1

2020 50%

30% 8% 12%

2014 841.7MW

70MW

2015 33

( ) 3 31

2

1

2.1

2015.11

2015.11

2015.11~2015.12

2016 2-3

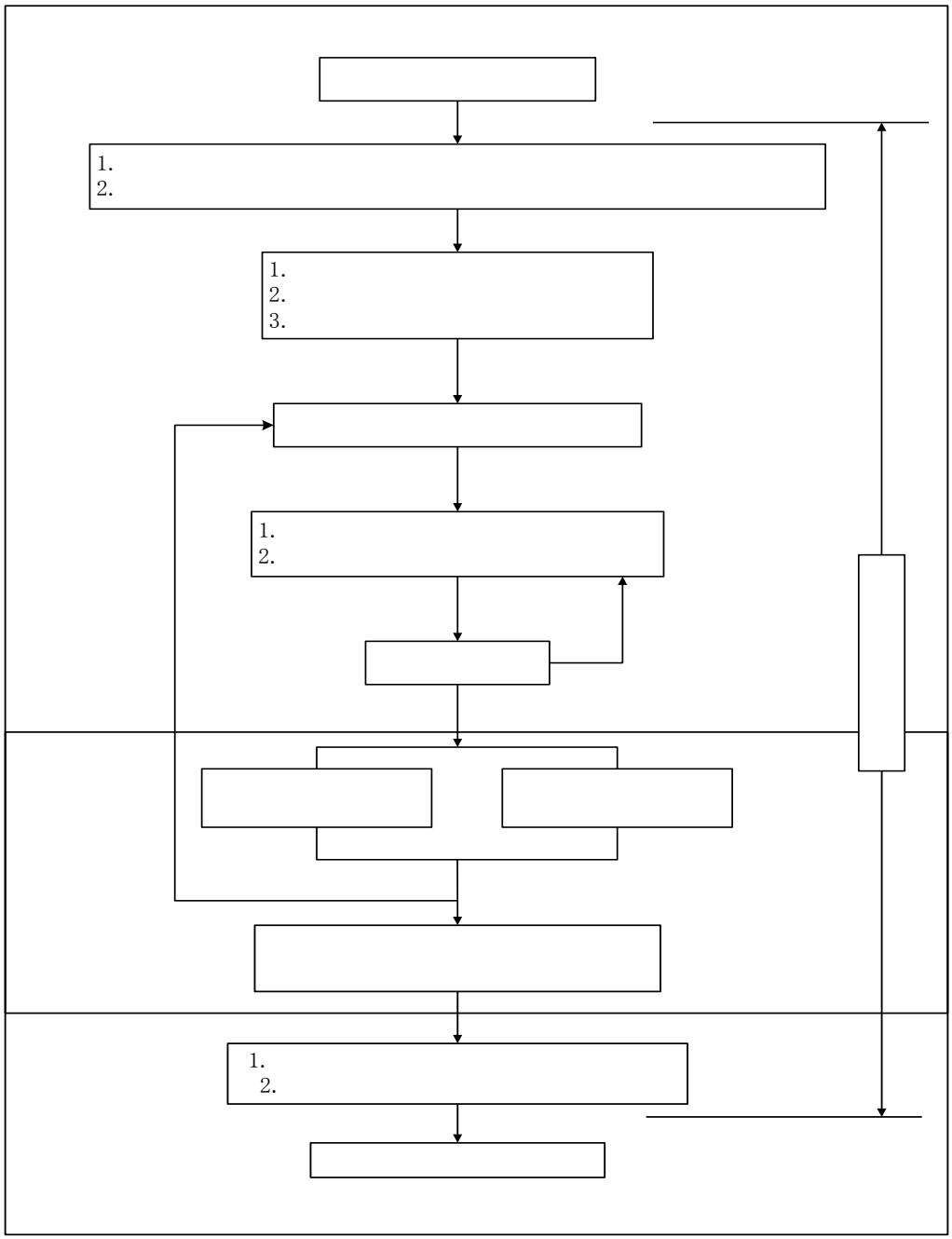
2016 3

2016 4

2.2

1 376

500m



1

1

1.1

1.2

1.2.1

(1) (2015.1)

(2) (2002.10)

(3) (2016.1)

(4) (2008.3)

(5) (1996.10)

(6) (2015.5)

(7) (2011.3)

(8) (1989.3)

(9) (1984.9)

(10) (1998.11)

(11) (1993.8);

(12) (1992.2)

(13) (1996.9)

(14) (2000.1)

(15) (2000.11)

(16) (

2006 51)

(17) (2005 39)

(18) (2015 35)

(19) [2012]77

(20) [2012]98

1.2.2

(1) (2003.6)

(2) (2008.9)

(3) (2013.12)

(4) (1993.9)

(5) < > (1997.7)

(6) 2014.3.14

(7) (2010.11)

(8) ([2007]12)

(9) ([2007]11)

(10) 2007 94 2007.12.24

(11) ([2004]23)

(12) [2009]76

(13) [2014]28

(14) [2008]57

15

2015

2015 [2015]38

1.2.3

(1) HJ2.1-2011

(2) HJ2.2-2008

(3) HJ/T2.3-93

(4) HJ2.4-2009

(5) HJ19-2011

(6) HJ610-2016

(7) HJ/T 169-2004

(8) HJ/T 6-94

(9)

(10) (GB50433-2008)

1.2.4

(1)

2015.11

(2)

2015.11

(3) 2008

(4) 2015 2015 71

2015.6

(5) 1998.10

1.3

1.3.1

1

2015

14# 32# 33# 34# 4

400m

1.6-1 1.6-1

GB3838-2002 III

1.3-1 1.3-2 2

1.3-1

89									
90									

1.3-2 mg/L

	III
pH ( )	6 9
	/
	5
	6
	4
(NH_3-	1.0
	0.05
	0.2 0.05

2

(GB3096-2008)

GB/T 15190-2014 1

1

1.3-3 dB(A)

1	55	45

3

(GB3095-2012)

1.3-4

1.3-4 mg/m^3

	SO_2	NO_2	PM_{10}	TSP
	0.5	0.20	/	/
	0.15	0.08	0.15	0.30

4

1-31081B04

1-31081B05

1-31081B06

1.3-5 3

1.3-5

	1-31081B04	
	1-31081B05	
	1-31081B06	

1.3.2

1

1

GB 5084-92

1.3-6 GB 5084-92 mg/L

BOD_5	80	150	80
COD_{Cr}	200	300	150
	150	200	100
P	5	10	10
	12	30	30

	5	10	1
/L	10000		

GB-T18920-2002

1.3-7 GB-T18920-2002

pH	6.0 9.0				
/	30				
	5	10	10	5	20
	1500	1500	1000	1000	/
BOD_5	10	10	20	10	15
	10	10	20	10	20

2

12

GB-T18920-2002

2

GB12348-2008

1

1.3-8 GB12348-2008

	Leq:dB A	
1	55	45

(GB12523-2011) 1.3-9

1.3-9 dB(A)

70	55
15dB(A)	

3

(GB16297-1996)

1.4.4

SO_2 NO_2

(HJ2.2-2008)

200m

1.4.5

(HJ/T169-2004)

1.5

1.5.1

1

PM_{10} SO_2 NO_2

2

pH BOD_5 DO

3

$L_A$eq

4

5

1.5.2

1.6

1.6.1

1 20.4 m^3 14.99 m^3 1.74km^2 0.069km^2 1.671km^2

2 12 m^3 8.62 m^3 0.58km^2 0.059km^2 0.521km^2

1.6-1 1.6-1

1.6-1

	121.310	28.335
	121.210	28.330
	121.303	28.329
	121.292	28.324
	121.289	28.327
	121.294	28.332
	121.297	28.336
	121.307	28.339
	121.315	28.343
	121.313	28.341
	121.312	28.340
	121.306	28.339
	121.303	28.340
	121.306	28.345
	121.310	28.344

	121.314	28.345

3

14# 32# 33# 34# 4

400m

1.6-1

1.6-1

1.6.2

18# 35# 1 1

1.6-2 5

1.6-2

	m			

DMJ1

NE-SW 250m

560m

2

2.1

60310.79

2.1.1

- Ä 250m 560m *

S226

10km

2.1.2

2MW

N b i

35kV 110kV

1 1

110kV 1 1

35kV 4 1 1

2

)

110kV 35kV 35kV

35kV

2.1.4.3

110kv 13# 450m

1

SVG

10.5m

4.0m 9m

6

2

35kV

35kV 110kVGIS PVC

2.1.4.5

FD002-2007

1

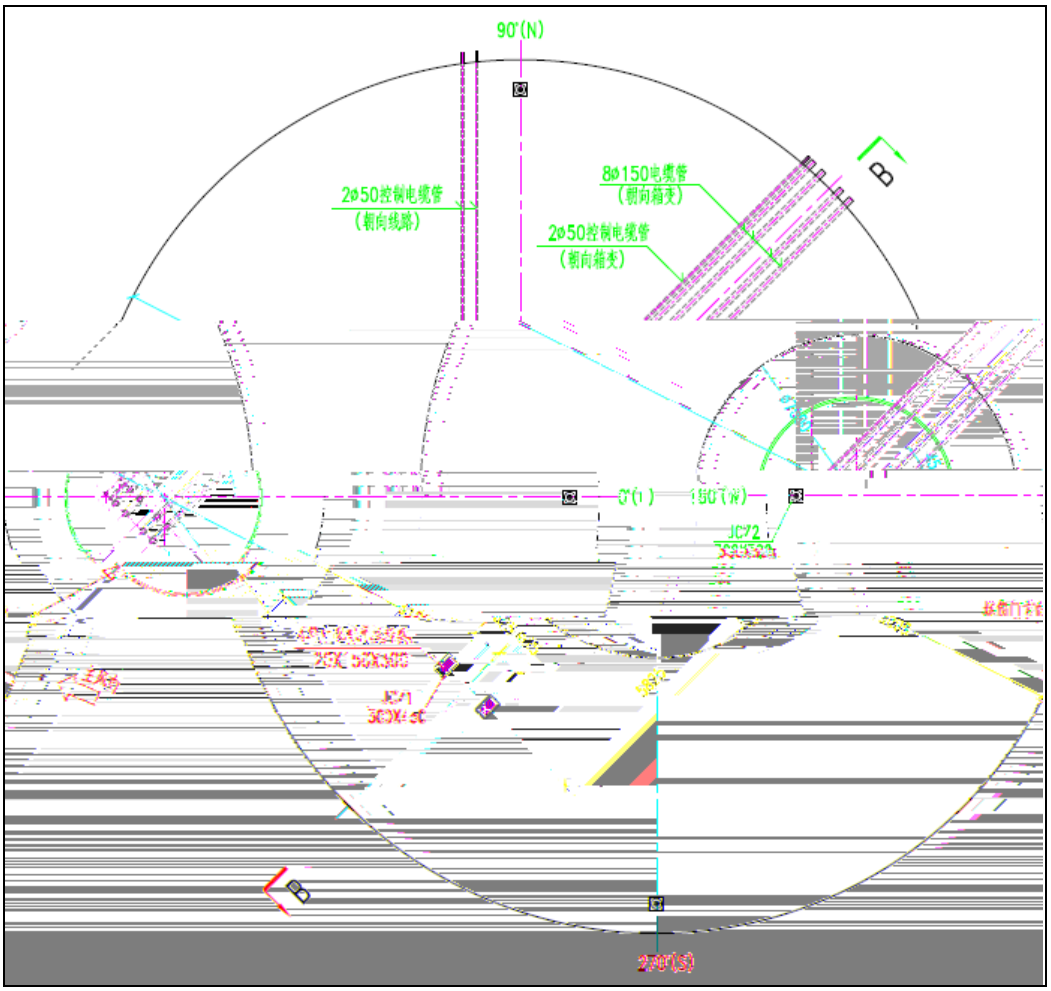
2

C35 C20 19.0m 3.5m

0.90m 7.0m 1.1m

500m^3 2.1-1

4m 5m



2. 1-1

2.1.4.6

25.554km 2.199km

5.5m 4.5m

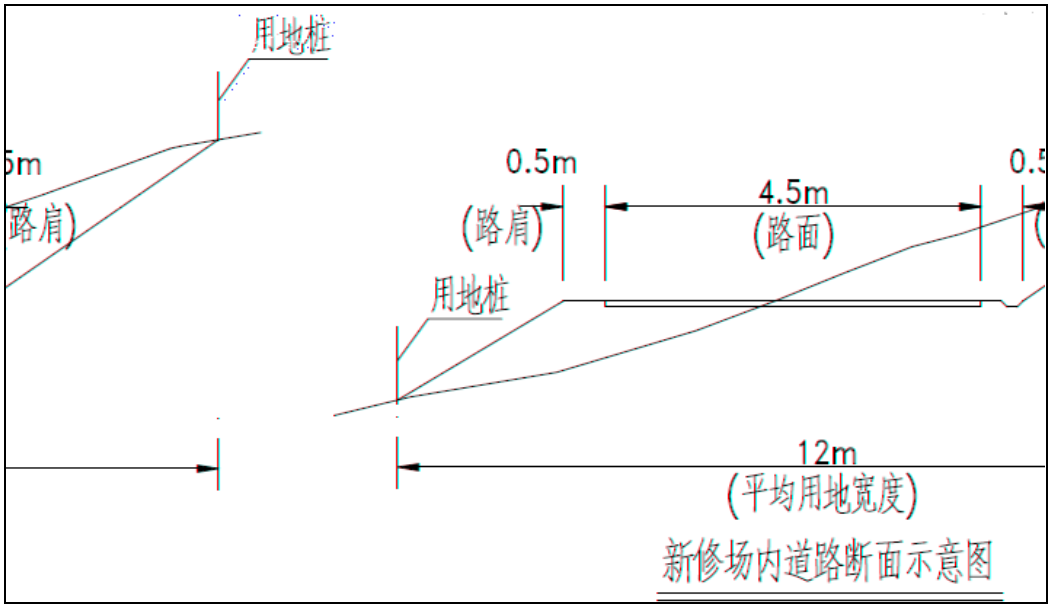
4.5m

JTG D30-2004 GBJ22-87

1

0.5 m 4.5 m 0.5 m

5.5 m 2% 3%



2.1-2

2

1:1.5 8 m 8 m

1:1.75 8 10 m 1.5 m

100mm

150mm

30cm

1:5

1 m 3%

3

1:1.0

10m

1.5 m

1 1

15m

2.1.5

2.1-1

2.1-1

			m	250~560	
				121 17'53.30'	
				28 19'3.93'	
	(70m)		m/s	6.4	
	(70m)		W/m^2	295	
				35	
			Kw	2000	
				3	
			m	103	
			m^2	8430	
			m/s	3	
			m/s	9.9	
			m/s	25	
			m	80	
			kW	2100	
				1.0	-0.95~+0.95
			V	690	
		35kv	2200kVA	35	
			MVA	70	
			kV	110	
				1	
			kV	110	
				35	
				35	

2.1-2

2.1-2

	35 2MW 70MW
	110kV
	27.734km 5.5m
	1 2
	10kV

2.2

2.2.1

1

120kW 30kW 10kV

10/0.38kV

5km

75kW

2

1

X804

S226 X804

2

S226

25.544km

2.199km 5.5m

4.5m

4.5m

2.2.2

1

25.544km

2

1

30cm

1.0m 1 1.25

C35 100mm C15

2mm

1.8t/m^3 3cm

2%

( )

2

800mm

3

1 110kV

5t

4

1)

35

150t

650t

30cm 650t

150t 650t

650t

2)

650t 150t

650t

10~20cm

2

3

10m/s

150t

650t

3~6

150t

150t 650t

5

1)

2)

30

6

0.8m 0.6m

1 0.3

100mm

2.2.3

1

2500m^2

2

1

1.9 m^3

500m^3

2

600m^2 100mm C10 100mm

0.5%

3

2500m^2

4

500m^2 10 1500m^2

2.2.4

47.96hm^2 1.50hm^2 46.46hm^2

2.2-1

2.2-1 hm^2

占地性质	项目组成	小计	林地	交通运输用地
永久占地	风电机组基础	0.99	0.99	
	箱式变基础	0.07	0.07	

2.2.5

66.32 m^3 6.70 m^3 26.96 m^3 32.66 m^3 58.27 m^3 6.70 m^3 21.70 m^3 29.87 m^3 8.05 m^3

2.2-2

2.2-2 m^3

序	挖方						填方								调出		余方		
	去向	土石方	去向				小计	表土	土方	石方	小计	表土	土方	石方	小计	表土	土方	石方	表土	来源	表土
1		4.35		1	安装场地		11.66	0.76	5.07	5.83	8.18	1.63	2.62	3.93	7.31	0.76	2.62	3.93	0.87	5	
2		0.53		2	风机场区	风电机组	3.99	0.19	1.81	1.99	3.51	0.24	1.31	1.96	3.46	0.19	1.31	1.96	0.05	5	
3		0.07		3		箱式变	0.11	0.00	0.05	0.06	0.04	0.00	0.01	0.03	0.04	0.00	0.01	0.03			
		4.95	弃渣场		小计		15.76	0.95	6.93	7.88	11.73	1.87	3.94	5.92	10.81	0.95	3.94	5.92	0.92		
4		0.53		4	110kV 升压站		2.03	0.07	0.94	1.02	1.50	0.07	0.57	0.86	1.50	0.07	0.57	0.86			
	2.88	15.7	21.68			1.82	1、2、7、8	2.57													
	0.45	1.35	1.20																		
	3.33	17.05	22.88			1.82		2.57													
	0.15	0.14	0.21	0.15	5																
	0.38	0.00	0.00	0.83	5																
	4.88	21.7	29.87	1.82		1.82	0	8.05													

5	场内道路和集电线路	场内道路	44.65	4.70	17.60	22.35	40.26	2.88	15.7	21.68	40.26								
6		集电线路	3.00	0.45	1.35	1.20	3.00	0.45	1.35	1.20	3.00								
	小计		47.65	5.15	18.95	23.55	43.26	3.33	17.05	22.88	43.26								
7	施工临时设施		0.50	0.15	0.14	0.21	0.65	0.30	0.14	0.21	0.50								
8	弃渣场		0.38	0.38	0.00	0.00	1.13	1.13	0	0	0.38								
合计			66.32	6.70	26.96	32.66	58.27	6.70	21.7	29.87	56.45								

2.2.6

35 12 8

2.2.7

12 4

8

4

3

3.1

1

2

2016

84.38

3

15241

330 5.030

11.12 0.98

977 342.3

3.2.2

1

1 20.4 m^3 14.99 m^3 1.74km^2 0.069km^2 1.671km^2

2 12 m^3 8.62 m^3 0.58km^2 0.059km^2 0.521km^2

3

14# 32# 33# 34# 4

400m

1.6-1

2

3.3

3.3.1

500

3.3.2

，

，

，　　，

3.3.3

3.4

$_{1-3}$1081B04

$_{1-3}$1081B05

$_{1-3}$1081B06　　3

3.4.1

1　　$_{1-3}$1081B04

1

77.77km^2　　2.3

2

80%

50% 75%

3

2 1-3 1081B05

1

85.15km² 3.4

22.9 18.7 57.2

76

2

3

COD

25

3 1-3 1081B06

1

31.41 km^2 1

2

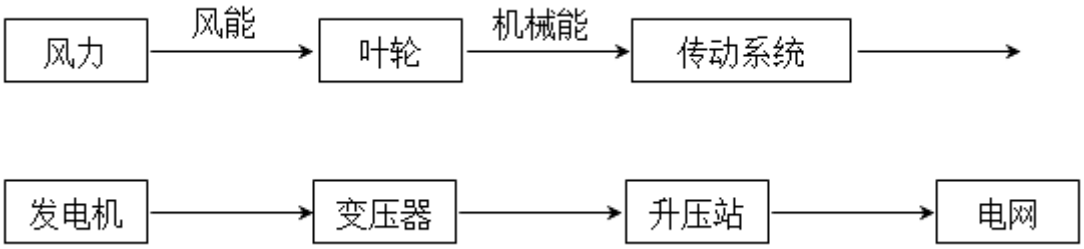
100%

3

3.4.2

4

4.1



4. 1-1

4.2

4.2.1

1

2

3

4

5

4.2.2

1

2

3

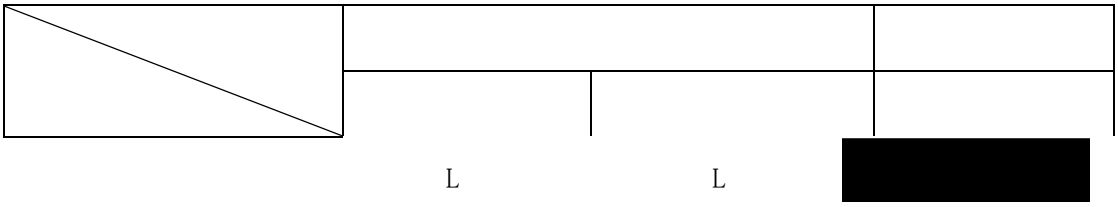
4

5

6

35kV 110kV 18

4.2-1



COD_{Cr} NH_3-H SS

COD_{Cr} 350mg/L NH_3-H 30mg/L

100 /d 0.1m^3/ d 80%

8m^3/d

(2)

1m^3/h

COD_{Cr} 20mg/L COD_{Cr}

150mg/L COD_{Cr} 0.0483kg/d 3.6kg/d

1.9 m^3 45m^3/h

SS pH(9~12)

0.1m^3

1.5 0.25 m^3

4.3.2

TSP NO_2

4.3.3

95dB

70 90dB

4.3-1

4.3-1

	5m	10m		5m	10m
	82~90	78~86		92~100	86~94
	80~86	75~83		100~110	95~105

	90~95	85~91		70~75	68~73
	83~88	80~85		88~92	83~87
	95~102	90~98		88~95	84~90
	80~90	76~86		85~90	82~84
	82~90	78~86		80~88	75~84
	93~99	90~95		90~96	84~90
	100~105	95~99		88~92	83~88

X804

0.5kg

100m 85dB

4.3.4

(1)

8.05 m^3

(2)

0.5kg/

0.05t/d

4.4

4.4.1

COD_{Cr} NH_3-N BOD_5 SS

12 100L/d 360d

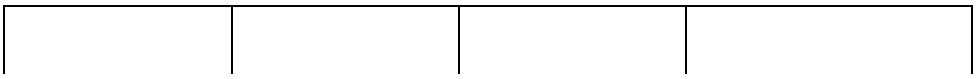
432 m^3/a 0.8

345.6m^3/a COD_{Cr} SS

350 mg/L 250 mg/L 30 mg/L COD_{Cr} 0.12

t/a SS 0.09t/a 0.01 t/a 4.4-1

4.4-1



12 100L/d 345.6t/a

GB-T18920-2002

4.5.2

25.544km X804

2.199km

200 2

4.5.3

350m

4.5.4

8.05 m^3

3 4.5-1 5

4.5-1

		土地利用	面积	堆渣量	容量

300

5

5.1

5.1.1

28 °12 45 28 °32 05

NE-SW 250m

560m S226

10 km 1

5.1.2

136d 80%

17.3 252d 1861.1h

1270.2mm 104.8 / 1649.6mm

169d 3-6 8-9

5 1

5.1.3

1494km 31.06km^2

6253.9 m^3 4916.3 m^3 3

16 331

693.05 km^2

59.1%

109.53 km^2 70.64%

51 km^2

170 km^2

14# 32# 33# 34# 4

400m

20.4 m^3

14.99 m^3 1.74km^2 0.069km^2

1.671km^2 12 m^3 8.62

m^3 0.58km^2 0.059km^2 0.5211FEB312A10A2E2B62 /P0

(GB50011-2010)

GB50011-2010

6

5.1.5

55.5km 35.9km

925.82km^2 387.3km^2 490.62km^2 47.9km^2

733.9m

2.5 ~

3.0 1.47 km^2 177 14.89 km^2

316.91km(147.5km) 20m 924.05 km^2

155.39 km^2

-

250m 560m

5.1.6

0.06% 48.29% 2.35% 43.85% 5.45%

600m

600m

PH 4.8 6.1 5.70% 0.24%

0.057% 10~20cm

5.1.7

5.2

5.2.1

926km^2 1079 km^2 170
317km 155 km^2 104
300km

2014 121.8 2014
802.22 7.6% 66065
7.0% 58.31 2.0%
365.28 7.7% 378.62
8.3% 7.6 46.2 46.2 7.3 45.5
47.2 87.71 11.6%
47.84 9.1%
41225 8.5% 21786
10.7%

5.2.2

1469 12 1994

34.7 km^2 25km
11km 45km 2001 2 14

19 15.8 2.71

6.8

2014 16.44 9.38

23.1 40.23 20.9%

25535 10.5% 1

7

5.2.3

109.29 km^2 76

75764 2013 1.1458 17.5

6029.3 25.8 32.25 8.82

14896 11

5.2.4

34.45 km^2 18

1 26286 1.61 8000 2013

14.31 15.2

2165.3 965.5 29.2

25.9 14150 10.9

6

6.1

1

3

5

2

pH DO BOD_5

3

2015 12 2 ~3 2 2

4

5

6.1-1

6.1-1 (mg/L pH)

		12 02		12 03		(III)
1#	pH	7.62	7.63	7.60	7.61	6~9
		4.5	4.2	4.4	4.2	6
		0.706	0.700	0.712	0.723	1.0
		10	9	10	8	/
		0.112	0.102	0.108	0.108	0.2
		3.5	3.4	3.3	3.4	20
		0.04	0.05	0.04	0.05	0.05
		5.3	5.7	5.4	5.4	5
2#	pH	7.75	7.76	7.74	7.75	6~9
		4.1	4.3	4.3	4.3	6
		0.648	0.631	0.654	0.660	1.0
		8	11	9	8	/

		0.102	0.107	0.111	0.106	0.2
		3.4	3.3	3.5	3.4	20
		0.04	0.04	0.04	0.04	0.05
		5.5	5.3	5.2	5.2	5
3#	pH	7.48	7.50	7.49	7.50	6~9
		4.2	4.3	4.2	4.2	6
		0.613	0.619	0.625	0.613	1.0
		10	9	11	8	/
		0.102	0.101	0.107	0.107	0.2
		3.5	3.3	3.5	3.3	20
		0.05	0.04	0.04	0.04	0.05
		5.4	5.6	5.6	5.6	5

6

6.1-1

III

6.2

1

2

SO_2 NO_2 TSP PM_{10}

3

2015 12 2 ~8 7 SO_2 NO_2 4 TSP PM_{10}

4

6.2-1

6.2-1

1			HJ 482-2009
2			HJ 479-2009

3	PM10		HJ 618-2011
4	TSP		GB/T 15432-1995

5

SO_2 0.018-0.038mg/m^3 NO_2 0.032-0.049mg/m^3 TSP 0.213~0.294mg/m^3 PM_{10} 0.081-0.090mg/m^3

6.2-2 mg/m3

			mg/m3							
			12 2	12 3	12 4	12 5	12 6	12 7	12 8	
1#		02	0.035	0.022	0.033	0.035	0.032	0.037	0.034	0.2
		08	0.028	0.023	0.021	0.031	0.030	0.023	0.027	
		14	0.024	0.018	0.028	0.026	0.033	0.027	0.024	
		20	0.030	0.027	0.026	0.026	0.018	0.030	0.025	
		02	0.031	0.032	0.036	0.039	0.043	0.035	0.033	0.5
		08	0.032	0.035	0.031	0.044	0.037	0.034	0.034	
		14	0.034	0.032	0.032	0.041	0.036	0.041	0.035	
		20	0.035	0.031	0.033	0.039	0.041	0.045	0.032	
	PM_{10}		0.102	0.103	0.104	0.100	0.104	0.104	0.093	0.15
	TSP		0.276	0.257	0.287	0.234	0.273	0.269	0.273	0.30
2#		02	0.028	0.030	0.038	0.038	0.035	0.037	0.036	0.2
		08	0.023	0.023	0.027	0.023	0.030	0.027	0.030	
		14	0.026	0.024	0.031	0.028	0.024	0.022	0.027	
		20	0.020	0.027	0.025	0.025	0.028	0.030	0.022	
		02	0.037	0.044	0.039	0.038	0.043	0.035	0.033	0.5
		08	0.041	0.043	0.041	0.035	0.042	0.031	0.032	
		14	0.041	0.047	0.038	0.041	0.039	0.031	0.041	
		20	0.038	0.046	0.045	0.045	0.037	0.034	0.032	
	PM_{10}		0.096	0.104	0.098	0.096	0.098	0.098	0.088	0.15
	TSP		0.261	0.287	0.291	0.268	0.278	0.277	0.234	0.30

6.2-3

			m/s		kPa	
2015.12.02	02 00	N	1.14	8.0	101.2	
	08 00	N	1.21	10.2	101.2	
	14 00	N	1.24	14.2	101.2	
	20 00	N	1.10	7.2	101.2	
2015.12.03	02 00	N	1.32	7.4	101.2	
	08 00	N	1.14	11.6	101.2	
	14 00	N	1.23	12.7	101.2	
	20 00	N	1.12	8.1	101.2	
2015.12.04	02 00	N	1.14	7.6	101.2	
	08 00	N	1.26	12.6	101.2	
	14 00	N	1.23	14.5	101.2	
	20 00	N	1.22	8.4	101.2	
2015.12.05	02 00	N	1.21	8.2	101.2	
	08 00	N	1.24	12.3	101.2	
	14 00	N	1.30	13.4	101.2	
	20 00	N	1.32	7.9	101.2	
2015.12.06	02 00	N	1.24	7.8	101.2	
	08 00	N	1.24	11.6	101.2	

2015 12 6-7

SG2012-XJ01

3

6.3-1

6.3-1 dB

		L_{eq}		
1#		52.1	55	
		42.8	45	
2#		51.2	55	
		43.8	45	
3#		51.6	55	
		43.2	45	
4#		52.0	55	
		43.2	45	

5#

0.057% 10~20cm

6.4.2

70%

6.4.3

19 35 100

40 27

2001

500

6.4.4

926km^2 44.41hm^2

1.50hm^2 42.91hm^2 98.8%

Ý ± EŸ ⌈ ‰D %bV$"V$B {AîAÑ.& ÙÑ@áC

7

7.1

7.1.1

1

0.25 m^3

COD_{Cr} SS

(GB/T18920-2002)

2

COD_{Cr}

BOD_5 $8m^3$

1 1 1

7.1.2

1

60%

4 5

70%

4 5 /d TSP 20 50m

200 2

200 2

110kV

1000m

2

7.1.3

1

7.1-1

7.1-1

	5m	10m		5m	10m
	82~90	78~86		92~100	86~94
	80~86	75~83		100~110	95~105
	90~95	85~91		70~75	68~73
	83~88	80~85		88~92	83~87
	95~102	90~98		88~95	84~90
	80~90	76~86		85~90	82~84
	82~90	78~86		80~88	75~84
	93~99	90~95		90~96	84~90

7.1-2

	[dB(A)]	[dB(A)]								
		20	50	100	150	200	300	400	600	1000
		(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
	85	58.8	50.5	44	40	37	32.5	29	23.4	15
	90	63.8	55.5	49	45	42	37.5	34	28.4	20
	86	59.8	51.5	45	41	38	33.5	30	24.4	16
	100	73.8	65.5	59	55	52	47.5	44	38.4	30
	79	52.8	44.5	38	34	31	26.5	23	17.4	9
	86	59.8	51.5	45	41	38	33.5	30	24.4	16
	105	78.8	70.5	64	60	57	52.5	49	43.4	35

7.1-2 100m 70dB 300m

55dB

376m 1096m

3

100m

100dB

4

25.544km

2.199km 200 2 200

2

7.1.4

1

0.05t/d

2

8.05 m^3

3

7.1.5

1

2

3

47.96hm^2 1.50hm^2 46.46hm^2

25.544km

2.199km

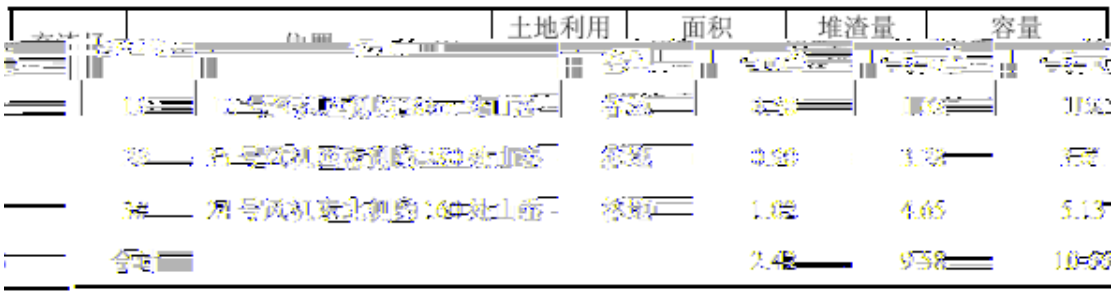
4

8.05 m^3 3

3 7.1-4

5

7.1-4



300

7.2

7.2.1

12

345.6m^3/a

7.2.2

1

$$L_{A\alpha}=L_W-20\lg r_0+DI_\alpha-8$$

$L_{A\alpha}$ r_0 A

L_W A 103dB A

DI_{α}

$$L_p = 10 \lg(\sum_{i=1}^{n} 10^{0.1 L_{pi}})$$

L_p dB

L_{pi} I dB

DI_{α} 7.2-1

7.2-1 DI_{α}

	=0°				=180°				
	0	30	45	60	90	120	135	150	180
	0	-0.7	-2.1	-4.3	-8.9	-5.3	-3.5	-2.4	-2
	0	-0.6	-2.1	-4.2	-8.3	-5.2	-3.5	-2.4	-2
	0	-0.5	-1.9	-4.0	-8.1	-5.0	-3.3	-2.3	-2
DI_{α}	**0**	**-0.6**	**-2.0**	**-4.1**	**-8.5**	**-5.1**	**-3.4**	**-2.3**	**-2**

103m

r_0

7.2-2

7.2-2 dB(A)

r_0(m)	0	30	**45**	60	90	120	**135**	150	180
110	54.2	53.6	**52.2**	50.1	45.7	49.1	**50.8**	51.9	52.2
200	49	48.4	**47**	44.9	40.5	43.9	**45.6**	46.7	47

300	45.5	44.9	**43.5**	41.4	37	40.4	**42.1**	43.2	43.5
400	43	42.4	**41**	38.9	34.5	37.9	**39.6**	40.7	41
376 1	43.3	42.7	**41.3**	39.2	34.8	38.2	**39.9**	41.0	41.3
558	40	39.4	**38.0**	35.9	31.5	34.9	**36.6**	37.7	38.0

300m 46

dB A 1

39.9 dB A

7.2-3

7.2-3 dB A

1		42.1	51.5	44.4	52.0	46.4	1	1.4dB

1

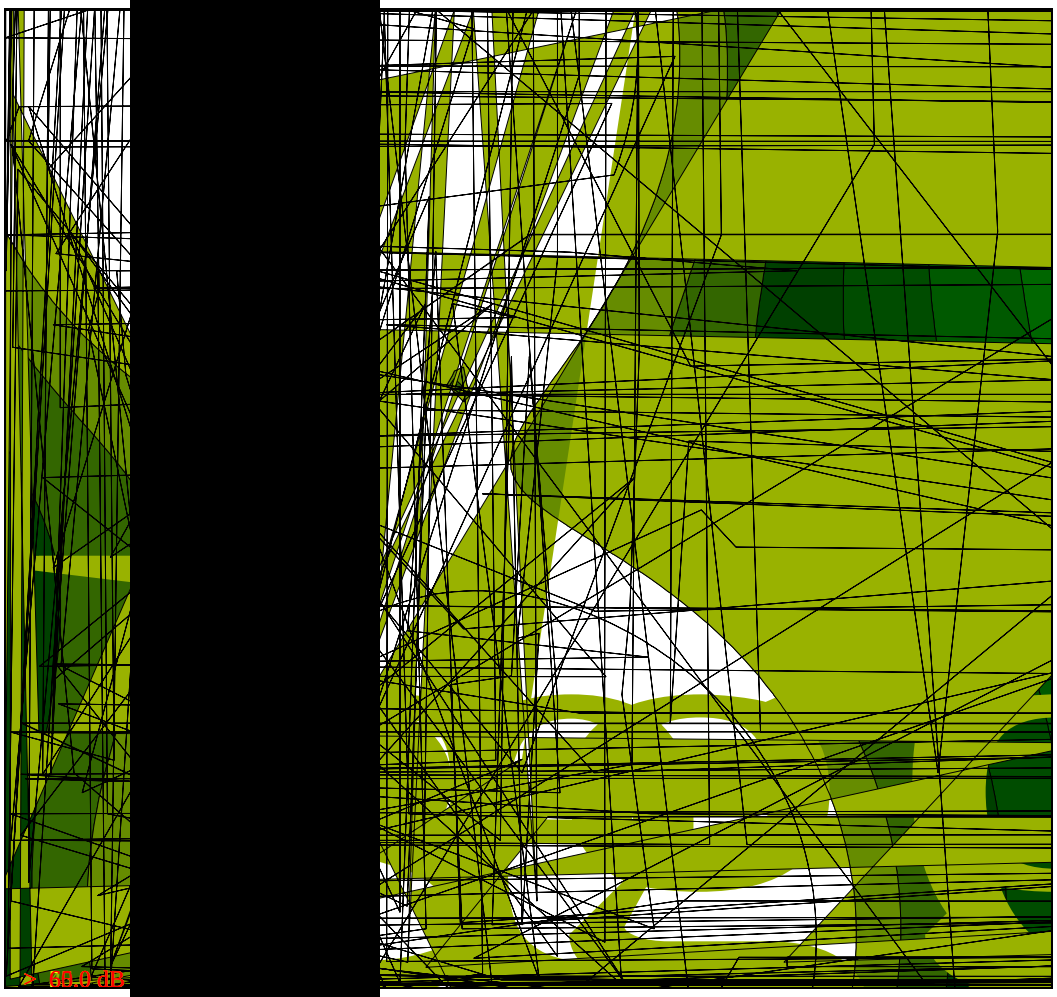
42.1dB 1

1.4dB 1 55 45dB

18# 35#

300m

18# 35#



2-1

2

110kV

V 1

x +54.806

	L_A dB A
	54.8
	54.4
	54.2
15	54.0

14373BDC

5m 54.4dB A 27m
53.5dB 35m 53.2dB
GB12348-2008 1 8.2~9.4dB
A 54m 43.3dB
1
200m
1096m

7.2.3
7.2.3.1

1

2

300m
300m 300 3600m 450m 500m
900m 80m 115m
160m

100 200m

0.1%~0.01%

3m/s

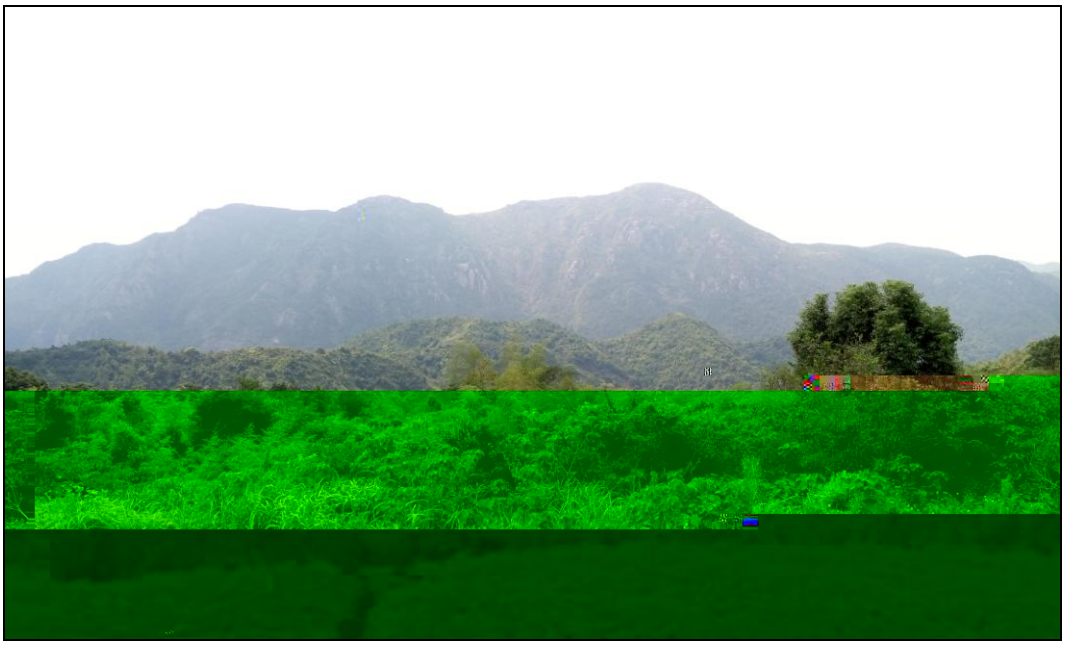
350m

7.2.3.2

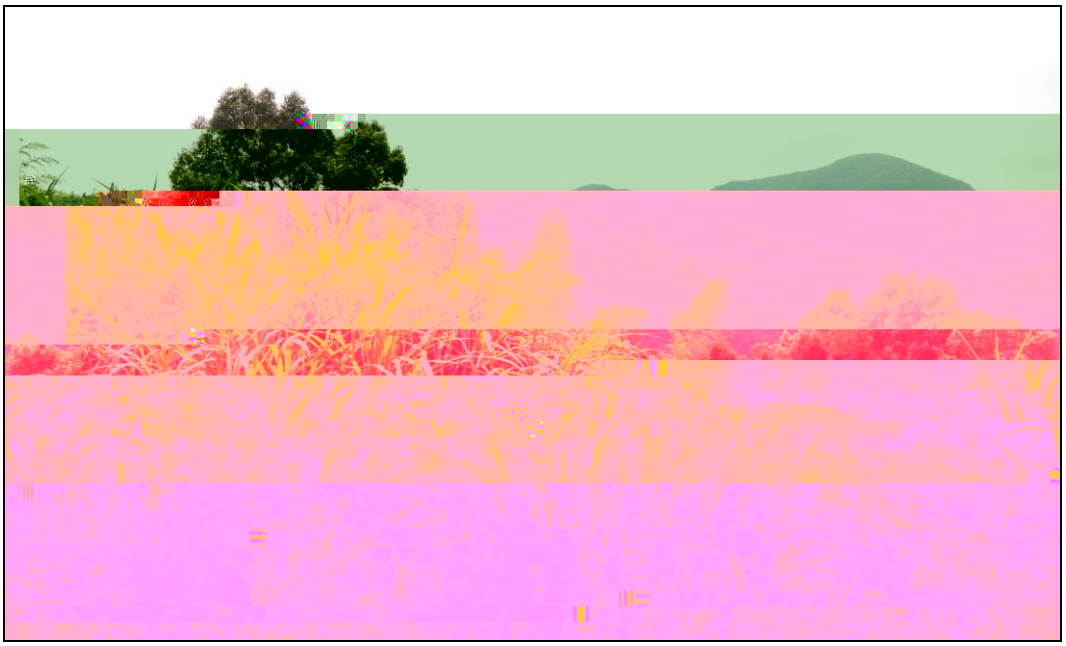
1

–

250m 560m



7.2-1



7.2-2

7.2-3

2

7.2-5

7.2-5

	4	3	2	1

22 25

80m 103m 132m

250-560m 10

15

-

0

2003

/

7.2-4

20

30

7.2-5

16

20

8 10

76 7.2-6 2

7.2-4 2

7.2.4

4.38 /

8

8.1

(1)

(2)

8.2

8.2.1

1

SO_2 NO_x

2

8.2.2

14# 32# 33# 34# 4

400m 8#~10# 15# 18# 35#

1667m

8.3

1

JT3130-88 GB13392-92

2

3

5

6

7

8

9

10

8.4

8.4.1

24

8.4.2

8#~10# 14# 15# 18# 32# 33# 34# 35#

1

2

8.4.3

SS

3

50cm

4

8#~10# 14# 15# 18#

32# 33# 34#

9.1.2

1

1 4 5

2

200m

3

4

9.1.3

( )

90dB(A)

9.1.4

9.1.5

1

9.3

2

3

1750 1750

0.05hm2 0.16hm² 0.21hm²

6.90hm² 23260 23260

2875 2875 2.30hm²

4

(1)

(2)

(3)

(4)

(5)

(6)

9.1.6

0.8m 0.6m

1

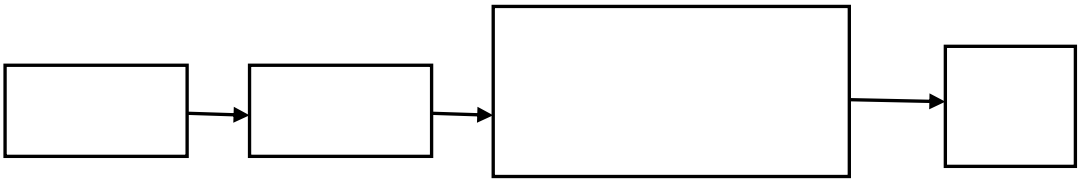
2

3

4

9.2

9.2.1



9.2-1

9.2.2

7.2.2 1

42.1dB 1

1.4dB 1 55 45dB

1 18# 35#

2

9.2.3

9.3

5

1 12.35hm^2 0.95 m^3 6.03hm^2 1.05 m^3 1750m 35 5.24hm^2 1750 1750 5.33hm^2 19250m^2 2800m

2 0.66hm^2 0.07 m^3 0.16hm^2 0.07 m^3 280m 1 0.05hm^2 0.16hm^2 0.21hm^2 160m

3 69.76hm^2 5.23 m^3 3.33 m^3 23260m 25 23260 23260 9.90hm^2 11.06hm^2 23500m

4 3.44hm^2 0.38 m^3 2.30hm^2 1.21 m^3 250m 1285m 2875 2875 2.30hm^2 2.30hm^2

5 6.51hm^2 0.15 m^3 1.00hm^2 0.30 m^3 4910 4910 3.93hm^2 3.93hm^2 1720m 10 3400m

10

10.1

10.1.2

1

2

(1)

(2)

10.1.3

1

2

10.2

10.2.1

166

10.2.2

10.2.3

1

(1)

(2)

2

(1)

(2)

(3)

(4)

(5)

(6)

10.3

10.3.1

10.3.2

10.3-1 10.3-2

10.3.3

5

15

20

10.3.4

10.3-1

		PM_{10}	1 /1	2				
		pH	1 /1	2				

10.3-2

		pH DO BOD_5	/			
		L_{Aeq}	/			
			/			

10.4

10.4-1

10.4-1

( )		

( )		
( )		
	200 A	GB3096-2008 GB12348-2008 GB12523-2011

		GB3095-2012 GB16297-1996
	pH COD_{Cr} BOD_5	GB3838-2002 GB-T18920-2002 GB 5084-92
	( )	

11

11.1

11.1-1

163

60310.79 0.27%

11.1-1

		( )
		28
1		8
2		20
		5
1		5

70MW

3

15241

330 5.030

12

12.1

12.2

1

2015 11 22 12 4

2015 12 21 2016 1 4

2

12.3

20 51 20

51 100%

12.3-1

12.3-2 12.3-3

12.3-1

12.3-2

12.4

12.4.1

20 12.4-1

12.4-1

				(%)
1			11	55
			8	40
			1	5
2			11	55
			9	45
			0	0
3			9	45
			11	55
			0	0
4			9	45
			5	25
			3	15
			8	40
			3	15
5			14	70
			6	30
			0	0
6			9	45
			11	55

10%

90% 10%

12.4.2

51 12.4-2

12.4-2

				(%)
1			35	68.6
			15	29.4
			1	2.0
2			33	64.7
			18	35.3
			0	0
3			37	72.5
			13	25.5
			1	2.0
4			5	9.8
			16	31.4
			2	3.9
			26	51.0
			5	9.8
5			39	76.5
			12	23.5
			0	0
6			21	41.2
			29	56.9
			1	2.0
7			7	13.7
			12	23.5
			3	5.9
			26	51.0
			9	17.6
8			2	3.9
			30	58.8
			4	7.8
			10	19.6
			9	17.6
9			44	86.3
			0	0

			7	13.7
10			28	54.9
			10	19.6
			13	25.5

12.4-2

68.6% 29.4% 2.0%

64.7% 35.3%

72.5% 25.5%

2.0%

51.0% 31.4%

9.8% 3.9%

76.5 % 23.5%

41.2% 56.9%

2.0%

51.0% 23.5%

17.6% 13.7%

5.9%

58.8% 19.6%

17.6% 7.8%

3.9%

86.3% 13.7%

12.5

13

13.1

13.1.1

1-3 1081B04

1-3 1081B05

1-3 1081B06

3

13.1.2

13.1.3

2012 10

13.1.4

13.1.5

13.1.6

13.1.7

13.1.8

20 50

13.2

13.2.1

500

13.2.2

(2011) ( ) ( )

( ) 2

13.2.3

14

14.1

10km

2000kW 35 70MW

110kV

- 35

2MW 70MW

250m 560m

13# 450m

25.554km 2.199km

5.5m 4.5m

4.5m

60310.79

14.2

14.2.1

III

14.2.2

2

GB3095-2012

14.2.3

9

(GB3096-2008) 1

14.3

14.3.1

1

(GB/T18920-2002)

2

3

4

5

25.554km

14.3.2

1

2

300m

46 dB A 2

39.9 dB A

1 42.1dB

1 1.4dB 1

55 45dB

18# 35#

300m

18# 35#

6

5m 54.4dB A 27m

53.5dB 35m 53.2dB

GB12348-2008 1 8.2~9.4dB

A 54m 43.3dB

1

200m

1096m

3

HJ/T 6-94

4

76 2

4

GB 18597-2001

14.4

14.4-1

14.4-1

		/		/
			3	
		6m^3 35	6m^3	25
		/		/
				/
				/

14.5

163 60310.79

0.27%

14.6