



2016 8 30
161670

2016

A

1.5
R1

2.5

[2003]56

3.9

4.18

5.22
R1 R1 R1

		40
6.		
		50
7.	2015	..54
8.		
		66
		69
1.		
		69
2.		
	[2015]31	
		77
26		87

1.

R1

R1

26

2016

2017C635 EMC /P <</MCID 35>> BDC B7F3 12

1

1

R1

2012

R1

F

F51

2011

2013

2

3

R1 60%

R1

50%

2

25%

4

10%

1

10%

2

R1 60%

3

R1

60%

[2016]

734

R1 60%

[2016]71

4

R1 60%

7

R1 60%

2.

[2003]56

1

2014

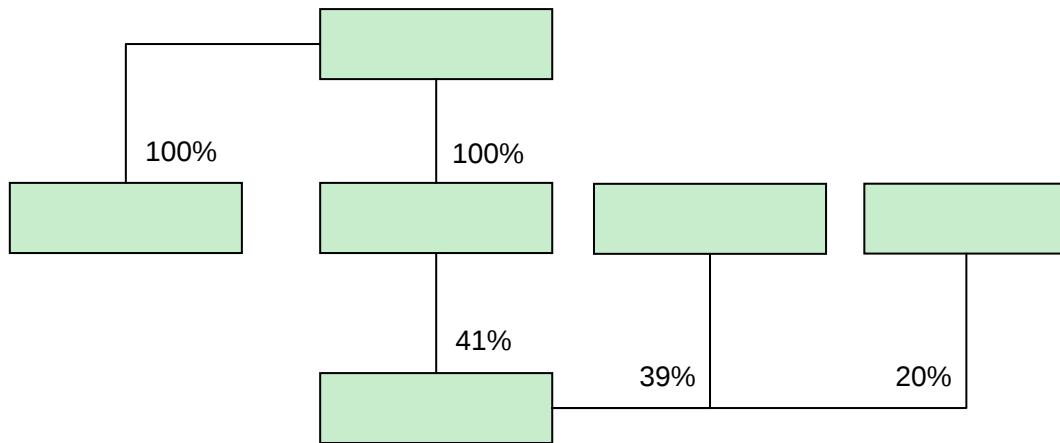
2014 9 18

41%

39% 20%

2

	20,000		
	10,000		
	1,000		41%



1

2014 11 21

3.5 2014

11-12 2015 2.60

4,010.86 1.60 2015 12

31 6,000 2016 1

7,800 7,605 6,000

2

2015 3 30

2 2015

3.26 2.25 2015

12 31 1.01 2016 3

9,500 1.01

2015 12 31 1.61

2016 4 21

	2014	910,177.22	0.50%	4,550.89
5.00%	45,508.86			
	0.50%	5.00%		
				2015
				2014
				4.80
	5.80			
2016	4		1	
			2	
2016	4	20		
				4.35%
		2016	5	30
30				2016
				5
				713.17
2016	4	21		

2016 6 16

2016 6 17

[2016] 115385

2016

5 31

1

2016 8 12

[2016]3

[2010]12

30

2

2016 8 26

<

>

1

2016 10 31

2

1

1

2016 9 30

2

2016 8 31

3

2

3

2016 10 31

2016 8 26

[2003]56

[2003]56

12

30

[2016]3

[2003]56

30

3.

2016 10 24

1

2

2014

2014

9.2

10%

10%

1,000

10%

100

10%

1,000

10%

100

				2016	5	27
2015	11	28	2015	11	28	

1

2016	9	29
------	---	----

	70,807.02	29.34%
12		70.66%

2

[2016]	020267	2015	12	31
	50,544.48			
	560		1,599	2,159

		[2016]	8202	2015
12	31		70,807.02	

1	5
---	---

3

2016	12
------	----

290,310.81

R1

4.

200

134,961.17

19

5

3

5

6

	2016	2017	2018	2019	2020	
	3,000	12,000	15,000	10,000	10,000	50,000
	3,000	6,000	7,000	7,000	7,000	30,000
	5,000	12,000	13,000	10,000	10,000	50,000
	5,000	10,000	15,000	15,000	15,000	60,000
	16,000	40,000	50,000	42,000	42,000	190,000

1

353

19

12.21

3

2

2016

690

37.50

12

75

3

19

3.80

1.60

4.00

5.00

4.20

2016

6

30

288

34

33

9

288

/33

6

3

4

2015

2,000

1,500



1

	2016	2015	2014	2013
	344,780.42	792,092.74	1,081,841.93	1,143,790.62
	333,913.26	793,779.07	1,028,643.01	1,096,665.95
	10,867.16	-1,686.33	53,198.92	47,124.68
	-32,908.96	-115,529.20	-9,509.27	8,735.56

1,143,790.62 1,081,841.93 792,092.74 344,780.42

47,124.68 53,198.92

-1,686.33 10,867.16 8,735.56

-9,509.27 -115,529.20 -32,908.96 2014

2016 2015

2015 10,867.16

2

	2016	2015	2014	2013
	3.92%	1.12%	5.53%	4.69%
	2.40%	-1.07%	3.96%	3.29%
	28.59%	33.17%	45.09%	52.22%

4.69% 5.53% 1.12% 3.92%

2016

			1,124,303.78	1,056,727.47
777,774.85	334,906.66		3.29%	3.96% -1.07%
2.40%				
2016				

				19,486.84
25,114.46	19,859.18	3,990.11		52.22%
45.09%	33.17%	28.59%		

1

2015

40%
20%

2015 11

2020

2005

2015 7

100%

2

30

7-8

25

200

71.36

3

4

40,000 / 10,000

/ 2015

10,000

/

1

60

IPO

1954

60

2

1

1

2005-2011

2008

2012

RU00

2005 1 2006 5

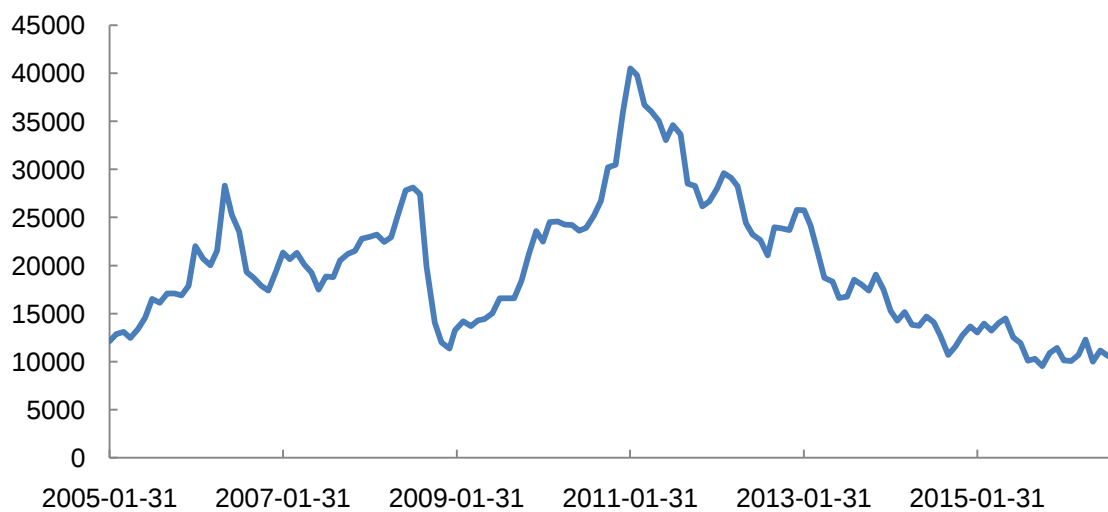
2006 6 2006 11 2006

12 2008 7 2008 8 2008 11

2008 12 2011 2 2011 3

10,000 / 12,000 /

/



2005 1 -2016 9

2

7-8

2005-2016 9

RU00

	RU00		
	<i>I</i>		*
2005	18,365	1,583.96	2,908.94
2006	19,905	4,437.12	8,832.09
2007	23,255	7,641.63	17,770.60
2008	10,810	7,817.83	8,451.07
2009	24,355	15,908.50	38,745.14
2010	36,760	29,446.38	108,244.89
2011	24,320	19,692.02	47,890.99
2012	26,415	14,144.89	37,363.72
2013	18,205	12,614.80	22,965.24
2014	13,525	13,963.02	18,884.99
2015	10,605	13,729.63	14,560.27
2016 1-9	13,265	12,768.94	16,937.99
<i>I</i>	19,982		
<i>I</i>	22,387		

wind

2005 -2016 9 30

19,982 / 22,387 /

0% 5% 10%

	0%	5%	10%
/	19,982.00	20,981.10	21,980.20
/	22,387.00	23,506.35	24,625.70

0% 5% 10%

19,982.00 / 20,981.10 / 21,980.20 /

22,387.00 / 23,506.35 / 24,625.70 /

22,000 /

2005-2016 9

2

1

3.3*6

33

3.4

112

96%

108

100Kg/ 2015

16.94

2.44

4.71

2015

1.28

130.75Kg/ 2015

8.60

1.70

2.40 2015

0.53

117.78Kg/

2

25

100Kg/

			Kg/
1	1	-	-
2	2	-	-
3	3	-	-
4	4	-	-
5	5	-	-
6	6	-	-
7	7	-	-
8	8	-	-
9	9	1	40
10	10	2	50
11	11	3	60
12	12	4	70
13	13	5	85
14	14	6	95
15	15	7	110

32	32	24	55
33	33	25	50

1-8

15

30

3

--	--	--

1

138 /

20%

80 /

30 /

4

10%

	%		
	9.0	85,855	18.77
10%	10.4	132,207	17.87
10%	7.5	39,503	20.04
10%	8.3	62,333	19.43
10%	9.8	109,377	18.20

9.0% 85,855

18.77 10%

10.4% 132,207 17.87 10%

9.8% 109,377 18.20

10% 7.5% 39,503

20.04 10% 8.3%

62,333 19.43 10%

10%

290,310.81

1.2		61,398.60	-
1.2.1		14,008.80	
1.2.2		1,700.00	
1.2.3		13,169.80	
1.2.4		2,420.00	
1.2.5		26,800.00	
1.2.6		1,000.00	
1.2.7		500.00	
1.2.8		1,800.00	
2		18,185.59	-
2.1		13,650.00	
2.2		1,104.19	
2.3		1,960.80	
2.4		980.40	
2.5		245.10	
2.6		245.10	
3		3,448.63	
4		2,908.36	
		134,961.17	-
		110,418.59	-
		24,542.58	-

1

2

3

4

110,418.59

24,542.58

2

		18,185.59	13.47%
	13,650.00	1,104.19	
	1,960.80		
	3,448.63	2,908.36	
	2.15%		
		2.56%	
2			
1			
		202,382.17	
195,476.17		6,906.00	
172,043.19		88.01%	8,953.26
	4.58%	14,479.72	7.41%

1		172,043.19	-
1.1		37,693.72	-
1.1.1		12,081.32	
1.1.2		7,671.64	
1.1.3		8,064.28	
1.1.4		90.61	
1.1.5		9,785.87	
1.2		128,061.99	-
1.2.1	2-3	40,472.42	
1.2.2	4-8	87,589.57	

1.3		6,287.48	-
1.3.1		1,984.32	
1.3.2		1,223.21	
1.3.3		1,222.94	
1.3.4		1,632.00	
1.3.5		225.00	
2		8,953.26	
2.1		1,376.00	
2.2		57.00	
2.3		433.00	
2.4		7,490.00	
2.5		1,076.00	
2.6		56.00	
2.7		10.00	
3		14,479.72	
4		6,906.00	
		202,382.17	-
		172,043.19	-
		30,338.98	-

172,043.19

30,338.98

2

8,953.26

4.42%

7,490.00

1,076.00

1,376.00

14,479.72

6,906.00

7.15%

3.41%

3

1		134,961.17	100,000	110,418.59	24,542.58
2		202,382.17	150,000	172,043.19	30,338.98
3	R1	6,207.77 40,310.81	40,310.81	40,310.81	0
		377,654.15	290,310.81	322,772.59	54,881.56

4

322,772.59

54,881.56

110,418.59

100,000

172,043.19

150,000

5.

R1

R1

R1

R1

R1

R1

R1

R1

	2016		2015	
R1	1,858.45	0.81%	6,704.29	1.00%
	230,244.67	100.00%	668,615.97	100.00%

R1

R1

6,704.29

1,858.45

1.00%

0.81%

R1

R1

R1

R1

R1

1

R1

R1

R1

Cargill

Mardec

2001	R1			2012			
R1	60%	15%		R1			R1
		R1	60%		R1	75%	R1
			R1		R1		R1
							R1
							R1
2				R1			
				R1			R1
3		R1					
				R1			R1
							R1
					R1		
				R1			
		R1			R1		
						=	-
	X						
				R1			
	R1						

R1

R1

R1

1

2016

2016-2018

2,500

2017

2017-2019

3,000

2

R1

R1

R1

60%

R1

3

R1

60%

R1

R1

R1

R1

R1

R1

R1

R1

	R1	60%		R1	
			R1		R1
				R1	
			R1		
	R1				
R1			R1		
			=	-	X

1

1

2

3

4

2

3

1

2

	2016	5	31			R1
International Pte Ltd						R1 International Pte
Ltd	2014	2015	2016	10	25	
	R1		R1			

1

	R1	60%		R1
--	----	-----	--	----

2015	12	31	R1	60%	6,497.91
------	----	----	----	-----	----------

2

[2016]	734
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	2016	2017	2018	2019	2020	2021
rf	2.27%	2.27%	2.27%	2.27%	2.27%	2.27%
rm	9.62%	9.62%	9.62%	9.62%	9.62%	9.62%
	15.23%	20.15%	20.20%	20.25%	20.29%	20.28%
u	0.3423	0.3423	0.3423	0.3423	0.3423	0.3423
e	0.5209	0.5105	0.5104	0.5103	0.5102	0.5103
	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400
r _e	10.10%	10.02%	10.02%	10.02%	10.02%	10.02%
	3.81%	3.59%	3.59%	3.59%	3.59%	3.59%
WACC	7.70%	7.57%	7.57%	7.57%	7.57%	7.57%

R1
 WACC R1
 rf
 rm R1
 β_e
 2013 1 2015 12
 R1
 0.04
 R1 WACC
 1
 R1
 2016-2020
 R1

	2016	2017	2018	2019	2020
--	------	------	------	------	------

	109,099.9 0	119,625.6 5	132,823.9 2	145,395.6 0	159,480.49
	6.18%	9.65%	11.03%	9.46%	9.69%
/	1,472.33	1,494.20	1,568.91	1,647.36	1,729.72

74.10

	2014	2015	2016	2017	2018	2019	2020
	66.03	65.24	69.00	73.00	77.00	80.00	83.00
	-	0.92	5.10	7.06	7.66	8.26	9.20
	66.03	66.16	74.10	80.06	84.66	88.26	92.20
	-	0.20%	12.00%	8.04%	5.75%	4.25%	4.46%

1

1950 172

2015 1,217 3% 90%

10 3.3%

2 R1

2015 R1

10 / R1

2016-2018 R1 4

2019-2020 3 Frost & Sullivan

R1 2015 IRSG 2015

1,234 R1 2015 5.43%

R1 2015

R1 16

R1 R1

2

R1 International Pte. Ltd. 60%

R1

R1

R1

R1

R1

6.

100

50%

1

2005

25

1980

1980

1980

1980

100% 1980

1980

30%

25

3%

15

2

2012

7-8

25

2

50 /

2

50 /

3

2016 6

4

	2016	6	2015
1	221.79		223.18
/ 2	1,169.46		1,340.82
3=1*2	259,373.48		299,240.99
/ 4	50.00		50.00
5=1*4	11,089.46		11,158.88
6	238,406.13		234,966.76
7=3-5-6	9,877.89		53,115.35

2015 2016 6

3

25

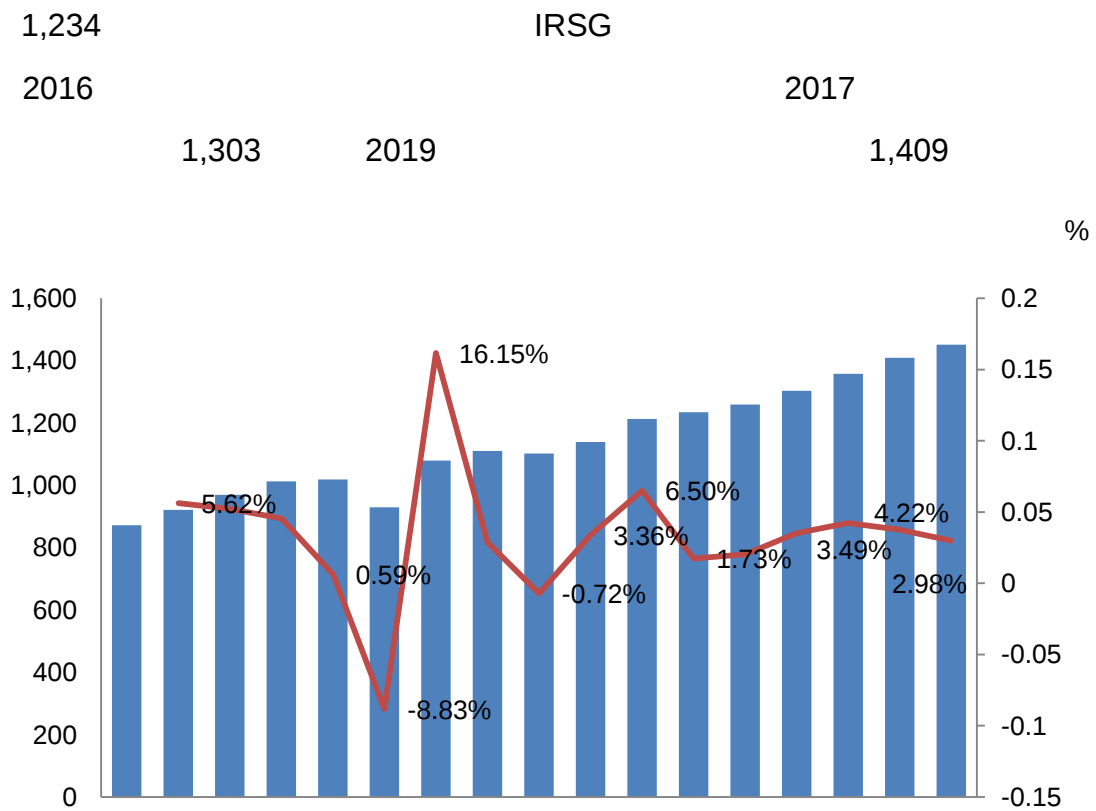
					[2014]36
		8		20	450 /
2015	2016	1-6			450
/			25		11,250 /
				7,000	/

7. 2015

2015

1

		1960	200	2015
1,234		2004		
	2008	2009		2010
		2015		1.8%



2004-2020

IRSG

2

60

1961

390

2015

1,201.1

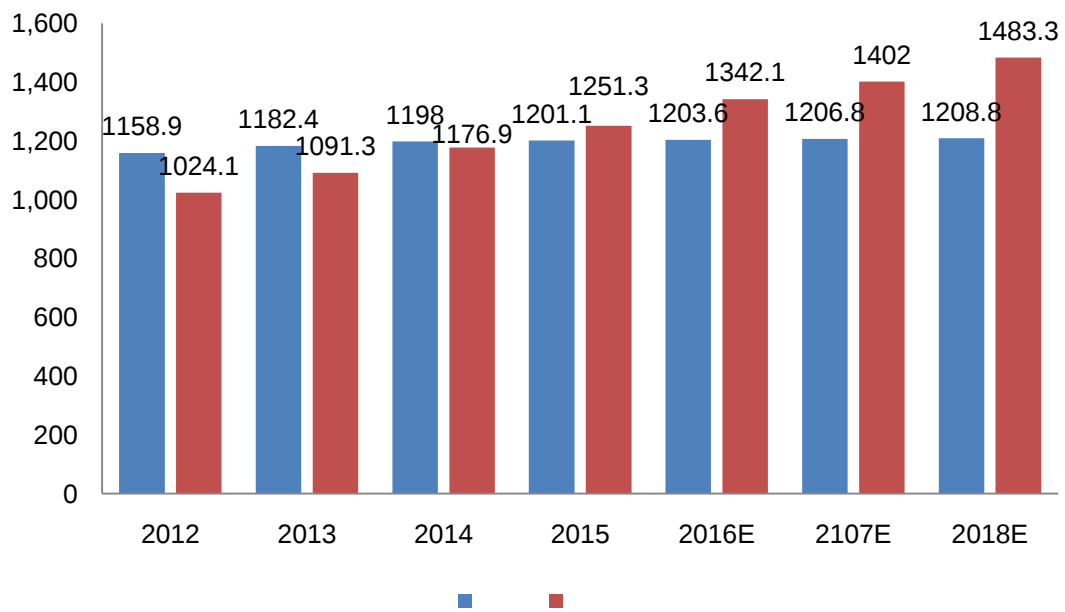
1961

210

2015

1,251.3

7-8



2012-2018

IRSG

3

2005-2011

2008

2005

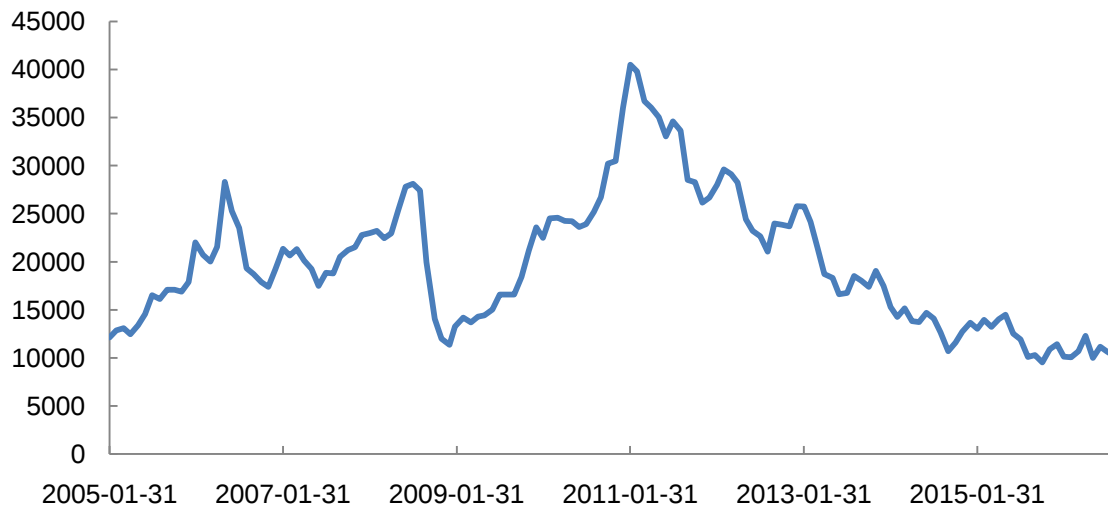
9,900 /

2011

42,900 / 2012

11,000 /

/



2005 1 -2016 9

2015 2016

	2016 1-6	2015
	374,313.35	840,012.15
	374,313.35	840,012.15
	404,500.09	972,496.43
	359,635.29	830,567.97
	139.92	526.49
	8,076.90	31,926.25
	25,048.98	56,651.72
	6,977.45	12,101.05
	4,621.56	40,722.96
	5,816.14	-941.17
	-8,538.36	17,896.24
	2.96	597.25

	-32,908.96	-115,529.20
	13,764.75	14,958.88
	184.65	374.91
	735.48	2,040.54
	112.20	779.12
	-19,879.69	-102,610.86
	1,768.36	-4,316.16
	-21,648.05	-98,294.70

98,294.70

21,648.05

2015

2016

1-6

1

2016		71,604.58	75,270.71	-5.12%
		256,329.53	244,666.72	4.55%
		6,972.54	6,924.77	0.69%
		334,906.66	326,862.20	2.40%
		9,873.76	7,051.06	28.59%
		344,780.42	333,913.26	3.15%
2015		94,264.98	114,559.83	-21.53%
		662,742.10	649,047.61	2.07%
		15,226.48	16,899.30	-10.99%
		772,233.56	780,506.74	-1.07%
		19,859.18	13,272.33	33.17%
		792,092.74	793,779.07	1.12%

1

	2015	2016
2015	81,411.87	11,578.78
/	14,071.64	-20,294.84
-21.53%		

2015

	2016
70,576.72	10,145.64 /
10,665.09 /	3,666.13 -5.12% 2016
	2015

2

	2015	2016
	2015	
662,742.10	649,047.61	13,694.49
2.07% 2016		256,329.53
244,666.72	11,662.81	4.55%

3

	2015	2016
	2015	
15,226.48	16,899.30	-1,672.82
-10.99% 2016		6,972.54
6,924.77	47.77	0.69%

4

2015	2016	2015
	19,859.18	13,272.33
6,586.85	33.17% 2016	
9,873.76	7,051.06	2,822.70

28.59%

2

	2016		2015	
	8,076.90	2.25%	31,926.25	3.84%
	25,048.98	6.97%	56,651.72	6.82%
	6,977.45	1.94%	12,101.05	1.46%
	40,103.33	11.15%	100,679.01	12.12%
	359,635.29	100%	830,567.97	100%

1

31,926.25 8,076.90

2

56,651.72 25,048.98

3

12,101.05 6,977.45

3

2015 2016

	2016	2015
	1,938.54	648.55
	2,683.02	33,526.27
	-	-
	-	-
	-	-

	-	-
	-	6,548.14
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-
	4,621.56	40,722.96

2015

40,722.96

33,526.27

2015

6,548.14

4

2015

2016

	2016	2015
	256.58	597.25
	-	-
	-9,675.82	15,008.18
	-	367.70
	880.88	2,159.96
	-	-236.84
	-8,538.36	17,896.24

2015

2016

17,896.24

-8,538.36

2016

5

2015 2016

	2016	2015
	13,764.75	14,958.88
	735.48	2,040.54
	13,029.28	12,918.34

2015 2016 14,958.88

13,764.75 2,040.54 735.48

12,918.34 13,029.28

2014 2015

2014 2015

	2015	2014
	840,012.15	1,119,867.17
	972,496.43	1,157,173.10
	830,567.97	1,057,907.05
	526.49	405.21
	31,926.25	30,506.32
	56,651.72	59,616.77
	12,101.05	8,776.47
	40,722.96	-38.73

	-98,294.70	2,880.36
--	------------	----------

1

	2015	2014
	9,444.18	61,960.12
	1.12%	5.53%

2014 2015 61,960.12 9,444.18
 5.53% 1.12% 2015 2014

2015 2014

52,515.94

2

	2015		2014	
	31,926.25	31.71%	30,506.32	30.85%
	56,651.72	56.27%	59,616.77	60.28%
	12,101.05	12.02%	8,776.47	8.87%
	100,679.01	100.00%	98,899.57	100.00%

2014 2015 98,899.57

100,679.01 2015 2014 1,419.93

2015 2014 2,965.05

2015 2014 1,779.44

3

	2015	2014
	648.55	1,304.24
	33,526.27	-1,817.97
	-	-

	-	-
	-	-
	-	-
	6,548.14	-
	-	-
	-	-
	-	-
	-	-
	-	-
	-	475.00
	-	-
	-	-
	40,722.96	-38.73

2014 2015 -38.73 40,722.96

2015 2014 40,761.69 2015

33,526.27 6,548.14

2015

33,526.27

2015 6,548.14

4

	2015	2014
	-	-
	597.25	354.46
	-	157.69
	15,008.18	31,414.91
	367.7	606.42
	2,159.96	309.96

	-236.84	-
	17,896.24	32,843.43

2014 2015 32,843.43 17,896.24

2015 2014 14,947.19 2015

2014 16,406.73

5

	2015	2014
	14,958.88	15,572.67
	2,040.54	1,106.77
	12,918.34	14,465.90

2014 2015 14,465.90

12,918.34 2015 2014 1,547.56

6

	2015	2014
	-98,294.70	2,880.36

2014 2015 2,880.36 -98,294.70

2014 2015

2015 2016

2015

2016 1-6

2014

2015

8.

22

2016 6 30

	1,588.66
	1,588.66
	-
	56,124.65
	4,401.53
	51,723.12
	6,991.65
	6,991.65

2016 6 30

1,588.66

2016

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	5,609.76
	206.38
	-9,675.82
	-3,859.68

2016

-3,859.68

2016

2016 6 30

2016 6 30

4,401.53

56,124.65

51,723.12

2016

R1 International Pte. Ltd.

2016

118.62

R1 International Pte. Ltd.	5,716.65	15%
	1,025.00	100%
	250.00	5%
	6,991.65	-

2016 6 30

24,288.30

93,960.16

		20,000.00	2016 6 17	2016 7 22	70.96
		4,288.30	2016 4 12	2017 4 14	43.30
	-	24,288.30	-	-	114.26

2016 6 30

24,288.30

20,000.00

70.96

4,245.00

43.40

2016 6 30

	62,735.28	1		

2012 8 6

[2012]7 2016 8 12

[2016]3

[2012]7

2012

1

8

2

1

24

2

2011-2012

3

1

898.64

2

2012 7 11

3

4

1

24 -

1

A.

B.

C.

D.

E.

F.

G.

2

A.

B.

C.

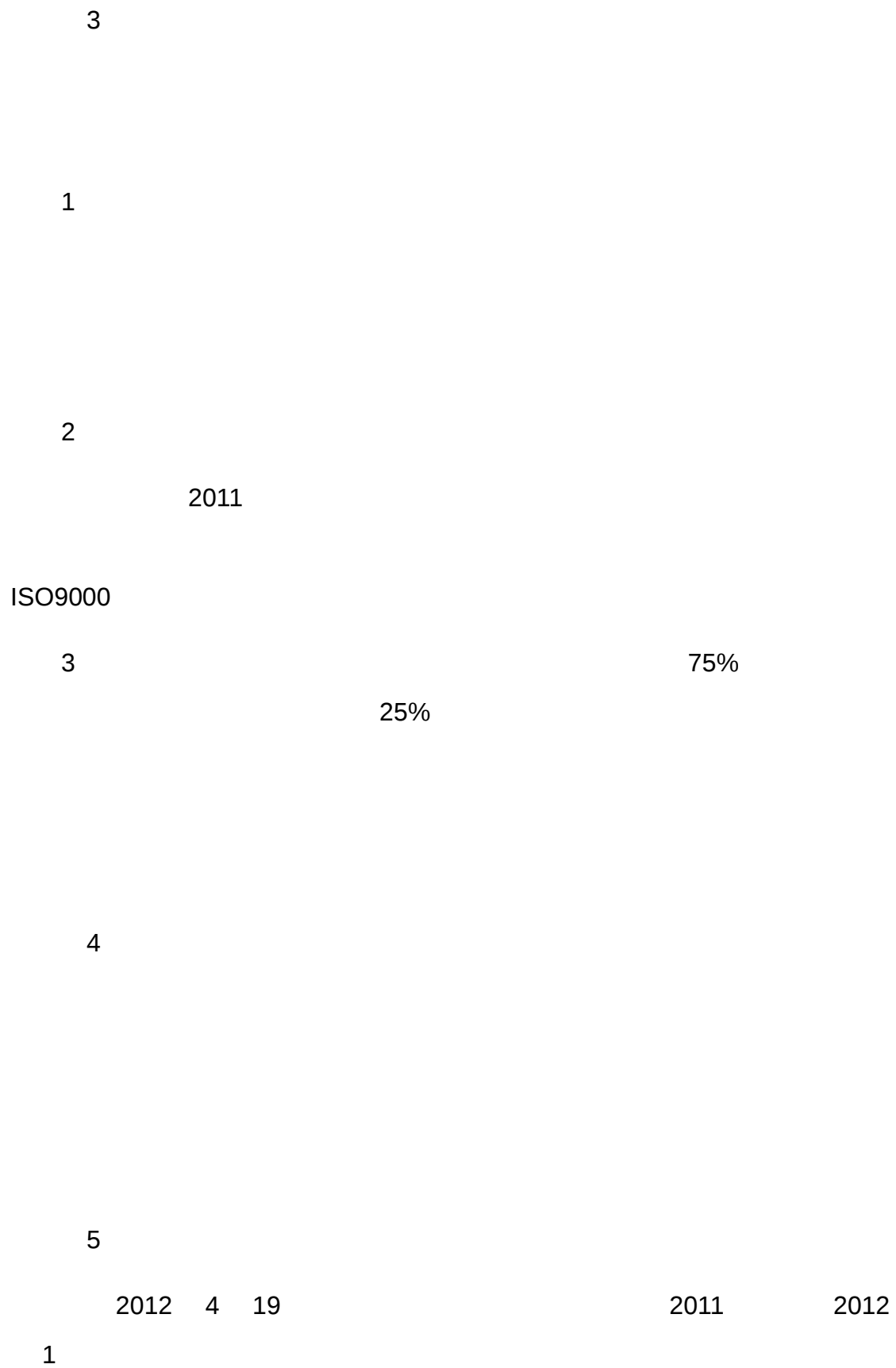
2

2012 2

10.91

18.63

50%



6

2012

1 3 2012 1 6

200 79.16 2012

1 13 200 75.202

2007 2011

1410 2011 12 31

429.56

2011 12 31 200

5

1

2011 3 31

2010

2011

2011 4 21

2011

2011 16

2

2011 10 19 2012 2 28

[2011]229

[2012]4

5

[2016]3

/ 2/

/

2.

[2015]31

[2015]31

[2015]31

2016 5 27

2016 6 20

2016

2016 10 24

[2015]31

2016 10 25

1

1

2

2016 12

3

56,261.78

4

290,310.81

5

6

2016

=2016

+2016

-

+

290,310.81

7

2016

2016

8

9

2

2016

	898,338.17	798,500.39	798,500.39
	798,500.39	800,738.49	1,091,049.30
/	-0.32	-0.09	-0.09
/	-0.32	-0.09	-0.09
	-11.66%	0.28%	0.28%

2016

R1

2016

1

1

2015 11

2020

2015 12

2

2015 11

3

2015

9.83 -0.25 /

353

200

2

1

2015

484 40%

82.99 16.70%

90% R1

R1

2012 4

R1 R1 15% 60%

R1

R1 60%

2

353

200

19

3

200

30

1

R1

R1

2

300

LpACÂ

1

R1

2

R1

R1

3

4

5

3

2016-2018

1

1

2

3

4

5

6

2

R1

2016

2016-2018

2,500

2017

2017-2019

3,000

A

A

2016

[2015]31

26

	26	

		R1
		R1
		R1 R1
		R1
		R1
		R1

		R1
		R1 R1
		R1
	20%	

		R1
		R1

	1	
	2	
	3	

		R1
	1. 2.3. 4. 5.6. 7.8. 9.	

	1 2 3 4 5 6	R1
		R1
	1. 2. 3. 4.	R1

	1. 2. 3. 4. 5. 6.	R1
	1. 2. 3. 4.	
	1. 2.	
	1.	

	2. 3. 4.	
		R1 R1
		R1
		R1 R1
		R1
		12

2016 10 24