

Certificate

MPS-ECAS awards this certificate in accordance with the certification scheme MPS ABC version 15 080217, to:

**Sher Ethiopia Plc.
P.O. Box 120963
Addis Ababa
Ethiopia
MPS-number: 802685**

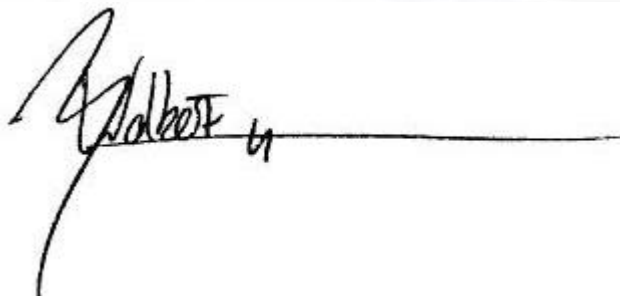
Applicable to environmental clusters:
ROSE; ROSE par-mat

Validity: **14-8-2017 until 6-11-2017**
Total points: **94,6**
Qualification: **A**

Kind regards,
MPS-ECAS

Signature:

Date of issue:
15-8-2017



J.J.B. Wolbert MSc
Director

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

MPS-ECAS
Certification



QUALIFICATION AND PERIOD GRAPHS

MPS company number: **802685/01**
 Company name: Sher Ethiopia Plc. (total)

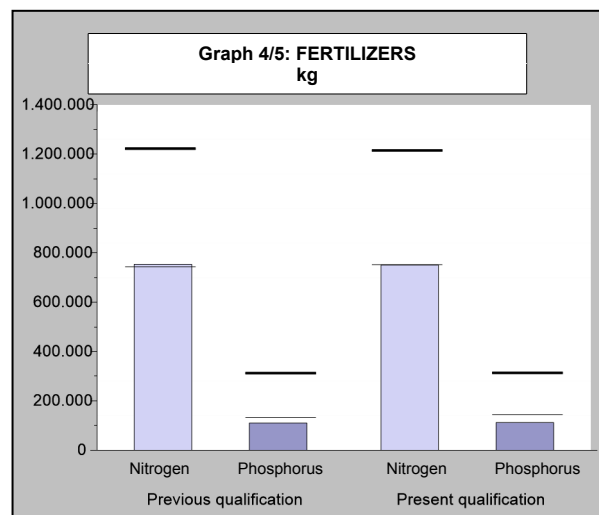
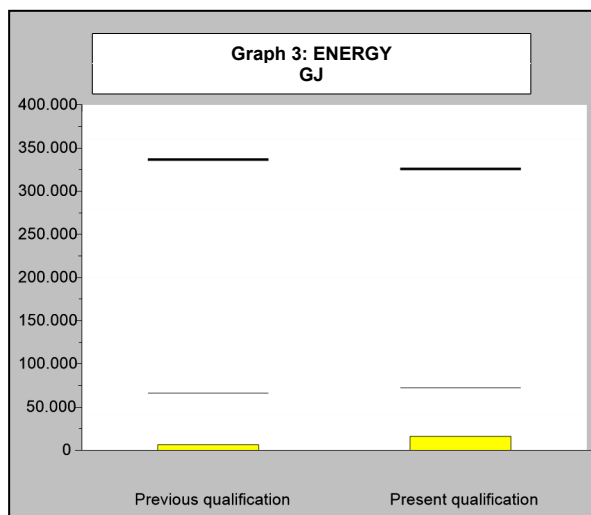
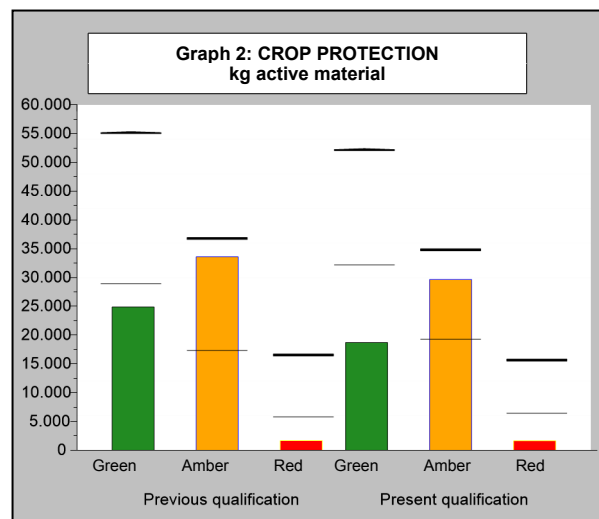
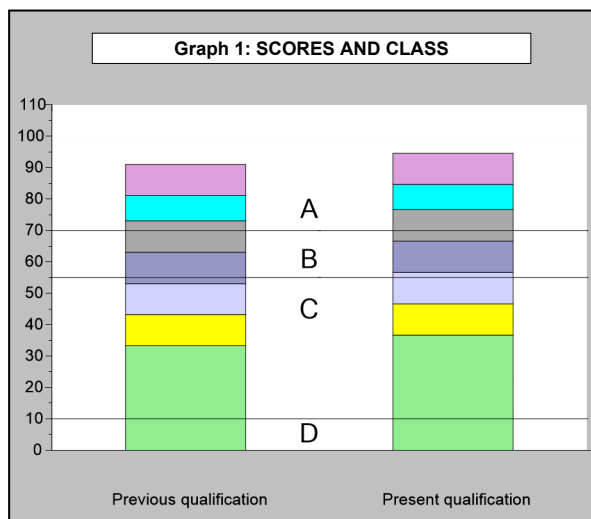
Valid: Period 8-2016 until Period 7-2017
 Version: 15-8-2017

Table 1: DATA QUALIFICATIONS

SUBJECT		Company standard	use	points	max. points	A+ standard	A+ score	Obtained
		Lower- Upper limit						
Crop protection	Green	32189,8-52235,2 kg	18712,6	15	15			
	Amber	19313,9-34823,4 kg	29671,8	6,6	20			
	Red	6437,9-15670,5 kg	1636,8	15	15			
total				36,6	50	85 %	73,2 %	no
Energy total		72470,8-325862,3 GJ	16183,7	10	10	75 %	100 %	yes
Fertilizers	Nitrogen	752520,8-1215158,5 kg	750487,1	10	10			
	Phosphorus	144941,5-313869,2 kg	112645	10	10			
total				20	20	75 %	100 %	yes
Waste		0-130	130	10	10			
Water		0-130	104	8	10			
Certified parental material				10	10			
Total score (points)				94,6	110	90	94,6	yes
COMPANY QUALIFICATION				A				

COMPANY USAGE PER 13 PERIODS

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

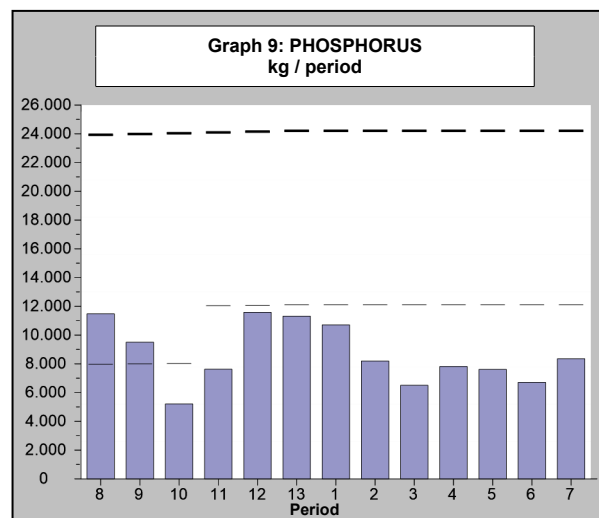
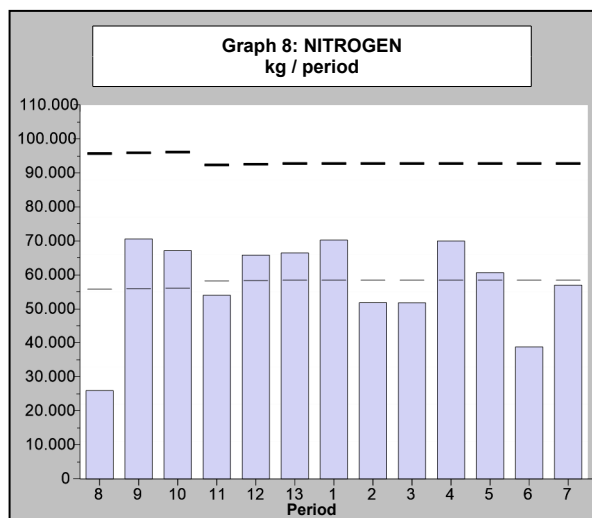
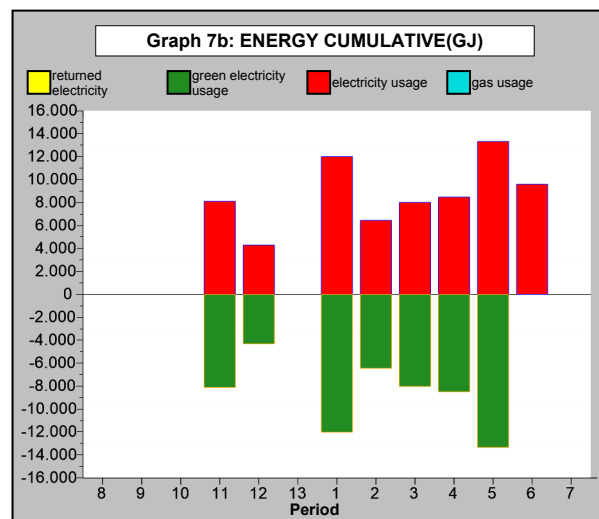
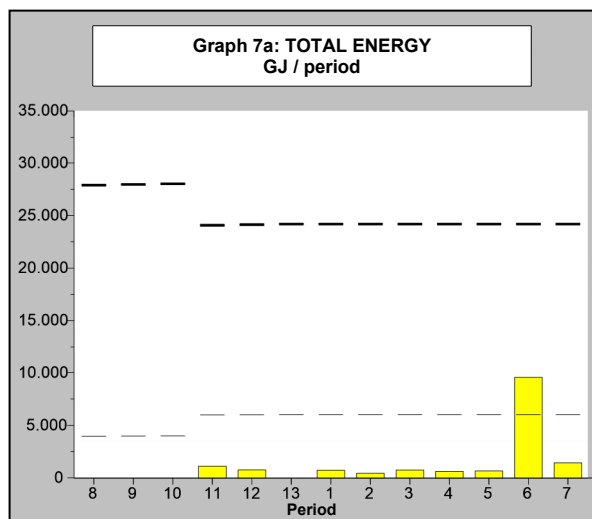
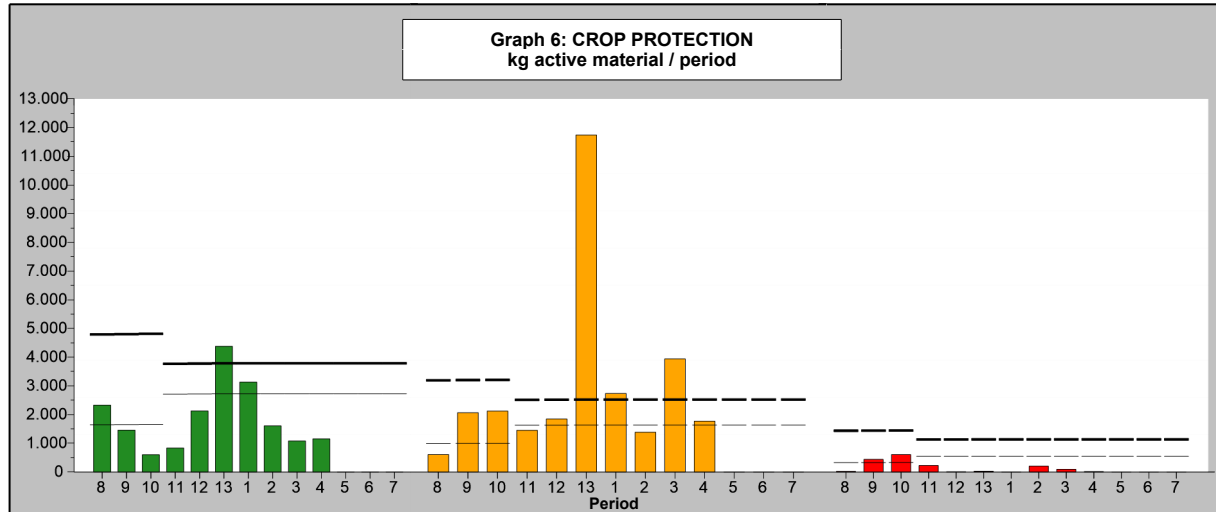


QUALIFICATION AND PERIOD GRAPHS

MPS company number: **802685/01**
 Company name: Sher Ethiopia Plc. (total)

Valid: Period 8-2016 until Period 7-2017
 Version: 15-8-2017

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



MPS-Overview Composition of Qualification

MPS company number: **802685/01**
 Company name: Sher Ethiopia Plc. (total)

Valid: Period 8-2016 until Period 7-2017
 Version: 15-8-2017

Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	5231153,8 m2		
Area certified parental material MPS-ABC	5216153,8 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.

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Actara	●	thiamethoxam		0,588	
Addit	○	vegetable oil			
Afalon Flow	●	linuron			10,665
Amino Gold	○	siliconen			
Amisil	○	heptamethyltrisiloxane			
B-Wise 1.9 EC	●	emamectin benzoate		0,009	
Chess 50 WG	●	pymetrozine		1240,776	
Chrystop groen 0.25%	●	indolylbutyric acid	0,083		
Chryzopon Rose 0.1%	●	indolylbutyric acid	0,144		
Chryzosan White 0.6%	●	indolylbutyric acid			
Chryzotek Beige 0.4%	●	indolylbutyric acid			
Collis	●	boscalid	1262,048		
	●	kresoxim-methyl	631,024		
Conquest 20 SL	●	acetamiprid	29,000		
Conserve	●	spinosad	11,711		
Crop Guard 80	●	furfural		15747,059	
Danisaraba 20 SC	●	cyflumetofen		4,400	
Domark	●	tetraconazole		1217,600	
Floramite 240 SC	●	bifenazate	379,070		
Fostonic 80 WP	●	fosetyl-aluminium	41,560		
Fulvic 100	○	humic acids			
Glyphogan	●	glyphosate		3,960	
Golan (liquid)	●	acetamiprid	702,984		
Goldazim	●	carbendazim		1011,850	
Impulse	●	spiromaxamine		7305,088	
Impulse Extend	●	spiromaxamine		274,377	
Ippon	●	iprodione			3,090
Kaligreen	●	potassium bicarbonate	1,233		
Kelpak	○	seaweed extract			
Lamdex 5 %	●	lambda-cyhalothrin		4,501	
Lecatech	○	fungus			
Linapower	○	bacillus subtilis			
	○	humic acids			
Luna Tranquility	●	fluopyram	648,253		
	●	pyrimethanil		1939,023	
Mancozeb	●	mancozeb	9165,859		
Match 50 EC	●	lufenuron			124,749
Meltatox 40 EC	●	dodemorph	4212,070		
Movento OD 150	●	spirotetramat	87,653		
Neatness 25 EC	●	bupirimate		40,962	
Nimrod 25 EC	●	bupirimate		0,026	
Nomolt	●	teflubenzuron	292,589		

MPS-Overview Composition of Qualification

MPS company number: **802685/01**
 Company name: Sher Ethiopia Plc. (total)

Valid: Period 8-2016 until Period 7-2017
 Version: 15-8-2017

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Optimus	○	plant extract			
Pencol 100 EC	●	penconazole			148,010
Pencozool 100 EC	●	penconazole			
Previcur Energy	●	fosetyl-aluminium	39,990		
	●	propamocarb	68,370		
Previcur N	●	propamocarb hydrochloride	141,883		
Proove 20 SL	●	imidacloprid			1335,894
Proplant	●	propamocarb hydrochloride	41,226		
Prove 1.9 EC	●	emamectin benzoate		147,157	
Pymet 50 WG	●	pymetrozine			
Regent 50 SC	●	fipronil			8,207
Rhizopon AA	●	indolylbutyric acid	0,013		
Rhizopon AA Powder 1 %	●	indolylbutyric acid	0,001		
Rift 20% SL	●	acetamiprid	11,668		
Rizolex 50 WP	●	tolclofos-methyl		12,156	
RO 208	○	heptamethyltrisiloxane			
Rooting hormone 0.4%	●	indolylbutyric acid	0,702		
Rooting hormone 0.6%	●	indolylbutyric acid	1,955		
Round Up	●	glyphosate		485,686	
Rovral 250 flow	●	iprodione			6,152
Runner	●	methoxyfenozone	4,200		
Siliconi	○	wetting/sticker agents other			
Solucion	○	wetting/sticker agents other			
Switch 62.5 WG	●	cyprodinil		42,189	
	●	fludioxonil	28,506		
Teppeki	●	flonicamid	684,997		
Tracer 480 SC	●	spinosad	222,528		
Triatum-P	○	trichoderma harzianum			
Tribute EC	●	spiroxamine		194,200	
Ultimatum	○	heptamethyltrisiloxane			
Victory 72 WP	●	mancozeb	1,234		
	●	metalaxyl		0,154	
Vidi Fortum	○	plant extract			
Vidi Parva	○	plant extract			
Vidi Terrum	○	plant extract			
Annual company use of active substance			18712,553	29671,760	1636,767

OVERVIEW RECORDED DATA

MPS company number: **802685/01**

Company name: Sher Ethiopia Plc. (total)

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
CROP PROTECTION AGENTS											
3927	Ab-gel	ml	350							350	700
3234	Actara	gram									2350
3868	Addit	ml	87200	88600		145000	18	301		321119	1323149
4134	Afalon Flow	ml									23700
990673	Amblyseius / Neoseiulus californicus	number									42560140000
3302	Amino Gold	ml						114	31	145	145
4133	Amisil	ml				220000				220000	431200
4214	B-Wise 1.9 EC	ml					244	176	77	497	497
3340	Chess 50 WG	gram	83100	299500	124100	16000			1	522701	2481551
3207	Chrystop groen 0.25%	gram									33000
4121	Chryzopon Rose 0.1%	gram	17000	28000	15000	16000		5		76005	143505
4217	Chryzosan White 0.6%	gram					22			22	22
4218	Chryzotek Beige 0.4%	gram					24			24	24
3167	Collis	ml	592400	458100	620410	488290	162	935	443	2160740	6310240
3397	Conquest 20 SL	ml									145000
3226	Conserve	ml		29000	34200		33	5	154	63392	97591
4064	Crop Guard 80	ml	1460000	210000	3590000	1232000	144	1600	80	6493824	19683824
990384	Cryptolaemus montrouzieri	number									1011400
3367	Danisaraba 20 SC	ml									22000
3115	Domark	ml	454400	917800	36000	22500				1430700	3044000
3117	Floramite 240 SC	ml	62300	150000	235300	130500	344	189	28	578661	1579460
3141	Fostonic 80 WP	gram									51950
4153	Fulvic 100	gram									3011500
3359	Glyphogan	ml									11000
3198	Golan (liquid)	ml	122900	10450	10620					143970	3195380
3023	Goldazim	ml	2000000	3000	2000	1000		2	1	2006003	2023699
3174	Impulse	ml	482650	1304800	1905610		2092	840	784	3696776	14610176
4073	Impulse Extend	ml				914590				914590	914590
3175	Ippon	ml									6180
4194	Kaligreen	gram					76	440	989	1505	1505
3345	Kelpak	ml	32000	8000			75		290	40365	625365
3339	Lamdex 5 %	ml			40000	50000	10			90010	90010
4144	Lecatech	gram				2000				2000	2000
4082	Linapower	ml	88100	200000						288100	298810
3988	Liquid Seal	ml							4	4	637004
4034	Luna Tranquility	ml	33000	83500	32500	1383500	279	659	915	1534353	5736753
3026	Mancozeb	gram	2929960	998856	172900	48780	233	1173	52	4151954	11457324
3014	Match 50 EC	ml	44500	381600	477200	195400	45	377	60	1099182	2494982
3073	Meltatox 40 EC	ml	1316400	1332800	1322200	1175800	2166	2205	2603	5154174	10530174

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/01**

Company name: Sher Ethiopia Plc. (total)

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
CROP PROTECTION AGENTS (Continued)											
3858	Movento OD 150	ml		131175	314575	137025	71		204	583050	584350
3953	Neatness 25 EC	ml									163846
3077	Nimrod 25 EC	ml							103	103	103
3249	Nomolt	ml		3500		461300	23		20	464843	1950593
4101	Optimus	ml	600000	881750	339845	1696000	7020	6064	93	3530772	17736617
3861	Pencol 100 EC	ml	170	623000	679800	36000	356	255	518	1340099	1480102
4215	Pencoool 100 EC	ml					356			356	356
990391	Phytoseiulus persimilis	number									17031500000
3245	Previcur Energy	ml									129000
3120	Previcur N	ml					114		1	115	196515
4018	Proove 20 SL	ml		603600			441	29		604070	6679471
3044	Proplant	ml									57100
3382	Prove 1.9 EC	ml	150500		1293300	934750				2378550	7664450
4216	Pymet 50 WG	gram						205	433	638	639
3948	Regent 50 SC	ml				5000				5000	165800
3208	Rhizopon AA	gram					25	18	24	67	67
4043	Rhizopon AA Powder 1 %	gram					28	19	10	57	57
4185	Rift 20% SL	ml			41000	15000	737	1361	241	58339	58339
3183	Rizolex 50 WP	gram							1	1	24311
3944	RO 208	ml									188550
3267	Rooting hormone 0.4%	gram	22000	21550	18000	14000				75550	175550
3268	Rooting hormone 0.6%	gram		4000	2000					6000	325900
3273	Round Up	ml	227000	50000		9000	15	12		286027	1349127
3030	Rovral 250 flow	ml	2000	3000	2585	1000	1	1	1	8588	24608
3271	Runner	ml		7500	5000	5000				17500	17500
4054	Siliconi	ml	1128550	741900	920200	699950	983	1515	1181	3494279	11478210
4098	Solucion	ml									1872050
3127	Switch 62.5 WG	gram	22770			2077		1	895	25743	114025
3378	Teppeki	gram	61625	128250	207000	404450	1240	666	433	803664	1369995
3187	Tracer 480 SC	ml				29780	670			30450	463600
4005	Triamum-P	gram		6750	6750	25250	17	16	8	38791	38791
3388	Tribute EC	ml									388400
3389	Ultimatum	ml									5800
3218	Victory 72 WP	gram						279	1649	1928	1928
4197	Vidi Fortum	ml					382	33	36	451	452
4196	Vidi Parva	ml					20	18	18	56	57
4195	Vidi Terrum	ml					20	18	18	56	57

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/01**

Company name: Sher Ethiopia Plc. (total)

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
------	-------------	------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	----------	------------

ENERGY

4	Electricity usage (Total)	kWh	1334734	716804	891011	942139	1481001	1066001		6431690	7811105
54	Diesel oil/fuel	litre	20750	12600	21500	17673	18900		40950	132373	185623
6	Green Electricity Usage	kWh	1334734	716804	891011	942139	1481001			5365689	6745104

FERTILIZERS

572	Ammonium Sulphate (21%)	kg									600
524	Borax (Boric Acid)	kg	1962,5	2147	1665	1848	1726	1070,4	1117,8	11536,7	30637,2
504	Calcium nitrate	litre	600	600	725	800	800	800		4325	5600
503	Calcium nitrate (nitrate of Lime)	kg	220532	186430	192875	218633	212138	186295	218142,5	1435045,5	2597193
506	Copper sulphate	kg	729	613	564	600	565	273,7	240,375	3585,075	7196,245
602	Eco Green	litre									650
544	Eddha iron 6%	kg	9086	9176	8263	11280	13360	9227	7987	68379	130429,04
525	Fe DTPA 6%	kg	7184	7166	6385	6384	7912	5375,5	10015,75	50422,25	165194,49
521	Magnesium sulphate	kg	110575	100235	120050	188720	159518	103520	174390,5	957008,5	1932639,5
513	Manganese sulphate	kg	236	2146,68	1583	1848	1762	1066,497	1128,8	9770,977	34346,427
529	Mono-Ammonium Phosphate (MAP) 12+61+0	kg	26275	17425	12675	14250	13775	12150	14912	111462	227153
514	Mono-potassium phosphate 0+52.29+33.98	kg	9825	15650	13750	17675	17275	15200	19267	108642	193321,5
634	Multicote 4 15+7+15(+2) +TE	kg									100
651	Multicote 4 17+17+17	kg					200	200		400	400
581	Multi-K	kg		300	1090	209				1599	1824
534	Natriummolybdaat	kg	584	605	547	626	564	782,908	36,523	3745,431	7154,681
550	Nitric Acid 54%	litre			18935		24045			42980	111530
551	Nitric Acid 68%	litre	49700	22400	70	41685		1820	51349	167024	270011
515	Potassium nitrate 13+0+45	kg	225	225	325	450	300	300		1825	2800
533	Potassium Nitrate 13+0+46	kg	52800	61675	88775	70770	72150	44000	45325	435495	943920
626	Potassium Phosphite 0+30+20	litre	8025							8025	44052
517	Potassium sulphate	kg	28975	35175	20275	7000	6875	27275	36950	162525	296325
655	PRiME	litre					84,5			84,5	84,5
537	Urea 46%	kg	32075	16650	11950	33958	27563	4760	8605,5	135561,5	255637
644	Wuxal Magnesium 4+0+0	litre	220,8					25		245,8	381,9
501	Zinc sulphate	litre	529	586802	589	748	2	274	227,775	589171,775	594459,185

ENVIRONMENTAL CLUSTERS

	Indoor crops										
2014 ROSE	m2	5230000	5230000	5230000	5230000	5230000	5230000	5230000	5230000		

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/01**

Valid: Period 8-2016 until Period 7-2017

Company name: Sher Ethiopia Plc. (total)

Version: 15-8-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
Indoor crops											
3014	ROSE par-mat	m2	15000	15000	15000	15000	15000	15000	15000		
	Subtotal		5245000	5245000	5245000	5245000	5245000	5245000	5245000		
Certified parental material											
661	MPS-ABC certif.parental mat. indoor	m2	5230000	5230000	5230000	5230000	5230000	5230000	5230000		

OVERVIEW RECORDED DATA

MPS company number: **802685/01**

Company name: Sher Ethiopia Plc. (total)

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
CROP PROTECTION AGENTS									
3927	Ab-gel	ml						350	350
3234	Actara	gram						2350	2350
3868	Addit	ml			9350	699200	281150	12330	1002030
4134	Afalon Flow	ml		9000	14700				23700
990673	Amblyseius / Neoseiulus californicus	number	11675000000	20850000000	9475000000	560000000	140000		42560140000
3302	Amino Gold	ml							
4133	Amisil	ml						211200	211200
4214	B-Wise 1.9 EC	ml							
3340	Chess 50 WG	gram		250500	778200	151700	305250	473200	1958850
3207	Chrystop groen 0.25%	gram	2000	1000	30000				33000
4121	Chryzopon Rose 0.1%	gram	12000	14500	14000	15000	12000		67500
4217	Chryzosan White 0.6%	gram							
4218	Chryzotek Beige 0.4%	gram							
3167	Collis	ml	845300	673000	113400	1113000	591600	813200	4149500
3397	Conquest 20 SL	ml	145000						145000
3226	Conserve	ml				600	9800	23800	34200
4064	Crop Guard 80	ml			13000	250000	590000	12337000	13190000
990384	Cryptolaemus montrouzieri	number	1011400						1011400
3367	Danisaraba 20 SC	ml						22000	22000
3115	Domark	ml		112500	300000		943800	257000	1613300
3117	Floramite 240 SC	ml	69100	122500	167000	304000	187700	150500	1000800
3141	Fostonic 80 WP	gram					51950		51950
4153	Fulvic 100	gram	3000000	1500	1500	8500			3011500
3359	Glyphogan	ml	11000						11000
3198	Golan (liquid)	ml	251000	803150	407550	286900	660600	642210	3051410
3023	Goldazim	ml	2776	2000	2000	3000		7920	17696
3174	Impulse	ml	1159700	2811800	2240400	1834550	1319450	1547500	10913400
4073	Impulse Extend	ml							
3175	Ippon	ml						6180	6180
4194	Kaligreen	gram							
3345	Kelpak	ml		34000	355000	32000	64000	100000	585000
3339	Lamdex 5 %	ml							
4144	Lecatech	gram							
4082	Linapower	ml						10710	10710
3988	Liquid Seal	ml	621100	15900					637000
4034	Luna Tranquility	ml		911600	800500	687600	62900	1739800	4202400
3026	Mancozeb	gram	697040	800440	168540	160740	1898940	3579670	7305370
3014	Match 50 EC	ml	315100	102800	577800	48600	175000	176500	1395800
3073	Meltatox 40 EC	ml	3051900	658800	143500	22200	100000	1399600	5376000

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/01**

Company name: Sher Ethiopia Plc. (total)

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
------	-------------	------	-------------	-------------	--------------	--------------	--------------	--------------	----------

CROP PROTECTION AGENTS (Continued)

3858	Movento OD 150	ml					300	1000	1300
3953	Neatness 25 EC	ml	27308	27308	27308	27308	27308	27308	163848
3077	Nimrod 25 EC	ml							
3249	Nomolt	ml	492000	36000				957750	1485750
4101	Optimus	ml	11000	240000	117300	1951005	5212950	6673590	14205845
3861	Pencol 100 EC	ml				6100	3122	130780	140002
4215	Pencoool 100 EC	ml							
990391	Phytoseiulus persimilis	number	2000000000	9550000000	7280000000	1200000	300000		17031500000
3245	Previcur Energy	ml	129000						129000
3120	Previcur N	ml		12300	176400	7700			196400
4018	Proove 20 SL	ml		2136400	2836000	1103000			6075400
3044	Proplant	ml			30000		27100		57100
3382	Prove 1.9 EC	ml		2136400	2836000		154000	159500	5285900
4216	Pymet 50 WG	gram							
3948	Regent 50 SC	ml	21600	8300	90000	27400	13500		160800
3208	Rhizopon AA	gram							
4043	Rhizopon AA Powder 1 %	gram							
4185	Rift 20% SL	ml							
3183	Rizolex 50 WP	gram			19250	5000		60	24310
3944	RO 208	ml	22550	73200	56600	36200			188550
3267	Rooting hormone 0.4%	gram	18000	14500		14000	20000	33500	100000
3268	Rooting hormone 0.6%	gram			319900				319900
3273	Round Up	ml		339000	2000	30000	277000	415100	1063100
3030	Rovral 250 flow	ml	3000	2000	3000	3000		5020	16020
3271	Runner	ml							
4054	Siliconi	ml		1604800	191000	2119200	606100	3462830	7983930
4098	Solucion	ml			260000		1612050		1872050
3127	Switch 62.5 WG	gram	45600	30900		10000		1782	88282
3378	Teppeki	gram	5000	30150	5400	78800	234680	212300	566330
3187	Tracer 480 SC	ml		13500		215650	30700	173300	433150
4005	Triam-P	gram							
3388	Tribute EC	ml			278600		109800		388400
3389	Ultimatum	ml						5800	5800
3218	Victory 72 WP	gram							
4197	Vidi Fortum	ml							
4196	Vidi Parva	ml							
4195	Vidi Terrum	ml							

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/01**

Company name: Sher Ethiopia Plc. (total)

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
------	-------------	------	-------------	-------------	--------------	--------------	--------------	--------------	----------

ENERGY

4	Electricity usage (Total)	kWh				901405	478010		1379415
54	Diesel oil/fuel	litre				31500	21750		53250
6	Green Electricity Usage	kWh				901405	478010		1379415

FERTILIZERS

572	Ammonium Sulphate (21%)	kg			600				600
524	Borax (Boric Acid)	kg	2157	1582	2412,5	9650,5	1682,25	1616,25	19100,5
504	Calcium nitrate	litre			750	525			1275
503	Calcium nitrate (nitrate of Lime)	kg	21375	258125	229000	196912,5	225190	231545	1162147,5
506	Copper sulphate	kg	563	659,5	632	580,75	593,35	582,57	3611,17
602	Eco Green	litre	100	300	225	25			650
544	Eddha iron 6%	kg	9923	11800	10486	8616,7	11075	10149,34	62050,04
525	Fe DTPA 6%	kg	7785,5	8757,24	8742,5	6873	7046,5	75567,5	114772,24
521	Magnesium sulphate	kg	204425	185550	181381	160725	131125	112425	975631
513	Manganese sulphate	kg	2688	2716	2476,5	13282,25	1684,95	1727,75	24575,45
529	Mono-Ammonium Phosphate (MAP) 12+61+0	kg	18375	23920,5	7880	10040,5	28275	27200	115691
514	Mono-potassium phosphate 0+52.29+33.98	kg	14587		13676	21368	17796	17252,5	84679,5
634	Multicote 4 15+7+15(+2) +TE	kg					100		100
651	Multicote 4 17+17+17	kg							
581	Multi-K	kg	25	25	75			100	225
534	Natriummolybdaat	kg	544	607	606,75	546	569,25	536,25	3409,25
550	Nitric Acid 54%	litre		45765			22785		68550
551	Nitric Acid 68%	litre	23655		37987	11305		30040	102987
515	Potassium nitrate 13+0+45	kg			200	150	325	300	975
533	Potassium Nitrate 13+0+46	kg	88425	85725	92075	107600	78650	55950	508425
626	Potassium Phosphite 0+30+20	litre	17725	17062		440		800	36027
517	Potassium sulphate	kg	23650	39000	34400		11475	25275	133800
655	PRiME	litre							
537	Urea 46%	kg	7912	19917	21632,5	12333	29512	28769	120075,5
644	Wuxal Magnesium 4+0+0	litre				70	51	15,1	136,1
501	Zinc sulphate	litre	1080	1208	1199	572,75	601,5	626,16	5287,41

ENVIRONMENTAL CLUSTERS

	Indoor crops							
2014 ROSE	m2	5170000	5182000	5194000	5206000	5218000	5230000	

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/01**

Valid: Period 8-2016 until Period 7-2017

Company name: Sher Ethiopia Plc. (total)

Version: 15-8-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
Indoor crops									
3014	ROSE par-mat	m2	15000	15000	15000	15000	15000	15000	
	Subtotal		5185000	5197000	5209000	5221000	5233000	5245000	
Certified parental material									
661	MPS-ABC certif.parental mat. indoor	m2	5170000	5182000	5194000	5206000	5218000	5230000	

CO2 Indicator

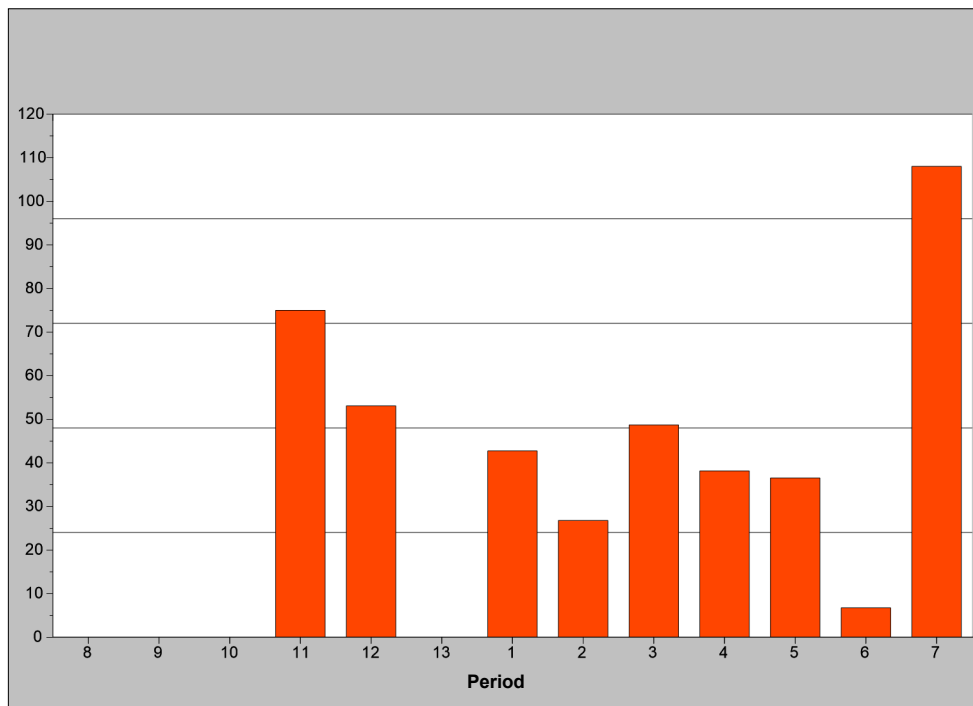
MPS company number: **802685/01**
 Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017
 Version: 15-8-2017

Review CO2-emission per energy source per year (x 1000 kg)

Code		CO2 production (x 1000)
54	Diesel oil/fuel	490
4	Electricity usage (Total)	49
6	Green Electricity Usage	-103
Total		436

Review CO2-emission per period (x 1000 kg)



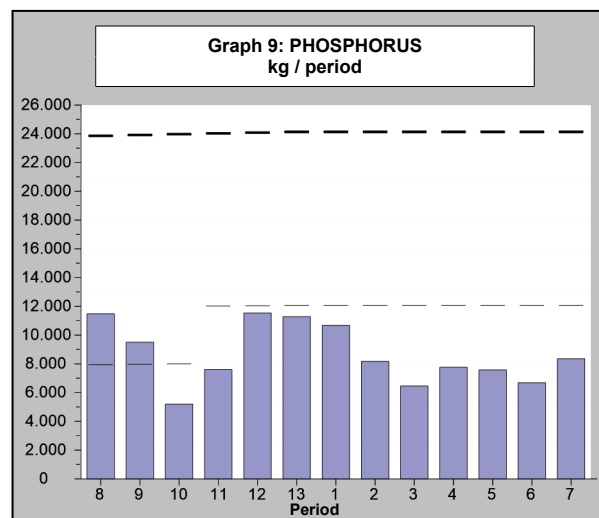
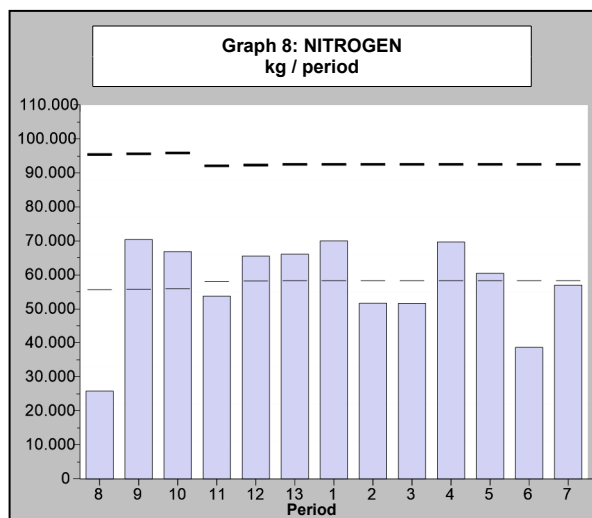
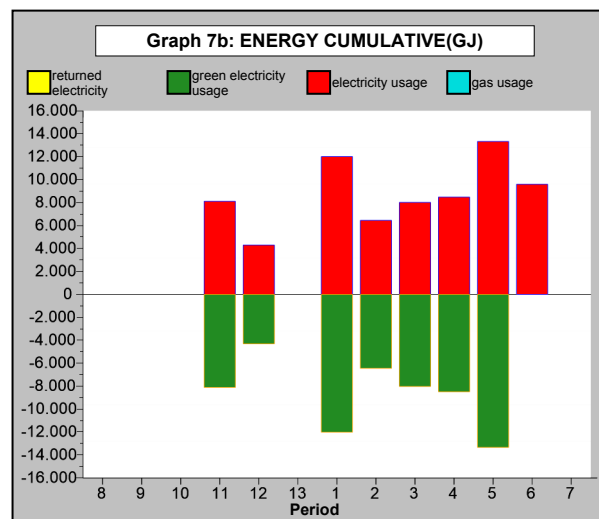
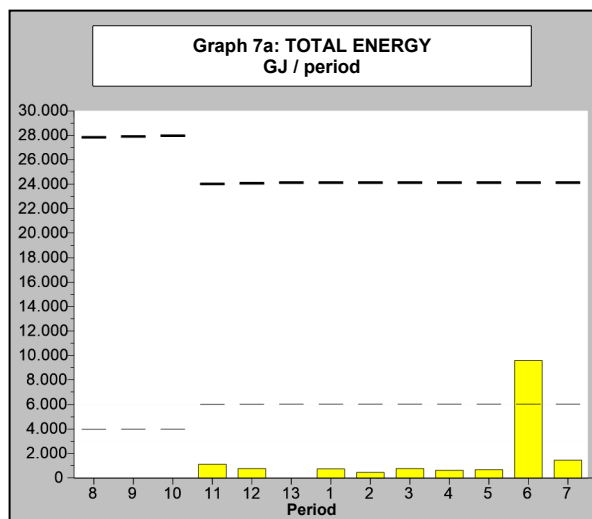
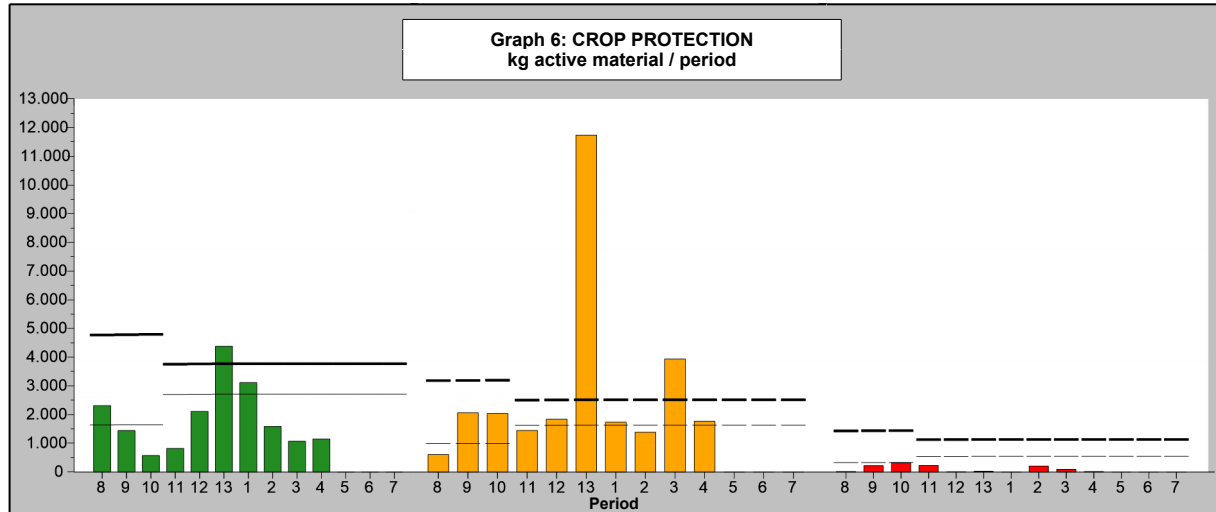
Disclaimer: the purpose of the above mentioned table and graphics is to give an insight in the CO2-emission on company level. The CO2 emission has been based on the energy consumption in GJ and the internationally accepted arithmetic rules. The calculation of the quantity in GJ is based on the calculation system of MPS for the fuel used by the company and the electricity and heating that has been bought and sold. The review serves only as a management tool. No rights can be derived. It is not allowed to use this review for other purposes. In cooperation with (inter)national stakeholders and research organizations MPS is working on further developments concerning CO2. We mainly focus on CO2 emission in the transport chain and the CO2 emission per physical production.

QUALIFICATION AND PERIOD GRAPHS

MPS company number: **802685/11**
Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017
Version: 15-8-2017

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



MPS-Overview Composition of Qualification

MPS company number: **802685/11**
Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017
Version: 15-8-2017

Overview Environmental zones

Period	8	9	10	11	12	13	1	2	3	4	5	6	7
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 unit use of active substance		
			Green	Amber	Red
Actara	●	thiamethoxam		0,294	
Addit	○	vegetable oil			
Afalon Flow	●	linuron			10,665
Amino Gold	○	siliconen			
Amisil	○	heptamethyltrisiloxane			
B-Wise 1.9 EC	●	emamectin benzoate		0,009	
Chess 50 WG	●	pymetrozine		1240,776	
Chrystop groen 0.25%	●	indolylbutyric acid	0,075		
Collis	●	boscalid	1262,048		
	●	kresoxim-methyl	631,024		
Conquest 20 SL	●	acetamiprid	29,000		
Conserve	●	spinosad	11,711		
Crop Guard 80	●	furfural		15736,659	
Danisaraba 20 SC	●	cyflumetofen		4,400	
Domark	●	tetraconazole		1217,600	
Floramite 240 SC	●	bifenazate	379,070		
Fostonic 80 WP	●	fosetyl-aluminium	41,560		
Fulvic 100	○	humic acids			
Glyphogan	●	glyphosate		3,960	
Golan (liquid)	●	acetamiprid	702,544		
Goldazim	●	carbendazim		1,980	
Impulse	●	spiroxamine		7305,088	
Impulse Extend	●	spiroxamine		274,377	
Ippon	●	iprodione			1,545
Kaligreen	●	potassium bicarbonate	1,233		
Kelpak	○	seaweed extract			
Lamdex 5 %	●	lambda-cyhalothrin		4,501	
Lecatech	○	fungus			
Linapower	○	bacillus subtilis			
	○	humic acids			
Luna Tranquility	●	fluopyram	648,253		
	●	pyrimethanil		1939,023	
Mancozeb	●	mancozeb	9032,654		
Match 50 EC	●	lufenuron			124,749
Meltatox 40 EC	●	dodemorph	4212,070		
Movento OD 150	●	spirotetramat	87,578		
Neatness 25 EC	●	bupirimate		20,481	
Nimrod 25 EC	●	bupirimate		0,026	
Nomolt	●	teflubenzuron	292,589		
Optimus	○	plant extract			
Pencol 100 EC	●	penconazole			148,010
Previcur Energy	●	fosetyl-aluminium	39,990		
	●	propamocarb	68,370		
Previcur N	●	propamocarb hydrochloride	141,883		
Proove 20 SL	●	imidacloprid			838,654
Proplant	●	propamocarb hydrochloride	30,396		
Prove 1.9 EC	●	emamectin benzoate		147,157	
Pymet 50 WG	●	pymetrozine			

MPS-Overview Composition of Qualification

MPS company number: **802685/11**
 Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017
 Version: 15-8-2017

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company unit use of active substance		
			Green	Amber	Red
Regent 50 SC	●	fipronil			8,207
Rift 20% SL	●	acetamiprid	11,668		
Rizolex 50 WP	●	tolclofos-methyl		12,140	
RO 208	○	heptamethyltrisiloxane			
Rooting hormone 0.4%	●	indolylbutyric acid	0,067		
Rooting hormone 0.6%	●	indolylbutyric acid	1,919		
Round Up	●	glyphosate		485,686	
Rovral 250 flow	●	iprodione			1,003
Runner	●	methoxyfenozide	4,200		
Siliconi	○	wetting/sticker agents other			
Solucion	○	wetting/sticker agents other			
Switch 62.5 WG	●	cyprodinil		39,992	
	●	fludioxonil	27,022		
Teppeki	●	flonicamid	684,997		
Tracer 480 SC	●	spinosad	222,528		
Trianum-P	○	trichoderma harzianum			
Tribute EC	●	spiroxamine		124,550	
Ultimatum	○	heptamethyltrisiloxane			
Victory 72 WP	●	mancozeb	1,234		
	●	metalaxyl		0,154	
Vidi Fortum	○	plant extract			
Vidi Parva	○	plant extract			
Vidi Terrum	○	plant extract			
Annual company unit use of active substance			18565,683	28558,852	1132,832

OVERVIEW RECORDED DATA

MPS company number: **802685/11**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
FORM RECEIVED			yes	yes	yes	yes	yes	yes	yes		
CROP PROTECTION AGENTS											
3927	Ab-gel	ml	350							350	700
3234	Actara	gram									1175
3868	Addit	ml	87200	88600		145000	18	301		321119	1323149
4134	Afalon Flow	ml									23700
990673	Amblyseius / Neoseiulus californicus	number									42560140000
3302	Amino Gold	ml						114	31	145	145
4133	Amisil	ml				220000				220000	325600
4214	B-Wise 1.9 EC	ml					244	176	77	497	497
3340	Chess 50 WG	gram	83100	299500	124100	16000			1	522701	2481551
3207	Chrystop groen 0.25%	gram									30000
3167	Collis	ml	592400	458100	620410	488290	162	935	443	2160740	6310240
3397	Conquest 20 SL	ml									145000
3226	Conserve	ml		29000	34200		33	5	154	63392	97591
4064	Crop Guard 80	ml	1460000	210000	3590000	1232000	144	1600	80	6493824	19670824
990384	Cryptolaemus montrouzieri	number									1011400
3367	Danisaraba 20 SC	ml									22000
3115	Domark	ml	454400	917800	36000	22500				1430700	3044000
3117	Floramite 240 SC	ml	62300	150000	235300	130500	344	189	28	578661	1579460
3141	Fostonic 80 WP	gram									51950
4153	Fulvic 100	gram									3011500
3359	Glyphogan	ml									11000
3198	Golan (liquid)	ml	122900	10450	10620					143970	3193380
3023	Goldazim	ml									3960
3174	Impulse	ml	482650	1304800	1905610		2092	840	784	3696776	14610176
4073	Impulse Extend	ml				914590				914590	914590
3175	Ippon	ml									3090
4194	Kaligreen	gram					76	440	989	1505	1505
3345	Kelpak	ml	32000	8000			75		290	40365	625365
3339	Lamdex 5 %	ml			40000	50000	10			90010	90010
4144	Lecatech	gram				2000				2000	2000
4082	Linapower	ml	88100	200000						288100	298810
3988	Liquid Seal	ml							4	4	637004
4034	Luna Tranquility	ml	33000	83500	32500	1383500	279	659	915	1534353	5736753
3026	Mancozeb	gram	2909500	970740	160000	45500	233	1161	33	4087167	11290817
3014	Match 50 EC	ml	44500	381600	477200	195400	45	377	60	1099182	2494982
3073	Meltatox 40 EC	ml	1316400	1332800	1322200	1175800	2166	2205	2603	5154174	10530174
3858	Movento OD 150	ml		131175	314575	137025	71		204	583050	583850

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/11**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
------	-------------	------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	----------	------------

CROP PROTECTION AGENTS (Continued)

3953	Neatness 25 EC	ml									81923
3077	Nimrod 25 EC	ml						103		103	103
3249	Nomolt	ml		3500		461300	23		20	464843	1950593
4101	Optimus	ml	600000	881750	339845	1696000	7020	6064	93	3530772	17736617
3861	Pencol 100 EC	ml	170	623000	679800	36000	356	255	518	1340099	1480102
990391	Phytoseiulus persimilis	number									17031500000
3245	Previcur Energy	ml									129000
3120	Previcur N	ml					114			114	196514
4018	Proove 20 SL	ml		603600			441	29		604070	4193271
3044	Proplant	ml									42100
3382	Prove 1.9 EC	ml	150500		1293300	934750				2378550	7664450
4216	Pymet 50 WG	gram						205	433	638	639
3948	Regent 50 SC	ml				5000				5000	165800
4185	Rift 20% SL	ml			41000	15000	737	1361	241	58339	58339
3183	Rizolex 50 WP	gram									24280
3944	RO 208	ml									188550
3267	Rooting hormone 0.4%	gram									16750
3268	Rooting hormone 0.6%	gram									319900
3273	Round Up	ml	227000	50000		9000	15	12		286027	1349127
3030	Rovral 250 flow	ml									4010
3271	Runner	ml		7500	5000	5000				17500	17500
4054	Siliconi	ml	1128550	741900	920200	699950	983	1515	1181	3494279	11478210
4098	Solucion	ml									1872050
3127	Switch 62.5 WG	gram	19800						4	19804	108086
3378	Teppeki	gram	61625	128250	207000	404450	1240	666	433	803664	1369995
3187	Tracer 480 SC	ml				29780	670			30450	463600
4005	Triam-P	gram		6750	6750	25250	17	16	8	38791	38791
3388	Tribute EC	ml									249100
3389	Ultimatum	ml									2900
3218	Victory 72 WP	gram						279	1649	1928	1928
4197	Vidi Fortum	ml					382	33	36	451	452
4196	Vidi Parva	ml					20	18	18	56	57
4195	Vidi Terrum	ml					20	18	18	56	57

WATER

21	Total irrigation	m3	9219	9276	10285	10903	10419	11658	13042	74802	130919
22	Drainage water disposed	m3			603	744				1347	1347
23	Reused drainage water	m3	522	542			853	794	982	3693	7750

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/11**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
------	-------------	------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	----------	------------

ENERGY

4	Electricity usage (Total)	kWh	1334734	716804	891011	942139	1481001	1066001		6431690	7811105
54	Diesel oil/fuel	litre	20750	12600	21500	17673	18900		40950	132373	185623
6	Green Electricity Usage	kWh	1334734	716804	891011	942139	1481001			5365689	6745104

FERTILIZERS

524	Borax (Boric Acid)	kg	1959	2143	1662	1845	1722	1066,4	1117,8	11515,2	22600,7
503	Calcium nitrate (nitrate of Lime)	kg	220532	186430	192875	218631	212138	186295	218142,5	1435043,5	2593913,5
506	Copper sulphate	kg	727,5	611	562	600	563	272,6	240,375	3576,475	7183,145
602	Eco Green	litre									650
544	Eddha iron 6%	kg	9070	9158	8248	11265	13340	9192	7987	68260	130205,04
525	Fe DTPA 6%	kg	7172	7152	6373	6372	7896	5353,5	10015,75	50334,25	165020,49
521	Magnesium sulphate	kg	110275	99635	119650	188070	158918	102920	174390,5	953858,5	1928189,5
513	Manganese sulphate	kg	232,5	2142,68	1580	1845	1758	1062,497	1128,8	9749,477	34302,977
529	Mono-Ammonium Phosphate (MAP) 12+61+0	kg	26200	17350	12575	14125	13700	12100	14912	110962	226428
514	Mono-potassium phosphate 0+52.29+33.98	kg	9800	15600	13675	17550	17200	15150	19267	108242	192746,5
651	Multicote 4 17+17+17	kg					200	200		400	400
581	Multi-K	kg		300	1090	209				1599	1824
534	Natriummolybdaat	kg	582,5	603	545	624	562	174,908	36,523	3127,931	6530,181
550	Nitric Acid 54%	litre			18935		24045			42980	111530
551	Nitric Acid 68%	litre	49280	22260		41370		1820	51349	166079	268051
533	Potassium Nitrate 13+0+46	kg	52800	61675	88775	70770	72150	44000	45325	435495	943920
626	Potassium Phosphite 0+30+20	litre	8025							8025	44052
517	Potassium sulphate	kg	28925	35100	20250	7000	6875	27200	36950	162300	295900
655	PRiME	litre					84,5			84,5	84,5
537	Urea 46%	kg	32025	16600	11950	33908	27513	4760	8605,5	135361,5	254787
644	Wuxal Magnesium 4+0+0	litre	220,8					25		245,8	381,9
501	Zinc sulphate	litre	527,5	586800	587	746		272,9	227,775	589161,175	594439,085

ENVIRONMENTAL CLUSTERS

Indoor crops											
2014 ROSE	m2	5230000	5230000	5230000	5230000	5230000	5230000	5230000	5230000		
Subtotal		5230000	5230000	5230000	5230000	5230000	5230000	5230000	5230000		

Certified parental material

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/11**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
661	Certified parental material MPS-ABC certif.parental mat. indoor	m2	5230000	5230000	5230000	5230000	5230000	5230000	5230000		

GENERAL INFORMATION FORM

MPS-Mind

Surface water

3900 What is the minimum distance of these fields to the nearest surface water? < 250 metres / < 820 feet

Cover

3910 Does the surface of covered crops exceed 95% of this part registration? Yes

Slope

3902 What is the maximum slope of a field in this part registration? 3 - 10%

Leaching to groundwater

3903 Do you grow more than 95% of your crops in a closed (recirculation) system, achieving less than 3% loss of drainwater? No

3904 What is the minimum depth of the groundwater, taken over all your fields? 3 - 15 metres / 9,8 - 49,2 feet

3905 What is the lowest percentage of organic matter of your soil, taken over all your fields of this part registration? 3 - 6%

3906 What is the average precipitation per annum? (if unknown, please leave blank) 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? (if unknown, please leave blank) > 20 degrees C / 68 degrees F

Water management

45 Is rainwater being collected? 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 Is organic waste being processed in a responsible way? Yes

42 Is paper being processed in a responsible way? Yes

43 Is plastic being processed in a responsible way? Yes

44 Is chemical waste being processed in a responsible way? Yes

OVERVIEW RECORDED DATA

MPS company number: **802685/11**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
FORM RECEIVED			yes	yes	yes	yes	yes	yes	
CROP PROTECTION AGENTS									
3927	Ab-gel	ml						350	350
3234	Actara	gram						1175	1175
3868	Addit	ml			9350	699200	281150	12330	1002030
4134	Afalon Flow	ml		9000	14700				23700
990673	Amblyseius / Neoseiulus californicus	number	11675000000	20850000000	9475000000	560000000	140000		42560140000
3302	Amino Gold	ml							
4133	Amisil	ml						105600	105600
4214	B-Wise 1.9 EC	ml							
3340	Chess 50 WG	gram		250500	778200	151700	305250	473200	1958850
3207	Chrystop groen 0.25%	gram			30000				30000
3167	Collis	ml	845300	673000	113400	1113000	591600	813200	4149500
3397	Conquest 20 SL	ml	145000						145000
3226	Conserve	ml				600	9800	23800	34200
4064	Crop Guard 80	ml				250000	590000	12337000	13177000
990384	Cryptolaemus montrouzieri	number	1011400						1011400
3367	Danisaraba 20 SC	ml						22000	22000
3115	Domark	ml		112500	300000		943800	257000	1613300
3117	Floramite 240 SC	ml	69100	122500	167000	304000	187700	150500	1000800
3141	Fostonic 80 WP	gram					51950		51950
4153	Fulvic 100	gram	3000000	1500	1500	8500			3011500
3359	Glyphogan	ml	11000						11000
3198	Golan (liquid)	ml	251000	803150	407550	286900	658600	642210	3049410
3023	Goldazim	ml						3960	3960
3174	Impulse	ml	1159700	2811800	2240400	1834550	1319450	1547500	10913400
4073	Impulse Extend	ml							
3175	Ippon	ml						3090	3090
4194	Kaligreen	gram							
3345	Kelpak	ml		34000	355000	32000	64000	100000	585000
3339	Lamdex 5 %	ml							
4144	Lecatech	gram							
4082	Linapower	ml						10710	10710
3988	Liquid Seal	ml	621100	15900					637000
4034	Luna Tranquility	ml		911600	800500	687600	62900	1739800	4202400
3026	Mancozeb	gram	676800	780040	147900	141040	1878200	3579670	7203650
3014	Match 50 EC	ml	315100	102800	577800	48600	175000	176500	1395800
3073	Meltatox 40 EC	ml	3051900	658800	143500	22200	100000	1399600	5376000
3858	Movento OD 150	ml					300	500	800

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/11**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
------	-------------	------	-------------	-------------	--------------	--------------	--------------	--------------	----------

CROP PROTECTION AGENTS (Continued)

3953	Neatness 25 EC	ml	13654	13654	13654	13654	13654	13654	81924
3077	Nimrod 25 EC	ml							
3249	Nomolt	ml	492000	36000				957750	1485750
4101	Optimus	ml	11000	240000	117300	1951005	5212950	6673590	14205845
3861	Pencol 100 EC	ml				6100	3122	130780	140002
990391	Phytoseiulus persimilis	number	200000000	9550000000	7280000000	1200000	300000		17031500000
3245	Previcur Energy	ml	129000						129000
3120	Previcur N	ml		12300	176400	7700			196400
4018	Proove 20 SL	ml		1068200	1418000	1103000			3589200
3044	Proplant	ml			15000		27100		42100
3382	Prove 1.9 EC	ml		2136400	2836000		154000	159500	5285900
4216	Pymet 50 WG	gram							
3948	Regent 50 SC	ml	21600	8300	90000	27400	13500		160800
4185	Rift 20% SL	ml							
3183	Rizolex 50 WP	gram			19250	5000		30	24280
3944	RO 208	ml	22550	73200	56600	36200			188550
3267	Rooting hormone 0.4%	gram						16750	16750
3268	Rooting hormone 0.6%	gram			319900				319900
3273	Round Up	ml		339000	2000	30000	277000	415100	1063100
3030	Rovral 250 flow	ml			1500			2510	4010
3271	Runner	ml							
4054	Siliconi	ml		1604800	191000	2119200	606100	3462830	7983930
4098	Solucion	ml			260000		1612050		1872050
3127	Switch 62.5 WG	gram	45600	30900		10000		1782	88282
3378	Teppeki	gram	5000	30150	5400	78800	234680	212300	566330
3187	Tracer 480 SC	ml		13500		215650	30700	173300	433150
4005	Trianum-P	gram							
3388	Tribute EC	ml			139300		109800		249100
3389	Ultimatum	ml						2900	2900
3218	Victory 72 WP	gram							
4197	Vidi Fortum	ml							
4196	Vidi Parva	ml							
4195	Vidi Terrum	ml							

WATER

21	Total irrigation	m3	8654	6431	9390	10518	10588	10536	56117
22	Drainage water disposed	m3							
23	Reused drainage water	m3	1963	2093					4056

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/11**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
------	-------------	------	-------------	-------------	--------------	--------------	--------------	--------------	----------

ENERGY

4	Electricity usage (Total)	kWh				901405	478010		1379415
54	Diesel oil/fuel	litre				31500	21750		53250
6	Green Electricity Usage	kWh				901405	478010		1379415

FERTILIZERS

524	Borax (Boric Acid)	kg	2157	1582	2404,5	1650,5	1678,5	1613	11085,5
503	Calcium nitrate (nitrate of Lime)	kg	20475	257325	229000	196910	224415	230745	1158870
506	Copper sulphate	kg	563	659,5	630	580,75	592,1	581,32	3606,67
602	Eco Green	litre	100	300	225	25			650
544	Eddha iron 6%	kg	9923	11800	10453	8582,7	11053	10133,34	61945,04
525	Fe DTPA 6%	kg	7785,5	8757,24	8714,5	6842	7031,5	75555,5	114686,24
521	Magnesium sulphate	kg	204425	185550	181381	160275	130675	112025	974331
513	Manganese sulphate	kg	2688	2716	2468,5	13275,25	1681,25	1724,5	24553,5
529	Mono-Ammonium Phosphate (MAP) 12+61+0	kg	18375	23920,5	7855	9990,5	28200	27125	115466
514	Mono-potassium phosphate 0+52.29+33.98	kg	14587		13651	21343	17721	17202,5	84504,5
651	Multicote 4 17+17+17	kg							
581	Multi-K	kg	25	25	75			100	225
534	Natriummolybdaat	kg	544	607	604,75	543,5	568	535	3402,25
550	Nitric Acid 54%	litre		45765			22785		68550
551	Nitric Acid 68%	litre	23655		37917	10920		29480	101972
533	Potassium Nitrate 13+0+46	kg	88425	85725	92075	107600	78650	55950	508425
626	Potassium Phosphite 0+30+20	litre	17725	17062		440		800	36027
517	Potassium sulphate	kg	23650	39000	34300		11475	25175	133600
655	PRiME	litre							
537	Urea 46%	kg	7912	19817	21582,5	12183	29312	28619	119425,5
644	Wuxal Magnesium 4+0+0	litre				70	51	15,1	136,1
501	Zinc sulphate	litre	1080	1208	1195	569,75	600,25	624,91	5277,91

ENVIRONMENTAL CLUSTERS

Indoor crops									
2014 ROSE	m2	5170000	5182000	5194000	5206000	5218000	5230000		
Subtotal		5170000	5182000	5194000	5206000	5218000	5230000		
Certified parental material									

OVERVIEW RECORDED DATA (Continued)

MPS company number: 802685/11
Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017
Version: 15-8-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
661	Certified parental material MPS-ABC certif.parental mat. indoor	m2	5170000	5182000	5194000	5206000	5218000	5230000	

CO2 Indicator

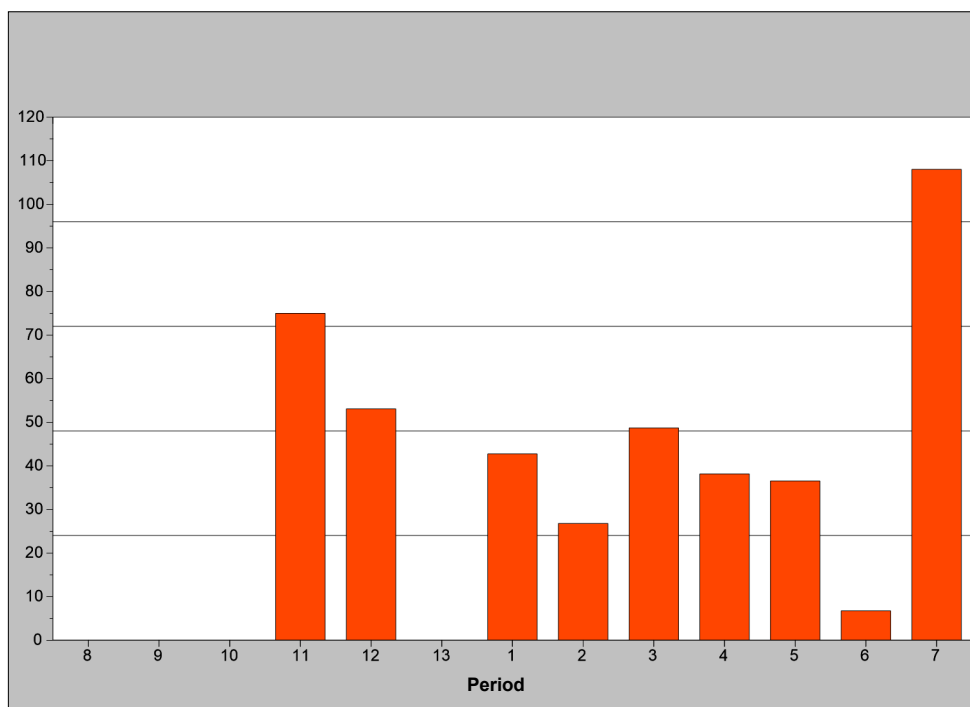
MPS company number: **802685/11**
 Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017
 Version: 15-8-2017

Review CO2-emission per energy source per year (x 1000 kg)

Code		CO2 production (x 1000)
54	Diesel oil/fuel	490
4	Electricity usage (Total)	49
6	Green Electricity Usage	-103
Total		436

Review CO2-emission per period (x 1000 kg)



Disclaimer: the purpose of the above mentioned table and graphics is to give an insight in the CO2-emission on company level. The CO2 emission has been based on the energy consumption in GJ and the internationally accepted arithmetic rules. The calculation of the quantity in GJ is based on the calculation system of MPS for the fuel used by the company and the electricity and heating that has been bought and sold. The review serves only as a management tool. No rights can be derived. It is not allowed to use this review for other purposes. In cooperation with (inter)national stakeholders and research organizations MPS is working on further developments concerning CO2. We mainly focus on CO2 emission in the transport chain and the CO2 emission per physical production.

Valid: Period 8-2016 until Period 7-2017
Version: 15-8-2017

Graph 9: PHOSPHORUS
kg / period

Period	Phosphorus (kg)
8	0
9	0
10	12
11	19
12	40
13	31
1	25
2	31
3	43
4	61
5	37
6	24
7	0

MPS-Overview Composition of Qualification

MPS company number: **802685/12**
 Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017
 Version: 15-8-2017

Overview Environmental zones

Period	8	9	10	11	12	13	1	2	3	4	5	6	7
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 unit use of active substance		
			Green	Amber	Red
Actara	●	thiamethoxam		0,294	
Amisil	○	heptamethyltrisiloxane			
Chrystop groen 0.25%	●	indolylbutyric acid	0,008		
Chryzopon Rose 0.1%	●	indolylbutyric acid	0,144		
Chryzosan White 0.6%	●	indolylbutyric acid			
Chryzotek Beige 0.4%	●	indolylbutyric acid			
Crop Guard 80	●	furfural		10,400	
Golan (liquid)	●	acetamiprid	0,440		
Goldazim	●	carbendazim		1009,870	
Ippon	●	iprodione			1,545
Mancozeb	●	mancozeb	133,206		
Movento OD 150	●	spirotetramat	0,075		
Neatness 25 EC	●	bupirimate		20,481	
Pencoazol 100 EC	●	penconazole			
Previcur N	●	propamocarb hydrochloride	0,001		
Proove 20 SL	●	imidacloprid			497,240
Proplant	●	propamocarb hydrochloride	10,830		
Rhizopon AA	●	indolylbutyric acid	0,013		
Rhizopon AA Powder 1 %	●	indolylbutyric acid	0,001		
Rizolex 50 WP	●	tolclofos-methyl		0,016	
Rooting hormone 0.4%	●	indolylbutyric acid	0,635		
Rooting hormone 0.6%	●	indolylbutyric acid	0,036		
Rovral 250 flow	●	iprodione			5,150
Switch 62.5 WG	●	cyprodinil		2,198	
	●	fludioxonil	1,485		
Tribute EC	●	spiroxamine		69,650	
Ultimatum	○	heptamethyltrisiloxane			
Annual company unit use of active substance			146,874	1112,909	503,935

OVERVIEW RECORDED DATA

MPS company number: **802685/12**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
------	-------------	------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	----------	------------

FORM RECEIVED

yes yes yes yes yes yes yes yes

CROP PROTECTION AGENTS

3234 Actara	gram										1175
4133 Amisil	ml										105600
3207 Chrystop groen 0.25%	gram										3000
4121 Chryzopon Rose 0.1%	gram	17000	28000	15000	16000			5		76005	143505
4217 Chryzosan White 0.6%	gram						22			22	22
4218 Chryzotek Beige 0.4%	gram						24			24	24
4064 Crop Guard 80	ml										13000
3198 Golan (liquid)	ml										2000
3023 Goldazim	ml	2000000	3000	2000	1000			2	1	2006003	2019739
3175 Ippon	ml										3090
3026 Mancozeb	gram	20460	28116	12900	3280			13	19	64788	166507
3858 Movento OD 150	ml										500
3953 Neatness 25 EC	ml										81923
4215 Pencoool 100 EC	ml						356			356	356
3120 Previcur N	ml								1	1	1
4018 Proove 20 SL	ml										2486200
3044 Proplant	ml										15000
3208 Rhizopon AA	gram						25	18	24	67	67
4043 Rhizopon AA Powder 1 %	gram						28	19	10	57	57
3183 Rizolex 50 WP	gram								1	1	31
3267 Rooting hormone 0.4%	gram	22000	21550	18000	14000					75550	158800
3268 Rooting hormone 0.6%	gram		4000	2000						6000	6000
3030 Rovral 250 flow	ml	2000	3000	2585	1000	1	1		1	8588	20598
3127 Switch 62.5 WG	gram	2970			2077			1	891	5939	5939
3388 Tribute EC	ml										139300
3389 Ultimatum	ml										2900

FERTILIZERS

572 Ammonium Sulphate (21%)	kg										600
524 Borax (Boric Acid)	kg	3,5	4	3	3	4		4		21,5	8036,5
504 Calcium nitrate	litre	600	600	725	800	800		800		4325	5600
503 Calcium nitrate (nitrate of Lime)	kg					2				2	3279,5
506 Copper sulphate	kg	1,5	2	2		2		1,1		8,6	13,1
544 Eddha iron 6%	kg	16	18	15	15	20		35		119	224
525 Fe DTPA 6%	kg	12	14	12	12	16		22		88	174
521 Magnesium sulphate	kg	300	600	400	650	600		600		3150	4450
513 Manganese sulphate	kg	3,5	4	3	3	4		4		21,5	43,45

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/12**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
------	-------------	------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	----------	------------

FERTILIZERS (Continued)

529	Mono-Ammonium Phosphate (MAP) 12+61+0	kg	75	75	100	125	75	50		500	725
514	Mono-potassium phosphate 0+52.29+33.98	kg	25	50	75	125	75	50		400	575
634	Multicote 4 15+7+15(+2) +TE	kg									100
534	Natriummolybdaat	kg	1,5	2	2	2	2	608		617,5	624,5
551	Nitric Acid 68%	litre	420	140	70	315				945	1960
515	Potassium nitrate 13+0+45	kg	225	225	325	450	300	300		1825	2800
517	Potassium sulphate	kg	50	75	25			75		225	425
537	Urea 46%	kg	50	50		50	50			200	850
501	Zinc sulphate	litre	1,5	2	2	2	2	1,1		10,6	20,1

ENVIRONMENTAL CLUSTERS

Indoor crops											
3014	ROSE par-mat	m2	15000	15000	15000	15000	15000	15000	15000		
Subtotal			15000	15000	15000	15000	15000	15000	15000		

GENERAL INFORMATION FORM

MPS-Mind

Surface water

3900 What is the minimum distance of these fields to the nearest surface water? < 250 metres / < 820 feet

Cover

3910 Does the surface of covered crops exceed 95% of this part registration? Yes

Slope

3902 What is the maximum slope of a field in this part registration? flat

Leaching to groundwater

3903 Do you grow more than 95% of your crops in a closed (recirculation) system, achieving less than 3% loss of drainwater? No

3904 What is the minimum depth of the groundwater, taken over all your fields? >= 15 metres / >= 49,2 feet

3905 What is the lowest percentage of organic matter of your soil, taken over all your fields of this part registration? < 1,5%

3906 What is the average precipitation per annum? (if unknown, please leave blank) < 600 mm annually / < 23 inch annual

3907 How many months per year may be regarded as exceptionally dry (less than 2% of the annual precipitation)? > 6 months

3908 What is the average day and night temperature over a whole year? (if unknown, please leave blank) < 20 degrees C / 68 degrees F

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/12**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

GENERAL INFORMATION FORM

Water management

45	Is rainwater being collected?	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	Is organic waste being processed in a responsible way?	Yes
42	Is paper being processed in a responsible way?	Yes
43	Is plastic being processed in a responsible way?	Yes
44	Is chemical waste being processed in a responsible way?	Yes

OVERVIEW RECORDED DATA

MPS company number: **802685/12**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
------	-------------	------	-------------	-------------	--------------	--------------	--------------	--------------	----------

FORM RECEIVED

yes yes yes yes yes yes

CROP PROTECTION AGENTS

3234 Actara	gram							1175	1175
4133 Amisil	ml							105600	105600
3207 Chrystop groen 0.25%	gram	2000	1000						3000
4121 Chryzopon Rose 0.1%	gram	12000	14500	14000	15000	12000			67500
4217 Chryzosan White 0.6%	gram								
4218 Chryzotek Beige 0.4%	gram								
4064 Crop Guard 80	ml			13000					13000
3198 Golan (liquid)	ml					2000			2000
3023 Goldazim	ml	2776	2000	2000	3000		3960		13736
3175 Ippon	ml						3090		3090
3026 Mancozeb	gram	20240	20400	20640	19700	20740			101720
3858 Movento OD 150	ml						500		500
3953 Neatness 25 EC	ml	13654	13654	13654	13654	13654	13654		81924
4215 Pencoool 100 EC	ml								
3120 Previcur N	ml								
4018 Proove 20 SL	ml		1068200	1418000					2486200
3044 Proplant	ml			15000					15000
3208 Rhizopon AA	gram								
4043 Rhizopon AA Powder 1 %	gram								
3183 Rizolex 50 WP	gram						30		30
3267 Rooting hormone 0.4%	gram	18000	14500		14000	20000	16750		83250
3268 Rooting hormone 0.6%	gram								
3030 Rovral 250 flow	ml	3000	2000	1500	3000		2510		12010
3127 Switch 62.5 WG	gram								
3388 Tribute EC	ml			139300					139300
3389 Ultimatum	ml						2900		2900

FERTILIZERS

572 Ammonium Sulphate (21%)	kg			600					600
524 Borax (Boric Acid)	kg			8	8000	3,75	3,25		8015
504 Calcium nitrate	litre			750	525				1275
503 Calcium nitrate (nitrate of Lime)	kg	900	800		2,5	775	800		3277,5
506 Copper sulphate	kg			2		1,25	1,25		4,5
544 Eddha iron 6%	kg			33	34	22	16		105
525 Fe DTPA 6%	kg			28	31	15	12		86
521 Magnesium sulphate	kg				450	450	400		1300
513 Manganese sulphate	kg			8	7	3,7	3,25		21,95

OVERVIEW RECORDED DATA (Continued)

MPS company number: **802685/12**

Company name: Sher Ethiopia Plc.

Valid: Period 8-2016 until Period 7-2017

Version: 15-8-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
------	-------------	------	-------------	-------------	--------------	--------------	--------------	--------------	----------

FERTILIZERS (Continued)

529	Mono-Ammonium Phosphate (MAP) 12+61+0	kg			25	50	75	75	225
514	Mono-potassium phosphate 0+52.29+33.98	kg			25	25	75	50	175
634	Multicote 4 15+7+15(+2) +TE	kg					100		100
534	Natriummolybdaat	kg			2	2,5	1,25	1,25	7
551	Nitric Acid 68%	litre			70	385		560	1015
515	Potassium nitrate 13+0+45	kg			200	150	325	300	975
517	Potassium sulphate	kg			100			100	200
537	Urea 46%	kg		100	50	150	200	150	650
501	Zinc sulphate	litre			4	3	1,25	1,25	9,5

ENVIRONMENTAL CLUSTERS

Indoor crops									
3014	ROSE par-mat	m2	15000	15000	15000	15000	15000	15000	
Subtotal			15000	15000	15000	15000	15000	15000	