Certificate

MPS-ECAS awards this certificate in accordance with the certification standard MPS-ABC version 16.1, to:

Schroll Flowers ApS
Kirstinebjergvej 33
5792 ÅRSLEV
Denmark
MPS-number: 802863

Applicable to environmental clusters:
POT PLANTS 2; POTPLANTS outdoors

Validity: **4-11-2024 valid up to and including 26-1-2025**
Total points: **100,8**
Qualification: **A+**

Kind regards,
MPS-ECAS

Signature:

Date of issue:
9-10-2024

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

PRODUCTEN
RvA C 262

MPS-ECAS Certification is the trade name of ECAS B.V., with its registered office in Honselersdijk, Municipality of Westland and registered at the Chamber of Commerce under number 28073898

QUALIFICATION AND PERIOD GRAPHS

MPS company number: 802863/01
Company name: Schroll Flowers ApS (total)

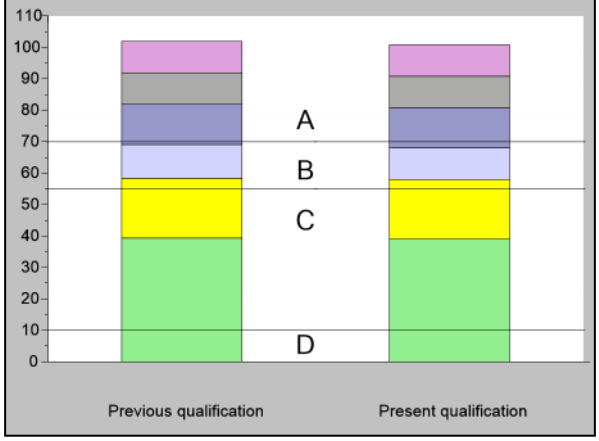
Valid: Period 11-2023 until Period 10-2024
Version: 9-10-2024

Table 1: DATA QUALIFICATIONS

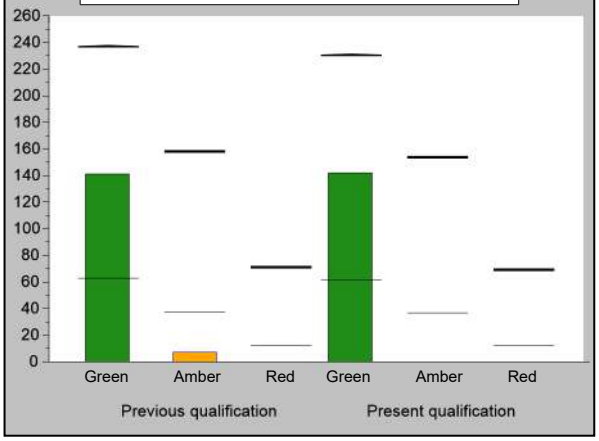
SUBJECT		Your Company standard Lower- Upper limit	Your use	Your points	max. points	A+ standard	A+ score	Obtained
Crop protection	Green	61,3-230,8 kg	142,1	**7,1**	13,6			
	Amber	36,8-153,8 kg	0	**18,2**	18,2			
	Red	12,3-69,2 kg	0	**13,6**	13,6			
total				**39**	45,5	85 %	85,6 %	yes
Energy total		88346,9-142837 GJ	49384,4	**19**	19	75 %	100 %	yes
Fertilizers	Nitrogen	3352,5-8780,3 kg	4485,6	**10,1**	12,7			
	Phosphorus	878,2-2689,9 kg	623,4	**12,7**	12,7			
total				**22,8**	25,5	75 %	89,5 %	yes
Waste		0-130	130	**10**	10			
Water								
Certified parental material				**10**	10			
Total score (points)				**100,8**	110	90	110,7	yes
COMPANY QUALIFICATION				**A+**				

COMPANY USAGE PER 13 PERIODS
<--------> = Upper limit <.....> = Lower limit

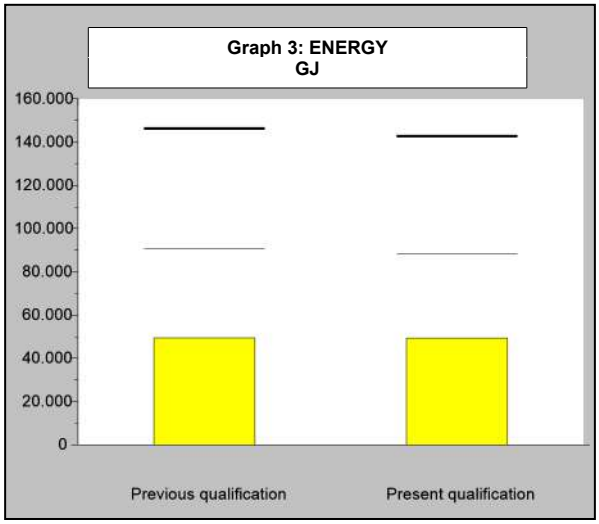
Graph 1: SCORES AND CLASS



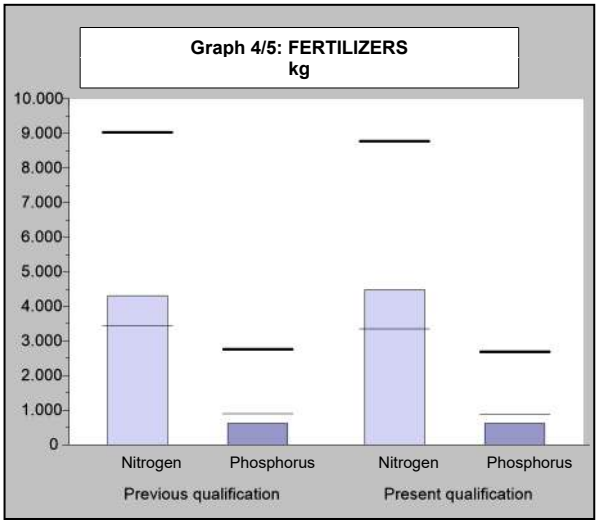
Graph 2: CROP PROTECTION kg active material



Graph 3: ENERGY GJ



Graph 4/5: FERTILIZERS kg

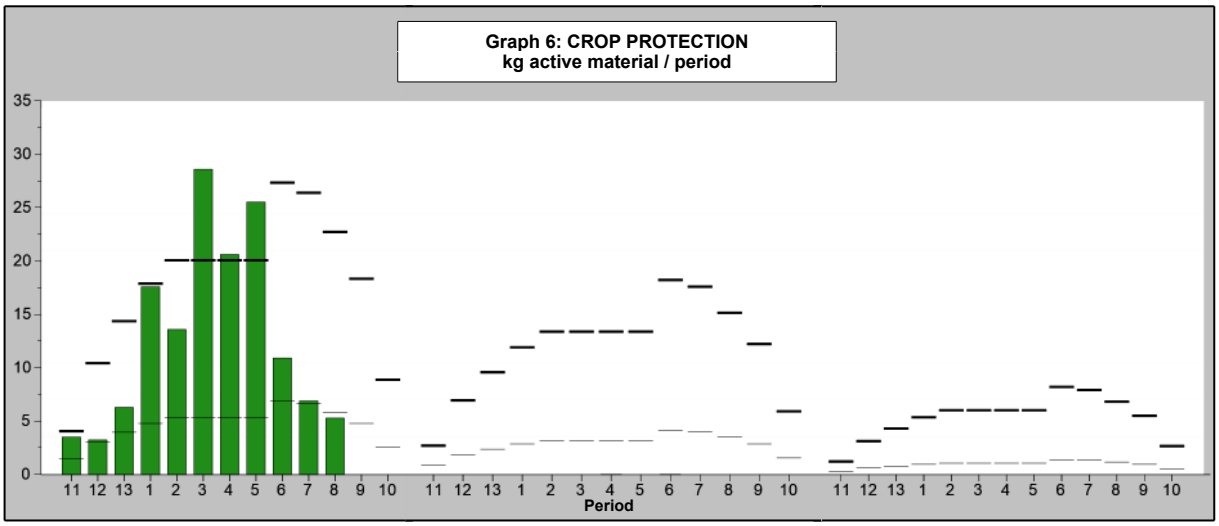


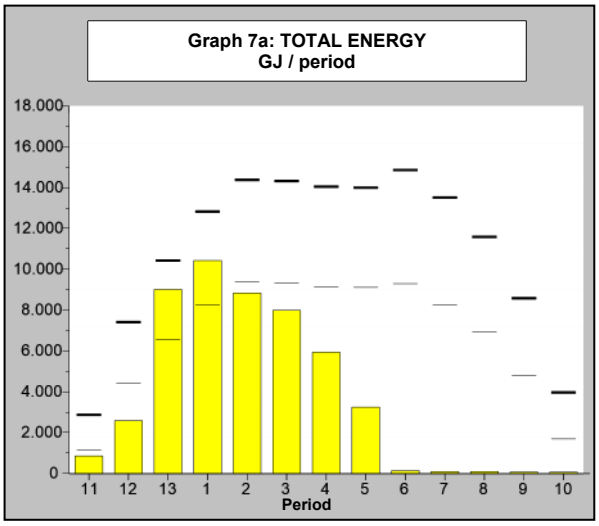
QUALIFICATION AND PERIOD GRAPHS

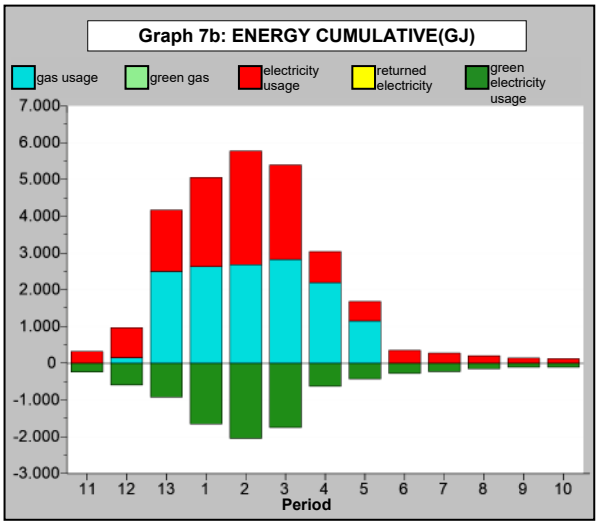
MPS company number: 802863/01
Company name: Schroll Flowers ApS (total)

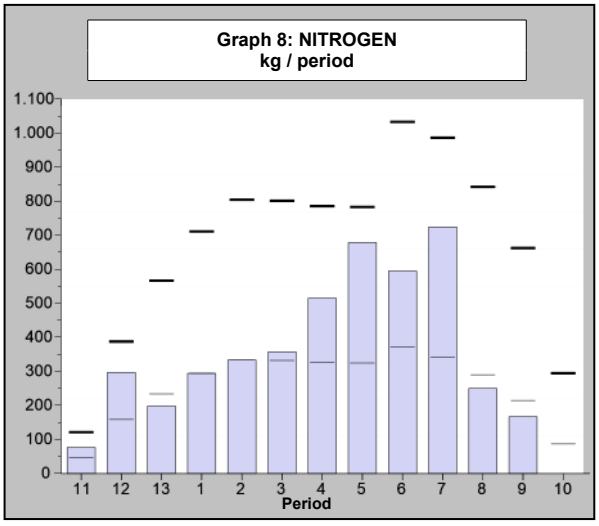
Valid: Period 11-2023 until Period 10-2024
Version: 9-10-2024

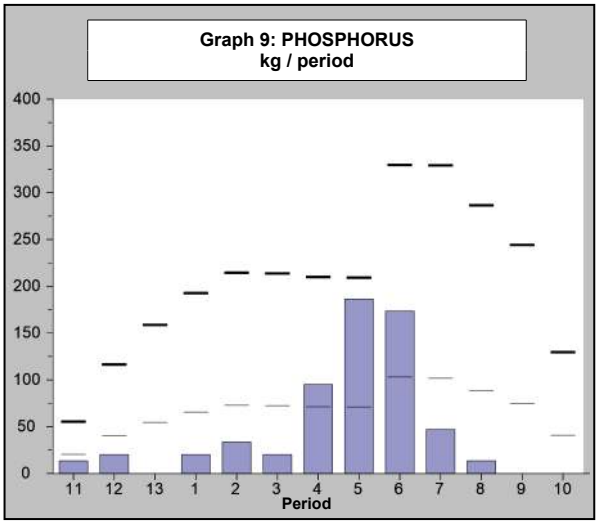
<--------> = Upperlimit <.....> = Lowerlimit











MPS-Overview Composition of Qualification

MPS company number: 802863/01
Company name: Schroll Flowers ApS (total)

Valid: Period 11-2023 until Period 10-2024
Version: 9-10-2024

Composition of company standards MPS-OEX (Area Efficiency indeX)

THEMA		Basic standard lower- upper- limit limit	% OEX	Companystandar lower- upper- limit limit	Company- usage
Crop protection	Green			61,3-230,8 kg	142,1 kg
	Amber			36,8-153,8 kg	0 kg
	Red			12,3-69,2 kg	0 kg
Energy		87142,3-141020 GJ	1,3 %	88346,9-142837 GJ	49384,4 GJ
Nitrogen (N)		3310,8-8680 kg	1,2 %	3352,5-8780,3 kg	4485,6 kg
Phosphorus (P)		869,7-2664,6 kg	0,9 %	878,2-2689,9 kg	623,4 kg

Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	85076,9 m2		
Area certified parental material MPS-ABC	168659,3 m2	19,8	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	11	12	13	1	2	3	4	5	6	7	8	9	10
Environmental	Zone 5	Zone 5	Zone 5	Zone 5	Zone 5	Zone 5	Zone 5	Zone 5	Zone 5	Zone 5	Zone 5	Zone 5	Zone 5

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Alar SG (Alar 85 SG)	●	daminozide	99,450		
Aluminiumsulfat	○	aluminium sulphate			
Beloukha	●	nonanoic acid/pelargonic acid	20,400		
Conserve	●	spinosad	1,320		
Movento SC 100	●	spirotetramat	0,900		
Nissorun 250 SC (liquid)	●	hexythiazox	0,500		
Sluxx	●	ferric phosphate	3,600		
Teppeki	●	flonicamid	1,000		
TopGun Finalsan	●	nonanoic acid/pelargonic acid	14,936		
Vertimec	●	abamectin		0,036	
Annual company use of active substance			**142,106**	**0,036**	**0**

OVERVIEW RECORDED DATA

MPS company number: 802863/01
Company name: Schroll Flowers ApS (total)

Valid: Period 11-2023 until Period 10-2024
Version: 9-10-2024

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal	Year total
FORM RECEIVED			yes	yes	yes	yes	yes	yes		
CROP PROTECTION AGENTS										
3023	Alar SG (Alar 85 SG)	grams	13000	12000		1000			26000	117000
3252	Aluminiumsulfat	grams	250000	700000	400000		2150000		3500000	5775000
3931	Beloukha	ml	10000		10000				20000	30000
3205	Conserve	ml	1000	1000					2000	11000
3315	Movento SC 100	ml	1000		1000	1000			3000	9000
3821	Nissorun 250 SC (liquid)	ml								2000
3328	Sluxx	grams		20000		20000			40000	120000
3293	Teppeki	grams								2000
3829	TopGun Finalsan	ml	40000			20000			60000	80000
3251	Vertimec	ml		1000					1000	2000
WATER										
21	Total irrigation	m3	7543	6571	6387	5102	1413		27016	43724
ENERGY										
1	Gas consumption	m3	32821						32821	402601
2	Conversion factor		1		1	1	1	1		
3	Caloric value		1		1	1	1	1		
4	Electricity from the grid (Total)	kWh	95791	64025	50346	37428	25756	22497	295843	2433542
6	Green electricity from the grid	kWh	77591	49940	41284	27322	19575	19122	234834	1656302
7	Residual heat usage	GJ	2295	73	52	47	45	54	2566	35607
LIGHTING										
550020	HP-Na 400W EVSA	Hour	28	1	1	1	1	1		
		Number	2016	2016	2016	1	1	1		
		kWatt								
550030	Philips GreenPower 400V LED	Hour	28	1	1	1	1	1		
		Number	1366	1366	1366	1	1	1		
		kWatt								
FERTILIZERS										
513	Ammonium nitrate	kg	400	275	650	175	200		1700	2926
303	Ammonium sulphate	litres		75					75	75
545	Calcium nitrate (nitrate o	kg	825	700	1100	775	350		3750	7925
1114	Ecofem Super AB 3+6+5	kg	5767	5866					11633	13910

OVERVIEW RECORDED DATA (Continued)

MPS company number: 802863/01
Company name: Schroll Flowers ApS (total)

Valid: Period 11-2023 until Period 10-2024
Version: 9-10-2024

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal	Year total
FERTILIZERS (Continued)										
638	Kalk	kg	363	374					737	990
516	Magnesium sulphate	kg	475	425	725	425	150		2200	4975
580	Mono-ammonium phosphate	kg	125	75	175	50			425	950
1048	Pioner S Godning 80	kg			50				50	100
537	Potassium nitrate (13+0+45)	kg	1725	1550	2425	500	350		6550	13300
415	Sulphuric Acid 96%	litres		800			800		1600	3200
1042	TE-Mix (AMN Plus)	kg								55
1004	YaraTera Kristalon Special 18+18+18 (+3MgO)+micro	kg	25						25	50
981	YaraTera Rexolin APN	kg	90	75	125	50	20		360	655
ENVIRONMENTAL CLUSTERS										
	Indoor crops									
4000	UNCULTIVATED	m2			10000	22000	42000	70000		
4062	POT PLANTS 2	m2	82000	82000	72000	60000	40000	12000		
	Subtotal		82000	82000	82000	82000	82000	82000		
	Outdoor crops									
4044	POTPLANTS outdoors	m2		70000	82000	72000	72000	40000		
4099	UNCULTIVATED	m2	100000	30000	18000	28000	28000	60000		
	Subtotal		100000	100000	100000	100000	100000	100000		
	Certified parental material									
661	MPS-ABC certif.parental mat. indoor	m2	82000	82000	10000	82000	80571	82000		
663	MPS-ABC certif.parental mat. outdoor	m2	100000	100000	100000	100000	100000	100000		

GENERAL INFORMATION FORM

MPS-Mind

Surface water

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

Cover

3910	Does the surface of protected cultivation exceed 95% of this location?	no

OVERVIEW RECORDED DATA (Continued)

GENERAL INFORMATION FORM

MPS-Mind

3901	What is the percentage of protected cultivation for this location (protected surface/total recorded surface for location)?	25 - 50% covered crops
3909	When a plot used for outdoor crops is close to surface water, is the plot separated from the water by a wind-break or a crop free zone of at least three metres	yes

Slope

3902	What is the maximum slope of a plot on this location?	flat

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)?	3 - 15 metres / 9,8 - 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%

MPS-OEX

Sidescreens:

3950	Are sidescreens being used during lighting in the night?	Yes

Topscreens:

3951	Are topscreens being used during lighting in the night?	Yes
3952	If yes, what is the percentage of light-reduction?	95% or more

CO2

3953	Do you apply CO2?	No

Substrate

3957	Do you cultivate cut flowers on substrate?	No

Diffuse light

3961	Do you have diffuse glass on your greenhouse?	No
3963	Do you have diffuse foil on your foil-greenhouse?	No
3965	Do you have diffuse screens on your greenhouse?	No
3967	Do you use a diffuse coating on your greenhouse?	No

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

OVERVIEW RECORDED DATA

MPS company number: 802863/01
Company name: Schroll Flowers ApS (total)

Valid: Period 11-2023 until Period 10-2024
Version: 9-10-2024

Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal
FORM RECEIVED			yes	yes	yes	yes	yes	yes	yes	
CROP PROTECTION AGENTS										
3023	Alar SG (Alar 85 SG)	grams	3000	3000	7000	19000	15000	20000	24000	91000
3252	Aluminiumsulfat	grams	250000	300000	375000	225000	225000	425000	475000	2275000
3931	Beloukha	ml						10000		10000
3205	Conserve	ml	1000		2000	2000	2000	1000	1000	9000
3315	Movento SC 100	ml		1000	1000	2000		1000	1000	6000
3821	Nissorun 250 SC (liquid)	ml	1000					1000		2000
3328	Sluxx	grams	20000	20000			20000	20000		80000
3293	Teppeki	grams				2000				2000
3829	TopGun Finalsan	ml						20000		20000
3251	Vertimec	ml							1000	1000
WATER										
21	Total irrigation	m3	939	1277		2045	2148	4789	5510	16708
ENERGY										
1	Gas consumption	m3		4319	71137	74872	76402	80478	62572	369780
2	Conversion factor		1	1	1	1	1	1	1	
3	Caloric value		1	1	1	1	1	1	1	
4	Electricity from the grid (Total)	kWh	58494	148939	304436	441919	562983	467571	153357	2137699
6	Green electricity from the grid	kWh	43286	107236	167440	300505	371569	317948	113484	1421468
7	Residual heat usage	GJ	892	2538	6623	8076	5866	4996	4050	33041
LIGHTING										
550020	HP-Na 400W EVSA	Hour	8	280	280	224	224	196	112	
		Number	500	400	2016	2016	2016	2016	2016	
		kWatt								
550030	Philips GreenPower 400V LED	Hour		280	280	224	224	196	112	
		Number		512	1366	1366	1366	1366	1366	
		kWatt								
FERTILIZERS										
513	Ammonium nitrate	kg	1	175	150	175	200	250	275	1226
303	Ammonium sulphate	litres								
545	Calcium nitrate (nitrate o	kg	200	575	450	625	700	700	925	4175
1114	Ecofem Super AB 3+6+5	kg							2277	2277

OVERVIEW RECORDED DATA (Continued)

MPS company number: 802863/01
Company name: Schroll Flowers ApS (total)

Valid: Period 11-2023 until Period 10-2024
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Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal
FERTILIZERS (Continued)										
638	Kalk	kg							253	253
516	Magnesium sulphate	kg	150	450	300	425	450	425	575	2775
580	Mono-ammonium phosphate	kg	50	75		75	125	75	125	525
1048	Pioner S Godning 80	kg			25				25	50
537	Potassium nitrate (13+0+45)	kg	300	1075	600	1000	1100	1200	1475	6750
415	Sulphuric Acid 96%	litres							1600	1600
1042	TE-Mix (AMN Plus)	kg		55						55
1004	YaraTera Kristalon Special 18+18+18 (+3MgO)+micro	kg							25	25
981	YaraTera Rexolin APN	kg	15		30	50	60	60	80	295
ENVIRONMENTAL CLUSTERS										
	Indoor crops									
4000	UNCULTIVATED	m2	74000	44000	26000	10000				
4062	POT PLANTS 2	m2	8000	38000	56000	72000	82000	82000	82000	
	Subtotal		82000	82000	82000	82000	82000	82000	82000	
	Outdoor crops									
4044	POTPLANTS outdoors	m2	2000							
4099	UNCULTIVATED	m2	98000	100000	100000	100000	100000	100000	100000	
	Subtotal		100000	100000	100000	100000	100000	100000	100000	
	Certified parental material									
661	MPS-ABC certif.parental mat. indoor	m2	82000	82000	82000	82000	82000	82000	82000	
663	MPS-ABC certif.parental mat. outdoor	m2	100000	100000	100000	100000	100000	100000		