
() _____

1.

30

2.

3.

4.

5.

6.

7.

8.

	1				
	17626043888				210038
	1				
					[2020]46
					C392
	200				
	100		5		5%
	--		2020 6		
/	125		/		-
/	1.0		Nm ³ /a		-
/	-				-
100t/a					
GB18918-2002 1 A					

1

1-1

1-1

1			200 /a	
2			320 /a	
3			1000 /a	
4			0.01t/a	
5			200 /a	

2

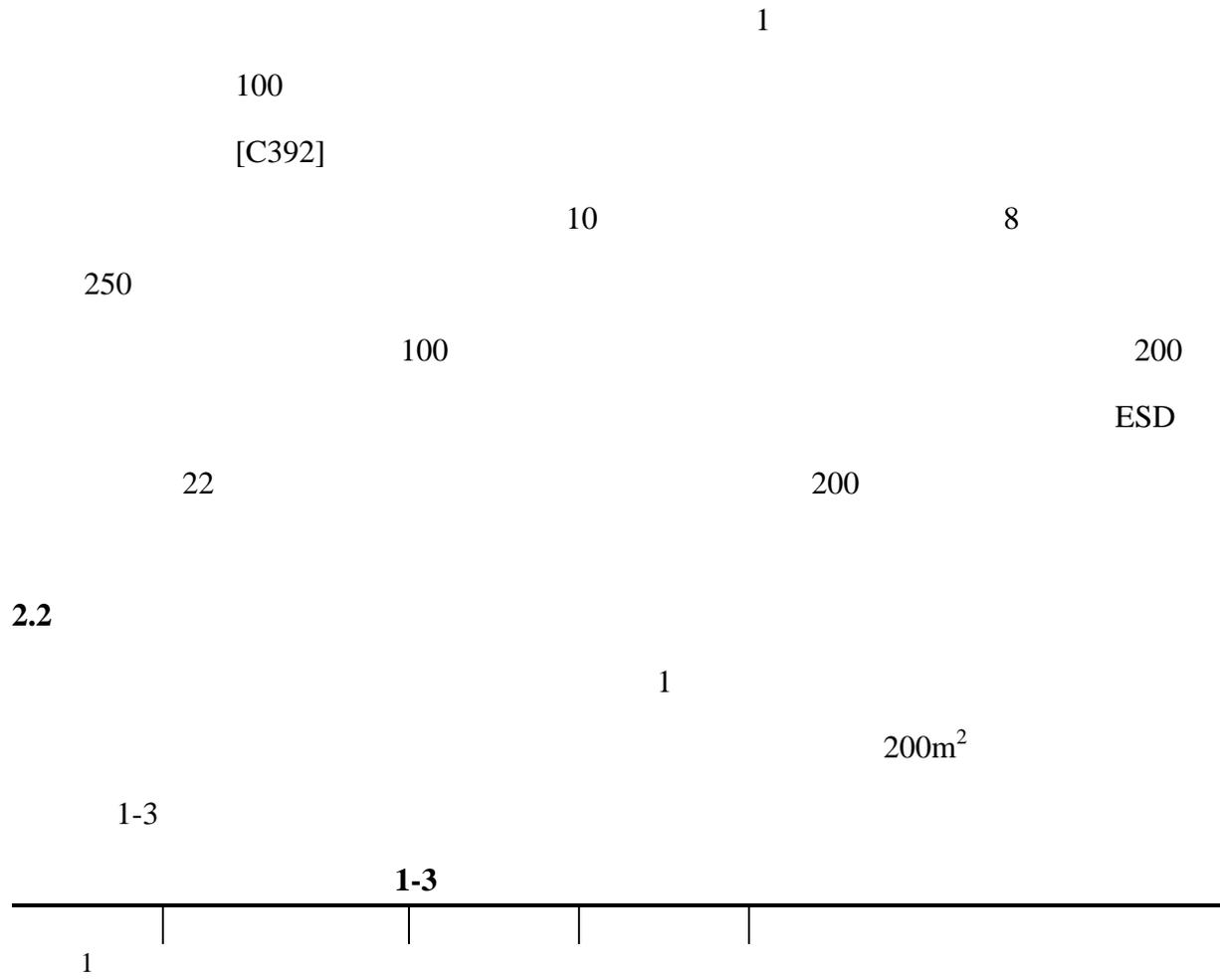
1-2

1-2

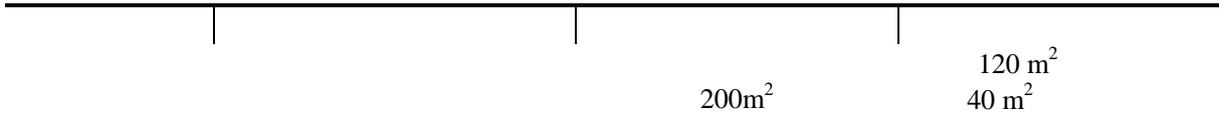
			/	
1		250	2	/
2		250	1	/
3		200	2	/
4		150	4	/
5		200	5	/
6	ESD	90	2	/
7	ESD	1000	2	/
8		2500	2	/
9		400	2	/

1

2018 11 16



1-4



6

1

2012

2012

2013

2013

2

1

[2018]74

2020

1

[2014]74

2200m

4

1-5

1-5

			118 48'57.14"E	32 9'50.36"N 5	4.78	/ 4.78

2018

	125t/a		1.0
kw h			
		1	
	1-6	1-6	
	<hr/>		
1	2019		2019
			2013
2	2013		

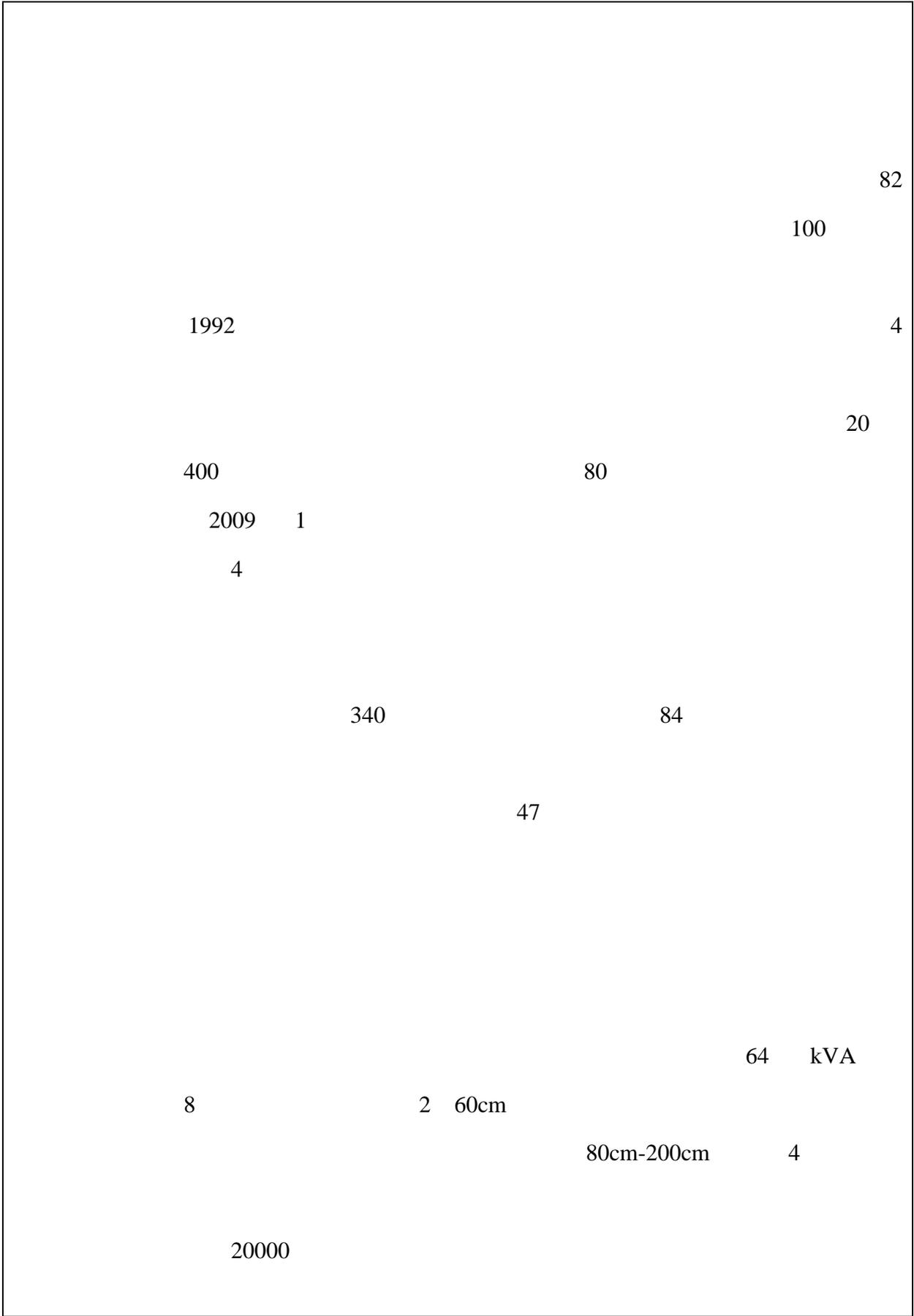
8	2014-2020	
---	-----------	--

2018

--

		15.6Hpa
		979.5mm
		684.2mm
		1561mm
		204.3mm
		15cm
		1069mb
		989.1mb
		1015.5mb
		2.5m/s
	30 10	25.2m/s
		22%

3								
			180		6300			
	37.8			95		1000	3000	
	15	30	70	5				
							3	
	9						9600	
	92600m ³ /s		28500m ³ /s		5970m ³ /s			
	6940m ³ /s							
		2	5					
		40	50		-50			
4								
	1							
	2							



100 /

8-13 /

12-80

2018							
1							
2018							
251	13	68.8%	3.5				
52	10		114			92	
16	6		PM _{2.5}	O ₃			
PM _{2.5}	43 g/m ³	0.23	7.5%	PM ₁₀	75 g/m ³		
0.07	1.3 NO ₂	44 g/m ₃	0.10		6.4%	SO ₂	
10 g/m		37.5%	CO	95	1.4	/	
	6.7%	O ₃	8	60	16.4%		
0.5							
		2018	SO ₂	CO			
	GB3095-2012		NO ₂	PM ₁₀	O ₃	PM _{2.5}	
	GB3095-2012						
		2018					
2							
2018							
		22				18	
81.8%							
	100%	7					
GB3838-2002	-	-	42.9%	28.6%	28.6%	2017	
			14.3		14.3%		

3

3

GB3096-2008

3

2018

2018

68.3

0.5

68.0

0.1

2018

53.9

0.9

53.8

0.8

GB3096-2008

3

1

3-1

3-1

		/m			m		
		X	Y				
	/	/	/	/	/	/	GB3095-2012
		/	/	NW	1350		(GB3838-2002)
		/	/	/	/	/	GB/T 14848-93
	0-200m	/	/	/	/	/	GB3096 2008 3
		/	/	NW	2200m	4.78km ²	

1 SO ₂ NO ₂ PM ₁₀ PM _{2.5} CO O ₃ GB3095-2012 4-1 4-1 mg/m³						
		mg/m³				
SO ₂		0.06			GB3095-2012	
	24	0.15				
	1	0.50				
NO ₂		0.04				
	24	0.08				
	1	0.20				
PM ₁₀		0.07				
	24	0.15				
PM _{2.5}		0.035				
	24	0.075				
O ₃	8	0.16				
	1	0.2				
CO	24	4				
	1	10				
	24	0.03				
2 GB444.688-2002 SL63-94 4-2 4-2 mg/L pH						
		pH	COD	P		SS*
		6-9	15	1	0.5	25
*SS SL63-94						
3 2014 34 GB3096-2008 3 4-3						

4-3

dB A		
3	65	55

1

GB16297-1996

2

4-4

4-4

		4-4			mg/m ³	
		mg/m ³	kg/h	m		
1		120	3.5	15	1.0	GB16297-1996 2

2

GB18918-2002

1

A

4-5~6

4-5

mg/L(pH)

4-5	mg/L(pH)
pH	6-9
COD	400
SS	250
	25



3		
GB12348-2008	3	4-7
4-7		dB A
3	65	55
4		
(GB18599-2001)		GB18597-2001

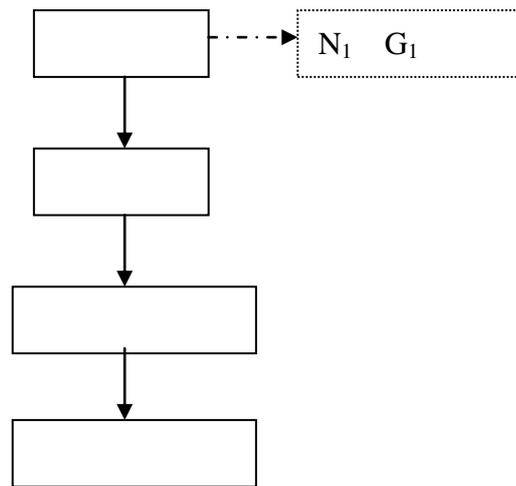
4-8						
4-8			(t/a)			
			[1]	<small>[2]</small>		
			0.00008	0.00004	-	0.00004
			100	0	100	100
COD			0.05	0.01	0.04	0.005
SS			0.025	0.005	0.02	0.001
NH ₃ -N			0.0025			

5.1

5.2

5.2.1

5-1



5-1

1

ESD

G₁

N

2

3

4

5.2.2

1

ESD

0.01t/a

5~8g/kg

8g/kg

0.08kg

2

50%

0.00004t/a

0.00005kg/h

800h/a

5-1

			t/a	(kg/h)	m	m	m
			0.00004	0.00005	20	10	4

5-2~3

5-2

						μg/m³	/ t/a
1					GB16297-1996	1000	0.0000 4

0.00004

5-3

		/ t/a
1		0.00004

2

10

GB50015-2009

50L/()

125t/a

80

100t/a

COD SS

500mg/L 250mg/L 25mg/L 4mg/L

400mg/L 200mg/L 25mg/L 4mg/L

5-2

t/a

5-4

t/a							
		mg/L	t/a	mg/L	(t/a)	mg/L	(t/a)
100t/a	COD	500	0.05	400	0.04	50	0.005
	SS	250	0.025	200	0.02	10	0.001

100t/a

2

0.001t/a

5-6

					t/a			
1					2.5			
2					0.001			

2

2016

GB34330-2017

GB5085.7-2019

5-7

5-7

										/
1							/	99	/	2.5
2							/	99	/	0.001

			mg/m³	t/a	mg/m³	kg/h	t/a	
			/	0.00004	/	0.00005	0.00004	
			mg/L	t/a	mg/L	t/a	mg/L	t/a
	100t/a	COD	500	0.05	400	0.04	50	0.005
		SS	250	0.025	200	0.02	10	0.001
		NH ₃ -N	25	0.0025	25	0.0025	5	0.0005
		TP	4	0.0004	4	0.0004	0.5	0.00005
		t/a	t/a	t/a	(t/a)			
		2.5	2.5	0	0			
		0.001	0.001	0	0			
	ESD							
	60~70dB A							

7.1

7.2

1

1

7-1

7-1

	1	450	3	GB3095-2012

- (HJ2.2-2018) 5.3

A

AERSCREEN

- HJ2.2-2018

7-2

7-2

	P_{max}
	$_{max}<10\%$
	$P_{max}<1\%$

P_i i

i

10%

D10%

P_i

$$P_i = \frac{C_i}{C_{0i}} \times 100\%$$

1

P_i

i

%

C_i

i

mg/m^3

C_{0i} i mg/m³
2

7-3

7-3 ()

	(m)								
	X	Y	(m)	(m)	(m)				
	855610	147502	16	20	10	4		0.00005	kg/h

3

7-4

/	/	
		693000
/		39.1
/		-16.3
		/m
		/
		/km
		/
		/°
		/

P_{max} D10%

7-5

		Kg/h	mg/m ³	Pi %	mg/m ³	D10%(m)
		0.00005	0.45	0.12	0.00054	0

0.12% P_{max} 0.00054mg/m³ P_{max} -
(HJ2.2-2018) 5.3

3

HJ2.2-2008

GB16297-1996

2

HJ/2.3-2018

7-6

7-6

		Q/ m ³ /d	/
		Q 20000	W 60000
A		Q 200	W 6000
B			

100t/a

GB18918-2002 1 A

B

1

B/C

COD 400mg/L SS 200 mg/L NH₃-N 25mg/L TP 4mg/L

2

	1800m		2002		3.5
m ³ /d					
	2003	5	2	m ³ /d	
2007	11	350			1.5 m ³ /d
					1 m ³ /d
			SBR		SBR
SBR				SBR	
SBR			/		

COD 400mg/L SS 200 mg/L NH₃-N 25 mg/L TP 4 mg/L

0.4t/d

10000m³/d

0.004%

1

7-7

7-8

7-9

7-10

7-7

								f	g
1		COD SS TP			-			-	

7-8

				/					
				t/a					/(mg/L)
1		E118.852946	N32.148451	0.01		/		COD SS NH ₃ -N TP	50 10 5 0.5

7-9					
			/(mg/L)		
1	1#	COD	400		
		SS	250		
			25		
			4		
7-10					
			/ mg/L	/ t/d	/ t/a
1	1#	COD	400	0.00016	0.04
		SS	200	0.00008	0.02
		NH ₃ -N	25	0.00001	0.0025
		TP	4	1.6E-06	0.0004
		COD			0.04
		SS			0.02
		NH ₃ -N			0.0025
		TP			0.0004
3	ESD			60~70dB	
A				(GB12348-2008) 3	
				5 8dB A	
				(GB12348-2008) 3	
4				0.001t/a	
5				HJ169-2018	

7-11
7-11

	+			

7-12
7-12

E	P			
	P1	P2	P3	P4
E1	+			
E2				
E3				
+				

P Q

M

Q

$$Q = \frac{q_1}{Q_1} + \frac{q_2}{Q_2} + \dots + \frac{q_n}{Q_n}$$

t

t

Q

1 10 2 100 3

Q

7-13

7-13

	t/a	Q t	q/Q
/	/	/	/
			/

Q<1

6

HJ610-2016 4.1

A

K

71

7

() HJ964-2018

III

200

7-11

7-11

-

8

pH COD SS TP

9

100t/a COD 0.04t/a SS 0.02t/a NH₃-N

0.0025t/a

0.0004t/a

100t/a COD 0.005t/a SS 0.001t/a NH₃-N

0.0005t/a

0.00005t/a

10

7-12

7-12



GB16297-1996

2

	()			
		COD SS		GB18918-2002 1 A
	ESD			60~70dB A
	GB12348-2008 3			

1

100

1

200

ESD

22

200

2020 3 31

[2020]46

2020-320193-33-03-514137

2

2019

3

(2019) 、

[2013]9

2012

[2013]183

2015 118

3

2012

2012

2013

2013

4

1

[2018]74

2020 1

[2014]74

2200m

2018

125t/a

1.0 kw h

1

2018

5

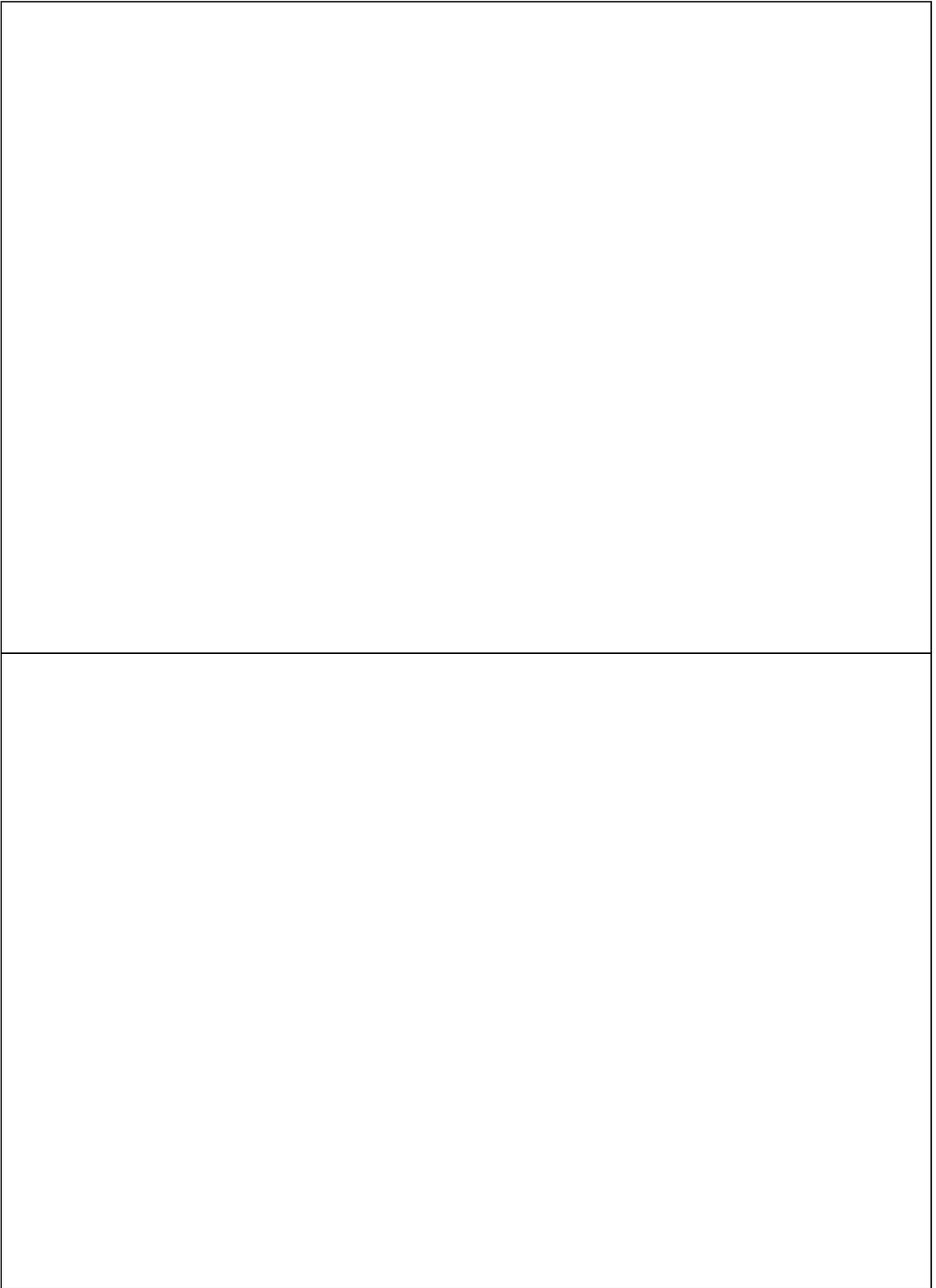
1

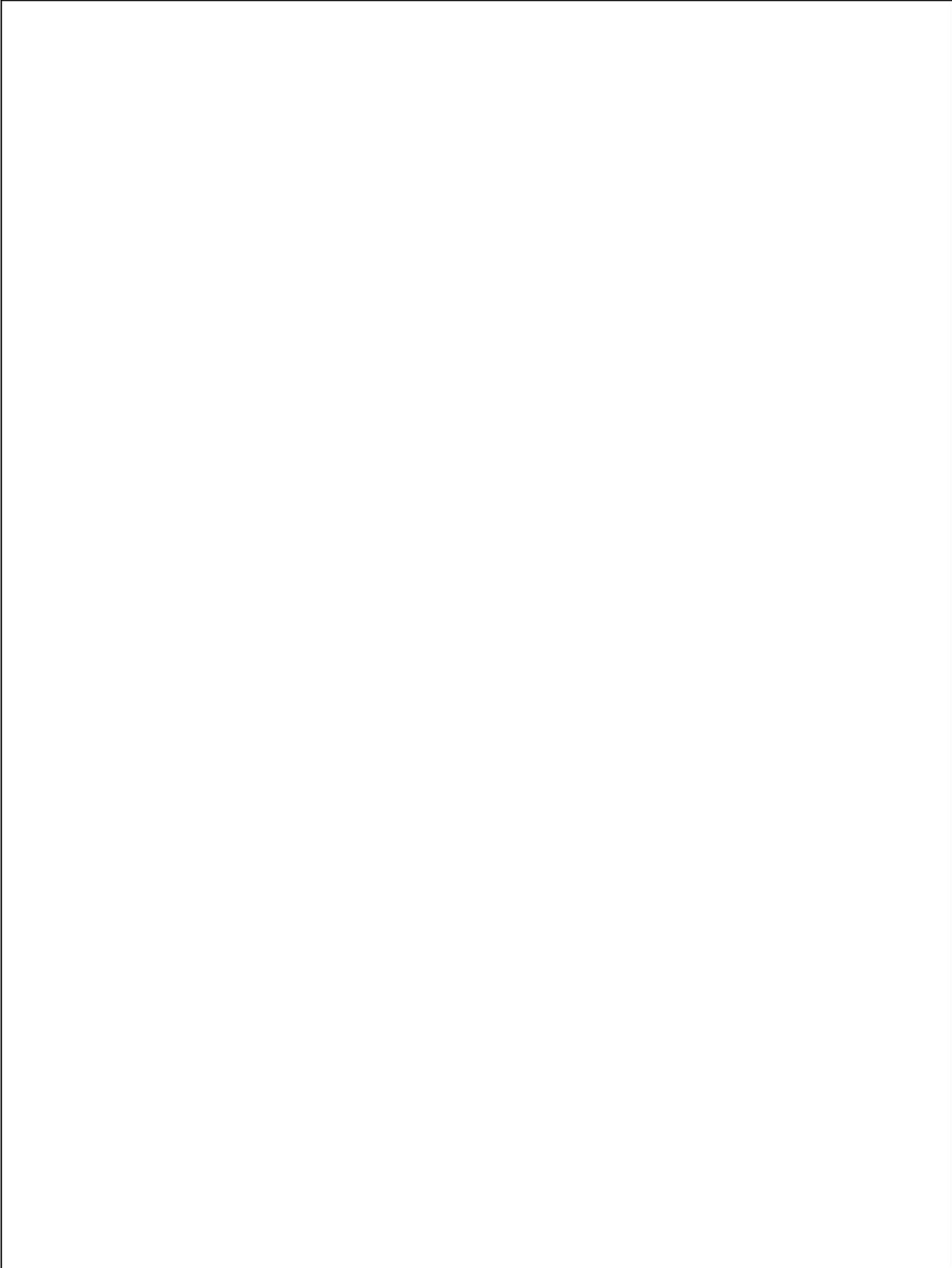
100t/a

GB18918-2002 1 A

2

GB16297-1996





1
2
3
4
5
6
7
8
9
10
11

1
2
3
4

1-2

1
2
3
4
5
6
7

()

()