

v. HORTICULTURAL IMPLEMENTS

TRACTOR OPERATED FRUIT-SHAKE HARVESTER

Purpose	For harvesting tamarind, and citrus fruits
Type of the implement	Tractor operated
Cost of the implement	Rs. 6000 /- (Approximately)
Salient Features	<ul style="list-style-type: none"> • Harvesting efficiency is 85 per cent • Savings in time is 95 per cent



TRACTOR OPERATED SINGLE / TWO ROW CASSAVA HARVESTER

Purpose	To dig cassava tubers in single / two rows
Type of the implement	Tractor operated
Field capacity	0.65 ha/day for single row and 0.96 ha/day for double row
Cost of the implement	Rs. 45,000/- for single row and Rs. 55,000/- for double row (Approximately)
Salient Features	<ul style="list-style-type: none"> • It is suitable for both single row and two rows operations. • The blade angle of 20 deg is provided for easy penetration in to the soil. • The row spacing can be altered by moving the shanks in the main frame. • The depth wheels are provided to the depth of operation.



COCONUT TREE CLIMBER

Purpose	To climb coconut trees for harvesting cleaning and other operations
Type of the implement	Manual operation
Field capacity	5-6 trees /hour
Cost of the implement	Rs. 5000 /- (Approximately)
Salient Features	<ul style="list-style-type: none"> • Even unskilled workers can use it to climb the tree with more stability and comfort. • Seating arrangement provides added comfort and safety. • It eliminates the severe bruises caused in traditional method of climbing due to use of climbing ropes.



IMPROVED COCONUT TREE CLIMBER

Purpose	To climb coconut trees for harvesting cleaning and other operations
Type of the implement	Manual operation
Field capacity	6 trees /hour
Cost of the implement	Rs. 5500 /- (Approximately)
Salient Features	<ul style="list-style-type: none"> • Lesser weight of the lower unit (3.0 kg) then existing model (6.0 kg) Lower unit is lifted simultaneously by leg and hand force for continuous operation • Comfortably designed upper frame



PALMYRAH TREE CLIMBING DEVICE

Purpose	To climb palmyrah trees for harvesting cleaning and other operations
Type of the implement	Manual climbing
Cost of the implement	Rs. 9000 /- (Approximately)
Salient Features	<ul style="list-style-type: none"> • Even unskilled workers can use it to climb the tree with increased stability and comfort. • The grippers are so positioned that while ascending/descending up/down, the upper frame accommodating the operator is always horizontal to the ground, irrespective of the girth variations in the tree. • Eliminates the high work stress, severe neck and back pain disorders caused in traditional method of climbing.



ARECANUT HARVESTSER

Purpose	To climb arecanut trees for harvesting nuts
Type of the implement	Manual climbing
Cost of the implement	Rs. 9000 /- (Approximately)
Salient Features	<ul style="list-style-type: none"> • Even unskilled workers can use it to climb the tree with increased stability and comfort. • Lightweight aluminium pole with improved configuration of cutting edge of the knife for easy harvesting • Seating arrangement (adjustable and pivotable) with back rest for safe and secure operations Rotatable unit to facilitate harvesting of bunches form surrounding trees.



AERIAL ACCESS HOIST FOR COCONUT HARVESTING

Purpose	For harvesting coconut
Type of the implement	Tractor mounted
Cost of the implement	Rs. 8.50 lakh /- (Approximately)
Salient Features	<ul style="list-style-type: none"> • First machine of its kind in tractor mounted form • A full length chassis from front to rear of the tractor provides support • The entire weight of the hoist and moments transmitted through the chassis to the stabilizers without transferring to the tractor chassis. • Four trees can be accessed from a single position. • The time required for locating unit and operating stabilizers - 1 min. • The time required for positioning against a tree of 10 m height is 2 min. • The positioning of the operator platform can be done by the operator himself



TRACTOR OPERATED MULTI-PURPOSE HOIST

Purpose	Amenable for fruit plucking, coconut harvesting, training, pruning, lopping and spraying tree crops.
Type of the implement	Tractor mounted
Cost of the implement	Rs. 55,000 /- (Approximately)
Salient Features	<ul style="list-style-type: none"> • The equipment is attached to the back of a 45 hp agricultural tractor. • Two labourers can stand on the platform and do operations • Platform can reach a maximum height of 8.1 m



WORKER FRIENDLY ARECANUT STRIPPER

Purpose	Suitable for stripping both green and ripened arecanut.
Type of the implement	Electric motor/engine operated
Field capacity	Can strip 650-950 Kg of arecanut per hour
Cost of the implement	Rs. 25,000 /- (Approximately)
Salient Features	<ul style="list-style-type: none"> • Damage caused to the stripped arecanut is eliminated. • Results in 66 and 77 per cent saving in cost and time when compared to conventional arecanut stripping • Stripping efficiency of 99.5 per cent is achieved



TRACTOR OPERATED CLUSTER ONION HARVESTER CUM COLLECTOR

Purpose	To dig and collect cluster onion
Type of the implement	Tractor mounted
Field capacity	1.2 ha/day
Cost of the implement	Rs. 75,000 /- (Approximately)
Salient Features	<ul style="list-style-type: none"> • The cluster onion harvester has a special profile of blade to ensure shallow cut of soil and riddle conveyer for separating the soil from the onion bulbs. • Cross conveyer and also elevating conveyer are provided for easy and continuous movement of onion. • A bag is provided for collection of onion.

