | 7,861.00 |
| • Contingency (10% of Total cost) |  |  |  | 786.10 |
| Grand Total |  |  |  | 8,647.10 |
| **REVENUE** |  |  |  |  |
| Number of tubers harvested /acre………...x | 1,850 | 8.00 | 1 | 14,800.00 |
| Number of tubers harvested as Setts /acre………...x | 1,850 | 1.50 | 1 | 2,775.00 |
| Weight / 100 tubers. | 250 |  |  |  |
| Price / 100 tubers… ………….z |  |  |  | 800 |
| Price / 100 Setts… ………….z |  |  |  | 150 |
| Total Income = x\* z |  |  |  | 17,575 |
| Net total (Profit) |  |  |  | 8,927.90 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TRANSITIONAL: RICE (UPLAND)** | | | | |
|  | **UNIT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **acre** | **50.00** | **1.00** | **50.00** |
| **B) LABOUR COST** |  |  |  |  |
| **I) NURSERY MANAGEMENT** | **mandays** |  |  |  |
| • Establishment of nursery |  | 20.00 | 1.00 | 20.00 |
| • Maintenance up to transplanting |  | 20.00 | 3.00 | 60.00 |
| **II) LAND PREPAPRATION** | **mandays** |  |  |  |
| **Upland**  • Slashing |  | 100.00 | 1.00 | 100.00 |
| • Stumping | NA | NA | NA |  |
| • Collect debris |  | 50.00 | 1.00 | 50.00 |
| • Burning of debris |  | 20.00 | 1.00 | 20.00 |
| • Chemical control of weeds |  | 20.00 | 1.00 | 20.00 |
| • Ploughing |  | 100.00 | 1.00 | 100.00 |
| • Harrowing | NA | NA | NA |  |
| **III) PLANTING** | **mandays** |  |  |  |
| • Transplanting | NA | NA | NA |  |
| • Seed - drills |  | 150.00 | 1.00 | 150.00 |
| • Broadcasting of seeds | NA | NA | NA |  |
| • Harrow seeds into the soils | NA | NA | NA |  |
| **IV) THINNING** | NA | NA | NA |  |
| **V) REFILL (where necessary)** | NA | NA | NA |  |
| **VI) WEED CONTROL** | **mandays** |  |  |  |
| • Manually | NA | NA | NA |  |
| • Chemically |  | 25.00 | 1.00 | 25.00 |
| **VII) PESTS CONTROL** | **mandays** |  |  |  |
| • Bird Scaring |  | 300.00 | 1.00 | 300.00 |
| • Rodent controls | NA | NA | NA |  |
| **VIII) DISEASE CONTROL** | **mandays** |  |  |  |
| *• blast* |  | 20.00 | 1.00 | 20.00 |
| **IX) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| • NPK |  | 15.00 | 2.00 | 30.00 |
| • SOA |  | 15.00 | 1.00 | 15.00 |
| • Urea |  | 15.00 | 1.00 | 15.00 |
| • K2O as base fertilizer at harrow before seeding | NA | NA | NA |  |
| • N application after seeding | NA | NA | NA |  |
| **X) HARVESTING** | **mandays** |  |  |  |
| • Cutting of panicles |  | 100.00 | 1.00 | 100.00 |
| • Collecting to threshing point |  | 50.00 | 1.00 | 50.00 |
| • Threshing |  | 10.00 | 18.00 | 180.00 |
| • Winnowing (Cleaning) |  | 50.00 | 1.00 | 50.00 |
| **XI) STORAGE** | **mandays** |  |  |  |
| • Dry Paddy to 12% moisture content |  | 50.00 | 1.00 | 50.00 |
| • Bagging |  | 50.00 | 1.00 | 50.00 |
| • Transportation into barns |  | 10.00 | 18.00 | 180.00 |
| • Loading and Off-loading | NA | NA | NA |  |
| **INPUTS** | **quantity** |  |  |  |
| • Seed |  | 40.00 | 1.00 | 40.00 |
| • Hiring of Tarpaulins |  | 100.00 | 1.00 | 100.00 |
| • Sickles/ Knife |  | 15.00 | 4.00 | 60.00 |
| • Sacks |  | 3.00 | 18.00 | 54.00 |
| • Baskets | NA | NA | NA |  |
| • Nose Mask | NA | NA | NA |  |
| • Gloves | NA | NA | NA |  |
| • Knapsack |  | 50.00 | 1.00 | 50.00 |
| • Weedicides(litres) |  | 25.00 | 1.00 | 25.00 |
| • Chemicals for Pest control(litres) |  | 25.00 | 1.00 | 25.00 |
| • Chemicals for Disease control(litres) |  | 20.00 | 1.00 | 20.00 |
| • SOA(litres) | NA | NA | NA |  |
| • NPK(kg) |  | 75.00 | 2.00 | 150.00 |
| • Scare crows | NA | NA | NA |  |
| • Traps | NA | NA | NA |  |
| • Pans | NA | NA | NA |  |
| TOTAL |  |  |  | **2,159.00** |
| • Contingency (10% of Total cost) |  |  |  | **215.90** |
| Grand Total |  |  |  | **2,374.90** |
| **REVENUE** |  |  |  |  |
| Number of bags of paddy (Kg) harvested /acre………...x |  | 18.00 | 1.00 | 18.00 |
| Weight / bag |  | 120.00 | 1.00 | 120.00 |
| Price / bag…………….z |  | 180.00 |  |  |
| Total Income = x\* z |  |  |  | **3,240.00** |
| Net Total (profit) |  |  |  | **865.10** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TRANSITIONAL: RICE (LOWLAND)** | | | | |
|  | **UNIT** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | **acre** | **50.00** | **1.00** | **50.00** |
| **B) LABOUR COST** |  |  |  |  |
| **I) NURSERY MANAGEMENT** | **mandays** |  |  |  |
| • Establishment of nursery |  | 20.00 | 1.00 | 20.00 |
| • Maintenance up to transplanting |  | 20.00 | 3.00 | 60.00 |
| **II) LAND PREPAPRATION** | **mandays** |  |  |  |
| **Lowland (Flooded)** | NA | NA | NA |  |
| • Rotovate (using power tillers) |  | 100.00 | 1.00 | 100.00 |
| • Level field | NA | NA | NA |  |
| • Bounding of field | NA | NA | NA |  |
| **III) IRRIGATION** | NA | NA | NA |  |
| **IV) PLANTING** | **mandays** |  |  |  |
| • Transplanting | NA | NA | NA |  |
| • Seed - drills |  | 150.00 | 1.00 | 150.00 |
| • Broadcasting of seeds | NA | NA | NA |  |
| • Harrow seeds into the soils | NA | NA | NA |  |
| **V) THINNING** | NA | NA | NA |  |
| **VI) REFILL (where necessary)** | NA | NA | NA |  |
| **VII) WEED CONTROL** | **mandays** |  |  |  |
| • Manually | NA | NA | NA |  |
| • Chemically |  | 25.00 | 1.00 | 25.00 |
| **VIII) PESTS CONTROL** | **mandays** |  |  |  |
| • Bird Scaring |  | 300.00 | 1.00 | 300.00 |
| • Rodent controls | NA | NA | NA |  |
| **IX) DISEASE CONTROL** | **mandays** |  |  |  |
| *• blast* |  | 20.00 | 1.00 | 20.00 |
| **X) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| • NPK |  | 15.00 | 2.00 | 30.00 |
| • SOA |  | 15.00 | 1.00 | 15.00 |
| • Urea |  | 15.00 | 1.00 | 15.00 |
| • K2O as base fertilizer at harrow before seeding | NA | NA | NA |  |
| • N application after seeding | NA | NA | NA |  |
| **XI) HARVESTING** | **mandays** |  |  |  |
| • Cutting of panicles |  | 100.00 | 1.00 | 100.00 |
| • Collecting to threshing point |  | 50.00 | 1.00 | 50.00 |
| • Threshing |  | 10.00 | 18.00 | 180.00 |
| • Winnowing (Cleaning) |  | 50.00 | 1.00 | 50.00 |
| **XII) STORAGE** | **mandays** |  |  |  |
| • Dry Paddy to 12% moisture content |  | 50.00 | 1.00 | 50.00 |
| • Bagging |  | 50.00 | 1.00 | 50.00 |
| • Transportation into barns |  | 10.00 | 18.00 | 180.00 |
| • Loading and Off-loading | NA | NA | NA |  |
| **INPUTS** | **quantity** |  |  |  |
| • Seed |  | 40.00 | 1.00 | 40.00 |
| • Hiring of tarpaulins |  | 100.00 | 1.00 | 100.00 |
| • Sickles/ Knife |  | 15.00 | 4.00 | 60.00 |
| • Sacks |  | 3.00 | 18.00 | 54.00 |
| • Baskets | NA | NA | NA |  |
| • Nose Mask | NA | NA | NA |  |
| • Gloves | NA | NA | NA |  |
| • Hiring of Knapsack |  | 50.00 | 1.00 | 50.00 |
| • Weedicides(litres) |  | 25.00 | 1.00 | 25.00 |
| • Chemicals for Pest control(litres) |  | 25.00 | 1.00 | 25.00 |
| • Chemicals for Disease control(litres) |  | 20.00 | 1.00 | 20.00 |
| • SOA(litres) | NA | NA | NA |  |
| • NPK(kg) |  | 75.00 | 2.00 | 150.00 |
| • Scare crows | NA | NA | NA |  |
| • Traps | NA | NA | NA |  |
| • Pans | NA | NA | NA |  |
| TOTAL |  |  |  | 1,969.00 |
| • Contingency (10% of Total cost) |  |  |  | 196.90 |
| Grand Total |  |  |  | 2,165.90 |
| **REVENUE** |  |  |  |  |
| Number of bags of paddy (Kg) harvested /acre………...x | 18 |  |  |  |
| Weight / bag | 120 |  |  |  |
| Price / bag…………….z |  |  |  | 180.00 |
| Total Income = x\* z |  |  |  | 3,240.00 |
| Net Total (profit) |  |  |  | 1,074.10 |

SAVANNAH ZONE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TRANSITIONAL: MAIZE** | | | | |
|  | **UNIT/MANDAYS** | **UNIT COST (GH¢)** | **FREQUENCY** | **TOTAL (GH¢)** |
| **A) LAND RENT** | acre | 75.00 | 1 | **75.00** |
| **B) LABOUR COST** |  |  |  |  |
| **I) LAND PREPARATION** | **mandays** |  |  |  |
| • Land Clearing |  |  |  |  |
| √ Manual | 3 | 25.00 | 1 | 75.00 |
| √ Chemical (Application) | 3 | 20.00 | 1 | 60.00 |
| • Stumping | NA | NA | NA |  |
| • Ploughing | 1 | 125.00 | 1 | 125.00 |
| • Harrowing | NA | NA | NA |  |
| • Ridges | NA | NA | NA |  |
| **II) PLANTING / SOWING** | **mandays** |  |  |  |
| • Lining and Pegging | 2 | 25.00 | 1 | 50.00 |
| • Sowing (Seeding) | 2 | 43.00 | 1 | 86.00 |
| **III) WEED CONTROL** | **mandays** |  |  |  |
| • Manual | 2 | 25.00 | 1 | 50.00 |
| • Chemicals |  |  |  |  |
| √ Pre-emergence | 1 | 20.00 | 1 | 20.00 |
| **IV) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| • NPK |  | 25.00 | 1 | 25.00 |
| • S.O.A | NA | NA | NA |  |
| • Urea |  | 18.00 | 1 | 18.00 |
| • Organic Manure | NA | NA | NA |  |
| • Foliar |  |  |  |  |
|  |  |  |  |  |
| **V) PEST AND DISEASE CONTROL** | **mandays** |  |  |  |
| • Striga | NA | NA | NA |  |
| • FAW / Stem Borer | 1 | 23.00 | 3 | 69.00 |
| • Maize Streak Virus | NA | NA | NA |  |
| **VI) HARVESTING** | mandays |  |  |  |
| • Harvest | 2 | 63.00 | 1 | 126.00 |
| • Gather at central point | 2 | 38.00 | 1 | 76.00 |
| • Cart to barn |  | 65.00 | 1 | 65.00 |
| **VII) POST HARVEST** | **mandays** |  |  |  |
| |  | | --- | | • De-husking | |  |  |  |  |
| • Shelling |  | 11.00 | 14 | 154.00 |
| • Drying | NA | NA | NA |  |
| • Winnowing |  |  |  |  |
| |  | | --- | | • Treatment | |  | 20.00 | 1 | 20.00 |
| • Bagging | 2 | 12.00 | 7 | 168.00 |
| • Load/park in storage house | 2 | 11.00 | 7 | 154.00 |
| **INPUTS** | **quantity** |  |  |  |
| • Weedicides (litres) | 6 | 19.00 | 1 | 114.00 |
| • Pesticide (litres) | 2 | 20.00 | 1 | 40.00 |
| • Fungicides(litres) | NA | NA | NA |  |
| • Fertilizer |  |  |  | - |
| √ NPK (Kg) | 2 | 75.00 | 1 | 150.00 |
| √ Manure(bag) | NA | NA | NA |  |
| √ S.O.A (litres) | NA | NA | NA |  |
| √ Urea(kg) | 1 | 70.00 | 1 | 70.00 |
| • Cutlass |  | 19.00 | 1 | - |
| • Plastic Sheets/Tarpauline | 1 | 25.00 | 1 | 25.00 |
| • Seeds | 9Kg | 63.00 | 1 | 63.00 |
| • Sacks | 15 | 5.00 | 1 | 75.00 |
| • Baskets | NA | NA | NA |  |
| • Rope (Line ) | NA | NA | NA |  |
| • Pegs | NA | NA | NA |  |
| • Nose mask | 1 | 5.00 | 1 | 5.00 |
| • Gloves | 1 | 5.00 | 1 | 5.00 |
| • Knap sack | 1 | 58.00 | 1 | 58.00 |
| • Hoe | 1 | 15.00 | 1 | 15.00 |
| TOTAL |  |  |  | **2,036.00** |
| Contingency (10% of Total cost) |  |  |  | **203.60** |
| Grand Total |  |  |  | **2,239.60** |
| **REVENUE** |  |  |  |  |
| Number of bags harvested per acre………...x | 14.00 |  |  |  |
| Weight per bag (kg) | 130.00 |  |  |  |
| Price per bag…………….z |  |  |  | 150.00 |
| Total Income = x \* z |  |  |  | **2,100.00** |
| Net Total (loss) |  |  |  | **(139.60)** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SAVANNAH: RICE (UPLAND)** |  |  |  |  |
|  | **(UNIT/MANDAYS)** | **(UNIT COST (GH¢))** | **(FREQUENCY)** | **(TOTAL)** |
| **A) LAND RENT** | acre |  |  |  |
| **B) LABOUR COST** |  |  |  |  |
| **I) NURSERY MANAGEMENT** | mandays |  |  |  |
| • Establishment of nursery | NA | NA | NA |  |
| • Maintenance up to transplanting | NA | NA | NA |  |
| **II) LAND PREPAPRATION** | mandays |  |  |  |
| **Upland**  • Slashing | 2 | 20.00 | 3 | 120.00 |
| • Stumping | 5 | 20.00 | 4 | 400.00 |
| • Collect debris | 1 | 20.00 | 2 | 40.00 |
| • Burning of debris | 1 | 5.00 | 1 | 5.00 |
| • Chemical control of weeds | 1 | 20.00 | 1 | 20.00 |
| • Ploughing | 1 | 15.00 | 4 | 60.00 |
| • Harrowing | 1 | 15.00 | 2 | 30.00 |
| **III) PLANTING** | mandays |  |  |  |
| • Transplanting | NA | NA | NA |  |
| • Seed - drills | 1 | 20.00 | 3 | 60.00 |
| • Broadcasting of seeds | 1 | 30.00 | 4 | 120.00 |
| • Harrow seeds into the soils | 1 | 25.00 | 2 | 50.00 |
| **IV) THINNING** | 14 | 2.00 | 5 | 140.00 |
| **V) REFILL (where necessary)** | NA | NA | NA |  |
| **VI) WEED CONTROL** |  |  |  | - |
| • Manually | 7 | 5.00 | 1 | 35.00 |
| • Chemically | 1 | 20.00 | 2 | 40.00 |
| **VII) PESTS CONTROL** |  |  |  | - |
| • Bird Scaring | 12 | 2.00 | 5 | 120.00 |
| • Rodent controls | 20 | 3.00 | 2 | 120.00 |
| **VIII) DISEASE CONTROL** | NA | NA | NA |  |
| **IX) FERTILIZER APPLICATION** | mandays |  |  |  |
| • NPK (kg) | 1 | 10.00 | 6 | 60.00 |
| • SOA (litres) | 1 | 10.00 | 5 | 50.00 |
| • Urea(kg) | 1 | 10.00 | 4 | 40.00 |
| • K2O as base fertilizer at harrow before seeding | NA | NA | NA |  |
| • N application after seeding | NA | NA | NA |  |
| **X) HARVESTING** | mandays |  |  |  |
| • Cutting of panicles | 4 | 5.00 | 10 | 200.00 |
| • Collecting to threshing point | 2 | 5.00 | 6 | 60.00 |
| • Threshing | 6 | 5.00 | 5 | 150.00 |
| • Winnowing (Cleaning) | 2 | 5.00 | 5 | 50.00 |
| **XI) STORAGE** | mandays |  |  |  |
| • Dry Paddy to 12% moisture content | 2 | 5.00 | 7 | 70.00 |
| • Bagging | 3 | 4.00 | 5 | 60.00 |
| • Transportation into barns | 1 | 5.00 | 6 | 30.00 |
| • Loading and Off-loading | 1 | 2.00 | 15 | 30.00 |
| **INPUTS** | quantity |  |  |  |
| • Seed(kg) | 50 | 2.00 | 1 | 100.00 |
| • Hiring of tarpaulins | 1 | 20.00 | 7 | 140.00 |
| • Sickles/ Knife | 4 | 25.00 | 1 | 100.00 |
| • Sacks | 15 | 5.00 | 1 | 75.00 |
| • Basket | 2 | 15.00 | 1 | 30.00 |
| • Nose Mask | 1 | 20.00 | 1 | 20.00 |
| • Gloves | 2 | 5.00 | 1 | 10.00 |
| • Hiring of Knapsack | 1 | 10.00 | 1 | 10.00 |
| • Weedicides(litres) | 2 | 15.00 | 2 | 60.00 |
| • Chemicals for Pest control (litres) | 2 | 35.00 | 2 | 140.00 |
| • Chemicals for Disease control(litres) | 2 | 45.00 | 2 | 180.00 |
| • Fertilizer |  |  |  | - |
| √ NPK (25kg) | 2 | 75.00 | 2 | 300.00 |
| √ Manure(kg) | 0 | - | - | - |
| √ S.O.A (litre) | 0 | - | - | - |
| √ Urea(25kg) | 2 | 70.00 | 1 | 140.00 |
| • Scare crows | 4 | 2.00 | 2 | 16.00 |
| • Traps | 2 | 25.00 | 2 | 100.00 |
| • Pans | 2 | 20.00 | 2 | 80.00 |
| TOTAL |  |  |  | **3,661.00** |
| Contigency (10% of Total cost) |  |  |  | **366.10** |
| Grand Total |  |  |  | **4,027.10** |
| REVENUE |  |  |  |  |
| Number of bags harvested per acre………...x | 20 |  |  |  |
| Weight per bag (kg) | 92 |  |  |  |
| Price per bag…………….z |  |  |  | 200 |
| Total Income = x \* z |  |  |  | **4000** |
| Net Total (loss) |  |  |  | **(27.10)** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SAVANNAH:RICE (LOWLAND)** | | | | |
|  | **(UNIT/MANDAYS)** | **(UNIT COST (GH¢))** | **(FREQUENCY)** | **(TOTAL)** |
| **A) LAND RENT** | acre | NA | NA |  |
| **B) LABOUR COST** |  |  |  |  |
| **I) NURSERY MANAGEMENT** | mandays |  |  |  |
| • Establishment of nursery | NA | NA | NA |  |
| • Maintenance up to transplanting | NA | NA | NA |  |
| **II) LAND PREPAPRATION** | mandays |  |  |  |
| **Lowland (Flooded)** |  |  |  |  |
| • Rotovate (using power tillers) | NA | NA | NA |  |
| • Level field | NA | NA | NA |  |
| • Bounding of field | NA | NA | NA |  |
| **III) IRRIGATION** | NA | NA | NA |  |
| **IV) PLANTING** | mandays |  |  |  |
| • Transplanting | NA | NA | NA |  |
| • Seed - drills | 1 | 20.00 | 3 | 60.00 |
| • Broadcasting of seeds | 1 | 30.00 | 4 | 120.00 |
| • Harrow seeds into the soils | 1 | 25.00 | 2 | 50.00 |
| **V) THINNING** | 14 | 2.00 | 5 | 140.00 |
| **VI) REFILL (where necessary)** | NA | NA | NA |  |
| **VII) WEED CONTROL** |  |  |  | - |
| • Manually | 7 | 5.00 | 1 | 35.00 |
| • Chemically | 1 | 20.00 | 2 | 40.00 |
| **VIII) PESTS CONTROL** |  |  |  | - |
| • Bird Scaring | 12 | 2.00 | 5 | 120.00 |
| • Rodent controls | 20 | 3.00 | 2 | 120.00 |
| **IX) DISEASE CONTROL** | NA | NA | NA |  |
| **X) FERTILIZER APPLICATION** | mandays |  |  |  |
| • NPK (kg) | 1 | 10.00 | 6 | 60.00 |
| • SOA (litres) | 1 | 10.00 | 5 | 50.00 |
| • Urea(kg) | 1 | 10.00 | 4 | 40.00 |
| • K2O as base fertilizer at harrow before seeding | NA | NA | NA |  |
| • N application after seeding | NA | NA | NA |  |
| **XI) HARVESTING** | mandays |  |  |  |
| • Cutting of panicles | 4 | 5.00 | 10 | 200.00 |
| • Collecting to threshing point | 2 | 5.00 | 6 | 60.00 |
| • Threshing | 6 | 5.00 | 5 | 150.00 |
| • Winnowing (Cleaning) | 2 | 5.00 | 5 | 50.00 |
| **XII) STORAGE** | mandays |  |  |  |
| • Dry Paddy to 12% moisture content | 2 | 5.00 | 7 | 70.00 |
| • Bagging | 3 | 4.00 | 5 | 60.00 |
| • Transportation into barns | 1 | 5.00 | 6 | 30.00 |
| • Loading and Off-loading | 1 | 2.00 | 15 | 30.00 |
| **INPUTS** | quantity |  |  |  |
| • Seed(kg) | 50 | 2.00 | 1 | 100.00 |
| • Hiring of tarpaulins | 1 | 20.00 | 7 | 140.00 |
| • Sickles/ Knife | 4 | 25.00 | 1 | 100.00 |
| • Sacks | 15 | 5.00 | 1 | 75.00 |
| • Basket | 2 | 15.00 | 1 | 30.00 |
| • Nose Mask | 1 | 20.00 | 1 | 20.00 |
| • Gloves | 2 | 5.00 | 1 | 10.00 |
| • Hiring of Knapsack | 1 | 10.00 | 1 | 10.00 |
| • Weedicides(litres) | 2 | 15.00 | 2 | 60.00 |
| • Chemicals for Pest control (litres) | 2 | 35.00 | 2 | 140.00 |
| • Chemicals for Disease control(litres) | 2 | 45.00 | 2 | 180.00 |
| • Fertilizer |  |  |  | - |
| √ NPK (25kgbag) | 2 | 75.00 | 2 | 300.00 |
| √ Manure(kg) | NA | NA | NA | - |
| √ S.O.A (litre) | NA | NA | NA | - |
| √ Urea(25kgbag) | 2 | 70.00 | 1 | 140.00 |
| • Scare crows(mandays) | 4 | 2.00 | 2 | 16.00 |
| • Traps | 2 | 25.00 | 2 | 100.00 |
| • Pans | 2 | 20.00 | 2 | 80.00 |
| TOTAL |  |  |  | **2,986.00** |
| Contigency (10% of Total cost) |  |  |  | **298.60** |
| Grand Total |  |  |  | **3,284.60** |
| REVENUE |  |  |  |  |
| Number of bags harvested per acre………...x | 20 |  |  |  |
| Weight per bag (kg) | 92 |  |  |  |
| Price per bag…………….z |  |  |  | 200 |
| Total Income = x \* z |  |  |  | **4000** |
| Net Total (profit) |  |  |  | **715.40** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SAVANNAH:SOYABEAN** | | | | |
|  | **(UNIT/MANDAYS)** | **(UNIT COST (GH¢))** | **(FREQUENCY)** | **(TOTAL)** |
| **A) LAND RENT** | **acre** | **NA** | **NA** |  |
| **B) LABOUR COST** |  |  |  |  |
| **I) LAND PREPARATION** | **mandays** |  |  |  |
| • Land Clearing |  |  |  |  |
| √ Manual | **2** | 35.00 | 1 | 70.00 |
| √ Chemical (Application) | **1** | 20.00 | 1 | 20.00 |
| • Stumping | **5** | 20.00 | 3 | 300.00 |
| • Ploughing | **1** | 15.00 | 3 | 45.00 |
| • Harrowing | **1** | 10.00 | 3 | 30.00 |
| • Ridges | **NA** | **NA** | **NA** |  |
| **II) PLANTING / SOWING** | **mandays** |  |  |  |
| • Lining and Pegging | 2 | 5.00 | 2 | 20.00 |
| • Sowing (Seeding) | 1 | 5.00 | 10 | 50.00 |
| **III) WEED CONTROL** | **mandays** |  |  |  |
| • Manual | 2 | 10.00 | 2 | 40.00 |
| • Chemicals |  |  |  |  |
| √ Pre-emergence | 1 | 20.00 | 1 | 20.00 |
| **IV) FERTILIZER APPLICATION** | **mandays** |  |  |  |
| • Yara Legume | **NA** | **NA** | **NA** |  |
| • S.O.A | **NA** | **NA** | **NA** |  |
| • Urea | **NA** | **NA** | **NA** |  |
| • Organic Manure | **NA** | **NA** | **NA** |  |
| • NPK | **NA** | **NA** | **NA** |  |
| • Foliar | **NA** | **NA** | **NA** |  |
| **V) PEST AND DISEASE CONTROL** | **mandays** |  |  |  |
| • Application of pesticides | **NA** | **NA** | **NA** |  |
| • Application of insecticides | **NA** | **NA** | **NA** |  |
| • Application of nematocides | **NA** | **NA** | **NA** |  |
| **VI) HARVESTING** | mandays |  |  |  |
| • Harvest | 5 | 5.00 | 10 | 250.00 |
| • Gather at central point/Plucking | 5 | 3.00 | 10 | 150.00 |
| • Cart to barn | 5 | 2.00 | 10 | 100.00 |
| **VII) POST HARVEST** | **mandays** |  |  |  |
| • Shelling | 1 | 5.00 | 8 | 40.00 |
| • Drying | 7 | 3.00 | 7 | 147.00 |
| • Winnowing | 2 | 4.00 | 4 | 32.00 |
| • Treatment | **NA** | **NA** | **NA** |  |
| • Bagging | 2 | 2.00 | 4 | 16.00 |
| • Load/park in storage house | 1 | 2.00 | 6 | 12.00 |
| Total cost |  |  |  |  |
| **INPUTS** | **quantity** |  |  |  |
| • Weedicides (litres) | 1 | 15.00 | 2 | 30.00 |
| • Pesticide (litres) | NA | NA | NA | - |
| • Fungicides(litres) | NA | NA | NA | - |
| • Fertilizer |  |  |  |  |
| √ NPK (Kg) | NA | NA | NA | - |
| √ Manure(bag) | NA | NA | NA | - |
| √ S.O.A (litre) | NA | NA | NA | - |
| √ Urea(kg) | NA | NA | NA | - |
| • Cutlass | 2 | 15.00 | 2 | 60.00 |
| • Plastic Sheets/Tarpaulin | 1 | 170.00 | 1 | 170.00 |
| • Sacks | 20 | 5.00 | 1 | 100.00 |
| • Baskets | 5 | 10.00 | 1 | 50.00 |
| • Rope (Line ) | 3 | 15.00 | 1 | 45.00 |
| • Pegs | 10 | 1.00 | 1 | 10.00 |
| • Nose mask | 1 | 20.00 | 1 | 20.00 |
| • Gloves | 2 | 5.00 | 1 | 10.00 |
| • Knap sack | 1 | 4.00 | 1 | 4.00 |
| • Hoe | 4 | 30.00 | 1 | 120.00 |
| TOTAL | 50 | 290.00 | 13 | **1,961.00** |
| Contigency (10% of Total cost) |  |  |  | **196.10** |
| Grand Total |  |  |  | **2,157.10** |
| REVENUE |  |  |  |  |
| Number of bags harvested per acre………...x | 20 |  |  |  |
| Weight per bag (kg) | 105 |  |  |  |
| Price per bag…………….z |  |  |  | 200 |
| Total Income = x \* z |  |  |  | **4000** |
| Net Total |  |  |  | **1,842.90** |