

DAT	Location	Operation1	Operation2	Operation3	Description1	Description2	Description3	Input	Unit	Units/acre
-30	Nursery	Sowing	Low-polytunnel		3-m distance along beds	life cycle: 10 years	ONLY NEW INSTALLATION	Semicircular iron hoops	#	5.00
-30	Nursery	Sowing	Low-polytunnel		1.85-m wide, 10-m long (3 m/15 multiplates)	life-cycle: 2 years	ONLY NEW INSTALLATION	Polysheet	m2	20.00
-30	Nursery	Sowing	Low-polytunnel				ONLY NEW INSTALLATION	Labor	Man-d	1.00
-30	Nursery	Sowing	Multiplate-sowing		Cocopeat (washed)	3 of 5 parts		Substrate	kg	40.00
-30	Nursery	Sowing	Multiplate-sowing		Perlite	1 of 5 parts		Substrate	kg	15.00
-30	Nursery	Sowing	Multiplate-sowing		Vermiculite	1 of 5 parts		Substrate	kg	35.00
-30	Nursery	Sowing	Multiplate-sowing		50-cavity 5.2-cm plug (26x53 cm)	life cycle: 4 crops	NEED-BASED	Multiplate	#	150.00
-30	Nursery	Sowing	Multiplate-sowing		Mix substrate and fill multiplates			Labor	Man-d	1.00
-30	Nursery	Sowing	Multiplate-sowing					Seed	kg	1.00
-30	Nursery	Sowing	Multiplate-sowing					Labor	Man-d	1.00
-30-0	Nursery	Fertigation	DAILY for 30 days		Concentration: 0.07%	Dissolve 70g in 100l water	TOTAL REQUIREMENT	13-40-13 Haileaf Foliar	kg	3.00
-30-0	Nursery	Fertigation	DAILY for 30 days		Concentration: 0.07%	Dissolve 70g in 100l water	TOTAL REQUIREMENT	Calcium nitrate	kg	3.00
-30-0	Nursery	Fertigation	DAILY for 30 days			100 l	TOTAL REQUIREMENT	Water	ltr	3000.00
-30-0	Nursery	Fertigation	DAILY for 30 days			Prepare nutrient solution and fertigate	TOTAL REQUIREMENT	Labor	Man-d	15.00
-3	Field	Field preparation	Fertilization	Basal fertilizer	00-50-00 N-P-K			Single-Superphosphate	kg	280.00
-3	Field	Field preparation	Fertilization	Basal fertilizer				Zn-Sulphate	kg	20.00
-3	Field	Field preparation	Fertilization		Mix and apply evenly to surface			Labor	Man-d	1.00
-3	Field	Field preparation	Harrowing					Tractor with harrow	Tractor-op.	1.00
-3	Field	Field preparation	Planking					Tractor with planker	Tractor-op.	1.00
-3	Field	Bed preparation	Bed making	90-cm bed & 45-cm furrow				Tractor with bedmaker	Tractor-op.	1.00
-2	Field	Bed preparation	Trellis construction		2 sticks/bed, 2.5-m distance within rows	1 horizontal stick across furrows at 2.5-m distance		2.5-m bamboo stick	#	3600.00
-2	Field	Bed preparation	Trellis construction					GI wire	kg	170.00
-2	Field	Bed preparation	Trellis construction		1 2.5-m-long string per plant fixed to GI-wir	2 strings around trellisses at bottom and 1-m height		Jute string	mtr	36000.00
-2	Field	Bed preparation	Trellis construction					Labor	Man-d	20.00
-2	Field	Bed preparation	Irrigation	Furrow				Labor	Man-d	0.50
-1-210	Field	Drip irrigation			DAILY REQUIREMENT: see attached			Water	m3	4156.00
-1-210	Field	Drip irrigation			DAILY REQUIREMENT: 0.25 Man-day			Labor	Man-d	23.00
-1-210	Field	Fertigation	Nutrient stock solution		DAILY RATE: 2381 g	TOTAL: 80-00-00 N-P-K		Calcium nitrate	kg	430.00
-1-210	Field	Fertigation	Nutrient stock solution		DAILY RATE: 714 g	TOTAL: 00-00-90 N-P-K		MOP	kg	150.00
-1-210	Field	Fertigation	Nutrient stock solution		DAILY RATE: 10 g			Fetrilon-Combi-2	kg	2.10
-1-210	Field	Fertigation	Nutrient stock solution		DAILY MINIMUM RATE: 62 ltr	Venturi valve: 100 ltr/hr		Water	ltr	13020.00
0	Field	Transplanting	90-cm bed & 45-cm furrow	1 row/bed	45-cm interplant distance	transplanted on one edge of beds	6,700 plants/A	Labor	Man-d	2.00
7	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.08%	against Red Pumpkin Beetle, after germination	PREVENTIVE	Karate (Lambda Cyhalothrin 5% EC)	ltr	0.16
7	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%	against Downy Mildew	PREVENTIVE	Abic M-45 (Mancozeb)	kg	0.40
7	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%	against Powdery Mildew; if temperatures <30deg C	PREVENTIVE	Thiovit 80% WP (Sulphur)	kg	0.40
7	Field	Cultivation	Plant protection				PREVENTIVE	Water	ltr	200.00
7	Field	Cultivation	Plant protection				PREVENTIVE	Labor	Man-d	0.50
14	Field	Cultivation	Weeding				NEED-BASED	Labor	Man-d	6.00
14	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%		NEED-BASED	Rogor 30% EC (Dimethoate)	ltr	0.40
14	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
14	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
21	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%	against Downy Mildew	PREVENTIVE	Abic M-45 (Mancozeb)	kg	0.40
21	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%	against Powdery Mildew; if temperatures <30deg C	PREVENTIVE	Thiovit 80% WP (Sulphur)	kg	0.40
21	Field	Cultivation	Plant protection				PREVENTIVE	Water	ltr	200.00
21	Field	Cultivation	Plant protection				PREVENTIVE	Labor	Man-d	0.50
30	Field	Cultivation	Weeding				NEED-BASED	Labor	Man-d	6.00
30	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%		NEED-BASED	Rogor 30% EC (Dimethoate)	ltr	0.40
30	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
30	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
37	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%	against Downy Mildew	PREVENTIVE	Abic M-45 (Mancozeb)	kg	0.40
37	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%	against Powdery Mildew; if temperatures <30deg C	PREVENTIVE	Thiovit 80% WP (Sulphur)	kg	0.40
37	Field	Cultivation	Plant protection				PREVENTIVE	Water	ltr	200.00
37	Field	Cultivation	Plant protection				PREVENTIVE	Labor	Man-d	0.50
44	Field	Cultivation	Weeding				NEED-BASED	Labor	Man-d	6.00
44	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%		NEED-BASED	Rogor 30% EC (Dimethoate)	ltr	0.40
44	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
44	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
60	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
60	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.05%	against fruit fly	NEED-BASED	Cythion 50% EC (Malathion)	ltr	0.10
60	Field	Cultivation	Plant protection	Insecticide	Concentration: 1%	against fruit fly	NEED-BASED	Sugar	kg	2.00
60	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.10%	against budworm	NEED-BASED	Karate (Lambda Cyhalothrin 5% EC)	ltr	0.20
60	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.25%	against Downy Mildew	NEED-BASED	Ridomil (Metalaxyl & Mancozeb)	kg	0.50
60	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%	if temperatures <30deg C	PREVENTIVE	Thiovit 80% WP (Sulphur)	kg	0.40
60	Field	Cultivation	Plant protection				PREVENTIVE	Water	ltr	200.00
60	Field	Cultivation	Plant protection				PREVENTIVE	Labor	Man-d	0.50
65	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
70	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%		NEED-BASED	Carbine (Cypermethrin)	ltr	0.40
70	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
70	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
70	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
75	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
75	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.05%	against fruit fly	NEED-BASED	Cythion 50% EC (Malathion)	ltr	0.10
75	Field	Cultivation	Plant protection	Insecticide	Concentration: 1%	against fruit fly	NEED-BASED	Sugar	kg	2.00
75	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.10%	against budworm	NEED-BASED	Karate (Lambda Cyhalothrin 5% EC)	ltr	0.20
75	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.25%	against Downy Mildew	NEED-BASED	Ridomil (Metalaxyl & Mancozeb)	kg	0.50
75	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%	if temperatures <30deg C	PREVENTIVE	Thiovit 80% WP (Sulphur)	kg	0.40
75	Field	Cultivation	Plant protection				PREVENTIVE	Water	ltr	200.00
75	Field	Cultivation	Plant protection				PREVENTIVE	Labor	Man-d	0.50

DAT	Location	Operation1	Operation2	Operation3	Description1	Description2	Description3	Input	Unit	Units/acre
165	Field	Cultivation	Plant protection				PREVENTIVE	Labor	Man-d	0.50
170	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
175	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
175	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%		NEED-BASED	Carbine (Cypermethrin)	ltr	0.40
175	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
175	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
180	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
180	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.05%	against fruit fly	NEED-BASED	Cythion 50% EC (Malathion)	ltr	0.10
180	Field	Cultivation	Plant protection	Insecticide	Concentration: 1%	against fruit fly	NEED-BASED	Sugar	kg	2.00
180	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.10%	against budworm	NEED-BASED	Karate (Lambda Cyhalothrin 5% EC)	ltr	0.20
180	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.25%	against Downy Mildew	NEED-BASED	Ridomil (Metalaxyl & Mancozeb)	kg	0.50
180	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%	if temperatures <30deg C	PREVENTIVE	Thiovit 80% WP (Sulphur)	kg	0.40
180	Field	Cultivation	Plant protection				PREVENTIVE	Water	ltr	200.00
180	Field	Cultivation	Plant protection				PREVENTIVE	Labor	Man-d	0.50
185	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
190	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
190	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%		NEED-BASED	Carbine (Cypermethrin)	ltr	0.40
190	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
190	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
195	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
195	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.05%	against fruit fly	NEED-BASED	Cythion 50% EC (Malathion)	ltr	0.10
195	Field	Cultivation	Plant protection	Insecticide	Concentration: 1%	against fruit fly	NEED-BASED	Sugar	kg	2.00
195	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.10%	against budworm	NEED-BASED	Karate (Lambda Cyhalothrin 5% EC)	ltr	0.20
195	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.25%	against Downy Mildew	NEED-BASED	Ridomil (Metalaxyl & Mancozeb)	kg	0.50
195	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%	if temperatures <30deg C	PREVENTIVE	Thiovit 80% WP (Sulphur)	kg	0.40
195	Field	Cultivation	Plant protection				PREVENTIVE	Water	ltr	200.00
195	Field	Cultivation	Plant protection				PREVENTIVE	Labor	Man-d	0.50
200	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
205	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
210	Field	Harvest					NEED-BASED	Labor	Man-d	3.00
210	Field	Harvest	Residue removal					Labor	Man-d	4.00