



Certificate

MPS-ECAS awards this certificate in accordance with the certification standard MPS-ABC version 16, to:

**Ziway Roses PLC
P.O. Box 386
ZIWAY
Ethiopia
MPS-number: 802575**

Applicable to environmental clusters:
ROSE

Validity: **20-5-2024 valid up to and including 11-8-2024**
Total points: **88,2**
Qualification: **A**

Kind regards,
MPS-ECAS

Signature:

Date of issue:
22-4-2024

Drs. R. Landsmeer, Manager Operations

N.B.: This certificate is only valid for the period specified above.

P.O. Box 114
2678 ZJ De Lier
The Netherlands

QUALIFICATION AND PERIOD GRAPHS

MPS company number: **802575/01**
Company name: Ziway Roses PLC (total)

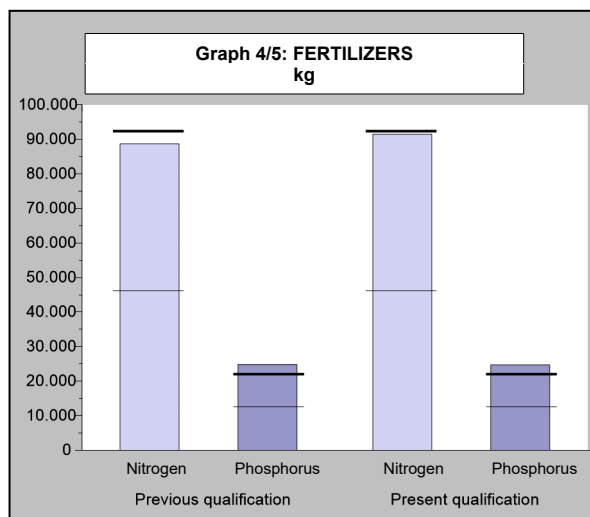
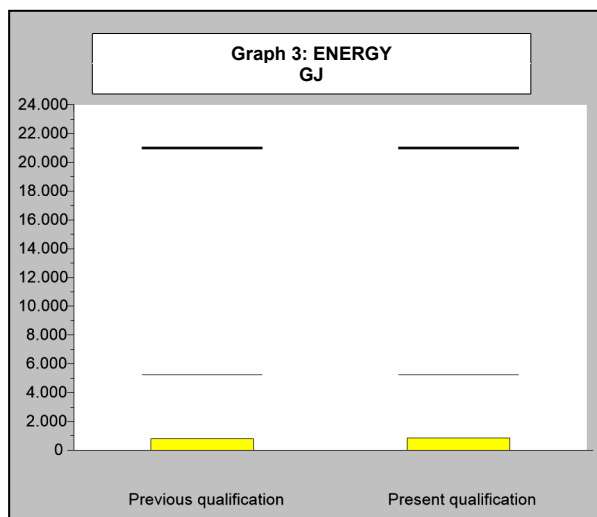
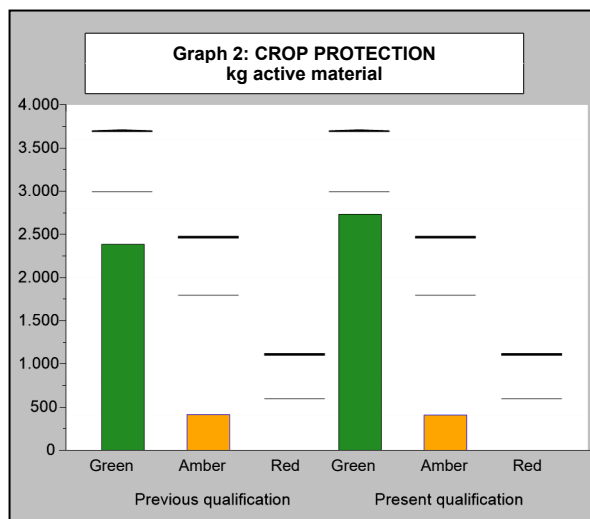
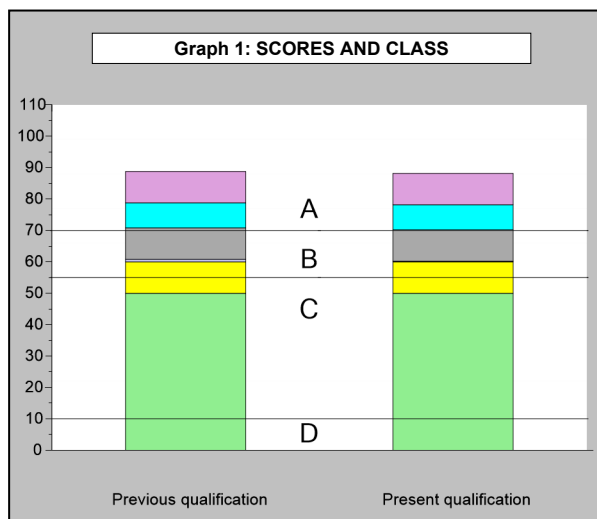
Valid: Period 5-2023 until Period 4-2024
Version: 22-4-2024

Table 1: DATA QUALIFICATIONS

SUBJECT		Your Company standard	Your use	Your points	max. points	A+ standard	A+ score	Obtained
		Lower- Upper limit						
Crop protection	Green	2992,5-3701,3 kg	2732,9	15	15			
	Amber	1795,5-2467,5 kg	408,6	20	20			
	Red	598,5-1110,4 kg	0	15	15			
total				50	50	85 %	100 %	yes
Energy total		5250-21000 GJ	854,6	10	10	75 %	100 %	yes
Fertilizers	Nitrogen	46200-92400 kg	91495,9	0,2	10			
	Phosphorus	12600-22050 kg	24763,2	0	10			
total				0,2	20	75 %	0,9 %	no
Waste		0-130	130	10	10			
Water		0-130	104	8	10			
Certified parental material				10	10			
Total score (points)				88,2	110	90	88,2	no
COMPANY QUALIFICATION				A				

COMPANY USAGE PER 13 PERIODS

<-----> = Upper limit <.....> = Lower limit

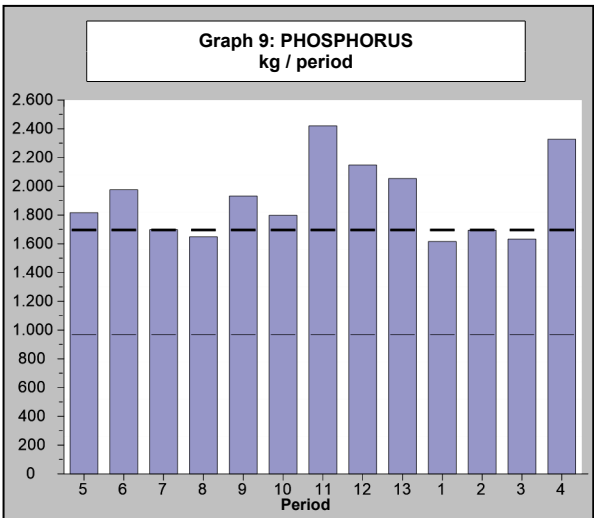
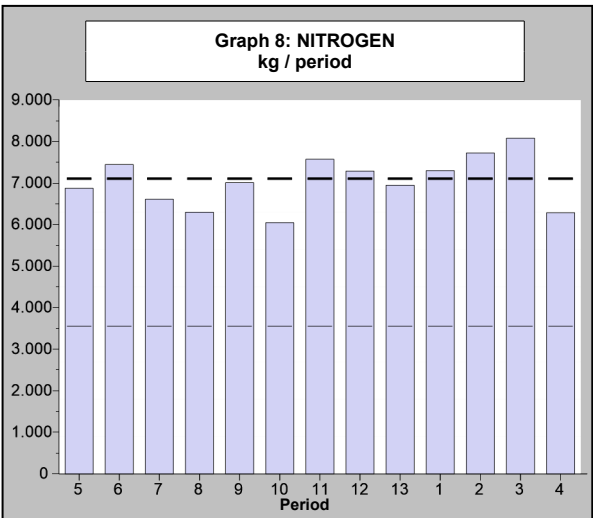
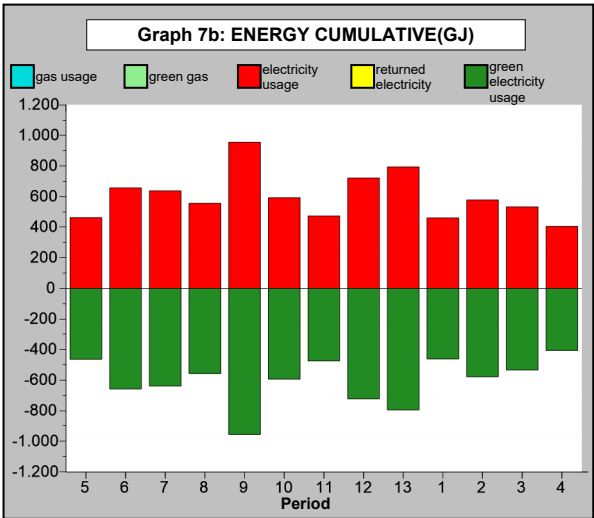
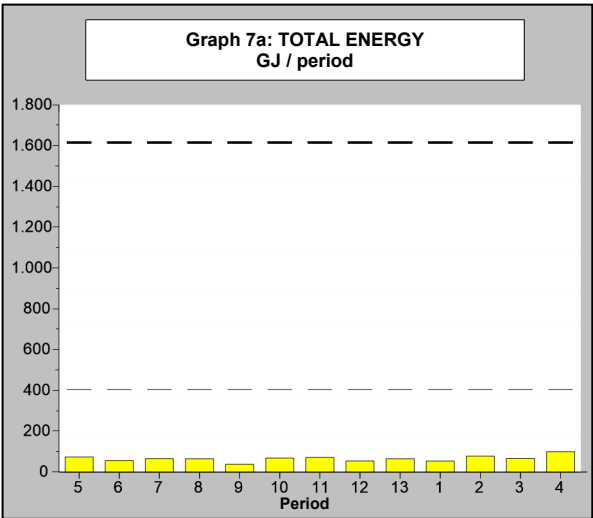
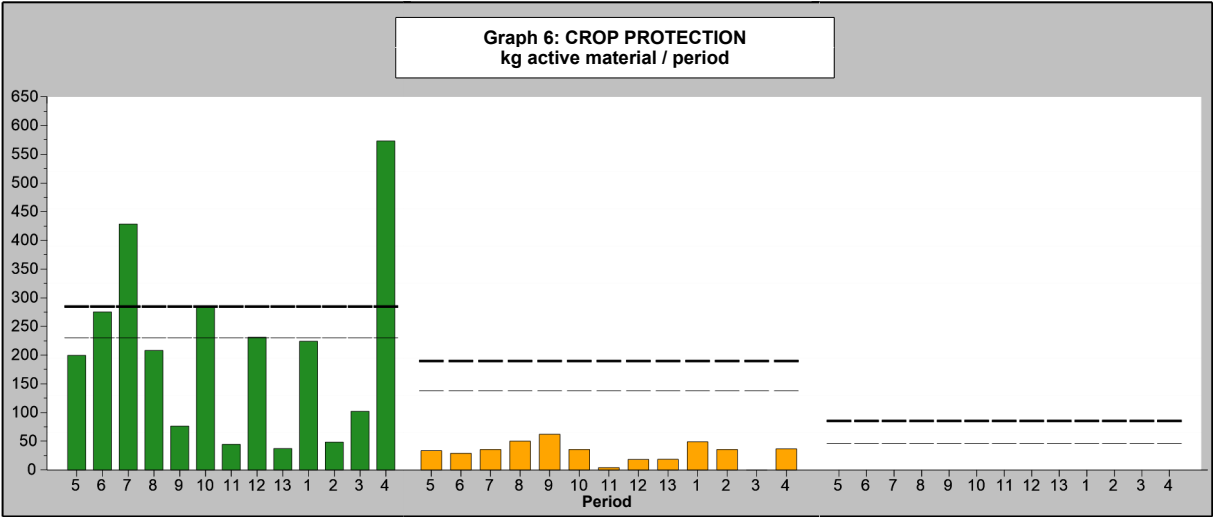


QUALIFICATION AND PERIOD GRAPHS

MPS company number: 802575/01
Company name: Ziway Roses PLC (total)

Valid: Period 5-2023 until Period 4-2024
Version: 22-4-2024

<-----> = Upperlimit <-----> = Lowerlimit



MPS-Overview Composition of Qualification

MPS company number: **802575/01**
 Company name: Ziway Roses PLC (total)

Valid: Period 5-2023 until Period 4-2024
 Version: 22-4-2024

Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	420000 m2		
Area certified parental material MPS-ABC	420000 m2	10	10
Area certified parental material GLOBALGAP	0 m2	0	5
Total points for Certified parental material		10	10

1) Total means: the total area covered and uncovered cultivation and the second crop layer. Not included is the uncultivated area.

Overview Environmental zones

Period	5	6	7	8	9	10	11	12	13	1	2	3	4
Environmental	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Acrobat MZ	●	dimethomorph	79,398		
	●	mancozeb	529,320		
Aliette 80 WP	●	fosetyl-aluminium	1024,200		
Amino Gold	○	siliconen			
Atmos 200 SC	●	cyazofamid	24,400		
Bacillus subtilis	○	bacillus subtilis			
Beauvitech WP	○	beauveria bassiana			
Belt SC 480	●	flubendiamide	76,224		
Collis 300 SC	●	boscalid	7,540		
	●	kresoxim-methyl	3,770		
Coragen 20 SC	●	chlorantraniliprole		25,620	
Equation Pro DF	●	cymoxanil	213,723		
	●	famoxadone		160,292	
Flower DS 4 EC	●	pyrethrins	1,976		
Gladius 10 SC	●	flometoquin		6,787	
Golan (liquid)	●	acetamiprid	64,240		
Impulse 500 EC	●	spiroxamine		136,250	
Kobe 1.2 SL	○	plant extract			
Meltatox 40 EC	●	dodemorph	178,400		
Mytech WP	○	paecilomyces lilacinus			
NEMguard	○	garlic extract			
Nissorun 10 EC	●	hexythiazox	48,950		
Ortiva Top 325 SC	●	azoxystrobin		22,000	
	●	difenoconazole	13,750		
Orvego 525 SC	●	ametocradin	89,310		
	●	dimethomorph	66,983		
Prev-Am (10 g/l Borax + 50 g/l Orang	●	borax		2,086	
	○	d-limonene			
Prove 1.92 EC	●	emamectin benzoate		0,937	
Pullit	○	attractant			
Radiant 120 SC	●	spinetoram	14,152		
RB SPLAT FCM	○	pheromone			
Revus	●	mandipropamid	93,899		
Runner	●	methoxyfenozide	138,480		
Scala 40 SC	●	pyrimethanil		11,400	
Score 250 EC	●	difenoconazole	53,750		
Spirox 500 EC	●	spiroxamine		43,185	

MPS-Overview Composition of Qualification

MPS company number: **802575/01**
 Company name: Ziway Roses PLC (total)

Valid: Period 5-2023 until Period 4-2024
 Version: 22-4-2024

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Sulphur Gold 80 WP	○	sulfur/sulphur			
Supramino Terra	○	amino and nucleic acids			
	○	humic acids			
Switch 62.5 WG	●	cyprodinil	3,108		
	●	fludioxonil	2,100		
Teldor 500 SC	●	fenhexamid	1,500		
Triatum-P WG 1%	○	trichoderma harzianum			
Velum Prime SC 500	●	fluopyram	3,750		
Vidi Parva	○	plant extract			
Vitix	○	bacteria			
	○	humic acids			
	○	mycorrhiza			
	○	seaweed extract			
	○	trichoderma spp.			
Annual company use of active substance			2732,922	408,557	0

OVERVIEW RECORDED DATA

MPS company number: **802575/01**

Company name: Ziwi Roses PLC (total)

Valid: Period 5-2023 until Period 4-2024

Version: 22-4-2024

Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal	Year total
FORM RECEIVED			yes	yes	yes	yes	yes	yes	yes		
CROP PROTECTION AGENTS											
3065	Acrobat MZ	grams							185800	185800	882200
3108	Aliette 80 WP	grams		210000		210000	10000	10000	420000	860000	1280250
3302	Amino Gold	ml	434000	474950	436975	407430	413350	403550	412100	2982355	5606805
4419	Atmos 200 SC	ml	2000		14000	20000	20000	22000	2000	80000	122000
3991	Bacillus subtilis	ml	86750		67500	115000	80000	121000	83000	553250	1066500
4243	Beauvitech WP	grams	1000							1000	1000
4156	Belt SC 480	ml	20800	18800		14900	4200	48400	7900	115000	158800
3167	Collis 300 SC	ml					800	14800	9100	24700	37700
3992	Coragen 20 SC	ml		11900			27000		28200	67100	128100
3093	Equation Pro DF	grams		30800	21600	62800	34800		127200	277200	712410
4557	Flower DS 4 EC	ml		6000	4000		6000	16100	17300	49400	49400
4437	Gladius 10 SC	ml	11625		1875					13500	64025
3198	Golan (liquid)	ml	27950	38550	44800	26600	2550	2000	15250	157700	292000
3174	Impulse 500 EC	ml	2800	13850	10500	69300	42700			139150	272500
3406	Kobe 1.2 SL	ml	18000	15000						33000	172000
3073	Meltatox 40 EC	ml					9600	126000	68400	204000	446000
4237	Mytech WP	grams	3750		3750	3750	3750	3750	3750	22500	44250
4245	NEMguard	ml	10500	150						10650	10650
3009	Nissorun 10 EC	ml	33200	88800	52400	26000	37200	4800	6600	249000	489500
4138	Ortiva Top 325 SC	ml		6000	36375					42375	110000
3968	Orvego 525 SC	ml		17500					39500	57000	297700
3997	Prev-Am (10 g/l Borax + 50 g/l Orange oil)	ml	15360	27200	36000	17200	2000	1600	12200	111560	208610
3382	Prove 1.92 EC	ml		1200	27250	1500		1150		31100	48800
4209	Pullit	ml	19800	50200	7600	5800	11600	7700	800	103500	130750
3998	Radiant 120 SC	ml	10000	23500	11500	10980	11600	7200	800	75580	117930
4568	RB SPLAT FCM	grams	5000	2000	1000	2				8002	81002
3348	Revus	ml	20000	18000			52000	36000	12000	138000	403000
3271	Runner	ml	55250		27750	64000	2000			149000	577000
3056	Scala 40 SC	ml	3500	1500			2500		6000	13500	28500
3123	Score 250 EC	ml	22200	42000	600	4200	6000	600		75600	215000
4403	Spirox 500 EC	ml									86370
3392	Sulphur Gold 80 WP	grams	495200	536000	468200	441100	439600	402500	423200	3205800	5898300
4223	Supramino Terra	ml									80000
3127	Switch 62.5 WG	grams							8400	8400	8400
3185	Teldor 500 SC	ml									3000
4316	Trianum-P WG 1%	grams	7000		7000	7000	6000	7500	8000	42500	52500

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802575/01**

Company name: Ziway Roses PLC (total)

Valid: Period 5-2023 until Period 4-2024

Version: 22-4-2024

Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal	Year total
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CROP PROTECTION AGENTS (Continued)

4366	Velum Prime SC 500	ml						1500	6000	7500	7500
4196	Vidi Parva	ml					8000	12000	11000	31000	31000
4562	Vitix	grams	14000		14000	14000	12000	15000	16000	85000	111000

WATER

21	Total irrigation	m3	78881	77376	72879	73161	71971	74817	1820	450905	859241
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ENERGY

4	Electricity from the grid (Total)	kWh	52666	80290	88313	51227	64251	59310	45082	441139	870531
54	Diesel oil/fuel	litres	1805	1323	1785	1470	2155	1842	2795	13175	23225
6	Green electricity from the grid	kWh	52666	80290	88313	51227	64251	59310	45082	441139	870531
71	Petrol/Benzine	litres	223	209	60	40	40	40		612	918

FERTILIZERS

624	Alexin	litres									2,8
572	Ammonium Sulphate (21%)	kg	4350	3937,5	3712,5	3862,5	4050	4350	3175	27437,5	51575
573	Bonemill	kg	5000	5000	5000			5500	9500	30000	30000
524	Borax (Boric Acid)	kg	116	105	99	103	108	116	88	735	1376
503	Calcium nitrate (nitrate of Lime) 15.5+0+0	kg	20300	18375	17325	18025	18900	20332	15150	128407	234044,5
731	Calratna	litres				91,5	98	94	146	429,5	537,5
506	Copper sulphate	kg	36,55	31,5	29,7	30,9	32,4	34,8	26,9	222,75	438
602	Eco Green	litres	6060			6720	6720	7000	3920	30420	36330
544	Eddha iron 6%Fe	kg	580	525	495	545	567	580	485	3777	7035
525	Fe DTPA 6%	kg	1150	1025	1025	1020	1080	1160	880	7340	14170
695	FertiChel Bio Mn	litres	15,3	89	113,25					217,55	220,5
589	Gypsum	kg	1067	891	746		48	1788	1296	5836	5912
523	Magnesium nitrate 11+0+0 (+15%MgO)	kg	5800	5250	4950	5150	5400	5800	4275	36625	63400
521	Magnesium sulphate 15.9% MgO+32.6%SO3)	kg	20310	18375	17325	18025	18900	27825	23500	144260	252425
513	Manganese sulphate	kg	232	210	197	206	216	240	194	1495	2725
696	Maxstim 1.6+1.6+3.1	litres	140	140	140	140	140	140		840	1570
529	Mono-Ammonium Phosphate (MAP) 12+61+0	kg	4350	3937,5	3712,5	3862,5	4050	1575	3175	24662,5	45737,5
514	Mono-potassium phosphate 0+52.29+33.98	kg	3337,5	2625	2475	2575	2700	2900	2325	18937,5	42000
534	Natriummolybdaat (Brinkman)	kg	34,8	31,5	29,7	30,9	32,4	34,8	26,4	220,5	405

OVERVIEW RECORDED DATA (Continued)

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Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal	Year total
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FERTILIZERS (Continued)

551	Nitric Acid 68%	litres	6025	7375	7275	8100	8400	9725	7150	54050	90675
533	Potassium Nitrate 13+0+46	kg	7250	6562,5	6187,5	6437,5	6750	7250	5500	45937,5	85275
537	Urea 46%	kg					200			200	200
501	Zinc sulphate	litres	116	105	99	103	108	116	87	734	1338,07

ENVIRONMENTAL CLUSTERS

Indoor crops											
2014	ROSE	m2	420000	420000	420000	420000	420000	420000	420000		
	Subtotal		420000	420000	420000	420000	420000	420000	420000		
Certified parental material											
661	MPS-ABC certif.parental mat. indoor	m2	420000	420000	420000	420000	420000	420000	420000		

GENERAL INFORMATION FORM

MPS-Mind

Surface water		
3900	What is the minimum distance of this location to the nearest surface water?	250 - 2500 metres / 820 - 8200 feet
Cover		
3910	Does the surface of protected cultivation exceed 95% of this location?	Yes
Slope		
3902	What is the maximum slope of a plot on this location?	3 - 10%
Leaching to groundwater		
3903	Do you grow more than 95% of your crops in a closed (recirculation) system, with less than 3% loss of drainwater?	No
3904	What is the minimum depth of the groundwater on all your plot(s)?	>= 15 metres / >= 49,2 feet
3905	What is the lowest percentage of organic material of your soil on all your plots of this location?	1,5 - 3%
3906	What is the average annual rainfall?	600 - 1500 mm annually / 23 - 59 inch
3907	How many months per year may be regarded as exceptionally dry (less than 2% of the annual precipitation)?	2 - 6 months
3908	What is the average day and night temperature over a whole year?	< 20 degrees C / 68 degrees F on aver

OVERVIEW RECORDED DATA (Continued)

MPS company number: 802575/01
Company name: Ziway Roses PLC (total)

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GENERAL INFORMATION FORM

Water management

45	Do you collect rainwater?	No
47	Do you collect leaking water while working with chemicals?	Yes
49	Do you record water use?	Yes
50	Do you use drip irrigation or recirculation?	Yes

Waste management

41	Do you process organic waste in a responsible way?	Yes
42	Do you process paper waste in a responsible way?	Yes
43	Do you process plastic waste in a responsible way?	Yes
44	Do you process chemical waste in a responsible way?	Yes

OVERVIEW RECORDED DATA

MPS company number: **802575/01**

Company name: Ziway Roses PLC (total)

Valid: Period 5-2023 until Period 4-2024

Version: 22-4-2024

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal
FORM RECEIVED			yes	yes	yes	yes	yes	yes	
CROP PROTECTION AGENTS									
3065	Acrobat MZ	grams	105200	169000	228100	183500	10600		696400
3108	Aliette 80 WP	grams			210000	250		210000	420250
3302	Amino Gold	ml	486850	434450	424200	403250	420000	455700	2624450
4419	Atmos 200 SC	ml	3000	6000	16000	11000	6000		42000
3991	Bacillus subtilis	ml	14500	136750	119750	72500	90750	79000	513250
4243	Beauvitech WP	grams							
4156	Belt SC 480	ml	15900		11000	15900	1000		43800
3167	Collis 300 SC	ml	4000	7200	1800				13000
3992	Coragen 20 SC	ml	1500	24000	10800		300	24400	61000
3093	Equation Pro DF	grams	133200	90000	74000	79600	56400	2010	435210
4557	Flower DS 4 EC	ml							
4437	Gladius 10 SC	ml	8125	36000			4900	1500	50525
3198	Golan (liquid)	ml	19650	25150	33450	26000	16900	13150	134300
3174	Impulse 500 EC	ml					88550	44800	133350
3406	Kobe 1.2 SL	ml	8000	71400	37500	11600		10500	139000
3073	Meltatox 40 EC	ml	133000	85200	23800				242000
4237	Mytech WP	grams	3625	3625	3625	3500		7375	21750
4245	NEMguard	ml							
3009	Nissorun 10 EC	ml	76750	67150	33800	13200	30000	19600	240500
4138	Ortiva Top 325 SC	ml			8500	39250	19875		67625
3968	Orvego 525 SC	ml	4000	53000	7000	13200	13000	150500	240700
3997	Prev-Am (10 g/l Borax + 50 g/l Orange oil)	ml	16000	20550	25100	21200	7600	6600	97050
3382	Prove 1.92 EC	ml	14200		3500				17700
4209	Pullit	ml	12000	4100	8300	700	1350	800	27250
3998	Radiant 120 SC	ml	10300	7650	10900	1800	3300	8400	42350
4568	RB SPLAT FCM	grams					40000	33000	73000
3348	Revus	ml		101000	27500	24500		112000	265000
3271	Runner	ml		124000	114000	59000	131000		428000
3056	Scala 40 SC	ml	1500			5500	1500	6500	15000
3123	Score 250 EC	ml	36500		41100	34800	10800	16200	139400
4403	Spirox 500 EC	ml	3000		29400	43750		10220	86370
3392	Sulphur Gold 80 WP	grams	450700	373100	373100	472700	498900	524000	2692500
4223	Supramino Terra	ml				20000	50000	10000	80000
3127	Switch 62.5 WG	grams							
3185	Teldor 500 SC	ml			3000				3000
4316	Trianum-P WG 1%	grams			1000	1000	1000	7000	10000

OVERVIEW RECORDED DATA (Continued)

MPS company number: 802575/01

Company name: Ziway Roses PLC (total)

Valid: Period 5-2023 until Period 4-2024

Version: 22-4-2024

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal
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CROP PROTECTION AGENTS (Continued)

4366	Velum Prime SC 500	ml							
4196	Vidi Parva	ml							
4562	Vitix	grams			4000	4000	4000	14000	26000

WATER

21	Total irrigation	m3	69525	71525	70596	57730	69345	69614	408335
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ENERGY

4	Electricity from the grid (Total)	kWh	51454	73022	70939	61885	106162	65930	429392
54	Diesel oil/fuel	litres	2040	1530	1785	1785	1020	1890	10050
6	Green electricity from the grid	kWh	51454	73022	70939	61885	106162	65930	429392
71	Petrol/Benzine	litres	30	50	66	60	60	40	306

FERTILIZERS

624	Alexin	litres			2,8				2,8
572	Ammonium Sulphate (21%)	kg	4762,5	4275	3712,5	3625	4125	3637,5	24137,5
573	Bonemill	kg							
524	Borax (Boric Acid)	kg	98	124,25	109,25	108,25	105,25	96	641
503	Calcium nitrate (nitrate of Lime) 15.5+0+0	kg	17150	19437,5	16812,5	16412,5	18850	16975	105637,5
731	Calratna	litres			36	38	34		108
506	Copper sulphate	kg	34,3	39,9	34,65	33,95	38,5	33,95	215,25
602	Eco Green	litres	620	620	470		840	3360	5910
544	Eddha iron 6%Fe	kg	505	616	536	533	582	486	3258
525	Fe DTPA 6%	kg	980	1222	1105	1252	1311	960	6830
695	FertiChel Bio Mn	litres			2,95				2,95
589	Gypsum	kg				20	28	28	76
523	Magnesium nitrate 11+0+0 (+15%MgO)	kg	4900	4675	3925	3725	4700	4850	26775
521	Magnesium sulphate 15.9% MgO+32.6%SO3)	kg	17150	20150	17665	16975	19250	16975	108165
513	Manganese sulphate	kg	196	228	198	194	220	194	1230
696	Maxstim 1.6+1.6+3.1	litres	110	110	120	130	120	140	730
529	Mono-Ammonium Phosphate (MAP) 12+61+0	kg	3675	3762,5	3200	3075	3725	3637,5	21075
514	Mono-potassium phosphate 0+52.29+33.98	kg	3675	4275	3712,5	3637,5	4125	3637,5	23062,5
534	Natriummolybdaat (Brinkman)	kg	29,4	34,2	29,7	29,1	33	29,1	184,5

OVERVIEW RECORDED DATA (Continued)

MPS company number: 802575/01
Company name: Ziway Roses PLC (total)

Valid: Period 5-2023 until Period 4-2024
Version: 22-4-2024

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal
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FERTILIZERS (Continued)

551	Nitric Acid 68%	litres	7025	7000	6825	6000	5825	3950	36625
533	Potassium Nitrate 13+0+46	kg	5037,5	7637,5	6700	6625	7275	6062,5	39337,5
537	Urea 46%	kg							
501	Zinc sulphate	litres	87,07	114	99	97	109	98	604,07

ENVIRONMENTAL CLUSTERS

Indoor crops									
2014 ROSE	m2		420000	420000	420000	420000	420000	420000	
	Subtotal		420000	420000	420000	420000	420000	420000	
Certified parental material									
661 MPS-ABC certif.parental mat. indoor	m2		420000	420000	420000	420000	420000	420000	