┼

Ţ ﭻ . ﭪ м Ὲ ∨ ˆ ɣ Ӣ ∨ ˜ ᵝ ɢ

ﭿ Â ﮾ ч Â һ ɽ Ӈ ȁ ﭽ ﭪ ʒ Ⱶ Â

ê ˧ . ﭽ Ȉ 2015 ˜˘ ȉ ˜ 1674 ч ˘ ȉ Ů60Ņ Â

ê Ţ ˧ ˮ ﻉ ﭻ ȁ Ţ ˧ ˮ ﻉ ﭻ ʒ ﻉ Ḥ . ȁ Ţ ˧ ˮ ﻉ

ﭻ Ὲ ȁ Ţ ˧ ˮ ﻉ ﭻ ȁ Ţ ˧ ˮ ﻉ ﭻ ˊ ȁ Ţ ˧ ˮ ﻉ ﭻ

ˋ ʒ ˊ ȁ Ţ ˧ ˮ ﻉ ﭻ ﭻ ˧ ã 2 ᴪ ȁ ﭻ ﮈ ȁ ﭻ

ȁ Ţ ﭻ Ὲ ɒ Ȉˆ 2022 8˜˘ 2023 1 1 ˜˜ ˘ ˧ . ﭽ

˜ 1674 ч ˆ ˜ Â ﭿ ˘ ȉ ȁ ﮅ ˧ .

ﭽ’ ˘ ê ﭻ ɳ ˜ ɢ Ὲ ˧ . ﭽ Ȉ

˜ ˘ ч ˧ . ﭽ’ ê ≢ ˧ . ﭽ ˆ ѿ ˜ Ȉ

˜ ˘ ɢ ≢ ˧ . ﭽ Â

ê Ţ ˧ ˮ ﻉ ﭻ ɳ ˚ Ȉ ȁ ê ˧ . ﭽ ɳ ᴅ Ȉ ȉ ê ˧ .

ﭽ ˜ Ѡ Ȉ ˘ ﭻ ˧ . ﭽ ˜ ᴸ ’ ȕ

˜ ˘ ᴋ ᵥ ˧ ᵝ ﻉ ɷ ƀ ˧ . ﭽ Â ∨ ɢ 2023 5 13

ȕ ê ˧ . ﭽ ˜ Ȉ Â ȉ ˜ ч 3 ˘ ˜ U

ɽ Ӈ ˧ . ﭽ ˘ ﺿ ˜ ╠ h ₮

Â ɳ ᴇ ɒ Ѡ ˜ Ð Ḩ ѿ Â ˘ ‰ ʅ ═

˘ ȕ ˜ Â Ղ ↕˘ ƀ ˧ . ﭽ Â

ч ˘ Ţ ﭻ . ﭪ м Ὲ №Ὲ ȉ ɳ ᴇ

’ ɳ Ὲ ˘ ﭻ ȁ ȁ ȉ ‰ ˘

ȉ Ð ɳ ᴇ ᴸ ɳ ᴇ ɒ Â

ɒ ᴸ Ţ˘ ⌠ ∨ ˜ ˮ ȉ ọ ƀ 2 ʐ ˘ ﺿ

һ ɀ ᶅ ˪ ɒ Ţ ﻉ ƀ Ḩ ˘ ﻉ Ƒ Â

1. 1
1.1 ɳ ᴇ 1
1.2 ɳ ᴇ ɰ 1
1.3 ɳ ᴇ ݗ 5
1.4 ɳ ᴇ 5
2. ษ ' 7
2.1 ض ᵝ ї ɰ ' 7
2.2 ȁ ض Ð 7
2.3 9
2.4 h ї

Χ̡ ؤ . ڦ ø ´ ˂ . ڔ Ѝ м ҷ

ᴴ Н

ŋ̣ ᴇ ˈ ڇ ˜ ŋ̣ ̎ ۼ ڇ ʒ

‰ Ѣ ż d̮ d̮

Ѣ Ѝ

ˆ 8˜ ê ῃ ᵒᵒ Ƕ Ἳ^ ۑ ῃ ᵒᵒ פ 16 ˜ ˘ 2008 2 1 ˜

ˆ 9˜ ê ῃ ᵒᵒ W Ἳ^ ۑ ῃ ᵒᵒ פ 44˜ ˘ 2015 5 29 ۑ ῃ פ 80˜ ḱ ˘ 2015 7 1 ˜

ˆ 10˜ ê ⊣ . ج ˜ W Ἳ ۑ ῃ ᵒᵒ פ 55˜ ˘ 2015 3 23 ۑ ῃ פ 79˜ ḱ ˘ 2015 7 1 ˜

ˆ 11˜ ê ᵒᵒ ῃ Ƕ W Ἳ^ פ 2˜ ˘ 2019 9 1 ˜

ˆ 12˜ ê ج W Ἳ^ ۮ ⊦ פ 4˜ ˘ 2025 9 1 ˜

ˆ 13˜ ê ۑ ⊦ W`E ⊣ ˜ G ˩ ج ΰ Ἳ^ ۑ W ΰ Ȑ 2025 ȓ 5 ˜ ˘ 2025 1 27 ΰ ˜

ˆ 14˜ ê ۑ ⊦ ῃ ᵒᵒ 2 ψ ˜ G ⊣ ΰ < ῃ ۑ ⊣ . ج ῃ Ţ > Ἳ^ Ȑ 2021 ȓ 12˜ ˘ 2021 12 31 ΰ ˜

ˆ 15˜ ê ۑ ⊦ ῃ ᵒᵒ 2 ψ ⊣ ΰè ˜ G ῶ . ῃ ᵒᵒ κ ۻ ₌ ˪ Ƕ Ê Ἳ^ Ȑ 2022 ȓ 6˜ ˘ 2022 4 2 ΰ ˜

ˆ 16˜ ۑ ⊦ ψ ˜ G ⊣ ΰ ê ˜ G . ⊣ . ج ľ ῶ Ð Ƕ Ŀ ῃ ῃ Ἳ ^ Ȑ 2025 ȓ 4˜ ˘ 2025 2 10 ΰ ˜

ˆ 17˜ ê ۑ ῃ W`E ⊣ ˜ G ῶ ɤ ɤ ῃ ᵒᵒ ƀ Ἳ ⊣ ᪵ Ȑ 2016 ȓ 8˜ ˘ 2016 2 5 ˜

ˆ 18˜ ê ⊣ . ج ˆ 2015 ˜ Ἳ^ ۑ ῃ ᵒᵒ Ѵ `E ҏ 2015 5˜ ˘ 2015 5 1 ˜

ˆ 19˜ ê ₌ < ⊣ . ج ˆ 2015 ˜ >˘ “1674 [≤60 Ņ]” ԝ “1674 ” `E ҏ Ἳ^ à ʓ ۼ Ḥ . à `E à à´ à ʽ ʓ ʽ à ⊣ ẫ à ۺ à à Ѵ `E ҏ Â 2022 8˜ ˘ 2023 1 1 ˜

ˆ 20˜ ê W`E ⊣ ˜ G ḱ < ⊣ . ج ˆ 2015 ˜ Ѵ ˜ > ï № ṗ Ἳ^ ⊣ ₱ Ȑ 2022 ȓ 300˜ ˘ 2023 1 1 ˜

ˆ 21˜ ê W`E ⊣ ˜ G Ạ ῃ ˜ ˜ ƀ Ἳ ⊣ ₱ Ȑ 2022 ȓ 317˜ ˘ 2022 12 20 ˜

ˆ 22˜ ê ≢ ˧ . ﭺ ˆ w̅ ˜ Ï̀ ʒ ﻍ Ḥ . Ȅ

ˊ Ȅ ꝕ 2020 1˜ ˘ 2020 5 30 ǖ ˜

ˆ 23˜ ê ﭾ ɳ W̓Ȅ ˧ ˀ ɢ ˧ ǖ ɳ W̓Ȅ ˧ ˀ ɢ

1.2.2.

(1) GB50156-2021

(2) GB 6944-2025

(3) GB 12268-2025

(4) GB 18218-2018

(5) GB 17914 2013

(6) GB 50058-2014

(7) AQ 3009-2007

(8) GB/T 6441-1986

(9) GB/T 13861-2022

(10) GB 50140-2005

(11) GB 50057-2010

(12) GB 12158-2024

(13) SH/T 3178-2015

(14) GB 50395-2007

(15) GB/T 29639-2020

(16) YJ/T 9007-2019

(17) (AQ 3010-2022)

(18) GB30871-2022

(19) (XF/T 3004-2020)

(20) GB55036-2022

(21) GB/T 13869-2017

(22) GB/T 34661-2017

(23) GB/T 35579-2017

(24) GB/T 50759-2022

(25) AQ 8001-2007

1.2.3. ĭ̋

ˆ 1˜ ê ῃ ᴇ Ì̀ ﯾﺠ ῃ ᵒᵒ ˆ 2005 4 ˜

ˆ 2˜ ê ˧ . ﭽ ˧ ᵝ ῃ Ì̀ ﯾﺠ ῃ ᵒᵒ ˆ 2002 11 ˜

ˆ 3˜ ê ˧ . ﭽ ῃ ῃ й Ì̀ ɰ ﯾﺠ . ʒ Ŧ ˆ 2003 7 ˜

1.3 ̀Н м ﻬ

ˆ 1˜ ỽ ί Đ˘ ˜ ầ ’

ˆ 2˜ ỽ ﭬ ﭽ ﻍ ˧ ﻍ № ’

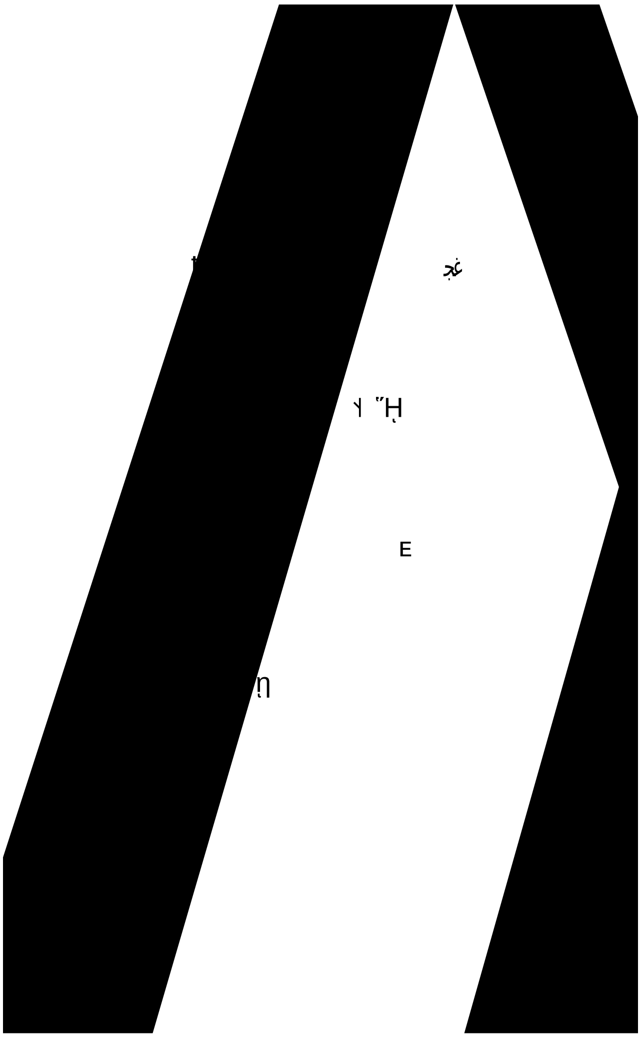
ˆ 3˜ ỽ ῃ ’

ˆ 4˜ ỽ ῃ ᴸ ’

ˆ 5˜ ỽ Ⴙ Â

1.4 ̀Н м

ῃ ᴇ ˊ ╠ ‰ ˘ ƅ № ˧ ầ ﻏﺒ ˘ ⅞№ ᴇ ˧ ˝Ḥ̆ ầ ᴇ˘ Ŧ ῃ ˘ Ạ Ŧ ᴇ ˘ ᴸ ῃ ᴇ ɚ˘ ﯾﺠ 1-1 Â ί ʳ ᴇ ч‘ ’ ῃ ̀Ẽ ﺿﻲ ƅ Ţ ﯾﺠ . ﭬ м ̀Ẽ №̀Ẽ ჯ Ͱ ̤ U˘ ˧ Ғ ʒ ̤ 2 ỽ ɰ ầ ῤ ˘ ĭ̋ ˜ ﺸﻲ ˘ ί̀ ﭬ Ţ̃ Ŧ ˧ ầ ﻏﺒ № ˘ ᾰ̋ ﯾﺠ ῤ ỽ ῃ ﻍ Ⴙ ᴅ˘ ɣ ˧ ﻍ ﻏﺒ № ƅ ˘ Ạ Ŧ ῃ ᴇ Â



ﺒﻣ 1-1 м ɍ l ̀Y ű

ˆ 2˜

شخ 69%

شخ 67%

شخ ˆ 7 ˜ 78%

شخ ˆ 1 ˜ 61%

ˆ 3˜ ˧

شخ ˧ 101.2kPa

˧ 103.9kPa

ᵞ ˧ 96.9kPa

ˆ 4˜

شخ 755.4mm

997.3mm

520.5mm

ѿ 178.8mm

ѿ 42.6mm

ˆ 5˜

250.0mm

ˆ 6˜

h h ˨

˥ h h .

شخ ҹ 3.2m/s

ҹ 23m/s

ˆ 7˜

شخ 28.3d

42d

ˆ 8˜ ضر

ضر 6

" حی 1.40m

شيضرحی ≢ ň

2.3

ꝩ ꝁ ᵁ ầ Ꮙ ᵁ ầ ᵁ r ﻣﺨ Â ɢ Ꮙ Ꮙ ᵁ ˘ Ѣ ꝩ

5.5m˘ ꟶ ˘ ῤ ầ ˘ һ ɢ ꝩ Ẃ`E ầ

Ɓ ﺷﻲ Â Ꮙ ꝁ ᵁ ꟶ ˘ ꝩ ﻍ ꝩ №≢ ꟶ 32.5m ﻍ 31.5m'

ᵁ ꟶ ˘ ꝩ 15.5m Â

ꝩ ﺿﺮﺷﻲ ﺿﻲ Ꮙ. ᵁ ˘ ﺿﺮ ˘ ꝩ № ꟶ ῐ̋ ˘ ῐ̋ 15m'

ꝩ Ŧ ﺿﺮ ﺴﺒﻦ 0.2m˘ ꟶ 1.2m˘ ꝩ

ﻣﺒ 2-1 ٪.. ű ﻣﺒ

2-1˝ ғ ɻ ̀H Ѓ ˦ ᵣ ЕmЄ

О	à			ŋ		ʅ
	О	β	≢	‰		ᵥᵢᵢ
Ữ	1#	Ķ	҉ Ḡ	7	29	ᵥᵢᵢ
	ζ		ζ ˘ ˘ H=10m	5	13	ᵥᵢᵢ
	Ḥ		Ḥ ˘ H=6m	5	18	ᵥᵢᵢ
	˪ ƀ	Ⅵ	ᵅᵒ Ѧ	10.5	18	ᵥᵢᵢ
	2#		҉ Ḡ	7	44	ᵥᵢᵢ
	304 ﻳﯩ	.	h	5.5	42	ᵥᵢᵢ
º	1#	Ķ	҉ Ḡ	7	29	ᵥᵢᵢ
	ζ		ζ ˘ ˘ H=10m	5	13	ᵥᵢᵢ
	Ḥ		Ḥ ˘ H=6m	5	18	ᵥᵢᵢ
	˪ ƀ	Ⅵ	ᵅᵒ Ѧ	10.5	19	ᵥᵢᵢ
	2#		҉ Ḡ	7	47	ᵥᵢᵢ
	304 ﻳﯩ	.	h	5	53	ᵥᵢᵢ
ᶌ	1#	Ķ	҉ Ḡ	7	55	ᵥᵢᵢ
	ζ		ζ ˘ ˘ H=10m	5	35	ᵥᵢᵢ
	Ḥ		Ḥ ˘ H=6m	5	40	ᵥᵢᵢ
	˪ ƀ	Ⅵ	ᵅᵒ Ѧ	10.5	23	ᵥᵢᵢ
	2#		҉ Ḡ	7	19	ᵥᵢᵢ
	304 ﻳﯩ	.	h	5	28.5	ᵥᵢᵢ
Ữ	1#	Ķ	҉ Ḡ	6	25	ᵥᵢᵢ
	ζ		ζ ˘ ˘ H=10m	5	9	ᵥᵢᵢ
	Ḥ		Ḥ ˘ H=6m	5	14	ᵥᵢᵢ
	˪ ƀ	Ⅵ	ᵅᵒ Ѧ	9	22	ᵥᵢᵢ
	2#		҉ Ḡ	6	50	ᵥᵢᵢ
	304 ﻳﯩ	.	h	3	42	ᵥᵢᵢ
º	1#	Ķ	҉ Ḡ	6	28.5	ᵥᵢᵢ
	ζ		ζ ˘ ˘ H=10m	5	12.5	ᵥᵢᵢ
	Ḥ		Ḥ ˘ H=6m	5	17.5	ᵥᵢᵢ
	˪ ƀ	Ⅵ	ᵅᵒ Ѧ	9	19.5	ᵥᵢᵢ
	2#		҉ Ḡ	6	47.5	ᵥᵢᵢ
	304 ﻳﯩ	.	h	3	53	ᵥᵢᵢ
ᶌ	1#	Ķ	҉ Ḡ	6	56	ᵥᵢᵢ
	ζ		ζ ˘ ˘ H=10m	5	36	ᵥᵢᵢ
	Ḥ		Ḥ ˘ H=6m	5	41	ᵥᵢᵢ
	˪ ƀ	Ⅵ	ᵅᵒ Ѧ	9	38	ᵥᵢᵢ

	2#		̤̤̑ Ḡ	6	28	ᵥᵢᵢ
	304 ݓ	.	h	3	13.5	ᵥᵢᵢ
̤̤̑ ݓ	1#	Ϗ	̤̤̑ Ḡ	7	29	ᵥᵢᵢ
	ζ		ζ ˘ ˘ H=10m	5	13	ᵥᵢᵢ
	Ḥ		Ḥ ˘ H=6m	5	18	ᵥᵢᵢ
	ᒪ ƀ	ɏ	ᵃᵖ ɅI	10.5	18	ᵥᵢᵢ
	2#		̤̤̑ Ḡ	7	47	ᵥᵢᵢ
	304 ݓ	.	h	5	54.5	ᵥᵢᵢ

2-2 Ὺ Ѓ ˧ ᵣ EmЄ

O				o		o		ⱱ		ⱱ		ج √		√ مخ	
	‰		‰		‰		‰		‰		‰		‰		‰	
	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	2	8.5
	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	2	8.5
o	-	-	-	-	-	-	-	-	-	-	-	-	3	6.5	2	7.5
o	-	-	-	-	-	-	-	-	-	-	-	-	2	6.5	2	7.5
	4	7	3	11	4	10	3.5	10.5	5	5.5	4	20.5	5	14	-	-
	7	23	6	21	7	28	6	27.5	7	32.5	6	31.5	-	-	-	-
	7	39	6	43	7	42	6	42.5	7	15.5	6	26	-	-	-	-

2.6

1

2

3

1

2

1.0 1.2

3

2-2 ȁ 2-3 ȁ 2-4 ȁ

2-2, ȁ m" q " א Ð

2.7 ˥ r Ł

2.7.1 Ł ‶

ˆ 1˜ ȝ

ⴰ ȝ O ˈ Ţ يج . ف м Ὲ ℘

ѿ ѱ Ḥ ҁ ˈ 912101815553373877

Ü ˜ ˈ شي

Ü ˈ 2023 7 18

ˆ 2˜ ˧ . ج

ⴰ ȝ O ˈ Ţ يج . ف м Ὲ ℘

Й ˈ ˧ [2023]000620

Ü ˜ ˈ

Ü ˈ 2023 5 13

ˆ 3˜ ɘ

ȉ ˧ βˈ Ţ يج . ف м Ὲ ℘

ɘ ˈ ˆ 1062017024˜ [2026]00572

˧ βˈ Ţ Ḥˆ ˜ Ὲ

ˈ 2026 9 19

ˆ 4˜ ⁙ ˗ 2

Đ

2.7.2 ˝ ‶

ˆ 1˜

ṗ ɢ ṗ Q Â

ˆ 2˜

ˊ ȉ Â

a. ᵒᵒ h Ữ ˆ ѿ ч 5 ѿ ˜ Â ˩ عج

عج ˘ ᛋ Â

b. ṗ Â

ɦ ῤ ⱪ Đ ˬ ˘ ɣ
ج ˜ ầ ڤ ǐ ‰ ầ Ⱶ ₡ غ ˘ ɣ ǐ Ⱶ ầ Ƕ ầ
Ḥ Â

3.

Q_1 à Q_2…˘ Q_n Í Í ч Ѣ ˧ . ﺝ Ҳ ˘ t Â

ˆ 3˜ ˧ . ﺝ Ũ Ƴ ĩ ỉ ɿ ﮐ à ˥ Ữ Ⅵ ˧ . ﺝ ﺿ

Â

3.1.3

щ ê ˧ . ﺝ ˧ Ї˘ ỉ ˧ . ﺝ Ҳ ˆ ỉ Ţ ᾆ

r ' 23 Ņ ≤ ˎ 60 Ņ r ˜ ˘ 3-1 Â

3-1 ˧ . ﻭ ч

˶	Ữ	Ữ Ⅵ Ҳ
1		200t
2		5000t

ʋ Ữ ч 40m³ ő 0.75˘ ˵ Ữ 30t

ч 40m³ ő 0.89˘ ˵ Ữ 35.6t Â

$$30/200+35.6/5000=0.15712<1$$

˶ , ỉ Ữ Ŧ Ҳ ˘ ʋ ˧ . ﺝ ˧ Â

3.2 Ι ˧ ɭ Ⅎ

3.2.1 Ι ˧ ɭ

ˆ ῳ˜

˧ ≢ ' r ˘ ≢ 2* ĩ ˘ ≢ 1B ˘ ≢ 2

Ꝓ ˜ ˧ ˘ ≢ 1 ˧ - ˧ ˘ ≢ 2 ˧ - ˧ ˘ ≢ 2 Â

˧ . ﺝ ˶ ' 1630 Â

≢

r ' Ѣ ą ˆ ˜ Â

.

⌠ r Â

ṿ № ч 89 à92 à95 ﻍ 98 4 ɷ ˶ ˘ ˆ =1˜ 0.72˙

0.775˘ ˆ =1˜ 3˙ 4˘ -46 Ņ˘ 1.4˙ 7.6% r ˜ ˘

415 530 0.813MPa

PC-TWA( )(mg/m^3) 300

1

2

3

4

1.5

15min

50m

300m

1674

-18 =1 0.87 0.9

282-338

0.6%~7.2%

5 0 -10 60 -20

50 -35 -50 45

2

15min

(3)

(4)

3.3.2

(1)

(2)

(3)

˘ ﺿﻲ ﺿﻲ Ɗρ ˧ Â ɢ ı́ ȁ
˩ ȁ ǁ Ɗρ ˘ ẅ Ɗρ Ţ˘ Ƅ ᵖ ˜ ﺸﺨ ᵃᵒ غ ˘ ғ
Ψ غ ˘ ˗ 2 ᴴ` Ⱨ Â

3.3.3 ᴺ

ᴴ ˩ ﺿﻲ Ţ ˗ ʳ ᴴ ʳ ẁ Ⱨ Â
˘ ʼ Ƅ ˘ ʽ L˩ ȁ h ȁ ῷ ǯ Ḥ˜ ﺸﺨ ˘ ŋ
Ƅ ŋ ȁ Ƅ ȁ ı̈ ῷ ˘ ﺸﺦ ᴴ ˘ ˗ 2 ᴴ
` ᵃᵒ Â
ɐ ˘ ı̋ ȁ ɐ غ ƀ ȝ˗ 2˜ ı̂ ⌠ ˘
ᵃᵒ غ˗ 2 ᴴ Â
ᴣ ˘ ˜ ˧ ˘ ƀ Ƅ Ⱨῷ ˗ 2 ˘ ˗
2 ȁ ᴴ Â

3.3.4 Ҳ م

╠ ˧ ﻐﺠ № ˘ ȁ ﺸﺦ ẅ ˘ ғ
ﺿﻲ ṗ ˘ ƀ ȝ ʼ Ӌ˘ ƀ ȝ ﺸﻲ Â ᵖ №
ƀ ˆ ʽ ˧ ˜ ı̋ Ҷ / ﻐﺠ ȁ ῳ ȁ ˘ ˜
ą ƀ ȝ ﺸﻲ ı̂ ⌠ ẅ Â
ᴣ ˘ ﺿﻲ ḱ ȁ ƀ ȝ Ţ˘ ƀ˗ 2 ﺿﻲ ṗ ƀ˘ ƀ
ɷ ʳ Ƅ ﺸﺦ ˜ ˗ 2 Ţ Â

3.3.5 φ ₵

ḱ ƀ ȝ ˘ ƀ ȝ ƀ ȝ˗ 2 ɾ Ӱ ʳ ʼ ﺿﻲ
ḱ ƀ ȝ Ţ ﻜﺢ ı́ ₮ʼ ﺿﻲ ḱ ƀ ȝ Ţ ʳ ı̂ ⌠ ƊρU ȁ ₮ Â ɾ
ƀ ȝ˗ 2 ı̂ Ա ﻤﺨ˗ 2 ᴴ

3.3.6 ﻄﻤ

ﺸﺠ ʳ ﺿﻲ ʐ غ ʐ ƀ Ӌ˘ ˘ Â
ɣ ǖ ȁ غ / ﻐﺠ˘ ṗ ȁ ˆ ˜ ﺸﺠ ˘

3.3.7

1

2

4. м ˧ ῷ ғ м

4.1 м ˧ ῷ ↔ Ⅎ

⅞№ ᴇ ˧ ῞Ḥ ч ᴇ ځ ᴇ ⊦ Â ⅞№ ᴇ ˧ ῞Ḥ Ѣ. Ḃ ɢ ῃ ᴇ ƀ ˘ . ᴇ ƀ ځ ⁝ ᴇ ƀ ˘ З ≠ ɢ ῷ ځ ῃ ᴇ ‰ ầ ῒ Â ч ˘ ᵿ ﺿ ﻗ ầ ڃ Ţ ﺿ ˧ ầ ﻏ Ѣ № ⁛ ˘ ᵿ ί ʳ ' ˘ ῒ ⅞№ ч Ӎ

5. ɬ м

ɏ ', ˘ ɳ № ˘ ỉ ⅞№ 8 ȹ ᴇ

Ⱶ ˝Ḫ ɳ ᴇ Â ầ ᴇ ˘ 5-1ʹ

ʹ ɬ Ł

5-1 Ł

	ṗ		
Đ	1ầ ᒉ ỉ ﮃ ΰ ȝ ᴑ ȝ O ᾠ ‰ Й Â	ỉ ȝ	﹎
	2ầ ᒉ ỉ	ỉ	﹎
	3ầ ᒉ ỉ Ữ ﺸ ầ ᵒᵒ Đ Â Ữ ﺸ Ѣ Ŧ ɳ Ⱶ Â	Ѣ ᵒᵒ	﹎
	4ầ Đ O ầ ﺨﻴﺿ ᒉ ẅ ˘ ﹎ ê Ⱶ . ﭻ ↕ Ὶ	Đ˘ ỉ O ầ ﺨﻴﺿ Ѣ ȝ ẅ	﹎
	5ầ ᒉ ỉ ɳ ᵒᵒ ĸ Ḡ ỉ ᴴ Ḡ ₡	ɳ ᵒᵒ ĸ Ḡ ỉ ᴴ Ḡ ₡	﹎

ʹ ɏ ᴸ ầ Й ﺸﺨ ˘ O ﺨﻴﺿ ẅ ˘

ᴇ Ч ɏ n'ﻐﻤ m "

	5 ȁ Ꜧ └ Â	ˎ	ᵥᵢᵢ
	6 ȁ ŋ └ Â	ˎ	ᵥᵢᵢ
	7 ȁ ʋ Ŧ ȁ 2 └ Â	ˎ	ᵥᵢᵢ
	8 ȁ ʋ ᛩ └ Â	ˎ	ᵥᵢᵢ
	9 ȁ Ữ Ⴤ β └ Â	ˎ	ᵥᵢᵢ
	10 ȁ ŋ 2 ŋ ᵒᵒ к └ Â	ˎ	ᵥᵢᵢ
	11 ȁ ˧ . ج ŋ └ ˆ ˊ ȁ ȁ Ț ȁ ṗ ˜ Â	ˎ	ᵥᵢᵢ
	12 ȁ ŋ ˜ Ḡ └ Â	ˎ	ᵥᵢᵢ
	13 ȁ ŋ ᵒᵒ └ Â	ˎ	ᵥᵢᵢ
	14 ȁ └ Â	ˎ	ᵥᵢᵢ
	15 ȁ ŋ └ Â	ˎ	ᵥᵢᵢ
	16 ȁ └ Â	ˎ	ᵥᵢᵢ
	17 ȁ ȝ ˧ └ Â	ˎ	ᵥᵢᵢ
	18 ȁ ˧ . ج └	ˎ	ᵥᵢᵢ
ƀ	1 ȁ ᛩ ƀ ȝ ƀ Â	˜	ᵥᵢᵢ
	2 ȁ ʋ ƀ ȝ ƀ Â	˜	ᵥᵢᵢ
	3 ȁ ƀ ȝ ƀ Â	˜	ᵥᵢᵢ
ŋ	1 ȁ ŋ Ƒ ŋ 2 Â	Ƒ ŋ 2	ᵥᵢᵢ
	1 ȁ ˘ └ Ꜧ Â	˘ └ Ꜧ	ᵥᵢᵢ
	2 └ ᵥᵢᵢ ê ᵒᵒ ˧ β ᵒᵒ ŋ Ꜧ └ ↕ Ȉ ˆ GB/T29639-2020˜ Â	└ ᵥᵢᵢ └ ↕ ғ	ᵥᵢᵢ
	3 ȁ Ꞁ Â		ᵥᵢᵢ
ɾ ȝ 2	1 ȁ ħ ŋ й Â	ű ŋ й	ᵥᵢᵢ
	2 ȁ ŋ 2 ŋ й Â	ű ŋ й	ᵥᵢᵢ
	3 ȁ ὶ ˥ ɾ ȝ 2 ᵥᵢᵢ Â	ᴑ ȝ ṗ ᵥᵢᵢ	ᵥᵢᵢ

ˈ ʋ ŋ └ غ ƀ ˘ Ꜧ

ғ └ Ꜧ ˘ ˘ ɢ 2024 4 3 ض

ʼ ħ ȉ ŋ 2 ˧ . ج ᵒᵒ ˧ β

ŋ ű ঔ 2 ŋ йʼ ὶ ˥ ɾ ȝ 2 ᶟ ˧ β ŋ Â

ṙ ᵥᵢᵢ ʋ ŋ Â

Ƥ ɭ ݹ

5-3 ݹ

	ṗ	ᴇ Щ		
	1 ầ ɏ ⅞№ Ꞁ ﷽ GB50156 3.0.9	ê ɏ ɏ ɏ ‰ Ỉ ˆ GB50156-2021˜ 3.0.9	ῗ ɏ ˘ Ч 20m³	﷽
	2 ầ ɏ ṗ Ꞁ ầ Ә ⊣ ج	ê ɏ ɏ ɏ ‰ Ỉ ˆ GB50156-2021˜ 3.0.25	ɏ ṗ ầ Ә ⊣ ج	﷽
	3 ầ ɏ Ꞁ ˘ ݸ Ꞁ ƀ ჳ Ⅵ	ê ɏ ɏ ɏ ‰ Ỉ ˆ GB50156-2021˜ 3.0.27	ɏ ‶ 14 ɷ ˝E ˘ ݸ ƀ ჳ Ⅵ	﷽
ݗ	1 ầ ɏ ݗ ˘ Ꞁ ﷽ ݼ Ʒ ⅞ ầ Ḡ ﻍ ῃ ˘ Ꞁ ﺿ ˊ Ḃ ≠ ầ ą Ḃ ﺿ	ê ɏ ɏ ɏ ‰ Ỉ ˆ GB50156-2021˜ 4.0.1	﷽ ݼ Ʒ ⅞ ầ Ḡ ﻍ ῃ ˘ ﺿ ˊ Ḃ ≠ ầ ą Ḃ ﺿ	﷽
	2 ầ ﺿ ݼ Ţ Ⅵ Ꞁ Ь ẅ ɏ ɏ ɏ ﷽	ê ɏ ɏ ɏ ‰ Ỉ ˆ GB50156-2021˜ 4.0.2	ῗ ɏ	﷽
	3 ầ ɏ ầ ⅼ ﷽ Ţ ầ Ь ˆ ˜ ῃ ˘ Ꞁ Ь ɢ 4.0.4 Â	ê ɏ ɏ ɏ ‰ Ỉ ˆ GB50156-2021˜ 4.0.4	ɏ Ţ ầ Ь ˆ ˜ ῃ ˘ ﷽ 4.0.4	﷽
	4 ầ ʐ Ꞁ ɏ ƀ ჳ Ⅵ	ê ɏ ɏ ɏ ‰ Ỉ ˆ GB50156-2021˜ 4.0.12	ʐ ɏ ƀ ჳ Ⅵ	﷽
	5 ầ Ь ɏ ˜ ˜ : Ꞁ ɏ ﺿ ݸ	ê ɏ ɏ ɏ ‰ Ỉ ˆ GB50156-2021˜ 4.0.13	Ь ɏ ˜ ˜ : ɏ ﺿ ݸ	﷽

	1 ầ ⱱ ˜ₒ ع ₮ₒ Ꞁ№	ê ⱱ ⱱ ⱱ ‰ Ì ˆ GB50156-2021˜ 5.0.1	˜ₒ ع ₮ₒ №	ᵕ
	2 ầ Ⴁ ṗ Ả ᵝ ع Ꞁ ᵕ Ӈ ↓ ˈ ŵ ˧ ˧ Ả ᵝ Ѣ ɢ 4m˘ ΐ ΐ Ả ᵝ Ѣ ɢ 6m' Ŷ ṗ ˥ Ꞁ ﻘﻤ , ŷ ṗ Ả ᵝ ԗ ﺗﺠ˘ ﺗﺠ Ѣ ɢ 8%' Ÿ ⱱ ƀ ʒ Ⴁ ṗ Ả ᵝ ع Ѣ	ê ⱱ ⱱ ⱱ ‰ Ì ˆ GB50156-2021˜ 5.0.2	ΐ ԗ 15m˘ ﺗﺠ ɢ 8%˘ ₒ ﺿﺮﺣﻰ	ᵕ
	3 ầ ⱱ ƀ ʒ Ⴁ Ѣ ꜛ ⊦ Ⴁ ң Ꞁ	ê ⱱ ⱱ ⱱ ‰ Ì ˆ GB50156-2021˜ 5.0.3	ⱱ ƀ ʒ Ⴁ Ѣ ꜛ ⊦ Ⴁ ң	ᵕ
	4 ầ ⱱ ƀ ʒ Ⴁ ṗ˘ Ꞁ " ﺿﺮ " " ῦ ﺿﺮ "	ê ⱱ ⱱ ⱱ ‰ Ì ˆ GB50156-2021˜ 5.0.5	ⱱ ƀ ʒ Ⴁ ṗ Ɩ ﺿﺮ Ŀ ع Ɩ ῦ ﺿﺮ Ŀ	ᵕ
	5 ầ ⱱ Ꞁ ᵕ Ӈ ↓ ˈ ŵ Ѣ ᵕ ﺿﻲ ˧ Ⴁ ң ˘ ғ Ѣ ˧ Ⴁ Ѣ ɢ 3m' Ŷ ᵕ ˘ ﺿﻲ ˜ ⱱ , ŷ Ữ ˆ ˜ ﺿﻲ ⱱ ҉ ˘ Ѣ 1.2mб˘ ғ Ữ ˆ ˜ ﺿﻲ ң ʊ 100mm ع 1.2m ү ṗ Â	ê ⱱ ⱱ ⱱ ‰ Ì ˆ GB50156-2021˜ 5.0.6	ⱱ ⱱ	ᵕ
	6 ầ ˩ ˜Ḥ Ꞁ ﺿﻲ ꜛ ⊦ Ⴁ ṗ	ê ⱱ ⱱ ⱱ ‰ Ì ˆ GB50156-2021˜ 5.0.7	˩ ˜Ḥ	ᵕ

ê ɤ ɤ

7 ầ ɤ ḯ ḯ ᆟ ݣ ᒉ ɤ ‰ ȉ ᵝ ɢ ṗ˘

ﺿ ƀ ʒ Ⴤ Ḩ ˆ GB50156-2021˜ ﺿ ƀ ʒ Ⴤ Ḩ

5.0.8

8 ầ ᒉ ﺿ ˧ Ⴤ ṗ˘ ê ɤ ɤ

ѿ № ᵝ ɢ ƀ ʒ Ⴤ ṗ ˘ ɤ ‰ ȉ

ᒉ 300m² ғ ˆ GB50156-2021˜

ṗ ᒉ 5.0.9

	$10^9\Omega$' $10^9\Omega$ ... (6.1.7) ... A=0.04V_t (6.1.7) A—— (m^2) ' Vt—— (m^3)	(GB 50156-2021) 6.1.7		
	7 ... ‰ 11.2	‰ (GB50156-2021) 6.1.8	SF	
	8 ...	‰ (GB50156-2021) 6.1.9	SF	
	9 ... 80mm ... 4mm ...	‰ (GB50156-2021) 6.1.10	SF	
	10 ...	‰ (GB50156-2021) 6.1.11		
	11 ... 0.5m' ...	‰		

GB50156-2021
6.2.3

4

GB50156-2021
6.2.4

5

GB50156-2021
6.2.5

1

GB50156-2021
6.3.1

2

GB50156-2021
6.3.2

3

GB50156-2021
6.3.3

4

100mm

6

GB50156-2021

6.3.6

7

X . ø ” ´

14 ằ ۷ ₮ ﺿﺮ ê ۷ ۷ ﺿﺮﻔﻤﻲ ̆
٢ ̆ ϡ ﺿﺮﻔﻤﻲﻠﺸﺦ Â ۷ ‰ ̀̀Ι
̆ ϡ Ţ ﺤﻰ ̂ GB50156-2021 ̃ Ţ ằ ̈
ằ 6.3.14
15 ằ √ ằ √ ﻋﺠ ằ
۷ ﻋﺠ ﻍ

	22 ầ ʅ ᷊ Ӎ ↓ ' ŵ ০ ى r ˘ ᷊ ڿ ‰ ê ض Ӎ ȉGB50108 ˜ ' Ŷ Â ẅ ᾳ ṗ Ѣ ɢ ӈ ' ŷ ɢ ṗ ˘ ʏ ɢ 200mm˘ Ѣ ӈ Ѣ ɢ 500mm' Ÿ ṗ ȉ ɿ ' Ź ṗ ˘ Ț ڮ Â ź ҉ ˘ ű ầ ض غ ج ˜ ṗ	ê ᵾ ᵾ ᵾ ‰ ȉ ˆ GB50156-2021˜ (6.5.2	SF ȉ	˜
	23 ầ ٳ ṗ ʅ ˘ ʅ ᷊ Ӎ ↓ ' ŵ ầ └ ƀ˘ ч 100mm˘ Л Ѣ ɢ 4mm Â Ŷ Ӎ ɢ ʏ ˘ ҉ ০ ₮ Ⅵ ض 200mm Â ŷ Ѣ ṗ ɣ Ӎ ڂ ч Â ̈Ḥ ṗ κ ᴠ r ˜ ˘ ˘ ˜ Â Ÿ Ա ڂ ڮ ч 10mm˙ 30mm Â Ź ০ ầ ầ ˘ ˜ Ḡ غ	ê ᵾ ᵾ ᵾ ‰ ȉ ˆ GB50156-2021˜ 6.5.3	SF ȉ	˜
	24 ầ ̤ ƀ Q ầ ᵾ ০ Q ầ ᵾ ˜ ű ج ᵝ˘ Ӟ ű	ê ᵾ ᵾ ᵾ ‰ ȉ ˆ GB50156-2021˜ 6.5.4	ű	᷊
	25 ầ ᵾ ضرفمي ᵾ ʅ ȉ Âȉ ˘ ʅ ᷊ Ӎ ↓ ' ŵ ȉ ṗ ᷊ ‰ 6.3 ˜ Â Ŷ ȉ ˘ ầ ầ . غ ᆺ ɀ	ê ᵾ ᵾ ᵾ ‰ ȉ ˆ GB50156-2021˜ 6.5.5	ضرفمي ᵾ ȉ ' ŵ ȉ ṗ ᷊ 6.3 ˜ ' Ŷ ȉ	᷊

Â

ŷ ĭ ˘ /l Ѣ

ɢ 5mm Â

Ÿ ĭ ṗ ƅ

12.1.2 2

1 0.25m GB50156-2021 12.3.2

0.25m

2 GB50156-2021 12.3.3

1 AQ3010-2022 4.4

2 AQ3010-2022 4.4

3 AQ3010-2022 4.5 GB/T50493

4 2 2 XF/T3004-2020 8.1

5 XF/T3004-2020

		8.2		

ʽ ℣ ȉ̋ ␣ ê ‰ Ȉ Â

Έ ầ ầ ầ غ ℗

5-6 ɭ ɭ ﻡ ⅓

ῤ ᴇ щ

8 à Ӎ ɢ ˧ Ӎ ί Ꞁ Ѣ ˠ ɢ IP44 ﻗﻤﻢ ί	ê ꝩ ꝩ ꝩ ‰ Ἰ ˆ GB50156-2021˜ 13.1.8	IP44 ﻗﻤﻢ ί
1 à ᒪ ﺿﺮ˘ ғ ﺿﺮ Ꞁ Ѣ ɢ 2	ê ꝩ ꝩ ꝩ ‰ Ἰ ˆ GB50156-2021˜ 13.2.1	SF ἳ ˘ ﺿﺮ˘ ﺿﺮ 2
2 à Ꞁ ﺿﺮ à ﺿﺮ à ƀ ﺿﺮ à Ḡ ﺿﺮ ἳ Ḥ ﺿﺮ ˘ " ﺿﺮ ˘ ﺿﺮ Ꞁ Ѣ ɢ 4 ß	ê ꝩ ꝩ ꝩ ‰ Ἰ ˆ GB50156-2021˜ 13.2.2	" ﺿﺮ˘ ᵽ
3 à ﺿﺮﻔﻤﻲ ᒪ à ﺿﺮﻔﻤﻲ LPG Ữ ɣ ἳ Ð ɠ ṗ ɀ Ð˘ Ꞁ Ѣ ﺿﺮﻔﻤﻲ № ɛ Ạ ﺿﺮ	ê ꝩ ꝩ ꝩ ‰ Ἰ ˆ GB50156-2021˜ 13.2.4	Ạ ﺿﺮ
4 à ꝩ ṗ ɠ Ꝺᵨ ˘ Ꞁ ˆ ˜ Ḡ Â ˘ ≠ Ⱡ ƀ ч ﻙ ˘ ᵖ Ӎ ↓ ŵ ƙ ˘˜ à à ˧ ˧ à à ṗ ﺿﺮ Â ɠ Ŷ Ӎ Ѣ ﺝ˘ /l Ѣ ɢ 0.5mm˘ K /Ѣ/l		

		GB50395-2007 5.0.5		
	3	GB50395-2007 5.0.8		
	1	GB50156-2021 13.5.1		
	2	GB50156-2021 13.5.2		
	3	GB50156-2021 13.5.4		

Ÿ ʋ ʅ
غ Â
ˆ ˜ ˘ ἳ ʅ Ѣ
ɢ 100mm˘ ʅ Ѣ ɢ 0.5m˘ ʅ
ﻬ

4 ȁ ʋ ˘ ʅ ﺿ ʋ ‰ Ì ʋ | ê ʋ ʋ ˆ GB50156-2021˜ 14.2.7
ɼ ṗ ﺿ ṗ

5 ȁ ʅ WˋE ȁ ṿ ȁ ȝ ȁ ṗ WˋE ȁ | ê ʋ ʋ ʋ ‰ Ì ˆ GB50156-2021˜ 14.2.9
└ ȁ ἳ ȁ ˧ غ Ḃ ≠ ṿ ȁ └ ȁ Ḃ ≠

6 ȁ ẅ №ᵝ ɢ ƀ ȝ Ɱ ṗ ˘ | ê ʋ ʋ ʋ ‰ Ì ˆ GB50156-2021˜ 14.2.10
ʅ 300m²˘ ғ Ѣ ﺿ ƀ ȝ Ɱ ṗ
ṗ Ѣ

7 ȁ ꜛ Ͱ Ɱ ṗ ʅ Ѣ ᵝ ɢ ƀ ȝ Ɱ ɣ ˘ | ê ʋ ʋ ‰ ˆ GB50156-2021˜ 14.2.11
B Ŧ Ḡ ‰˘ B
ʅ ﻳﺠ ‰ ê Ŧ Ḡ ‰˘
Ì GB50016

8 ȁ Ѣ ˧ ȁ Ͱ ȁ ȁ ˧ | ê ʋ ʋ ʋ ‰ Ì ˆ GB50156-2021˜ 14.2.12
ȁ ʓ ȁ w ˘ ꜛ Ͱ Ɱ ṗ
ḫ ʅ o ˘ ғ
Ѣ ᵞ ɢ 3h ɼ

9 ȁ ﺿ ṗ Ѣ
˘ ʅ Ӣ ↓
ŵ Ѣ ḫ Ѣ

Ў Ѣ

	ҥ ˧ ˧ . ڿ Ⅵ Ղ ŋ ת	∞ ‰ˆ ˜ Ì л		
	6 ầŋ ˦ ʐ . Ữ Ղ ﯿﺠ ‰	ệ ǵ ˧ . ڿ ˚˚ ˧ ß ˚˚ ŋ Ҥ ∞ ‰ˆ ˜ Ì Έ	ђ ĩ . Ữ	˜
	7 ầ . ầ ầ ầ . r Ḥ Ղ ą ’ h Ḥ	ệ ǵ ˧ . ڿ ˚˚ ˧ ß ˚˚ ŋ Ҥ ∞ ‰ˆ ˜ Ì ≠	ђ ĩ . ầ ầ ầ . r Ḥ	˜
	8 ầ ῷ ầ ▲ r ĩ . r Ղ Ⱨ Ⅵˆ ˊ . ﻟﺠ Ⅵ ầ ȝ ﻟﺠ Ⅵ˜ Έ ˝ Ⅵ	ệ ǵ ˧ . ڿ ˚˚ ˧ ß ˚˚ ŋ Ҥ ∞ ‰ˆ ˜ Ì ῆ	ђ ĩ ▲ r ĩ . r	˜
	9 ầ ﺿﺮ Ⅵ ʐ Ղ ˚˚ Ⅵ˘ Ղ ﯿﺠ ‰	ệ ǵ ˧ . ڿ ˚˚ ˧ ß ˚˚ ŋ Ҥ ∞ ‰ˆ ˜ Ì Ӂ	ʐ ђ Ⅵ	
	10 ầ ﺿﻲ . Ղ ˘ Ղ ŋ	ệ ǵ ˧ . ڿ ˚˚ ˧ ß ˚˚ ŋ Ҥ ∞ ‰ˆ ˜ Ì Ⅵ	ᢐ	
	11 ầ Ղ ą Ս ŋ ầ ↓ Ŧ ầ	ệ ǵ ˧ . ڿ ˚˚ ˧ ß ˚˚ ŋ Ҥ ∞ ‰ˆ ˜ Ì Ⅵ ŵ	ą Ս ŋ ầ ↓ Ŧ ầ	
	12 ầ ĩ˜ r ﺸﻲ Ղ ﯿﺠ ‰ ˘ ˧ ﺸﻲ Ղ ﯿﺠ ‰ ą	ệ ǵ ˧ . ڿ ˚˚ ˧ ß ˚˚ ŋ Ҥ ∞ ‰ˆ ˜ Ì Ⅵ ҥ	˧ ﺸﻲ ﺸﺦ ≢	
	13 ầ ᒻ h ỉ ầ ˧ ŵ ʊ Ղ ﯿﺠ ‰ ˜ ɢ	ệ ǵ ˧ . ڿ ˚˚ ˧ ß ˚˚ ŋ Ҥ	ђ ĩ	˜

		∞ ‰̂ ˜ Ἰ Ⱶ҈		
	14 ẫ ᵚ Ղ ﮱ ‰ ἵ ˪ ˘ ˩ . ˪ Ղ Ҍ	ệ ἑ ˧ . ჲ ᵚ ˨ ᵝ ᵚ ᶇ Ꮒ ∞ ‰̂ ˜ Ἰ Ⱶ ﻀ	ᵚ Ⱡ҈ ˘ Ḥ UPS Ҍ Ч Ҍ	ᵡ
	15 ẫ ᶇ ẫ ᶇ Ꭰ Ղ	ệ ἑ ˧ . ჲ ᵚ ˨ ᵝ ᵚ ᶇ Ꮒ ∞ ‰̂ ˜ Ἰ Ⱶ Љ	Ҍ ἵ	ﹾ
	16 ẫ Ղ Ҍ ᵝ ˨ ᶇ 2 ᶇ ᵚ к ˪ ˪ ᵚ ᶇ Ꮒ ˪	ệ ἑ ˧ . ჲ ᵚ ˨ ᵝ ᵚ ᶇ Ꮒ ∞ ‰̂ ˜ Ἰ Ⱶ Έ	Ҍ ᵝ ˨ ᶇ 2 ᶇ ᵚ к ˪ ἑ ᵚ ᶇ Ꮒ ˪	ᵡ
	17 ẫ Ղ ˪ Ҍ ἑ ˪	ệ ἑ ˧ . ჲ ᵚ ˨ ᵝ ᵚ ᶇ Ꮒ ∞ ‰̂ ˜ Ἰ Ⱶ ≠	˪ Ⴂ Ҍ ἑ ˪	ᵡ
	18 ẫ Ղ ﮱ ‰ ˪ ˩ ẫ ˜ ἳ Ҍ ȝ ˪ ˘ ˪	ệ ἑ ˧ . ჲ ᵚ ˨ ᵝ ᵚ ᶇ Ꮒ ∞ ‰̂ ˜ Ἰ Ⱶ ῆ	˪ ˩ ẫ ˜ ἳ Ҍ ȝ ˪ ˘	ᵡ
	19 ẫ ὒ ˧ . ჲ ᵚ Ղ ẫ Ț ẫ ȝ ȝ ᵚ ' ﮱ ṗ ą . Ղ ﹾ ᶇ ' Ղ ˪ ᵚ ,	ệ ἑ ˧ . ჲ ᵚ ˨ ᵝ ᵚ ᶇ Ꮒ ∞ ‰̂ ˜ Ἰ Ⱶ Ӝ	ᵹ ˘ Ҍ ἵ ẫ ą Â	ﹾ
	20 ẫ Ղ ﮱ ‰№ Ⱶ № Ữ ˧ . ჲ˘ ẫ ჲ Ữ ˧ . ჲ˘ ε	ệ ἑ ˧ . ჲ ᵚ ˨ ᵝ ᵚ ᶇ Ꮒ ∞ ‰̂ ˜ Ἰ Ꮒ Ⱶ	ﮱ ‰№ Ⱶ № Ữ ˧ . ჲ˘ ჲ Ҍ ﭜ ˘ ˨	ᵡ

ˈ ᵹ ᵚ ᶇ Ꮒ ᵡ Â

Ӝ

5-9

≢ O		ᵕ	Ѣ ᵕ	̃
Ð	5	5	0	0
ŋ	33	33	0	0
ۓ	21	19	0	2
	47	41	0	6

ἳ ضخ

ﻟﺞ "

˜	ﺿﺮ	ﻛﺞ O	ﻛﺞ	
			‰	
1	ʊ ⱱ	5kg ﻛﺞ	4 ἰ	8 ἰ
2	ⱴ ⱱ	35kg ﻛﺞ	1 ἰ	1 ἰ
		5kg ﻛﺞ	-	2 ἰ
			$2m^3$	$2m^3$
			5 ﺸﺒ	6 ﺸﺒ
3		5kg ﻛﺞ	-	2 ἰ
		2kg CO_2 ﻛﺞ	-	2 ἰ

6.

7. ʍ

ہ ˜ ɳ ᵒᵒ ȁ ȉ ‰ ˘ ᴇ ᔐ

Ʈ ہ . ڨ ʍ Ȅ ⱴ ɳ ᴇ ƀ Â ˘ ᴇ

Ӣ

Ʈ ہ . ڨ ʍ Ȅ ⱴ ê Ʈ ˧ ˵ ۼ ہ ɳ ᵒᵒ

Ȉ ȁ ê ˧ . ڿ ɳ ᴅ Ȉ ȁ ê ˧ . ڿ ˜ Ꮃ Ȉ ɳ

ᵒᵒ Đ Â ȉ Đ ȁ ɳ ȁ ہ ȁ ȉ ȁ ȉ ȁ ȁ

ȁ ۼ ℗ ȁ ȁ ˆ ˜ ȁ . ê

ⱴ ⱴ ⱴ ‰ Ȉ ˆ GB50156-2021˜ Â

˘ Ʈ ہ . ڨ ʍ Ȅ ⱴ ȉ ɳ Đ Â

ˆ GB50058-2014 Â

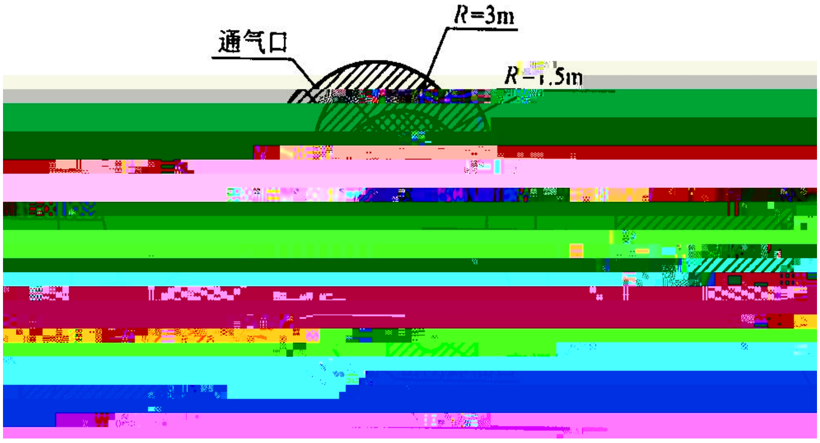
ˆ 1˜ 0

ˆ 2˜ 1

ˆÄ3˜ 2

2.

ˆ 3˜ ϒ ᴏ ԯ Ʈ ˘ ˥ ԯ 3m ض غ ϒ ج ˧ ԯ Ʈ ˘
˥ ԯ 1.5m ض ⅞ ԯ 2 ˦ Â



بم 2 ˥ ˧ ˦ ↔ ɘ

5.ضرفمي ˥ Ữ ˧ ˦ ⅞№ Ӎ ↓ ˆ يح 3˜

ˆ 1˜ ṗ ج ϒ ⅞ ԯ 0 ˦ Â

ˆ 2˜ ˆ ˜ Q ṗ ằ ϒ ᴏ ԯ Ʈ ˘ ˥ ԯ 1.5mˆ 0.75m˜

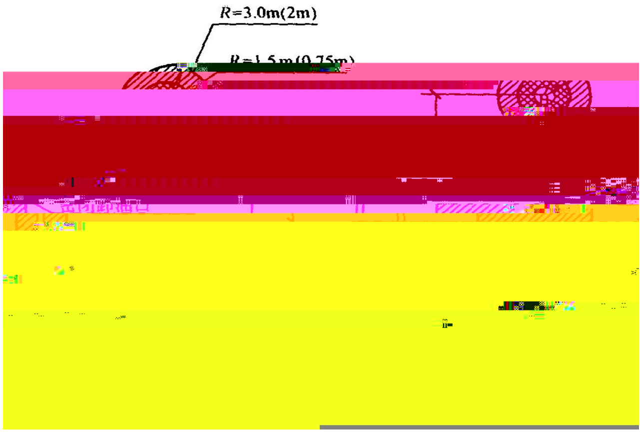
غ ϒ ج ˧ ԯ Ʈ ˘ ˥ ԯ 0.5m ⅞ ԯ 1 ˦ Â

ˆ 3˜ ˆ ˜ Q 1.5m ϒ ṗ˘ ض 1m تم ằ ϒ

ᴏ ԯ Ʈ ˘ ˥ ԯ 3mˆ 2m˜ غ ϒ ج ˧ ԯ Ʈ ˘ ˥ ԯ 1.5m

ض ⅞ ԯ 2 ˦ Â

˧ عج ᴏ ˧ ˦ ṗ Â



بم 3 ˥ فينجي Ẏ ˧ ˦ ↔ ɘ