DAT	Location	Operation1	Operation2	Operation3	Description1	Description2	Description3	Input	Unit	Units/acre
			Multiplate-sowing	Орегилопо	Cocopeat	3 of 5 parts	Descriptions	Substrate	kg	200.0
			Multiplate-sowing		Vermiculite	2 of 5 parts		Substrate	kg	200.0
		Sowing	Multiplate-sowing	1	98-cavity 3.8-cm plug (26×53 cm)			Multiplate	#	190.0
			Multiplate-sowing		Mix substrate and fill multiplates			Labor	Man-d	1.0
		Sowing	Multiplate-sowing		Slightly cover seeds			Seed	#	19000.0
-30		Sowing	Multiplate-sowing		, , , , , , , , , , , , , , , , , , ,			Labor	Man-d	2.0
		Irrigation			twice daily	DAILY REQUIREMENT: 1000 ltr	TOTAL REQUIREMENT	Water	m3	30.0
		Irrigation			Controlling		TOTAL REQUIREMENT	Labor	Man-d	15.0
			Nutrient stock solution	from germination	Nutrient stock solution concentration: 7% (7 kg/100 ltr)		TOTAL REQUIREMENT	06-12-36 Haileaf Foliar	kg	17.0
			Nutrient stock solution	from germination	Nutrient stock solution concentration: 7% (7 kg/100 ltr)	Nutrient stock solution injection rate: 1%	TOTAL REQUIREMENT	Calcium nitrate	kg	17.0
-23-0	Nursery GH I		Nutrient stock solution	from germination	Prepare stock solutions	DAILY REQUIREMENT: 0.5 Man-day	TOTAL REQUIREMENT	Labor	Man-d	15.0
-23-0	Nursery GH I	Fertigation	Nutrient solution	from germination	Nutrient solution concentration: 0.07%		TOTAL REQUIREMENT	Water	ltr	480.0
-7	Greenhouse I	Equipment installation	Growbag	Installation	Puncture sheets at bottom; place in Mapal troughs (81 #/row	Cut 10-cm holes at 30-cm distance at top	3 holes/bag, every third bag: 4 holes	Growbag	#	4698.0
-7	Greenhouse I	Equipment installation	Growbag	Installation		·	. ,	Labor	Man-d	5.0
-7	Greenhouse I	Equipment installation	Dripper	Installation	1 dripper and drip peg per hole (plant)			Labor	Man-d	1.0
-7		Equipment installation	Growbag	Irrigation	Reconstitute bags; 25 l/bag	13 h @ 2 ltr/h dripper flow rate		Water	m3	118.0
-7	Greenhouse I	Equipment installation	Growbag	Irrigation	Check individual drippers	Check uniformity of reconstitution		Labor	Man-d	1.0
-6	Greenhouse I	Equipment installation	Growbag	Fertigation	(see below)	13 h @ 2 ltr/h dripper flow rate		Water	m3	118.0
-6	Greenhouse I	Equipment installation	Growbag	Fertigation				Labor	Man-d	1.0
-6	Greenhouse I	Equipment installation	Bobbin		1 #/plant on high wire	Unwind 4 m twine, fix twine to drip peg		Bobbin	#	15660.0
-6	Greenhouse I	Equipment installation	Bobbin					Labor	Man-d	3.0
0	Greenhouse	Transplanting			1 plant per hole (3-4 plants per growbag)			Labor	Man-d	4.0
daily	Greenhouse I	Irrigation			Radiation sum setpoint: 0.2-0.4 kWh = 10-15 impulses/day	Volume setpoint: 1-14 min = 0.3-4.5 ltr/plantxday @ 2 ltr/h dripper flow rate	MAX. DAILY REQUIREMENT	Water	m3	71.0
daily	Greenhouse I	Irrigation			Control irrigation		DAILY REQUIREMENT	Labor	Man-d	0.5
daily			Nutrient stock solution		Nutrient stock solution concentration: 5% (5 kg/100 ltr)	Nutrient stock solution injection rate: 2%	MAX. DAILY REQUIREMENT	06-12-36 Haileaf Foliar	kg	71.0
daily		Fertigation	Nutrient stock solution		Nutrient stock solution concentration: 5% (5 kg/100 ltr)	Nutrient stock solution injection rate: 2%	MAX. DAILY REQUIREMENT	Calcium nitrate	kg	71.0
daily			Nutrient stock solution		Prepare stock solutions		DAILY REQUIREMENT	Labor	Man-d	0.5
daily		Fertigation	Nutrient solution		Nutrient solution concentration: 0.1%	Sum of 2 stock solutions	MAX. DAILY REQUIREMENT	Water	ltr	2820.0
daily			Nutrient solution		Control nutrient solution EC: 1.8-2.0	Control nutrient solution pH: 5.6-6.3	DAILY REQUIREMENT	Labor	Man-d	0.5
daily			Nutrient solution		Control leachate volume: 20-30% of irrigation volume		DAILY REQUIREMENT	Labor	Man-d	0.5
	Greenhouse I	Layering	Bobbin		Release 60 cm twine & move 30 cm clockwise on high wire		WEEKLY REQUIREMENT	Labor	Man-d	6.0
bi-weekly (Greenhouse	Clipping leaves & clusters			Clip leaves and bad clusters up to bottommost fruit cluster		WEEKLY REQUIREMENT	Labor	Man-d	3.0
weekly	Greenhouse (Cluster thinning			Prune abnormal flowers & excessive, deformed fruits	Leave ca. 14 well formed fruits/cluster	WEEKLY REQUIREMENT	Labor	Man-d	2.0
twice weekly	Greenhouse	Tying up			Tye up new stems (30 cm) clockwise around twine		WEEKLY REQUIREMENT	Labor	Man-d	12.0
twice weekly	Greenhouse I				Prune 7-10 cm long side-shoots		WEEKLY REQUIREMENT	Labor	Man-d	12.0
daily	Greenhouse I				Ca. 1 cluster/plantxweek = 280 g/plantxweek	Marketable yield: 30%; 200 kg/GHxday	DAILY REQUIREMENT	Labor	Man-d	1.0
					, , , , , , , , , , , , , , , , , , ,	* * * * * * * * * * * * * * * * * * * *				
-23	Nursery GH (Cultivation	Plant protection	Insecticide	Concentration: 0.15%, H.I.: 14 days	after germination		Polytrin C-44 (Profenophos & Cypermethrin)	ltr	0.3
-23 I	Nursery GH (Cultivation	Plant protection			after germination		Water	ltr	200.0
-23	Nursery GH (Cultivation	Plant protection			after germination		Labor	Man-d	0.5
-17	Nursery GH (Cultivation	Plant protection	Fungicide	Concentration: 0.20%, H.I.: 7 days		NEED-BASED	Abic M-45 (Mancozeb)	kg	0.4
-17	Nursery GH	Cultivation	Plant protection	Insecticide	Concentration: 0.15%, H.I.: 14 days		NEED-BASED	Polytrin C-44 (Profenophos & Cypermethrin)	ltr	0.3
		Cultivation	Plant protection				NEED-BASED	Water	ltr	200.0
-17	Nursery GH (Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.5
-10	Nursery GH	Cultivation	Plant protection	Insecticide	Concentration: 0.15%, H.I.: 14 days		NEED-BASED	Polytrin C-44 (Profenophos & Cypermethrin)	ltr	0.3
-10	Nursery GH	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.0
-10	Nursery GH (Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.5
-3	Nursery GH	Cultivation	Fertilization	Foliar application	Concentration: 0.10%			Fetrilon-Combi-2	kg	0.2
-3		Cultivation	Plant protection	Fungicide	Concentration: 0.20%, H.I.: 7 days		NEED-BASED	Abic M-45 (Mancozeb)	kg	0.4
-3	Nursery GH	Cultivation	Plant protection	Insecticide	Concentration: 0.15%, H.I.: 14 days		NEED-BASED	Polytrin C-44 (Profenophos & Cypermethrin)	ltr	0.3
-3	Nursery GH (Cultivation	Plant protection					Water	ltr	200.0
-3		Cultivation	Plant protection					Labor	Man-d	0.5
										1
			Nutrient stock solution		BI-DAILY RATE: 9328 g	TOTAL: 50-00-00 N-P-K	from 7 days after germination	Calcium nitrate	kg	250.0
14-80	Field I		Nutrient stock solution		BI-DAILY RATE: 4776 g		from 7 days after germination	SOP (K2SO4)	kg	120.0
	Field I	g	Nutrient stock solution		BI-DAILY RATE: 20 g		from 7 days after germination	Fetrilon-Combi-2	kg	1.0
	Field I		Nutrient stock solution	-	DAILY MINIMUM RATE: 100 ltr	Venturi valve: 250 ltr/hr	from 7 days after germination	Water	ltr	6700.0
	Field I	Fertigation		-	DAILY REQUIREMENT: see attached			Water	m3 Man-d	290.0
1100		Fertigation	DI		DAILY REQUIREMENT: 0.25 Man-day		DDE VENTOVE	Labor	man a	
			Plant protection	Insecticide	Concentration: 0.02%, H.I.: 14 days		PREVENTIVE	Actara 25% WG (Thiamethoxam)	kg	0.0
	Field (Plant protection				PREVENTIVE	Water	III'	200.0
	Field (Plant protection	E	0		PREVENTIVE	Labor	Man-d	0.5
14	Field (Plant protection	Fungicide	Concentration: 0.20%, H.I.: 14 days		NEED-BASED	Abic M-45 75% EC (Mancozeb)	kg	0.4
		Cultivation	Plant protection	Insecticide	Concentration: 0.02%, H.I.: 14 days		PREVENTIVE	Actara 25% WG (Thiamethoxam)	kg	0.0
14	Field (Cultivation	Plant protection Plant protection				NEED-BASED	Water Labor	III'	200.0
4.411		Cultivation			1		NEED-BASED		Man-d	0.5
14		Cultivation		Francisco.	Ctti: 0.000/ 111 - 411		NEED-BASED	Abic M-45 75% EC (Mancozeb)	kg	0.4
21	Field	Cultivation Cultivation	Plant protection	Fungicide	Concentration: 0.20%, H.I.: 14 days					
21 21	Field (Cultivation Cultivation Cultivation	Plant protection Plant protection	Fungicide Insecticide	Concentration: 0.20%, H.I.: 14 days Concentration: 0.02%, H.I.: 14 days		PREVENTIVE	Actara 25% WG (Thiamethoxam)	kg	0.0
21 21 21	Field (Field (Field (Cultivation Cultivation Cultivation Cultivation Cultivation	Plant protection Plant protection Plant protection				PREVENTIVE NEED-BASED	Actara 25% WG (Thiamethoxam) Water	kg ltr	200.0
21 21 21 21	Field (Field (Fi	Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation	Plant protection Plant protection Plant protection Plant protection	Insecticide	Concentration: 0.02%, H.I.: 14 days	spray late afternoon	PREVENTIVE NEED-BASED NEED-BASED	Actara 25% WG (Thiamethoxam) Water Labor	kg ltr Man-d	200.0
21 21 21 21 21 28	Field (Field (Fi	Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation	Plant protection Plant protection Plant protection Plant protection Plant protection Plant protection	Insecticide Fungicide	Concentration: 0.02%, H.I.: 14 days Concentration: 0.20%, H.I.: 14 days	spray late afternoon	PREVENTIVE NEED-BASED NEED-BASED NEED-BASED	Actara 25% WG (Thiamethoxam) Water Labor Abic M-45 75% EC (Mancozeb)	kg ltr Man-d kg	200.0 0.5
21 21 21 21 22 28	Field (Field (Fi	Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation	Plant protection	Insecticide	Concentration: 0.02%, H.I.: 14 days	spray late afternoon	PREVENTIVE NEED-BASED NEED-BASED NEED-BASED PREVENTIVE	Actara 25% WG (Thiamethoxam) Water Labor Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam)	kg ltr Man-d kg kg	200.0 0.5 0.4
21 21 21 21 28 28 28	Field (Field (Fi	Cultivation	Plant protection	Insecticide Fungicide	Concentration: 0.02%, H.I.: 14 days Concentration: 0.20%, H.I.: 14 days	spray late afternoon	PREVENTIVE NEED-BASED NEED-BASED NEED-BASED PREVENTIVE NEED-BASED	Actara 25% WG (Thiamethoxam) Water Labor Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam) Water	kg ltr Man-d kg kg ltr	200.0 0.5 0.4 0.0 200.0
21 21 21 21 21 22 28 28	Field (Field (Fi	Cultivation	Plant protection	Insecticide Fungicide	Concentration: 0.02%, H.I.: 14 days Concentration: 0.20%, H.I.: 14 days	spray late afternoon spray late afternoon	PREVENTIVE NEED-BASED NEED-BASED NEED-BASED PREVENTIVE NEED-BASED NEED-BASED NEED-BASED	Actara 25% WG (Thiamethoxam) Water Labor Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam) Water Labor	kg ltr Man-d kg kg ltr Man-d	200.0 0.5 0.4 0.0 200.0 0.5
21 21 21 21 21 22 28 28 28 28 35	Field	Cultivation	Plant protection Weeding	Insecticide Fungicide Insecticide	Concentration: 0.02%, H.I.: 14 days Concentration: 0.20%, H.I.: 14 days Concentration: 0.02%, H.I.: 14 days	spray late afternoon	PREVENTIVE NEED-BASED NEED-BASED NEED-BASED PREVENTIVE NEED-BASED NEED-BASED NEED-BASED NEED-BASED	Actara 25% WG (Thiamethoxam) Water Labor Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam) Water Labor Labor	kg ltr Man-d kg kg ltr Man-d Man-d	200.0 0.5 0.4 0.0 200.0 0.5 10.0
21 21 21 21 22 28 28 28	Field	Cultivation	Plant protection Weeding Plant protection	Insecticide Fungicide Insecticide Fungicide	Concentration: 0.02%, H.I.: 14 days Concentration: 0.20%, H.I.: 14 days Concentration: 0.02%, H.I.: 14 days Concentration: 0.02%, H.I.: 14 days	spray late afternoon spray late afternoon	PREVENTIVE NEED-BASED NEED-BASED NEED-BASED PREVENTIVE NEED-BASED NEED-BASED NEED-BASED NEED-BASED NEED-BASED NEED-BASED NEED-BASED	Actara 25% WG (Thiamethoxam) Water Labor Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam) Water Labor Labor Abic M-45 75% EC (Mancozeb)	kg ltr Man-d kg kg ltr Man-d Man-d	200.0 0.5 0.4 0.0 200.0 0.5 10.0 0.4
21 21 21 21 21 22 28 28	Field	Cultivation	Plant protection Weeding Plant protection Plant protection Plant protection Plant protection	Insecticide Fungicide Insecticide	Concentration: 0.02%, H.I.: 14 days Concentration: 0.20%, H.I.: 14 days Concentration: 0.02%, H.I.: 14 days	spray late afternoon spray late afternoon	PREVENTIVE NEED-BASED NEED-BASED NEED-BASED PREVENTIVE NEED-BASED NEED-BASED NEED-BASED NEED-BASED NEED-BASED NEED-BASED NEED-BASED PREVENTIVE	Actara 25% WG (Thiamethoxam) Water Labor Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam) Water Labor Labor Labor Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam)	kg ltr Man-d kg kg ltr Man-d Man-d	200.0 0.5 0.4 0.0 200.0 0.5 10.0 0.4 0.0
21 21 21 21 22 28 28 28	Field	Cultivation	Plant protection Weeding Plant protection	Insecticide Fungicide Insecticide Fungicide	Concentration: 0.02%, H.I.: 14 days Concentration: 0.20%, H.I.: 14 days Concentration: 0.02%, H.I.: 14 days Concentration: 0.02%, H.I.: 14 days	spray late afternoon spray late afternoon	PREVENTIVE NEED-BASED NEED-BASED NEED-BASED PREVENTIVE NEED-BASED	Actara 25% WG (Thiamethoxam) Water Labor Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam) Water Labor Labor Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam) Water Water Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam) Water	kg ltr Man-d kg kg ltr Man-d kg kg ltr	200.0 0.5 0.4 0.0 200.0 0.5 10.0 0.4 0.0 200.0
21 21 21 21 21 28 28 28 28 35 35 35 35	Field	Cultivation	Plant protection Weeding Plant protection Plant protection Plant protection Plant protection	Insecticide Fungicide Insecticide Fungicide	Concentration: 0.02%, H.I.: 14 days Concentration: 0.20%, H.I.: 14 days Concentration: 0.02%, H.I.: 14 days Concentration: 0.02%, H.I.: 14 days	spray late afternoon spray late afternoon spray late afternoon	PREVENTIVE NEED-BASED NEED-BASED NEED-BASED PREVENTIVE NEED-BASED NEED-BASED NEED-BASED NEED-BASED NEED-BASED NEED-BASED NEED-BASED PREVENTIVE	Actara 25% WG (Thiamethoxam) Water Labor Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam) Water Labor Labor Labor Abic M-45 75% EC (Mancozeb) Actara 25% WG (Thiamethoxam)	kg ltr Man-d kg kg ltr Man-d Man-d	200.0 0.5 0.4 0.0 200.0 0.5 10.0 0.4

DAT Location	Operation1	Operation2	Operation3	Description1	Description2	Description3	Input	Unit	Units/acre
42 Field	Cultivation	Plant protection	Insecticide	Concentration: 0.02%, H.I.: 14 days		PREVENTIVE	Actara 25% WG (Thiamethoxam)	kg	0.08
42 Field	Cultivation	Plant protection		·		NEED-BASED	Water	ltr	200.00
42 Field	Cultivation	Plant protection			spray late afternoon	NEED-BASED	Labor	Man-d	0.50
48 Field	Cultivation	Plant protection	Fungicide	Concentration: 0.30%, H.I.: 1 day		NEED-BASED	Thiovit 80% WP (Sulphur)	kg	0.60
48 Field	Cultivation	Plant protection	Insecticide	Concentration: 0.02%, H.I.: 14 days		PREVENTIVE	Actara 25% WG (Thiamethoxam)	kg	0.08
48 Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
48 Field	Cultivation	Plant protection			spray late afternoon	NEED-BASED	Labor	Man-d	0.50
55 Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%, H.I.: 7 days	at first flowering	PREVENTIVE	Rovral 50% WP (Iprodione)	kg	0.40
55 Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%, H.I.: 3 days	at first flowering	NEED-BASED	Basathrin 25% EC (Cypermethrin)	ltr	0.40
55 Field	Cultivation	Plant protection			at first flowering	PREVENTIVE	Water	ltr	200.00
55 Field	Cultivation	Plant protection			at first flowering	PREVENTIVE	Labor	Man-d	0.50
62 Field	Harvest					NEED-BASED	Labor	Man-d	5.00
62 Field	Cultivation	Plant protection	Fungicide	Concentration: 0.30%, H.I.: 1 day		NEED-BASED	Thiovit 80% WP (Sulphur)	kg	0.60
62 Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
62 Field	Cultivation	Plant protection			spray late afternoon	NEED-BASED	Labor	Man-d	0.50
64 Field	Harvest					NEED-BASED	Labor	Man-d	5.00 5.00
66 Field	Harvest					NEED-BASED	Labor	Man-d	5.00
68 Field	Harvest					NEED-BASED	Labor	Man-d	5.00
70 Field	Harvest					NEED-BASED	Labor	Man-d	5.00
70 Field	Cultivation	Plant protection	Fungicide	Concentration: 0.30%, H.I.: 1 day		NEED-BASED	Thiovit 80% WP (Sulphur)	kg	0.60
70 Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
70 Field	Cultivation	Plant protection			spray late afternoon	NEED-BASED	Labor	Man-d	0.50
72 Field	Harvest					NEED-BASED	Labor	Man-d	5.00
74 Field	Harvest					NEED-BASED	Labor	Man-d	5.00
76 Field	Harvest					NEED-BASED	Labor	Man-d	5.00 5.00
78 Field	Harvest					NEED-BASED	Labor	Man-d	5.00
80 Field	Harvest					NEED-BASED	Labor	Man-d	5.00