

DAT	Location	Operation1	Operation2	Operation3	Description1	Description2	Description3	Input	Unit	Units/acre
-31	Nursery	Field preparation	Harrowing					Tractor with harrow	Tractor-op.	2.00
-31	Nursery	Bed preparation	Planing					Tractor with planker	Tractor-op.	1.00
-31	Nursery	Bed preparation	Bed making	45-cm bed & 45-cm furrow	100 m2 nursery area for 1 A field area			Tractor with bedmaker	Tractor-op.	1.00
-31	Nursery	Bed preparation	Printing		Rows across beds at 5-cm distance			Tractor with printer	Tractor-h	1.00
-31	Nursery	Cultivation	Irrigation					Labor	Man-d	0.50
-28	Nursery	Sowing						Seed	kg	0.10
-28	Field	Sowing	Seed treatment	Soaking with fungicide	Soak for 12 h overnight	5g/kg seed		Bavistin (Carbendazim)	g	1.00
-28	Field	Sowing	Seed treatment			10 l/kg seed		Water	ltr	1.00
-27	Nursery	Sowing			Sow in printed rows	2-cm distance between seeds		Labor	Man-d	5.00
-27	Nursery	Bed preparation	Organic manuring					Vermicompost	mt	2.50
-27	Nursery	Bed preparation	Organic manuring		Cover seed lines			Labor	Man-d	1.00
-27	Nursery	Cultivation	Irrigation					Labor	Man-d	0.50
-24	Nursery	Cultivation	Irrigation					Labor	Man-d	0.50
-20	Nursery	Cultivation	Plant protection	Fungicide	Concentration: 0.20%	after germination		Abic M-45 (Mancozeb)	kg	0.40
-20	Nursery	Cultivation	Plant protection	Insecticide	Concentration: 0.15%	after germination		Polytrin C-44 (Profenophos & Cypermet)	ltr	0.30
-20	Nursery	Cultivation	Plant protection			after germination		Water	ltr	200.00
-20	Nursery	Cultivation	Plant protection			after germination		Labor	Man-d	0.50
-20	Nursery	Cultivation	Irrigation					Labor	Man-d	0.50
-16	Nursery	Cultivation	Irrigation					Labor	Man-d	0.50
-12	Nursery	Cultivation	Thinning			Thin to 5-cm interplant distance		Labor	Man-d	4.00
-12	Nursery	Cultivation	Plant protection	Fungicide	Concentration: 0.20%			Abic M-45 (Mancozeb)	kg	0.40
-12	Nursery	Cultivation	Plant protection	Insecticide	Concentration: 0.15%			Polytrin C-44 (Profenophos & Cypermet)	ltr	0.30
-12	Nursery	Cultivation	Plant protection					Water	ltr	200.00
-12	Nursery	Cultivation	Plant protection					Labor	Man-d	0.50
-12	Nursery	Cultivation	Irrigation					Labor	Man-d	0.50
-8	Nursery	Cultivation	Irrigation					Labor	Man-d	0.50
-3	Nursery	Cultivation	Plant protection	Fungicide	Concentration: 0.20%			Abic M-45 (Mancozeb)	kg	0.40
-3	Nursery	Cultivation	Plant protection	Insecticide	Concentration: 0.15%			Polytrin C-44 (Profenophos & Cypermet)	ltr	0.30
-3	Nursery	Cultivation	Plant protection					Water	ltr	200.00
-3	Nursery	Cultivation	Plant protection					Labor	Man-d	0.50
-3	Nursery	Cultivation	Irrigation					Labor	Man-d	0.50
0	Nursery	Transplanting			Uprooting, bundling and transporting to field			Labor	Man-d	3.00
-20	Field	Field preparation	Irrigation	Flood			NEED-BASED	Labor	Man-d	0.50
-10	Field	Field preparation	Deep-chiseling		ONLY for newly acclamed land	EITHER deep-chiseling or ploughing	NEED-BASED	Tractor with chisel	Tractor-op.	1.00
-10	Field	Field preparation	Ploughing		ONLY for newly acclamed land	EITHER deep-chiseling or ploughing	NEED-BASED	Tractor with plough	Tractor-op.	1.00
-4	Field	Field preparation	Organic manuring	Manure application			ONLY ONCE PER YEAR	Vermicompost	mt	1.20
-4	Field	Field preparation	Organic manuring		Apply evenly to field surface		ONLY ONCE PER YEAR	Labor	Man-d	1.00
-4	Field	Cultivation	Fertilization	Basal fertilizer	18-00-00 N-P-K			Urea	kg	40.00
-4	Field	Field preparation	Fertilization	Basal fertilizer	23-60-00 N-P-K			DAP	kg	130.00
-4	Field	Field preparation	Fertilization	Basal fertilizer	00-00-30 N-P-K			SOP (potassium sulphate)	kg	60.00
-4	Field	Field preparation	Fertilization	Basal fertilizer				Zn-Sulphate	kg	20.00
-4	Field	Field preparation	Fertilization		Mix and apply evenly to surface			Labor	Man-d	0.50
-3	Field	Field preparation	Harrowing				EITHER harrowing or rotovating	Tractor with harrow	Tractor-op.	1.00
-3	Field	Field preparation	Rotovating				EITHER harrowing or rotovating	Tractor with rotovator	Tractor-op.	1.00
-3	Field	Field preparation	Planing					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
-3	Field	Cultivation	Irrigation	Furrow				Labor	Man-d	0.50
0	Field	Transplanting	90-cm bed	2 rows/bed	60-cm interplant distance	10,000 plants/A		Labor	Man-d	2.00
1	Field	Cultivation	Herbicide application		Concentration: 0.50%			Stomp (Pendimethalin)	ltr	1.00
1	Field	Cultivation	Herbicide application					Water	ltr	200.00
1	Field	Cultivation	Herbicide application		move backwards while spraying!			Labor	Man-d	0.50
7	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%		NEED-BASED	Abic M-45 (Mancozeb)	kg	0.40
7	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%		NEED-BASED	Polytrin C-44 (Profenophos & Cypermet)	ltr	0.30
7	Field	Cultivation	Plant protection					Water	ltr	200.00
7	Field	Cultivation	Plant protection					Labor	Man-d	0.50
10	Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	0.50
14	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%		NEED-BASED	Abic M-45 (Mancozeb)	kg	0.40
14	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%		NEED-BASED	Polytrin C-44 (Profenophos & Cypermet)	ltr	0.30
14	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
14	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
20	Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	0.50
30	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%		NEED-BASED	Abic M-45 (Mancozeb)	kg	0.40
30	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%		NEED-BASED	Polytrin C-44 (Profenophos & Cypermet)	ltr	0.30
30	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
30	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
30	Field	Cultivation	Fertilization	Side dressing	18-00-00 N-P-K			Urea	kg	40.00
30	Field	Cultivation	Fertilization	Side dressing	00-00-15 N-P-K			SOP (potassium sulphate)	kg	30.00
30	Field	Cultivation	Fertilization					Labor	Man-d	1.00
30	Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	0.50
37	Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	0.50
37	Field	Cultivation	Weeding				NEED-BASED	Labor	Man-d	10.00

45	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.40%		NEED-BASED	Neemazal 0.5% EC (Azadirachtin)	ltr	0.80
45	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
45	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
45	Field	Cultivation	Fertilization	Side dressing	18-00-00 N-P-K			Urea	kg	40.00
45	Field	Cultivation	Fertilization	Side dressing	00-00-15 N-P-K			SOP (potassium sulphate)	kg	30.00
45	Field	Cultivation	Fertilization					Labor	Man-d	1.00
45	Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	0.50
53	Field	Harvest					NEED-BASED	Labor	Man-d	5.00
53	Field	Cultivation	Weeding				NEED-BASED	Labor	Man-d	10.00
53	Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	0.50
60	Field	Harvest					NEED-BASED	Labor	Man-d	5.00
60	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.40%		NEED-BASED	Neemazal 0.5% EC (Azadirachtin)	ltr	0.80
60	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
60	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
60	Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	0.50
67	Field	Harvest					NEED-BASED	Labor	Man-d	5.00
67	Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	0.50
75	Field	Harvest					NEED-BASED	Labor	Man-d	5.00
75	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.40%		NEED-BASED	Neemazal 0.5% EC (Azadirachtin)	ltr	0.80
75	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
75	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
75	Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	0.50
82	Field	Harvest					NEED-BASED	Labor	Man-d	5.00
82	Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	0.50
90	Field	Harvest					NEED-BASED	Labor	Man-d	5.00
90	Field	Harvest	Residue removal					Labor	Man-d	4.00