

2. Village Type Corn Postharvest Processing Center (VTCPPC-2)



- * 20 metric tons capacity
- * P 7,500,000.00 estimated cost
- * 100 ha existing corn area to avail
- * Building (25mx15mx12m)
- * Package includes:
 - Transformer (2.5M)
 - Equipment (7.5)
 - Corn on cob dryer with 20 metric tons capacity (expandable to 30 tons)
 - 1 unit sheller w/ 6 MT/hr. capacity
 - 1 unit Recirculating batch type grain dryer w/ 10 MT holding capacity
 - 1 unit Multi-fuel Biomass furnace
 - Total system capacity daily output of 5.6MT w/ 14%MC of corn grains
 - Bagging bin w/ 15 MT minimum holding capacity
 - 5 units Belt conveyor system
 - 3 units bucket elevator

Counterpart

Lot (1000 sq.m. + perimeter fencing + building permits & other working permits + working capital + electric feeder line + other improvements)

3. Corn Mill



- * 100 kg/hour capacity
- * Grant
- * P 300,000.00 estimated cost
- * 100 ha existing corn area

4. Vacuum Pack Sealer



- * 400 mm. sealing length
- * Grant
- * P 60,000.00
- * Package to VTCPPC-2 with Corn Mill

5. Vertical Dryer



- * 10 tons/batch capacity
- * P 3500,000.00 estimated cost
- * 100 ha existing corn area

CORN FARM MECHANIZATION



Source:
Regional Agricultural Engineering Division (RAED)
DA-Caraga

Produced by:

Department of Agriculture-Caraga Region
Capitol Site, Butuan City
Tel. No. (082) 342-4092 (117)
Fax No. (085) 541-2114

www.facebook.com/darfo13

da13caragainfo@gmail.com

Introduction

To help the farmers increase their level of productivity, the government through the Department of Agriculture implemented farm mechanization strategies.

Farm mechanization allows easier and timely production and postharvest operations. It reduces drudgery of field work and lowers production cost and postharvest costs.

On Farm Mechanization

1. Farm Tractor



- * Self-propelled, wheeled having two axles design
- * To carry, pull or propel agricultural implements and machine
- * Used for land preparation for corn production
- * With attached implements (disc harrow, disc plow, furrower, trailer)
- * 75 PTO hp (minimum)
- * P 2,500,000.00 estimated cost
- * 200 ha existing area required to avail

2. Corn Planter



- * Pneumatic corn planter
- * With fertilizer applicator, furrow opener and close
- * Tractor mounted
- * Tractor type driven seeder which can deposit the seeds at a specified rate in hills and rows spaced to permit inter-row cultivation and also function as a seed drill
- * P 300,000.00 estimated cost
- * 200 ha existing area to avail

3. Corn Picker



- * Self-propelled
- * Used to harvest standing corn in the field
- * End result-corn cob without husk
- * 1.5 ha/day capacity (8 hours operation)
- * P 3,500,000.00 estimated cost

4. Corn Combine Harvester



- * Self-propelled
- * It performs a combination of either cutting, picking or stripping corn ear, dehusking, shelling, separating, cleaning, and conveying kernels into a tank and depositing harvest residue onto the ground thereby reducing the time from harvesting to the shelling in one equipment.
- * Capacity: 1.5 ha/day (for 8 hrs operation)
- * P 3,500,000.00 estimated cost
- * 200 ha existing area to avail

5. Corn Sheller



- * 2 tons/hour capacity
- * P 250,000.00 estimated cost
- * 200 existing corn area to avail

Post Harvest Facilities (PHF)

1. Cassava Drying Center



- * 400 kg dried cassava/hour
- * P 4,000,000.00 estimated cost
- * With building
- * 30 ha existing cassava area