#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

"j U 7 - #• q5 Û €

*Aî … } Ö #ô Š 2 d#ô j a ' Ë 9L€ œ (

5F f … } Ö ¡ L Ç+`"d YAîAÑ ØB 9L€ œ (

2021 ¤ 2 8

1

22

118°14′06″

36°56′52″

3×130t/h +2×B12MW

26993.80 4263.10

2013 12 2017 10

47

5.01hm^2 4.51hm^2

0.50hm^2

1.60 m^3 0.35 m^3

2

3

4

1

6.01hm^2

5.51hm^2 0.50hm^2 3-3

3-3

	hm^2		hm^2
	4.51	/	4.51
	/	0.50	0.50
	1.00	/	1.00
	5.51	0.50	6.01

2

5.01hm^2

3-4

	hm^2		hm^2
	4.51	/	4.51
	/	0.50	0.50
	/		

4

5

1

5.01hm^2

4.51hm^2 0.50hm^2

2

5.01hm^2

4.51hm^2 0.50hm^2

3

2017 10

50m^2

6-2

hm^2	hm^2	hm^2	%

$$\% = \frac{\qquad}{\qquad} \times 100\%$$

0.67hm^2 4.51hm^2 14.9%

6-4

6-4

	hm^2	hm^2	%
	4.51	0.67	14.9
	4.51	0.67	14.9

7

1

GB50434-2008

95%

86% 1.0 95% 96%

14.9% 21%

14.9%

2

99% 99% 1.0 99%

99% 14.9%

3

7-1

7-1

%	95	99	
%	86	99	
	1.0	1.0	
%	95	99	
%	96	99	
%	14.9	14.9	

1

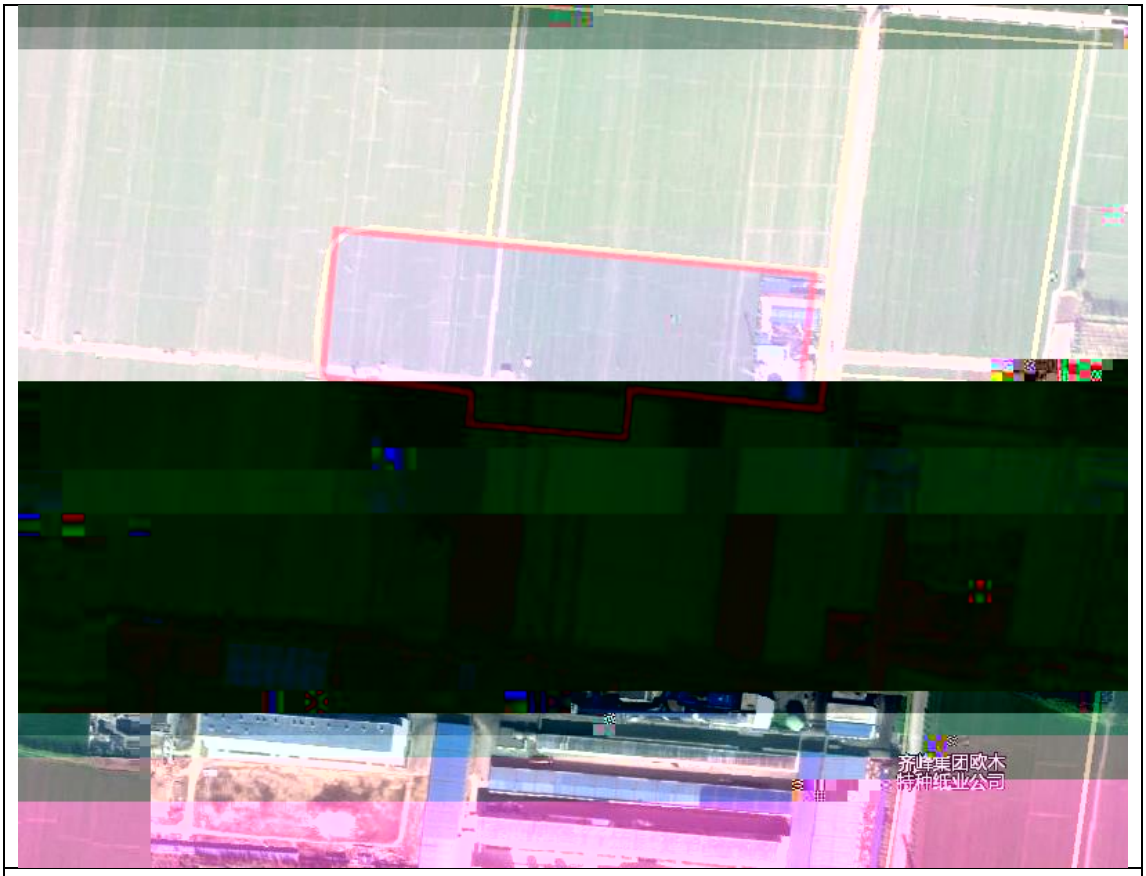
150m 1480m

1 0.67hm^2 0.67hm^2

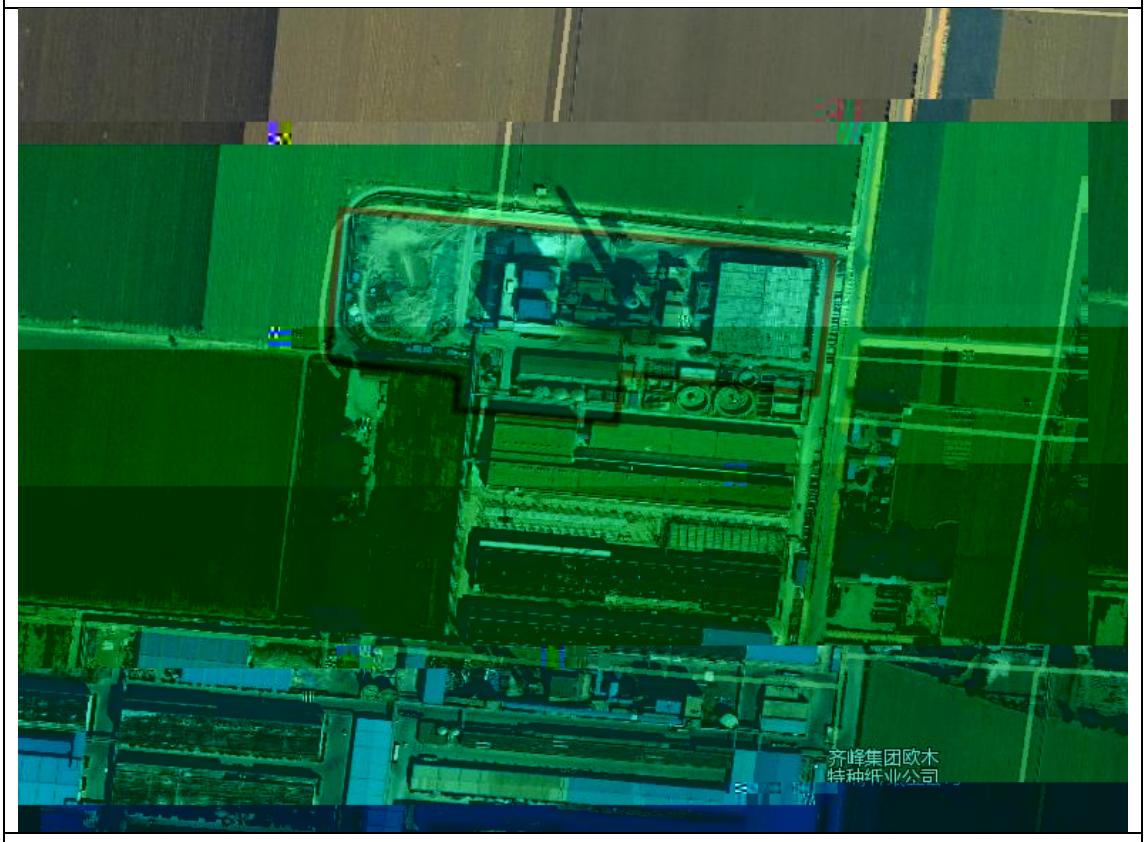
0.20hm^2 42160 121 835m

1 297m^2 0.35 m^3 0.25

m



2012 4



2015 9

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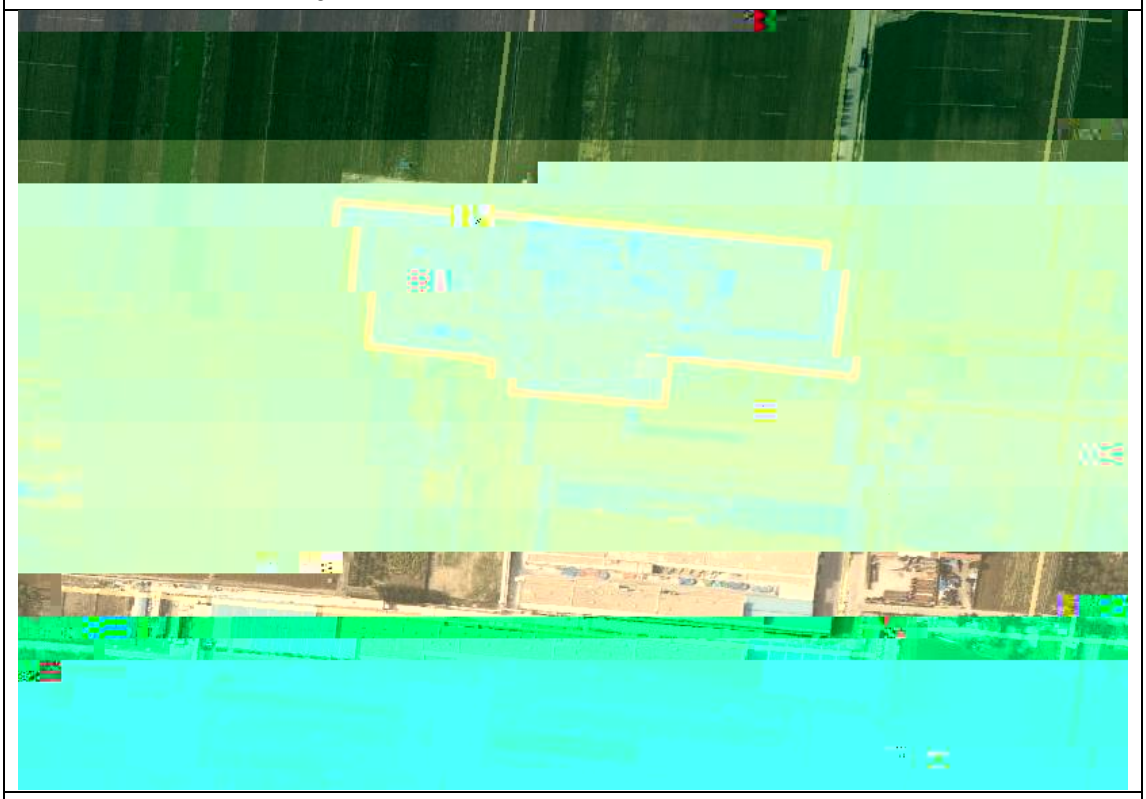
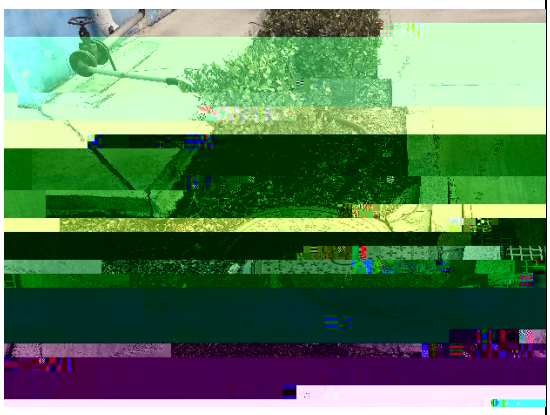
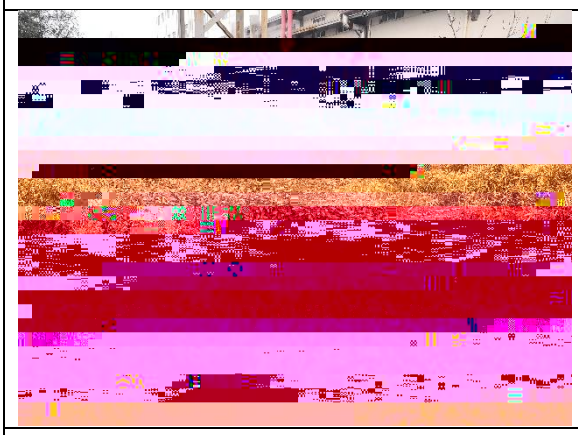


2018 5





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ˆ 2013 ضم ˜

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L ˧˥ β' ˧˩ ≠ ˥˥ ˋE˜

2021 1

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E		№ ṿ	№	№
˩ ضرحى '	˩ مخ L	15	15	Ħ L ˩ مخ˘ ˩ ' ˘ Ъ №Â
	حى ▫ Ḡ	5	5	˥ ˥ حى ▫ ˘ ᵃᵃ ˥ ╟ حى ▫ ˘ Ъ №Â
	حى˜ ȁ	15	15	حى˜ ȁ ˜ ˘ Ъ №Â
حى '		15	15	حى 2m³˘ Ъ 100m³˘ Ъ №Â
حى		20	20	‡ ˘ ˘ Ъ №Â
		15	15	‡ ˘ Â Ъ №Â
	χ	10	4	˥ ˥ χ ȁχ Ъ ĭ̈ ˘ ᵃᵃ ˥ χ Ъ ⌠ β Â 6№Â
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ᵛᵘ		100	94	

+O × *AîN©- "d O 1- #{ “ Ö Õ z>˜

- #{ &!å Ö ¤ 8 8# ¤ 8

<table>
<tr><td colspan="2">N©- =0</td><td colspan="3">#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-</td></tr>
<tr><td>*Aî … }6„3+ ê ú+eB</td><td>D U Þ</td><td colspan="2" rowspan="2">- #{N©- COCS ê Ä1® ‡ ÅÖ ¤ 8</td><td rowspan="2">+O × *Aî … } Ä- 1 ÅÖ ¤ 8</td></tr>
<tr><td>›>˜ ê ú+eB</td><td>»7 ></td></tr>
<tr><td colspan="2">k ƒ 0;F Ö</td><td colspan="3">\ “ Ö ¢'” Ã7a.›5, 8 ¬ Ã ‡K5&¹ o1yF >| *.p *Aî È \ “ Ö 0 F O é 7 P È › 7 P È3_ AÑ 0 F O é 7 P È › 7 P Ä</td></tr>
<tr><td colspan="2">7 7</td><td>AîAÑ kGÿ</td><td>\ “ Ö</td><td>3_AÑ</td></tr>
<tr><td rowspan="4">Ø `>˜M’0 Ä KP Å</td><td>8AÑ</td><td></td><td></td><td></td></tr>
<tr><td>² j</td><td></td><td></td><td></td></tr>
<tr><td>í +O × j</td><td></td><td></td><td></td></tr>
<tr><td>B38²C^& j j</td><td colspan="3">"d O 1 é xAîAÑ]B38²C^& j j • `M’0 KP ÈF >|E÷0;] Z ¯+X È \!Q =)B jF >|- #{ Ä</td></tr>
<tr><td rowspan="2">3 O Ä.# Ã$S Å Gÿ Ä 7 P Å</td><td>8AÑGÿ3$S j k</td><td></td><td></td><td></td></tr>
<tr><td>3$S j</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">• •"d O 1Aî í Gÿ Ä K P × 4 Å</td><td></td><td></td><td></td></tr>
<tr><td rowspan="9">"d O 1 0; F Ö</td><td rowspan="9">² j</td><td rowspan="2">M "d Â"d 3+5</td><td>M "d Â"d1Ñ Ä P Å</td><td></td><td></td><td></td></tr>
<tr><td>M "d Â"d Ç"Ï Ä P Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">Â"dNª Õ 0; Ä × Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">M "dLö:ô 0; Ä × Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">'” jM "d"¹#ð"• Ä × Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">O ` ¤"ë Ä KP Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">5/ F Ú í Ä KP Å</td><td></td><td></td><td></td></tr>
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"d O
1 0;
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#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

"j U 7 - #• ™ Ü Û €

Ä2014 ¤1\ ¼“ Ö Å

*Aî … } Ö #ô Š 2 d#ô j a ' Ë 9L€ œ (

5F f … } Ö ¡ L Ç+`"d YAîAÑ ØB 9L€ œ (

2021 ¤ 1 8

+O × *AîN©- "d O 1- #{ “ Ö Õ z>˜

- #{ &!å Ö ¤ 8 8# ¤ 8

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<tr><td colspan="2">k ƒ 0;F Ö</td><td colspan="3">\ “ Ö ¢'” Ã7a.›5, 8 ¬ Ã ‡K5&¹ o1yF >| k ƒ *Aî È ² j Ã í +O × jF >| d &Aî í *Aî È \ “ Ö 0 F O é 7 P È › 7 P È3_AÑ 0 F O é 7 P È › 7 P Ä</td></tr>
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<tr><td rowspan="4">Ø `>˜M’0 Ä KP Å</td><td>8AÑ</td><td></td><td></td><td></td></tr>
<tr><td>² j</td><td></td><td></td><td></td></tr>
<tr><td>í +O × j</td><td></td><td></td><td></td></tr>
<tr><td>B38²C^& j j</td><td colspan="3">"d O 1 é xAîAÑ]B38²C^& j j • `M’0 KP ÈF >|E÷0;] Z ¯+X È \!Q =)B jF >|- #{ Ä</td></tr>
<tr><td rowspan="2">3 O Ä.# Ã$S Å Gÿ Ä 7 P Å</td><td>8AÑGÿ3$S j k</td><td></td><td></td><td></td></tr>
<tr><td>3$S j</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">• •"d O 1Aî í Gÿ Ä K P × 4 Å</td><td></td><td></td><td></td></tr>
<tr><td rowspan="4">"d O 1 0; F Ö</td><td rowspan="4">² j</td><td rowspan="2">M "d Â"d 3+5</td><td>M "d Â"d1Ñ Ä P Å</td><td></td><td></td><td></td></tr>
<tr><td>M "d Â"d Ç"Ï Ä P Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">Â"dNª Õ 0; Ä × Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">M "dLö:ô 0; Ä × Å</td><td></td><td></td><td></td></tr>
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"d O 1 0; F Ö		d & Q Ä P Å			
		>˜ O •/ë Ä 7 P Å			
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	í + O × j	O ` ¤"ë Ä KP Å		B j 6 O$5*6 > 0 û *Aî""'d 4 *61 È # Î íB N© Ú í Ä	
		5/ F Ú í Ä KP Å			
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		>˜ O •/ë Ä 7 P Å			
"d O#q a ¡ ý €		L}M Gÿ ÄP PÅ			
		0 W ? &L}M Ä P PÅ			
		0 WNþFO ÄP ÅX			
O #q aGÿ Ä WÅX		² j			
		í +O × j			
"d O#q a&® ã » &					
ˆ XL NÈ > *AÞ					

#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

"j U 7 - #• ™ Ü Û €

Ä2014 ¤1\ 9 “ Ö Å

*Aî … } Ö #ô Š 2 d#ô j a ' Ë 9L€ œ (

5F f … } Ö ¡ L Ç+`"d YAîAÑ ØB 9L€ œ (

2021 ¤ 1 8

"d O 1 0; F Ö		d & Q Ä P Å			
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		d & 6 OLb Ô Ä PÅ			
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		>˜ O •/ë Ä 7 P Å			
"d O#q a ¡ ý €		L}M Gÿ ÄP PÅ			
		0 W ? &L}M Ä P PÅ			
		0 WNþFO ÄP ÅX			
O #q aGÿ Ä WÅX		² j			
		í +O × j			
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+O × *AîN©- "d O 1- #{ 98¢Aô ' 7 7 úC{ 6>˜

N©- =0		#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-		
- #{ &!å ¼Lb"ëCS +93 $		2014 ¤1\ 9 “ Ö È 3.51hm²		
98¢Aô '5 Aê Ä .F9 Å		5/8¢ 6 Tô8¢ 4Ò8¢		
Aô ' 7 7		6 l	Ç 6	C{ 6B$ >
Ø O ` õ å	Ø93 $ × f	15	15	B N©- U l × f Ø93 $ È ™ W í ØM’ õ å È \ 4 = “ 6 Ä
	>˜ O •/ë Ô	5	5	B N©- " ¼ @>˜ O •/ë È \ 4 = “ 6 Ä
	3 O Ä.# Ã $S Å 6 n	15	15	N©- 3 O Ä.# Ã$S Å 6 n È \ 4 = “ 6 Ä
"d O#q a(æ å		15	15	\ “ Ö O #q a kGÿ 9m³ È =Cã 100m³ È \ 4 = “ 6 Ä
"d O#q aLb"ë @ x	0; Ú í	20	14	\ “ Ö Â"dNª Õ 0; ÃM "dLö:ô 0; Z Î í È \ 4 “ 6 6 Ä
	=(™ Ú í	15	15	\ “ Ö " Î í =(™ Ú í Ä \ 4 = “ 6 Ä
	d & Ú í	10	10	d & Ú í " Î í ` } Ä \ 4 = “ 6 Ä
"d O#q a ¡ ã		5	5	"d O#q a ¡ ã +O È \ 4 = “ 6 Ä
8AÑ		100	94	

#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

"j U 7 - #• ™ Ü Û €

Ä2014 ¤1\ “ Ö Å

*Aî … } Ö #ô Š 2 d#ô j a ' Ë 9L€ œ (

5F f … } Ö ¡ L Ç+`"d YAîAÑ ØB 9L€ œ (

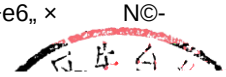
2021 ¤ 1 8

+O × *AîN©- "d O 1- #{ “ Ö Õ z>˜

- #{ &!å Ö ¤ 8 8# ¤ 8

#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

N©- =0



+O × *AîN©- "d O 1- #{ 98¢Aô ' 7 7 úC{ 6>˜

N©- =0		#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-		
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98¢Aô '5 Aê Ä .F9 Å		5/8¢ 6 Tô8¢ 4Ò8¢		
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Ä2015 ¤1\ 0 “ Ö Å

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2021 ¤ 1 8

+O × *AîN©- "d O 1- #{ “ Ö Õ z>˜

- #{ &!å Ö ¤ 8 8# ¤ 8

N©- =0	#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

*Aî … }6„3+

ê ú+eB

D U Þ

+O × *AîN©- "d O 1- #{ 98¢Aô ' 7 7 úC{ 6>˜

N©- =0		#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-		
- #{ &!å ¼Lb"ëCS +93 $		2015 ¤1\ 0 “ Ö È 3.51hm²		
98¢Aô '5 Aê Ä .F9 Å		5/8¢ 6 Tô8¢ 4Ò8¢		
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Ø O ` õ å	Ø93 $ × f	15	15	B N©- U l × f Ø93 $ È ™ W í ØM’ õ å È \ 4 = “ 6 Ä
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"d O#q a(æ å		15	15	\ “ Ö O #q a kGÿ 2m³ È =Cã 100m³ È \ 4 = “ 6 Ä
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#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

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Ä2015 ¤1\ ¼“ Ö Å

*Aî … } Ö #ô Š 2 d#ô j a ' Ë 9L€ œ (

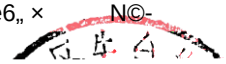
5F f … } Ö ¡ L Ç+`"d YAîAÑ ØB 9L€ œ (

+O × *AîN©- "d O 1- #{ “ Ö Õ z>˜

- #{ &!å Ö ¤ 8 8# ¤ 8

N©- =0

#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-



2015

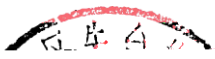
2021 1

		m^3	0.20	0	0.20
		m^2	0.25	0	0.25
		hm^2	0.50		
		hm^2	0.50		
		m	160	0	175
		m	142	0	142
		m^2	800	0	830
		m^3	0.15	0	0.15
		mm	-	302.6	459.2
		24 mm	-	54.5	-
		m/s	-	5.6	-
t			-	2	39
			-	0	4

		m^3	0.20	0	0.20

m^2

2016



2021 1

2016 1 1 2016 3 31

	/13475574008			
	/13021502421	2021 1 22		2021 1 22
		0 m³ 0 m³ 1.19 m³ 1.19 m³		
hm²		5.01	0	3.51
		4.51	0	3.01
		0.50	0	0.50
		1.00 hm²		
m³	/	0/0	0/0	0/0
	1	/	/	/
hm²/ /		/	/	/
	m	135	0	0
	m	1520	0	1480
		1	0	0
		2	0	0
		1	0	1
	hm²	0.67	0	0.60
	hm²	0.67	0	0.60
	m	650	0	660
		1	0	1
	m²	297	0	297

		2016 3.51hm^2		
		6		
		15	15	
		5	5	
		15	15	
		15	15	1m^3 100m^3
		20	14	6
		15	15	
		10	10	
		5	5	
		100	94	

2016

2016 4 1 2016 6 30

	/13475574008			
	/13021502421	2021 1 22	2021 1 22	
		1 0.41 m^3 0 m^3 1.60 m^3 1.19 m^3		
		5.01	0	5.01
		4.51	1.50	4.51
hm^2		0.50	0	0.50

		2016 5.01hm^2		
		15	15	
		5	5	
		15	15	
		15	15	6m^3 100m^3

2016

2021 1

حی

مخ غ		2016 5.01hm^2		
مخ	مخ	15	15	
ضرحی	حی	5	5	حی
	حی	15	15	حی
حی		15	15	حی 6m^3 100m^3
حی		20	14	6
		15	15	
		10	8	2
حی		5	5	حی
		100	92	

2016 10 1 2016 12 31

		m^2	297	0	297
		m^3	0.20	0	0.20
		m^2	0.25	0	0.25
		hm^2	0.50		
		hm^2	0.50		
		m	160	0	175
		m	142	0	142
		m^2	800	0	830
		m^3	0.15	0	0.15
		mm	-	69.5	537.6
		24 mm	-	10.7	-
		m/s	-	4.5	-
			-	6	60

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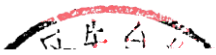
2017 1 1 2017 3 31



		2017 5.01hm^2		
		15	15	
		5	5	
		15	15	
		15	15	6m^3 100m^3
		20	14	6
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	/13475574008		
	/13021502421	2021 1 25	2021 1 25

حى Ḡ		χ ˆ m2˜	297	0	297
		حى ▫ ˆ ' m3˜	0.20	0	0.20
		ˆ ' m2˜	0.25	0	0.25
	ٮٮ ٮٮ	ضرحى ˆ hm2˜	0.50	ٮٮ حى U ˘ Â	
		. ˆ hm2˜	0.50		
		χ ˆ m˜	160	0	175
		χ حى ˆ m˜	142	0	142
		χ ˆ m2˜	800	0	830
		حى ▫ ˆ ' m3˜	0.15	0	0.15
حى ڏ غج		ˆ mm˜	-	138.6	176.0
		24 ˆ mm˜	-	36.3	-
		ˆ m/s˜	-	3.2	-
حى ˆ t˜		ٮٮ ٮٮ	-	6	72
		ٮٮ ٮٮ	-	0	4
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˩ ضرحى ˌ حى ▫ Ḡ 5 5

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2021 1 25 2021 1 25

		m^2	297	0	297
		m^3	0.20	0	0.20
		m^2	0.25	0	0.25
		hm^2	0.50		
		hm^2	0.50		
		m	160	0	175
		m	142	0	142
		m^2	800	0	830
		m^3	0.15	0	0.15
		mm	-	208.7	384.7

		2017		5.01hm^2
		6		
		15	15	
		5	5	

2017

2021 1

2017 10 1 2017 12 31

	/13475574008		
	/13021502421	2021 1 25	2021 1 25
		0 m^3 0 m^3 1.60 m^3 1.60 m^3	
hm^2		5.01	0	5.01
		4.51	0	4.51
		0.50	0	0.50
		hm^2		1.00
m^3	/	0/0	0/0	0/0
	1	/	/	/
hm^2/ /		/	/	/
	m	135	0	150
	m	1520	0	1480
		1	0	0
		2	0	0
		1	0	1
	hm^2	0.67	0	0.67
	hm^2	0.67	0	0.67
	m	650	0	660
		1	0	1

		m^2	297	0	297
		m^3	0.20	0	0.20
		m^2	0.25	0	0.25
		hm^2	0.50		
		hm^2	0.50		
		m	160	0	175
		m	142	0	142
		m^2	800	0	830
		m^3	0.15	0	0.15
		mm	-	33.7	418.4
		24 mm	-	9.2	-
		m/s	-	4.5	-
t			-	6	84
			-	0	4

í à

	2017 5.01hm^2		

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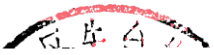

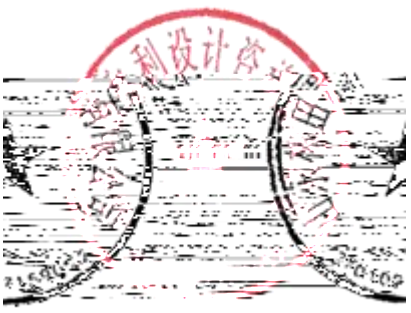

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l » + ł ! Ù ! + c $ ł] Q d

» f ! o ƒ f 3×130t/h 6 , $ – ¶ +2×B12MW z Ý (o ƒ d

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		/ æ n m	1480	1480

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4. Òß ˘ a N _ ‡

4.1 Òß K r ‡

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g	Òß h K r m²	_
¢ g g	30900	Òß h V } N ˜ ÷$ Õ7

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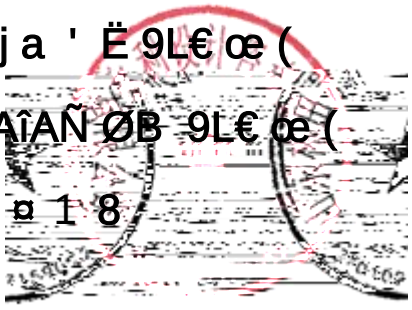

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2015 -]QÎ ¬]Qh Î ¶ 3-1 d

¶ 3-1 2015 - g]QÎ ¬]Qh¶

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	/ æ , Ä	/ æ • m	0	0
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, Õ	Ó $ Î hm²	0	0.6
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3 ,¨ Î -g ¬ Æ ã

2015 - ,¨ Î ¬] Q h Î ¶ 3-5 d

¶ 3-5 2015 -g,¨Î ¬]Qh¶

¶ 3-6 »,,¨ Î &™ä-gí™¬]Qh¶

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3.4 Òl[Î ½-Ò´

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4. Ò û ž Æ ã N _ ³

4.1 Ò û ž K r ³

T l 2015 - g ³ 8 Ò û ž V ‘ Ÿ “ } N Ä ÷ $ Õ 7 R ‘ g Ò û ž K r Î ¶ 4-1 d

‘ g	Ò û ž h K r m²	• _
¢ ‘ g	35100	Ò û ž h V ‘ Ÿ “ } N Ä ÷ $ Õ 7
• ‘ g	35100	
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4.2 Ò û ž h ³ ´

‘ g	í ™ ž h t	& ™ ž h t
¢ ‘ g	2	39
• ‘ g	2	41
8 ‘ g	2	43
‘ g	2	45

4.3 Ü `G™Žò!!G#•H e®¿q\ 0—€> B0B8/MCID2.66 TJ ET Q EMC /Span <<

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	, ¨ æ n m	0	
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	¶ Ò i 6 m³	0	

1.3 ³] ´ ¬ Æ ã

», 2014 - 4 e 9 ¹ ¶ t V J ˜ F ¯ ¦ w Š Đ Ç , Š Õ K [O « d (S ! », Ò l [º # q A à " Œ @ x ? Œ V 2014 - 6 e 3 V J ˜ F ¯ » º " [2014]140 Ü • Ÿ t w ' Š Đ Ç , Š Õ K [O « d (S ! », Ò l [º # q A à x d

Ù • æ * 2021 - 1 e á A æ *) û Ò l [³ T l] ‡ x c ³ 8 ‡ x » ƒ 2016 - / ò õ ¾ © % 2016 - ' g ³ q A 2016 - ¢ ' g ' g ³ q A à q ä 2016 - ³ - g q A d

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2016 -]QÎ ¬]Qh Î ¶ 3-1 d

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	/ æ , Ä	/ æ • m	0	0
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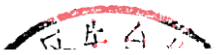

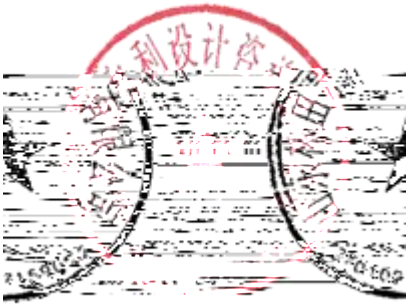

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3×130t/h +2×B12MW

5.01hm^2

1.2

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1-1 2017

		m		
		m		
		hm^2		
		hm^2		
		m		
		m^2		
		m^3		
		m^2		
		hm^2		

1-1 2017

	hm^2		
	m		
	m		
	m^2		
	m^3		

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3-1 2017

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					0	

3-4

	hm^2	0.07	0.67
	hm^2		

3.3

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2017

3-6

	m		
	m^2		
	m^3		
	m^2		
	m		
	m		
	m^2		
	m^3		

3.4

2017 -7

3-7

		m	150	150
		m	0	1480
			0	0
			0	0
			0	
		hm^2	0.07	
		hm^2	0.07	
		m	0	
			0	

m

3