

2000t/d

м р у м м м п л с

2000t/d

2000t/d

62

88°21′43.82″ 88°21′55.51″ 29°15′35.82″ 29°15′20.63″ 318 1.7

2000 446400

600000t/a P042.5 240000

40% PC32.5 360000 60%

0.50hm²

59260.00 15076.58

` ″ 58

н л м тр

2000t/d

н л м тр

н л м т

р π н л м σ

н л м тт

н л м тт

96.95%

89.16% 0.86 99%

99.50% 11.43%

π

		9 كا ۆ ۋ ممي
	ى	كا ۆ ى كا ى كا ش 9 ى ۆ ممي كا 9 كا كا احي ىث
		9 ضمح مح ه 9 كا 2

1 .....
2 .....
2.1 .....п.....
2.1.1 .....п.....
2.2 .....м м.....
2.3 .....м п.....
3 .....
3.1 .....м т.....
3.2 .....м у.....
3.3 .....н м.....
4 .....
4.1 .....н о.....
4.2 .....н п.....
5 .....
5.1 .....н т.....
5.2 .....н ф.....
6 .....
6.1 .....о о.....
6.2 .....о р.....
6.3 .....о с.....
6.4 .....о т.....
6.5 .....о ф.....

7 .....

7.1 .....пр.....

7.2 .....рм.....

7.3 .....рп.....

8 .....

8.1 .....рс.....

8.2 .....рф.....

1

62

1.7 88 ° 21 ′ 43.82″ 88 ° 21 ′ 55.51″ 29 °
15 ′ 35.82″ 29 ° 15 ′ 20.63″

2014 3
2015 3 12 59260.00
15076.58

1.0 1.8km

3900m

7.4
26.9 - 14.6 15.4
- 2.3 2689mm 336.4mm
38.8mm 13.7mm
1.6m/s 19.2m/s 120
110 120cm
150cm

30%

5

M

“ 2000t/d

”

2000t/d

1850[t/(km·a)]

3500[t/(km·a)] 580[t/(km

²·a)]

/(km

2015 2017

3.98hm^2

) 2017 9

9km 2.5km^2

4000m

3997.3m

7m 4.5m

M10 0.5m

0.5m

2

10km

150m , 100m 50m

7

8

2.1.2

34.41hm² 19.87hm²

2017 4.17hm² 0.10hm²

2 - 1

2 - 1 hm ¦

	hm ²	hm ²	hm ²

2 - 2 hm Ļ

hm ² hm ² hm ²

GPS

0.40hm²

0.50hm²

0.10hm²

2 - 3

2 - 3 hm Ļ

ф

4.07 m³ 1.65 m³

1.43 m³ 1.00 m³ 0.48 m³

1.77 m³ 0.87 m³ 0.65

m³ 0.25 m³ 1.52

m³ 60m³ 0.77 m³ 0.75

m³ 0.78

³ 0.78 m³ 2 - 4

2 - 4 : mį

							4
							4
					2		
					2		
					2		4

4.07 m³ 4.07 m³

1.77 m³ 1.87 m³

0.2 m³

0.31 m³ 0.31 m³

1.00 m³ 0.80 m³ 0.20 m³

0.20 m³ 0.20 m³

м л

2 - 5

2 - 5 : mį

3900m

" -

2.2.3

2.2.4

10 50cm

ï ɔɯdƙ ÆŒ Œ ì ´Ÿή ɲ

2013 188

1999

4

SL190 - 2007

500t/k㎡ · a

2.3.1

2.3.2

2.3.3

2011 5

2011 10

[2011]18

2000t/d

2017 5

3

3.1

ڇ ŧ ⋹ Ψ b ⊁ ⁚.

3.2

3.2.1

(SL277 - 2002)

1

2

3

4

5

6

3.2.2

1 1991 6 29

2010 12 25

2011 3 1

2 1993 120

3 [1998]253 1998 11

29

4

12 2000

5 16

2002

6 [2009]187

7 [2012] 45

· [2012]512

9

[2013]188

10 GB50433 2008

11 GB50434 2008

12 GB/T21010 2007

13 GB/T16453.1 - 6 - 2008

14 GB/T15773 - 2008

15 GB/T15774 - 2008

16 GB/T22490 - 2008

17 SL73.6 2001

18 SL277 2002

19 SL336 2006

20 SL190 2007

21 “

[2011]153 ”

22 2000t/d

2011 10

24 2000t/d

[2011]18

3.3

3.3.1

2017 5

“ 2000t/d

”

2000t/d

3.3.2

SL277 - 2002

187

3 - 2

3 - 2

1490

ب ف

“ 2000t/d

”

2000t/d

2000t/d

2017 5 2017 7

2017 7

4

4.1

4.1.1

（GB50433—2008）

4.1.2

4.1.3

4.1.4

4.1.5

4.2

4.2.1

SL277—2002

1

2

4.2.2

2015 3 2017 5

2017 5 2017 7

2017

5 7

4.2.3

4

6 2

1 1

1 1

4 - 1

4 - 1

				E 88 Á 21Nj43.82Nm29 Á 15Nj35.82nj E 88 Á 21Nj43.52Nm29 Á 15Nj35.42nj
				E 88 Á 21Nj43.02Nm29 Á 15Nj35.03nj
				E 88 Á 21Nj43.09Nm29 Á 15Nj35.27nj
				E 88 Á 21Nj43.29Nm29 Á 15Nj35.47nj E 88 Á 21Nj43.28Nm29 Á 15Nj35.37nj
				E 88 Á 21Nj43.45Nm29 Á 15Nj35.68nj

10M W P

H C

5

5.1

5.1.1

2000t/d

5.1.2

2000t/d

2

1 1

1

5.1.3

2

2017 9

3

0.50hm²

5.2

5.2.1

2000t/d

2011

18

SL190 - 2007

2017 5 7 3

354[t/(km²a)]

10MWP

1850[t/(km²a)]

5.2.2

10MWP

10MWP

“

2000t/d

” 10MWP

ƨ “ ƨ ǎ̈

5 - 2

	2000t/d	10MWP	
	30%	30%	
	7.4 336.4mm 2689mm	7.4 336.4mm 2689mm	

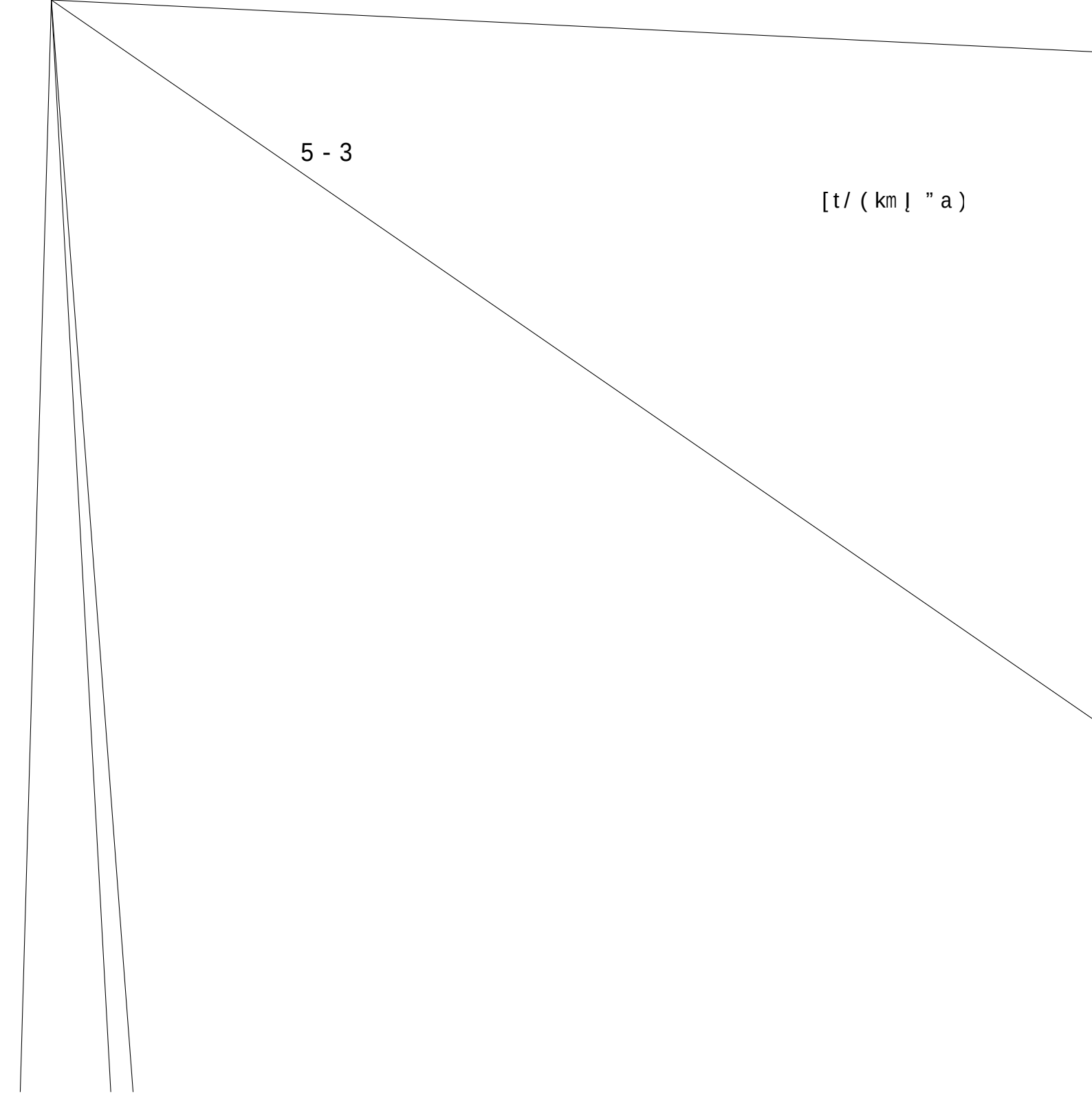
10MWP

3000[t/(km²·a)]

3500[t/(km²·a)]

2000t/d

5 - 3


5 - 3
[t/(kmĮ”a)

6

6.1

6.1.1

2011 5

2011 10

[2011]18

2000t/d

2000t/d

37.94hm²

34.41hm² 3.53hm²

6 - 1

6 - 1 :hm Ļ

6.1.2

34.81hm²

6 - 2

6 - 3 :hm ļ

6.2

6.2.1

[2011]18

2000t/d

4.07 m³

1.65 m³ 1.43 m³ 1.00 m³ 0.48 m³

6.2.2

4.07 m³ 2.65 m³ 1.52

3

6.2.3

6.4

1

$$Ms=F \times Ks \times T$$

Ms —— t

F —— km²

Ks —— t/km² · a

T —— a

6 - 5

6 - . Ŷ6 6 - 5

6 - 6

	hm Ł	[t/(km Ł ”a	a	t

6 - 7

	hm Ł	[t/(km Ł ”a	a	t

644.00

6 - 1

6 - 8

	t

ضغ Ņ ’ ’

6 - 2

6.5.2

	)
3m	6m

6 - 3

6.5.3

6.5.4

п о

п р

7 - 1 2014 - 2017

					4
					2
					4
					2
					2
					2
					2
	6m				9
	3m				9
					9
					2
					2
					2
					4
					4

7 - 2

	6m				
	3m				

"

7.1.2

2014

2000t/d

2015

1.19hm²

2015

2015 30%

2015 - 2017

3.98hm²

7 - 3 7 - 4 7 - 5

7 - 3

אח

7 - 4 2015

7.2

7.2.1

34.81hm Ļ

34.81hm Ļ

33.75hm Ļ

7 - 8 hm ¦

							%
			1.11				

7.2.2

$$\text{水土流失总治理度（\%）} = \frac{\text{水土保持措施面积}}{\text{建设区水土流失总面积}} \times 100\%$$

9.78hm ¦ 8.72hm ¦

89.16% 7 - 9

7 - 9 hm ¦

p н

							%
				1.11			

7.2.3

1% 99%

7.2.4

SL190 2007

574.35t

3

96.95

89.16 0.86 99%

99.50% 11.43%

2015

3.98hm²

8.1.2

2000t/d

8.1.3

1

a

b)

c

2

a

b

8.2

8.2.1

2017 5 2017 7

1

2

8.2.2

1

1

2000t/d

5Á

c o

cm	10		
			5 Á
cm			

c n

c c

/ н л	

			5%
			5%
			5%

F1

mm

mm

5 15

6 15

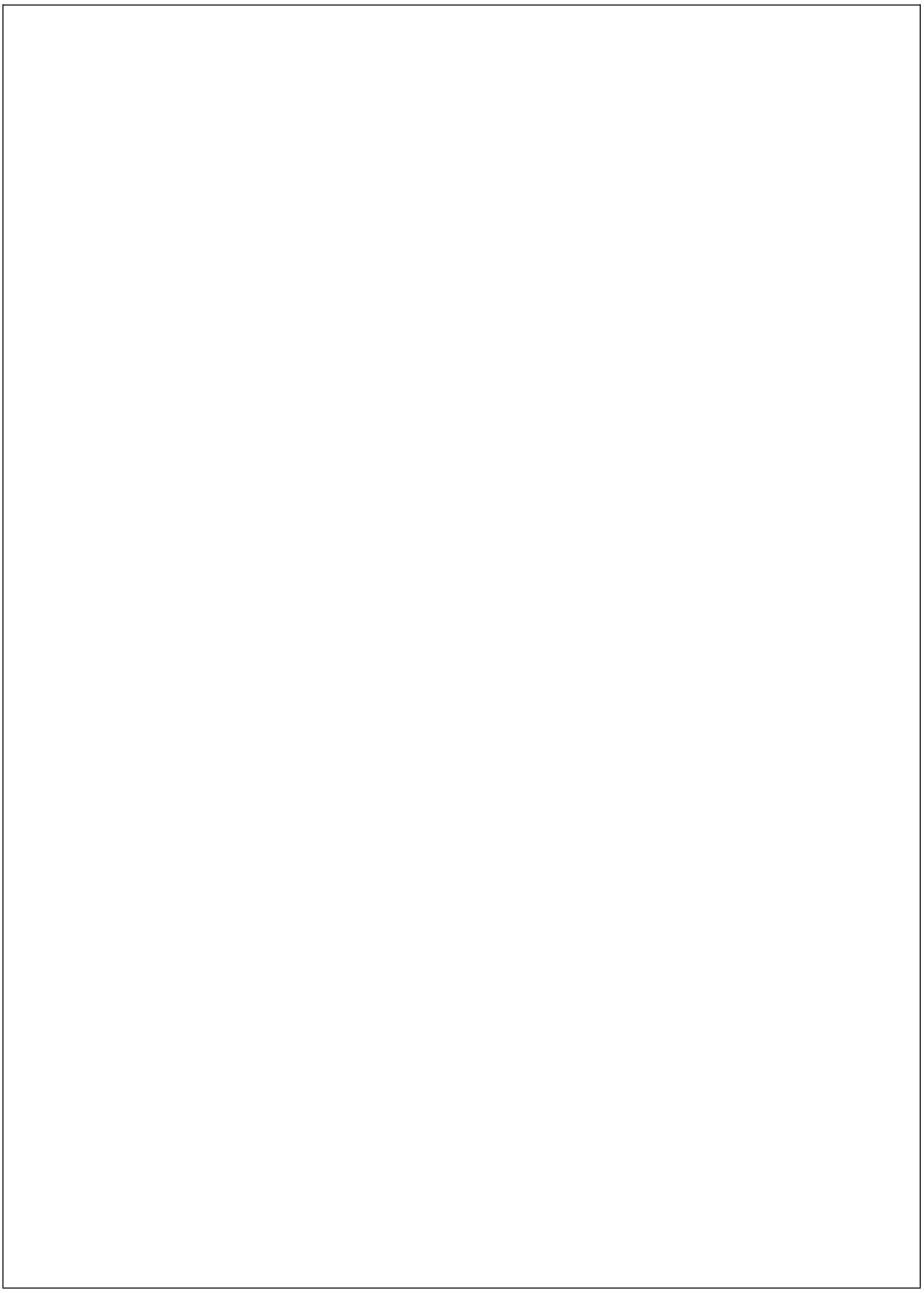
7 15

8 5

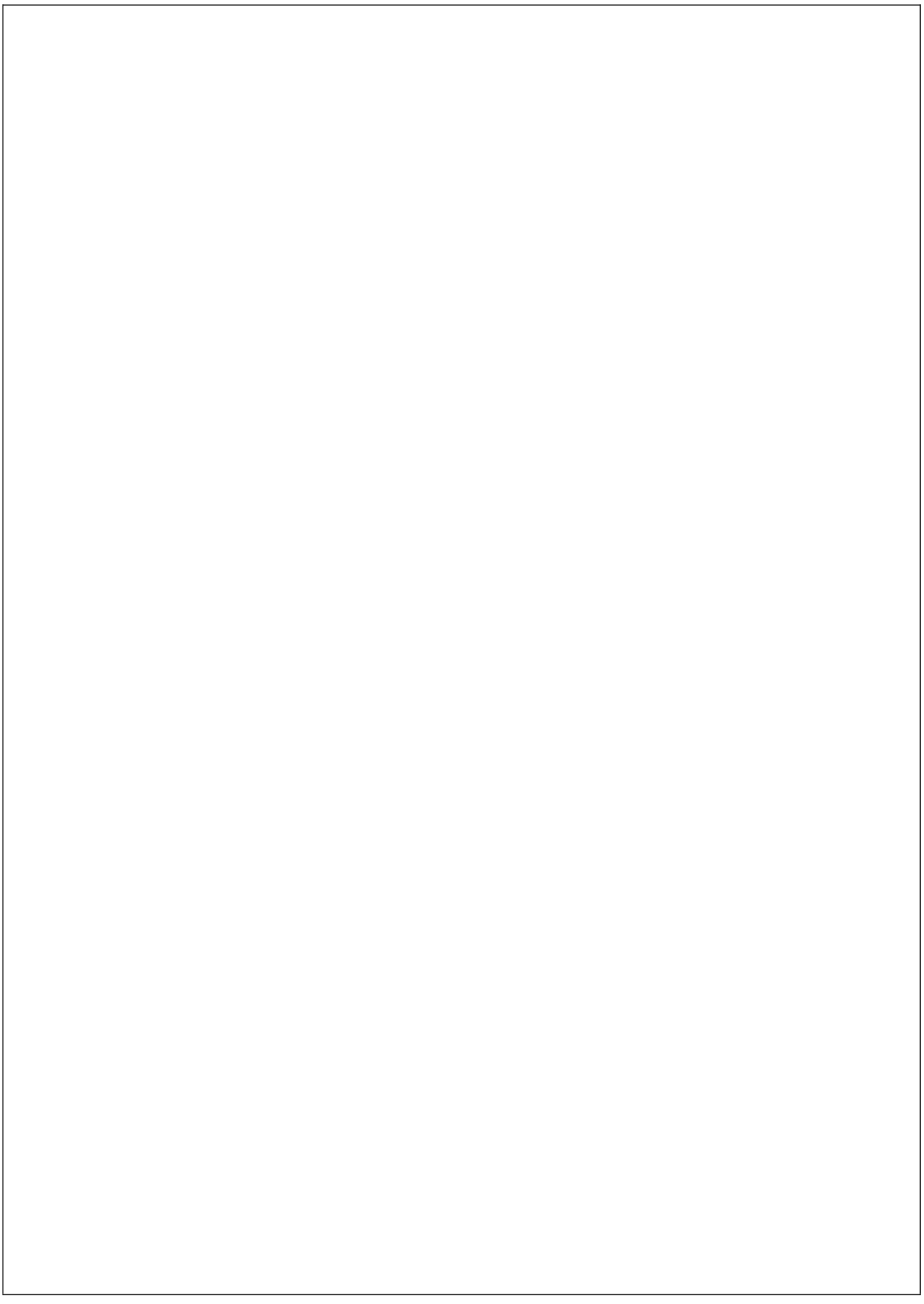
T M

T H

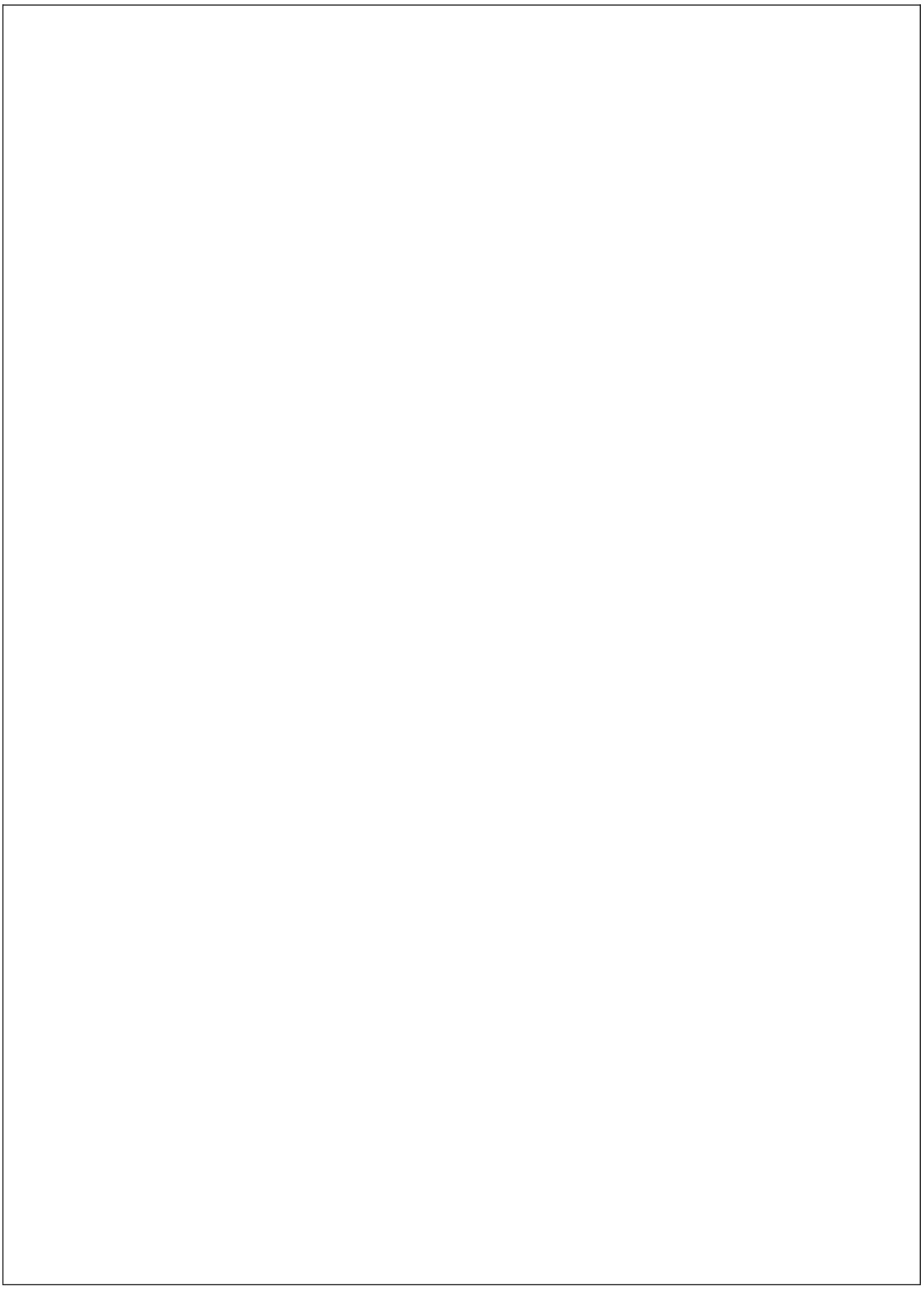
T O



т п



т р



T C

T T

т ф

у л

y m

y o