

# Shotcrete Project list of Allied Rongda for blast furnace lining and relining(till 201706)

Beijing Allied Rongda Engineering Material Co. Ltd. Dr. Perry ZHANG President of the board.

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Province	Name of I&S Company	City	BF No	Earth diameter (m)	Total volume (m <sup>3</sup> )	Year of repair	Tonnage shotcrete	Name of product	Duration shutdown (h)	Service life	Shotcrete Part of Furnace	Cooling structure
Heilongjiang	Xilin Iron and Steel Group A Cheng Steel Co., Ltd.	Yichun City	1	5.6	450	2010/10/18	167	Upper material (Cement combines) RGP-CM Lower material (Cement combines) RGP-CA	34	regular service for more than 12 months	Tuyere to furnace throat(fully lined)	cooling stave
Tianjin	Tianjin Rongcheng Steel Group Co. Ltd.	jinnan district	3	6.39	580	2010/12/2	114	Upper material (Cement combines) RGP-CM Lower material (Cement combines) RGP-CA	24	regular service for more than 12 months	Fully lined	cooling stave
Sichuan	Pangang Group Xichang New Steel Co. Ltd.	Panzhihua City	2	5.5	450	2010/12/23	33	RGP-CM	7	regular service for more than 12 months	Upper part of Stack	cooling stave
Vietnam	Vietnam Hefa Steel Co., Ltd.	Hanoi City	1	5.6	450	2011/1/12	55	RGP-CM	10	regular service for 28 months	Water tank bracket to furnace throat steel brick	cooling stave
Zhejiang	Quzhou Yuanli metal products Co., Ltd.	Quzhou City	2	5.55	450	2011/3/1	114	RGP-CM,RGP-CA	16	regular service for 18 months	Fully lined	cooling stave

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Zhejiang	Quzhou Yuanli metal products Co., Ltd.	Quzhou City	1	5.55	450	2011/3/10	143	RGP-CM,RGP-CA	17	regular service for 18 months	Fully lined	cooling stave
Tianjin	Tianjin Rockcheck Steel Group Co. Ltd.	jinnan district	1	5.6	450	2011/3/23	120	RGP-CM,RGP-CA	15	regular service for more than 12 months	Fully lined	cooling stave and cooling stack
Shanxi	Hanzhoung Shaanxi iron and Steel Group Corporation	Hanzhoung City	2	5.33	380	2011/3/26	94	RGP-CM	13	After regular service for 13 months,furnace shutdown because of hearth overhaul	Fully lined	cooling stave
Hebei	Chengde Sheng Feng Steel Co., Ltd.	Chengde City	2	6	650	2011/5/9	75	RGP-CM	13	After regular service for 13 months,medium maintenance because of equipment damage	Upper part of Stack	cooling stack
Jiangshu	Baosteel Meishan Iron & Steel Limited by Share Ltd	Nanjing City	2	8.2	1260	2011/5/24	7	RGP-CM,RGP-CA	3	regular service for more than 12 months	Furnace throat steel brick	cooling stave

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Hebei	Hebei iron and steel Limited by Share Ltd Tangshan branch	Tangshan City	3	12.6	3200	2011/6/16	6	RGP-CM	2.5	service for 3 months,spalling locally	Blast furnace top sealing cover	cooling stave
Hebei	Hebei iron and steel Limited by Share Ltd Tangshan branch	Tangshan City	3	12.6	3200	2011/6/24	35	RGP-CM	3	regular service for 18 months	Blast furnace hood	cooling stave
Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	1	5.6	450	2011/7/9	206	RGP-CM,RGP-CA	31	regular service for 18 months	All internal refractory	cooling stave and cooling stack
Zhejiang	Quzhou Yuanli metal products Co., Ltd.	Quzhou City	4	6.4	580	2011/7/12	88	RGP-CM,RGP-CA	8	regular service for 17 months	Bosh and furnace throat	cooling stave
Vietnam	Vietnam Hefa Steel Co., Ltd.	Hanoi City	1	5.2	350	2011/7/15	132	RGP-CM,RGP-CA	14	regular service for 22 months	Water tank bracket to furnace throat steel brick	cooling stave

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Zhejiang	Quzhou Yuanli metal products Co., Ltd.	Quzhou City	3	6.45	580	2011/7/24	93	RGP-CM,RGP-CA	9	regular service for 17 months	Bosh of more than ten to the furnace throat steel brick, blast furnace cap sealing parts	cooling stave
Shanxi	Longmen Shaanxi iron and Steel Co., Ltd.	Weinan City	1	5.6	450	2011/7/25	202	RGP-CM	17	regular service for 7 months,BF demolition because of small size	Fully lined	cooling stave
Hebei	Hebei iron and steel Limited by Share Ltd Tangshan branch	Tangshan City	1	12.6	3200	2011/8/18	6	RGP-CM,RGP-CA	2	regular service for 23 months	Blast furnace top sealing cover	cooling stave
Hebei	Shijiazhuang iron and Steel Co., Ltd.	Shijiazhuang City	0	5.6	450	2011/8/19	129	RGP-CM,RGP-CA	16	service for 10 months,furnace shutdown because of overhaul	Fully lined	cooling stave
Tianjin	Tianjin Rockcheck Steel Group Co. Ltd.	jinnan district	3	6.4	580	2011/9/20	150	RGP-CM,RGP-CA	19	regular service for more than 12 months	Tuyere to throat steel brick	cooling stave

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Shanxi	Shanxi Haixin iron and Steel Group Co., Ltd.	Yuncheng City	6	8.3	1380	2011/9/22	295	RGP-CM,RGP-CA	30	regular service for more than 12 months	All internal refractory	cooling stave
Heilongjiang	Xilin Iron and Steel Group A Cheng Steel Co., Ltd.	Yichun City	1	5.6	450	2011/10/15	150	RGP-CM,RGP-CA	17	regular service for 12 months	All internal refractory	cooling stave
Shanxi	Shanxi Haixin iron and Steel Group Co., Ltd.	Yuncheng City	5	8.15	1080	2011/10/20	270	RGP-CM,RGP-CA	35	regular service for more than 12 months	All internal refractory	cooling stave
Liaoning	Fushun New Steel Co., Ltd. (Jianlong group)	Fushun City	4	5.3	420	2011/10/23	200	RGP-CM,RGP-CA	22	regular service for more than 18 months	Tuyere to throat steel brick	cooling stave and cooling stack
Hebei	Hebei Longfeng Casting Co., Ltd.	Handan City	1	6.6	800	2011/10/24	150	RGP-CM,RGP-CA	20	regular service for more than 18 months	Above the air wall, 7, 8, 9 sections, and the throat, the lower part of the steel brick	cooling stave

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Shanxi	Shanxi Hejin Xinyuan iron and Steel Co., Ltd.	Yuncheng City	1	5.6	450	2011/10/28	131	RGP-CM,RGP-CA	48	regular service for 18 months	Fully lined	cooling stave
Shanxi	Shanxi Li Heng Iron & Steel Limited by Share Ltd	Linfen City	3	5.6	450	2011/10/28	175	RGP-CM,RGP-CA	48	regular service for 17 months	Fully lined	cooling stave
Hebei	Chengde Sheng Feng Steel Co., Ltd.	Chengde City	2	6.6	630	2011/11/2	180	RGP-CM,RGP-CA	24	regular service for more than 14 months	All internal refractory	cooling stave and cooling stack
Shanxi	Shanxi Li Heng Iron & Steel Limited by Share Ltd	Linfen City	4	5.6	450	2011/11/3	190	RGP-CM,RGP-CA	48	After regular service for 16 months, furnace shutdown because of medium maintenance	Fully lined	cooling stave
Liaoning	Fushun New Steel Co., Ltd.	Fushun City	3	5.6	450	2011/11/8	180	RGP-CM,RGP-CA	24	regular service for more than 18 months	Fully lined	cooling stave and cooling stack

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Shanxi	Shanxi Li Heng Iron & Steel Limited by Share Ltd	Linfen City	3	6.4	580	2011/11/12	182	RGP-CA	29	After regular service for 16 months, furnace shutdown because of medium maintenance	BF Bosh	cooling stave
Shanxi	Shanxi Hongda steel Refco Group Ltd	Yuncheng City	5	5.0	380	2011/11/27	140	RGP-CM,RGP-CA	26	regular service for more than 17 months	Fully lined	cooling stave
Tianjin	Tianjin Rockcheck Steel Group Limited by Share Ltd	jinnan district	new1	8.3	1380	2011/12/17	70	RGP-CM	9	regular service for more than 17 months of a new BF	Upper part of Stack	cooling stave
Zhejiang	Quzhou Yuanli metal products Co., Ltd.	Quzhou City	1	5.6	450	2011/12/22	65	RGP-CM	10.5	regular service for 18 months	Upper part of Stack	cooling stave
Shanxi	Jincheng Fu Sheng Steel Corp	Jincheng City	3	8.3	1380	2011/12/23	50	RGP-CM	10	regular service for more than 18 months	Upper part of Stack	cooling stack

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Zhejiang	Quzhou Yuanli metal products Co., Ltd.	Quzhou City	2	5.6	450	2011/12/25	65	RGP-CM	9.5	regular service for 18 months	Upper part of Stack	cooling stave
Jiangshu	Shagang Group Hongchang plate Limited	Suzhou City	1	11.5	2500	2011/12/25	136	RGP-CM	12	regular service for more than 17 months	Upper part of Stack	cooling stave
Shandong	Rizhao Iron & Steel Co Ltd	Rizhao City	7	7.0	700	2012/1/4	20	RGP-CM	5	regular service for 16 months	Upper part of Stack	cooling stave
Sichuan	Pangang Group Xichang New Steel Co. Ltd.	Panzhihua City	2	5.6	450	2012/1/7	40	RGP-CM	8	regular service for 12 months	Upper part of Stack	Cooling pipe
Shandong	Rizhao Iron & Steel Co Ltd	Rizhao City	13	6.65	850	2012/1/8	30	RGP-CM	6	regular service for more than 16 months	Upper part of Stack	cooling stave



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Shanxi	Shanxi Haixin iron and Steel Group Co., Ltd.	Yuncheng City	7	6.5	630	2012/1/11	180	RGP-CM	24	regular service for 16 months	Whole spraying below the furnace throat	cooling stave
Shandong	Rizhao Iron & Steel Co Ltd	Rizhao City	9	6.65	850	2012/1/13	33	RGP-CM,RGP-CA	4	regular service for more than 16 months	Upper part of furnace body	cooling stave
Shanxi	Longmen Shaanxi iron and Steel Co., Ltd.	Weinan City	new1	8.2	1280	2012/1/17	272	RGP-CM,RGP-CA	50	regular service for more than 15 months	Whole furnace body and Tuyere pipe	cooling stave
Tianjin	Tianjin Rockcheck Steel Group Limited by Share Ltd	jinnan district	2	6.4	580	2012/2/3	150	RGP-CM,RGP-CA	17	regular service for more than 15 months	Above tuyere	cooling stave
Tianjin	Tianjin Rockcheck Steel Group Limited by Share Ltd	jinnan district	new1	5.6	450	2012/3/11	120	RGP-CM,RGP-CA	16	regular service for more than 14 months	Fully lined	cooling stave and cooling stack

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Xinjiang	Sargent Xinjiang Iron & Steel Co. Ltd.	Mongolia Autonomous Prefecture of Bayinguoleng	2	5.6	480	2012/3/28	110	RGP-CM	17	regular service for more than 15 months	Furnace throat steel brick to tuyere and pipe	cooling stave and cooling stack
Henan	Anyang Huacheng Special Steel Co., Ltd.	Anyang City	1	8.2	1080	2012/3/31	60	RGP-CM	7.5	The furnace condition is not smooth and the material is not uniform. It is used for 2 months	Upper part of Stack	cooling stack
Jilin	Tonghua iron and steel Limited by Share Ltd	jinnan district	3	5.2	350	2012/4/9	120	RGP-CM,RGP-CA	17	regular service for 13 months	Fully lined	cooling stave
Hebei	Xingtai future Steel Corp	Xingtai City	1	5.25	350	2012/4/10	130	RGP-CM,RGP-CA	20	regular service for 13 months	Fully lined	cooling stave
Jilin	Tonghua iron and steel Limited by Share Ltd	Tonghua City	1	5.2	350	2012/4/22	120	RGP-CM,RGP-CA	16	regular service for 12 months	Fully lined	cooling stave

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Shanxi	Shanxi generalist industry and Trade Co., Ltd.	Linfen City	new1	-	1860	2012/5/7	70	RGP-CM,RGP-CA	30	regular service for 12 months	Fully lined	cooling stave
Shanxi	Shanxi generalist industry and Trade Co., Ltd.	Linfen City	new1	-	1860	2012/5/7	671	RGP-CM	30	regular service for 5 years	Riser, down pipe,hood	cooling stave
Sichuan	Dazhou iron and steel Refco Group Ltd	Dazhou City	3	5.6	450	2012/5/9	123	RGP-CM,RGP-CA	29	regular service for 8 months	Fully lined	cooling stave
Shanxi	Shanxi Licheng technology and Trade Group Co., Ltd.	Linfen City	1	-	180	2012/7/12	55	RGP-CM	8.5	regular service for more than 14 months	Upper part of Stack	cooling stave and cooling stack
Hebei	Chengde Sheng Feng Steel Co., Ltd.	Chengde City	2	6.5	630	2012/7/12	70	RGP-CM,RGP-CA	12	regular service for more than 8 months	12 meters from the steel throat of the furnace throat	cooling stack

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Tianjin	Tianjin city tianzhongjiangtian Heavy Industry Co., Ltd.	Beichen District	1	6.3	530	2012/7/22	88	RGP-CM,RGP-CA	16	regular service for more than 10 months	Upper part of furnace body	cooling stave
Liaoning	Direct reduction iron Co. Ltd. Fushun Hanwang	Fushun City	1	6.3	580	2012/8/10	230	RGP-CM,RGP-CA	36	regular service for 6 months	Fully lined	cooling stave and cooling stack
Shanxi	Xinzhou Huamao Precision Casting Co., Ltd.	xinzhou City	2	5.6	450	2012/8/12	137	RGP-CM,RGP-CA	17	regular service for 9 months	Above tuyere to below throat steel brick	cooling stave
Jiangsu	Shagang Group Huasheng ironmaking plant	Suzhou City	3	5.6	450	2012/8/16	100	RGP-CM,RGP-CA	15	regular service for 9 months	Upper half and bottom of blast furnace	cooling stave
Shaanxi	Lueyang Shaanxi iron and Steel Co., Ltd.	Hanzhoung City	1	5.6	450	2012/8/16	26	RGP-CM	5	service for 4 months,spalling locally	Upper part of Stack	cooling stave

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Tianjin	Tianjin Rockcheck Steel Group Co. Ltd.	jinnan district	4	8.2	1080	2012/8/17	210	RGP-CM,RGP-CA	26	regular service for more than 12 months	Fully lined	cooling stave
Sichuan	Iron smelting plant of Desheng group iron and Steel Co., Ltd.	Leshan City	1	-	150	2012/8/21	35	RGP-CM,RGP-CA	4.5	regular service for 8 months	Above the tuyere to the bottom of the steel throat of the furnace throat	cooling stave
Shanxi	Shanxi generalist industry and Trade Co., Ltd.	Linfen City	2	-	410	2012/9/2	140	RGP-CM,RGP-CA	17	regular service for 8 months	Fully lined	cooling stave
Tianjin	Tianjin steel tube Iron Co., Ltd.	dongli district	1	8.2	1080	2012/9/9	180	RGP-CM,RGP-CA	18	regular service for 24 months	Fully lined	cooling stave
Hebei	Tangshan Jianlong iron and Steel Co., Ltd.	Tangshan City	1	5.6	450	2012/9/12	133	RGP-CM,RGP-CA	17	regular service for 8 months	Fully lined	cooling stave

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Jiangsu	Shagang Group Hongfa ironmaking plant	Suzhou City	2	12.0	2500	2012/10/1	120	RGP-CM	6天	regular service for 7 months	Upper part of Stack	cooling stave
Heilongjiang	Heilongjiang Jianlong iron and Steel Co., Ltd.	Shuangyashan City	1	5.6	450	2012/10/10	35	RGP-CM	5	regular service for more than 7 months	Upper part of Stack	cooling stack
			2	5.6	450	2012/10/12	35	RGP-CM	5	regular service for more than 7 months	Upper part of Stack	cooling stack
Jiangsu	Shagang Group Hongfa ironmaking plant	Suzhou City	2	12.0	2500	2012/10/24	141	RGP-CM	16	regular service for 7 months	Fifth to ninth sections of cooling stave	cooling stave
Jiangxi	Xinyu iron and steel Limited by Share Ltd	Xinyu City	7	8.2	1080	2012/11/25	200	RGP-CM,RGP-CA	19	regular service for 24 months	Above blast furnace tuyere	cooling stave

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Xinjiang	Xinjiang Sargent Steel Corp	Mongolia Autonomous Prefecture of Bayinguoleng	1	6.35	588	2012/12/9	295	RGP-CM,RGP-CA	38	regular service for more than 12 months	Fully lined, riser, down pipe,hood	cooling stave and cooling stack
Shanxi	Shanxi Hongda steel Refco Group Ltd	Yuncheng City	6	5.6	450	2012/12/18	168	RGP-CM,RGP-CA	40	regular service for 12 months	Fully lined, riser, down pipe,hood	cooling stave
Tianjin	Tianjin city tianzhongjiangtian Heavy Industry Co., Ltd.	Beichen District	1	6.3	530	2013/1/2	18	RGP-CM,RGP-CA	4	regular service for more than 12 months	No cooling zone and fifth cooling stave	cooling stave
Hunan	Xiangtan Hunan iron and Steel Co., Ltd.	Xiangtan City	4	-	1800	2013/1/15	385	RGP-CM,RGP-CA	30.5	regular service for 12 months	Fully lined	cooling stave
Jilin	Tonghua iron and steel Limited by Share Ltd	Tonghua City	2	-	350	2013/1/20	130	RGP-CM,RGP-CA	12	regular service for 5 months	Fully lined	cooling stave and anchoring parts

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<b>Province</b>	<b>Name of I&amp;S Company</b>	<b>City</b>	<b>BF No</b>	<b>Earth diameter (m)</b>	<b>Total volume (m<sup>3</sup>)</b>	<b>Year of repair</b>	<b>Tonnage shotcrete</b>	<b>Name of product</b>	<b>Duration shutdown (h)</b>	<b>Service life</b>	<b>Shotcrete Part of Furnace</b>	<b>Cooling structure</b>
Ganshu	Jinchang iron industry (Group) Co., Ltd.	Jinchang	2	5.6	450	2013/2/2	245	RGP-CM,RGP-CA	24	service for 3 months,spalling locally	Fully lined	cooling stave
Shandong	Shandong iron and steel Limited by Share Ltd Ji'nan branch	Jinan City	3	-	1750	2013/2/2	180	RGP-CM,RGP-CA	32	regular service for more than 12 months	Fully lined	cooling stave
Shanxi	Shanxi Haixin iron and Steel Group Co., Ltd.	Yuncheng City	6	9.0	1380	2013/2/5	320	RGP-CM,RGP-CA	20	regular service for more than 18 months	Fully lined	cooling stave
Shanxi	Shanxi Jian Bang Group Casting Co., Ltd.	Linfen City	2	-	410	2013/2/27	170	RGP-CM,RGP-CA	17	regular service for 18 months	Fully lined	cooling stave
Hebei	Hebei Longfeng Casting Co., Ltd.	Handan City	2	6.4	600	2013/3/1	249	RGP-CM	100	regular service for 4 and a half years	Blast furnace pipe system	Pipe system



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Hebei	Cangzhou China railway equipment manufacturing materials Co., Ltd.	Cangzhou City	1	12	2500	2013/3/5	162	RGP-CM	15	regular service for 12 months	Upper part of Stack	cooling stave
Shanxi	Shanxi Haixin iron and Steel Group Co., Ltd.	Yuncheng City	5	8.2	1080	2013/3/13	281	RGP-CM,RGP-CA	16	regular service for more than 18 months	Fully lined	cooling stave
Shanxi	Shanxi Xinyuan iron and Steel Co., Ltd.	Yuncheng City	1	5.6	480	2013/3/27	235	RGP-CM,RGP-CA	35	regular service for more than 18 months	Fully lined	cooling stave and cooling stack
Shanxi	Shanxi Xinyuan iron and Steel Co., Ltd.	Yuncheng City	1	5.6	480	2013/3/27	50	RGP-CM	35	regular service for 24 months	Blast furnace pipe system	cooling stave and cooling stack
Jiangxi	Pingxiang Anyuan Steel Co. Ltd.	Pingxiang City	2	5.6	450	2013/4/12	155	RGP-CM,RGP-CA	12	regular service for 24 months	Fully lined	cooling stave

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Hebei	Hebei Longfeng Casting Co., Ltd.	Handan City	1	6.4	600	2013/4/16	74	RGP-CM	48	regular service for 6 months	Blast furnace pipe system	Pipe system
Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	5	5.6	450	2013/5/3	201	RGP-CM,RGP-CA	18	regular service for 40 months	Blast furnace taphole、 All internal refractory	cooling stave and cooling stack
Hebei	Chengde Sheng Feng Steel Co., Ltd.	Chengde City	2	6.3	630	2013/5/7	70	RGP-CM	7	regular service for more than 12 months	Upper part of Stack	cooling stack
Shandong	Rizhao Iron & Steel Co Ltd	Rizhao City	9	6.6	850	2013/5/7	220	RGP-CM,RGP-CA	38	regular service for more than 18 months	Fully lined	cooling stave
Xinjiang	Shougang Yili iron and Steel Co., Ltd.	Kazakh Autonomous Prefecture of Yili	2	-	380	2013/5/12	140	RGP-CM,RGP-CA	16	regular service for more than 12 months	Fully lined	cooling stave

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Jilin	Tonghua iron and steel Limited by Share Ltd	Tonghua City	6	-	1010	2013/5/19	240	RGP-CM,RGP-CA	10 days	regular service for more than 12 months	fully lined, riser, down pipe,hood	cooling stave
Heilongjiang	Xilin Steel Group	Yichun City	5	8.5	1260	2013/5/20	80	RGP-CM,RGP-CA	12	regular service for 8 months	Fully lined	cooling stave
Heilongjiang	Xilin Steel Group	Yichun City	6	8.5	1260	2013/5/23	60	RGP-CM,RGP-CA	12	regular service for 6 months	Fully lined	cooling stave
Shandong	Rizhao Iron & Steel Co Ltd	Rizhao City	8	-	700	2013/5/29	185	RGP-CM,RGP-CA	19	regular service for 18 months	Fully lined	cooling stave
Henan	Wugang double macro Steel Co., Ltd.	Pingdingshan City	1	-	320	2013/6/1	150	RGP-CM,RGP-CA	18	regular service for more than 12 months	Fully lined	cooling stave and cooling stack

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Xinjiang	Xinjiang Xinxing Ductile Iron Pipes Co. Ltd.	Mongolia Autonomous Prefecture of Bayinguoleng	1	8.1	1080	2013/6/4	300	RGP-CM,RGP-CA	27	regular service for more than 12 months	Fully lined	cooling stave and cooling stack
Hebei	Hebei iron and Steel Group Yanshan iron and Steel Co., Ltd.	Qian'an	6	5.6	450	2013/6/16	180	RGP-CM,RGP-CA	30	regular service up to now	Fully lined	cooling stave and cooling stack
Shanxi	Shanxi xinlingang Steel Co. Ltd.	Linfen City	1	-	311	2013/6/27	91	RGP-CM,RGP-CA	21	After regular service for 3 moths,BF demolition because of shrinkage	Fully lined	cooling stave
Jinloin	Tonghua iron and steel Limited by Share Ltd	Tonghua City	5	-	350	2013/7/1	128	RGP-CM	9	regular service for 18 months	Fully lined	cooling stave
Hebei	Qinhuangdao an Feng Steel Co., Ltd.	Qinghuangdao	3	5.6	450	2013/7/19	101	RGP-CM	15	regular service for more than 12 months	Upper part of Stack	cooling stave and cooling stack

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Shaanxi	Longmen Shaanxi iron and Steel Co., Ltd.	Weinan City	2	8.6	1280	2013/7/25	298	RGP-CM,RGP-CA	49	regular service for more than 12 months	fully lined, hood	cooling stave
Hebei	Hebei Ruifeng iron and steel (Group), Steel Corp.	Tangshan City	3	5.6	450	2013/8/23	39	RGP-CM,RGP-CA	4.5	regular service for 3 months,then repair	Upper part of Stack	cooling stave
Jiangsu	Liyang Jianxin Iron & Iron Co., Ltd.	Changzhou City	2	-	420	2013/8/25	85	RGP-CM,RGP-CA	7.5	regular service for more than 12 months	Fully lined	cooling stave
Sichuan	Pangang Group Chengdu steel vanadium Co., Ltd.	Chengdu City	1	10.0	1750	2013/9/16	40	RGP-CM,RGP-CA	8	regular service for more than 18 months	Shaft furnace hearth	
Jilin	Tonghua Iron & Steel Limited by Share Ltd.,	Tonghua	1	12.0	2680	2013/9/20	940	RGP-CM,RGP-CA	30D	regular service for 3 years	Blast furnace pipe system	

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Shanxi	Xinzhou Huamao Precision Casting Co., Ltd.	Xinzhou City	2	5.6	450	2013/9/29	215	RGP-CM,RGP-CA	25	regular service for 10 months	Fully lined	cooling stave and cooling stack
Shanghai	Shanghai Haibo Xinhui International Trading Co., Ltd.	Shanghai	new2	6.8	750	2013/10/6	225.44	RGP-CM,RGP-CA	16	regular service for more than 18 months	Fully lined	cooling stave
Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	1	5.6	450	2013/10/7	50	RGP-CM	4.5	regular service for 12 months	Cold free zone	
Guangxi	Liuzhou Iron & Steel Limited by Share Ltd.	Liuzhou	9	9.55	1500	2013/10/11	231	RGP-CM,RGP-CA	24	regular service for more than 18 months	Fully lined	cooling stave
Liaoning	Wukuang Yingkou Medium Plate Co Ltd.	Yingkou	2	11.6	2300	2013/10/23	283	RGP-CM,RGP-CA	20	regular service for more than 12 months	Fully lined, riser	cooling stave

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Hebei	Hebei Ruifeng iron and steel (Group), Steel Corp.	Tangshan City	1	5.6	450	2013/11/28	15	RGP-CM	3	regular service for more than 12 months	Upper part of Stack	cooling stave
Shaanxi	Shaanxi Longmen iron and Steel Co., Ltd.	Weinan City	new2	10.5	1800	2013/12/8	200	RGP-CM	14	regular service for more than 12 months	Upper part of Belly	cooling stave
Jilin	Siping Xiandai iron and Steel Co., Ltd.	Siping City	1	5.6	450	2013/12/27	277	RGP-CM,RGP-CA	65	regular service for 12 months	Fully lined	cooling stave
Hebei	Cangzhou iron equipment manufacturing materials Co., Ltd.	Cangzhou City	4	12.0	2500	2014/1/1	142	RGP-CM	14	regular service for 12 months	Upper part of Stack	cooling stave
Hebei	Chengde Sheng Feng Steel Co., Ltd.	Chengde City	1	-	630	2014/1/4	70	RGP-CM	8	regular service for more than 18 months	Upper part of Stack	cooling stave

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Hebei	Shijiazhuang iron and Steel Co., Ltd.	Shijiazhuang	3	8.1	1080	2014/1/11	111	RGP-CM	16	regular service for 12 months	Upper part of Stack	cooling stave
Hebei	Tangshan Stainless Steel Co., Ltd.	Tangshan City	2	5.6	450	2014/1/25	60	RGP-CM	5	service for 7 months, furnace shutdown because of overhaul	Upper part of Stack	cooling stave and cooling stack
Hebei	Chengde Kuancheng Shengfeng Steel Co., Ltd.	Chengde City	2	-	630	2014/2/11	41	RGP-CM	8	regular service for more than 12 months	Upper part of Stack	cooling stave
Shanxi	Shanxi Jian Bang Group Casting Co., Ltd.	Yuncheng City	4	-	410	2014/2/16	70	RGP-CM		regular service for 12 months	Hot blast dome	dome
Jilin	Siping Xiandai iron and Steel Co., Ltd.	Siping City	1	5.6	450	2014/2/18	210	RGP-CM,RGP-CA	26	regular service for 12 months, then repair	Fully lined	cooling stave



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Shanxi	Shanxi Jianbang Group Casting Co., Ltd.	Yuncheng City	2	-	150	2014/2/25	42	RGP-CM,RGP-CA	8	regular service for 18 months	Fully lined	cooling stave
Shandong	Mengyin Zhongshan Mining Co., Ltd.	Linyi City	2	6.0	500	2014/3/1	124	RGP-CL(Dedicated to Lime kiln )	27	regular service for more than 2 years,then repair	Fully lined	Lime kiln
Shaanxi	Shanxi Steel & Iron Co., Ltd.	Hanzhoung	1	5.6	450	2014/3/5	186	RGP-CM,RGP-CA	50	regular service for 10 months	Tuyere and hearth	cooling stave and cooling stack
Shandong	Mengyin Zhongshan Mining Co., Ltd.	Linyi City	7	6.0	500	2014/3/6	138	RGP-CL(Dedicated to Lime kiln )	34	regular service for more than 2 years,then repair	Fully lined	Lime kiln
Shanxi	Shougang Changzhi iron and Steel Co., Ltd.	Changzhi City	3	5.6	450	2014/3/8	102	RGP-CM,RGP-CA	27	Reduced capacity,BF demolition	Fully lined	cooling stave

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Shandong	Mengyin Zhongshan Mining Co., Ltd.	Linyi City	6	6.0	500	2014/3/9	75	RGP-CL(Dedicated to Lime kiln )	5 days	regular service for more than 2 years,then repair	Fully lined	Lime kiln
Hebei	Qinhuangdao Anfeng Steel Co., Ltd.	Qinhuangdao City	6	5.8	480	2014/3/11	73	RGP-CM,RGP-CA	10	regular service for more than 10 months	Fully lined	cooling stave and cooling stack
Guangxi	Liuzhou Iron & Steel Limited by Share Ltd.	Liuzhou	4	11.0	2000	2014/3/19	485	RGP-CM,RGP-CA	56	regular service for more than 12 months	Fully lined, hood	cooling stave and cooling stack
Shandong	Mengyin Zhongshan Mining Co., Ltd.	Linyi City	1	6.0	500	2014/3/19	97	RGP-CM,RGP-CRGP-CL(Dedicated to Lime kiln )	23	regular service for more than 2 years,then repair	Fully lined	Lime kiln
Shanxi	Shanxi Antai group Co., Ltd.	Jinzhong	4	5.6	450	2014/3/21	137	RGP-CM,RGP-CA	15	regular service for more than 12 months	Fully lined	cooling stave

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Gansu	Jinchang iron industry (Group) Co., Ltd.	Jinchang City	5	5.6	450	2014/3/22	140	RGP-CM,RGP-CA	6days	regular service for 12 months	Sintered flue pipe system	Sintered flue
Shanxi	Jincheng, Fusheng Steel Co., Ltd.	Jincheng	2	9.0	1380	2014/3/27	170	RGP-CM,RGP-CA	24	regular service for more than 12 months	Fully lined,pipe system	cooling stave and cooling stack
Shandong	Mengyin Zhongshan Mining Co., Ltd.	Linyi City	3	5.8	500	2014/3/27	128	RGP-CM,RGP-CRGP-CL(Dedicated to Lime kiln )	6days	regular service for more than 2 years,then repair	Fully lined	Lime kiln
Shanxi	Shanxi, Wenshui, Haiwei iron and Steel Co., Ltd.,	Lvliang City	3	9.0	1380	2014/4/4	80	RGP-CM,RGP-CA	8	regular service for more than 12 months	Stack and Belly	cooling stave and cooling stack
Shandong	Mengyin Zhongshan Mining Co., Ltd.	Linyi City	8	6.0	500	2014/4/5	139	RGP-CM,RGP-CRGP-CL(Dedicated to Lime kiln )	28	regular service for more than 2 years,then repair	Fully lined	Lime kiln

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Shandong	Mengyin Zhongshan Mining Co., Ltd.	Linyi City	9	6.0	500	2014/4/9	62	RGP-CM,RGP-CRGP-CL(Dedicated to Lime kiln )	14	regular service for more than 2 years,then repair	Fully lined	Lime kiln
Jiangsu	Lianyungang Xin Xing company	Lianyungang City	4	6.1	500	2014/4/10	285	RGP-CM,RGP-CA	48	regular service for more than 12 months	Fully lined	cooling stave and cooling stack
Shandong	Mengyin Zhongshan Mining Co., Ltd.	Linyi City	3	6.0	500	2014/4/17	230	RGP-CM,RGP-CRGP-CL(Dedicated to Lime kiln )	7 days	regular service for more than 2 years,then repair	Fully lined	Lime kiln
Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	1	5.6	450	2014/4/27	340	RGP-CM,RGP-CA	36	regular service for more than 16 months	Fully lined	cooling stave and cooling stack
Shandong	Mengyin Zhongshan Mining Co., Ltd.	Linyi City	2	6.0	500	2014/4/29	143	RGP-CM,RGP-CRGP-CL(Dedicated to Lime kiln )	36	regular service for more than 2 years,then repair	Fully lined	Lime kiln

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Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	1	5.6	450	2014/5/21	8	RGP-CM,RGP-CA	2	regular service for 11 months	Cold free zone	cooling stave and cooling stack
Hebei	Hebei Xingtai iron and Steel Co., Ltd.	Xingtai City	1	-	420	2014/5/23	120	RGP-CM,RGP-CA	16	regular service for 12 months	Fully lined	cooling stave
Sichuan	Sichuan Weiyuan pan-way Trading Co. Ltd.	Neijiang City	3	10.0	1750	2014/6/4	100	RGP-CM,RGP-CA	12	regular service for more than 12 months	Stack	cooling stave
Hebei	Qinhuangdao Anfeng Steel Co., Ltd.	Qinhuangdao City	3	5.6	450	2014/6/15	35	RGP-CM	8	regular service for more than 12 months	Upper part of Stack	cooling stave and cooling stack
Xinjiang	Xinjiang Bayi Steel Co. Ltd.	Urumchi City	7	5.6	450	2014/6/15	182	RGP-CM,RGP-CA	20	regular service for more than 6 months	Fully lined	cooling stave and cooling stack

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Xinjiang	Xinjiang Xinxing Ductile Iron Pipes Company	Urumchi City	2	8.4	1260	2014/6/25	216	RGP-CM,RGP-CA	27	regular service for more than 12 months	Fully lined	cooling stave and cooling stack
Jiangsu	Yancheng Lianxin Steel Co., Ltd.	Yancheng City	A	7.0	660	2014/7/23	120	RGP-CM	8	regular service for more than 18 months	Furnace throat	cooling stave and cooling stack
Hebei	Tangshan Stainless Steel Co., Ltd.	Tangshan City	1	5.6	450	2014/8/5	200	RGP-CM	15天	regular service for 24months	Riser, down pipe	cooling stave and cooling stack
Hebei	Hebei Longfengshan Casting Co., Ltd.	Handan City	1	6.6	600	2014/8/12	215	RGP-CM,RGP-CA	24	The material appeared to bake and burst,but still regular service for 24months	Fully lined	cooling stave and cooling stack
Shanxi	Shanxi Changping Iron & Steel Co., Ltd.	Changzhi	2	5.6	450	2014/8/19	130	RGP-CM,RGP-CA	21	regular service for more than 12 months	Fully lined	cooling stave and cooling stack

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Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	1	6.6	600	2014/8/22	200	RGP-CM,RGP-CA	40	regular service for 18 months	Fully lined	cooling stave and cooling stack
Guangxi	Liuzhou Iron & Steel Limited by Share Ltd.	Liuzhou	2	9.0	1500	2014/9/22	55	RGP-CM,RGP-SA(Lower material for sol combines,non cement)	14	regular service for more than 12 months	Fully lined	cooling stave and cooling stack
Shandong	Shandong Jigang Nodular Iron Co., Ltd.	Ji'nan City	1	-	350	2014/10/18	150	RGP-CM,RGP-SA	20	regular service for 10 months	Fully lined	cooling stave
Shanxi	Shanxi Jian Bang Group Casting Co., Ltd.	Linfen City	6	-	380	2014/10/27	60	RGP-CM,RGP-SA	9	regular service for 12 months	Upper part of Stack	cooling stave
Shaanxi	Shaanxi Lueyang iron and Steel Co., Ltd.	Hanzhoung City	1	5.6	450	2014/10/30	130	RGP-CM,RGP-SA	25	regular service for 14 months,BF shutdown	Fully lined	cooling stave and cooling stack

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Shanxi	Xinzhou Huamao Precision Casting Co., Ltd.	Xinzhou City	2	5.6	450	2014/11/1	81	RGP-CM,RGP-SA	14	regular service for 15 months	Fully lined	cooling stave
Hebei	Shougang Qian'an iron and Steel Co., Ltd.	Qian'an City	1	12.0	2650	2014/11/4	50	RGP-CM	9	regular service for 24 months	Tuyere	cooling stave
Hebei	Xingtai iron and Steel Co., Ltd.	Xingtai City	1	5.6	450	2014/11/7	60	RGP-CM,RGP-SA	8	regular service for 24 months	Belly and bosh	cooling stave
Hebei	Hebei Ruifeng iron and steel (Group), Steel Corp.	Tangshan City	1	5.6	450	2014/11/10	21	RGP-CM	3	regular service for 6 months,then repair	Upper part of Stack	cooling stave and cooling stack
Hebei	Hebei Xingtai iron and Steel Co., Ltd.	Xingtai City	5	-	420	2014/11/16	40	RGP-CM,RGP-SA	14	regular service for 18 months	Fully lined	cooling stave



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Guangxi	Liuzhou Iron & Steel Limited by Share Co., Ltd.	Liuzhou	1	9.0	1500	2014/11/18	65	RGP-CM,RGP-SA	12	regular service for more than 12 months	Fully lined	cooling stave
Yunnan	Yuxi emerging Steel Co., Ltd.	Yuxi City	1	5.6	450	2014/11/19	109	RGP-CM,RGP-SA	12	regular service for 7 months,BF shutdown	Fully lined	cooling stave
Xinjiang	Shougang Yili iron and Steel Co., Ltd.	Yili	5	-	400	2014/11/24	160	RGP-CM,RGP-SA	20	regular service for more than 6 months	Fully lined	cooling stave
Jiangsu	Jiangyin Xingcheng Special Steel Co. Ltd.	Wuxi City	2	12.6	3200	2014/12/19	43	RGP-CM,RGP-SA	/	regular service for 12 months	Hood	cooling stave
Jiangxi	Xinyu iron and Steel Group Co., Ltd.	Xinyu City	2	8.2	1080	2015/1/15	200	RGP-CM,RGP-SA	32	regular service for 18 months	Fully lined	cooling stave

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Henan	Nanyang Hanye Special Steel Co. Ltd	Nanyang City	1	-	380	2015/1/31	110	RGP-CM,RGP-SA	16	regular service for 12 months	Fully lined	cooling stave and cooling stack
Jiangsu	Yancheng Lianxin Co. Ltd.	Yancheng City	7	6.4	630	2015/2/3	195	RGP-CM,RGP-SA	30	regular service for 22 months	Fully lined	cooling stave and cooling stack
Jiangsu	Danyang Longjiang iron and Steel Co., Ltd.	Zhenjiang City	1	5.6	450	2015/2/24	28	RGP-CM,RGP-SA	5	regular service for 6 months	Bosh	cooling stave
Guangxi	Guangxi Guigang iron and Steel Co., Ltd.	Guigang City	1	8.3	1080	2015/3/4	75	RGP-CM,RGP-SA	14	regular service for 12 months	Fully lined	cooling stave
Hebei	Hebei Anfeng Steel Co., Ltd.	Tangshan City	1	5.65	480	2015/3/19	160	RGP-CM,RGP-SA	22	regular service for more than 12 months	Fully lined	cooling stave and cooling stack

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Liaoning	Lingyuan iron and steel Limited by Share Ltd.	Lingyuan City	2	5.6	450	2015/3/21	145	RGP-CM,RGP-SA	16	regular service for more than 12 months	Fully lined	cooling stave and cooling stack
Jilin	Siping Xiandai iron and Steel Co., Ltd.	Siping City	4	5.6	450	2015/3/24	220	RGP-CM,RGP-SA	45	regular service for 3 months,BF shutdown	Fully lined	cooling stave and cooling stack
Hebei	Hebei Anfeng Steel Co., Ltd.	Tangshan City	1	5.6	450	2015/3/27	49	RGP-CM	8	regular service for more than 12 months	Upper part of Stack	cooling stave and cooling stack
Shanxi	Shanxi Zhongsheng Steel Co. Ltd.	Linfen City	2	8.55	1300	2015/3/30	290	RGP-CM,RGP-SA	24	regular service for more than 12 months	Fully lined	cooling stave
Guangxi	Guangxi Guigang iron and Steel Co., Ltd.	Guigang City	1	10.8	2000	2015/3/31	485	RGP-CM,RGP-SA	69	regular service for more than 12 months	Fully lined	cooling stave

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Fujian	Fujian Sanbao iron and Steel Co., Ltd.	Zhangzhou City	1	5.6	450	2015/3/31	110	RGP-CM,RGP-SA	10	regular service for more than 24 months	Fully lined	cooling stave
Shanxi	Shanxi Gao Yi Steel Co., Ltd.	Yuncheng City	3	6.0	580	2015/4/14	50	RGP-SM(upper materials for sol combines ,for hot shotcrete)	8	regular service for more than 12 months	Cold free zone	cooling stave
Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	1	5.6	450	2015/4/15	24	RGP-CM	3	regular service for 16 months	Cold free zone	cooling stave and cooling stack
Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	1	5.6	450	2015/4/17	30	RGP-CM	4	regular service for 18 months	Cold free zone	cooling stave and cooling stack
Guangxi	Guangxi Guigang iron and Steel Co., Ltd.	Guigang City	4	9.4	1500	2015/4/19	485	RGP-CM,RGP-SA	48	regular service for more than 12 months	Fully lined	cooling stave

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Xinjiang	Xinjiang Aletai gold Haotie Industry Co. Ltd.	Aletai City	2	-	530	2015/5/3	100	RGP-CM,RGP-SA	12	regular service for 3 months	Fully lined	cooling stave
Tianjin	Tianjin steel tube Iron Co., Ltd.	Tianjin City	4	8.2	1080	2015/5/5	105	RGP-CM	12	service for 6 months,spalling locally	Upper part of Stack	cooling stave and cooling stack
Xinjiang	Xinjiang Aletai gold Haotie Industry Co. Ltd.	Aletai City	2	-	530	2015/5/8	100	RGP-CM,RGP-SA	12	service for 4 months,spalling locally	Fully lined	cooling stave and cooling stack
Xinjiang	Xinjiang Yili iron and Steel Co., Ltd.	Yili City	1	-	530	2015/5/8	125	RGP-CM,RGP-SA	15	service for 3 months,spalling locally	Fully lined	cooling stave
Hebei	Hebei Ruifeng iron and steel (Group), Steel Corp.	Tangshan City	1	5.6	450	2015/5/25	15	RGP-CM,RGP-SA	3	regular service for 12 months,BF shutdown	Cold free zone	cooling stave and cooling stack

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Xinjiang	Xinjiang Yili iron and Steel Co., Ltd.	Yili City	1	-	530	2015/5/30	210	RGP-CM,RGP-SA	30	regular service for 6 months	Fully lined	cooling stave
Hebei	Shijiazhuang iron and Steel Co., Ltd.	Shijiazhuang	1	8.2	1080	2015/6/3	206	RGP-CM	30	regular service for 12 months	Upper part of Stack	cooling stave
Guangxi	Guangxi Guigang iron and Steel Co., Ltd.	Guigang City	2	9.5	1500	2015/6/9	312	RGP-CM,RGP-SA	40	regular service for more than 12 months	Fully lined	cooling stave
Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	2	5.6	450	2015/6/29	15	RGP-CM	3	regular service for 10 months	Upper part of Stack	cooling stave
Guangxi	Guangxi Guigang iron and Steel Co., Ltd.	Guigang City	5	9.5	1500	2015/7/12	165	RGP-CM,RGP-SA	20	regular service for more than 12 months	Fully lined	cooling stave

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Jiangsu	Changshu Longteng Special Steel Co., Ltd.	Changshou City	3	9.0	1250	2015/7/25	240	RGP-CM,RGP-SA	24	regular service for more than 15 months	Fully lined	cooling stave
Hebei	Hebei Anfeng Steel Co., Ltd.	Tangshan City	1A	5.6	450	2015/8/9	80	RGP-CM,RGP-SA	15	regular service for more than 12 months	Cold free zone	cooling stave
Shandong	Shandong Jigang Nodular Iron Co., Ltd.	Ji'nan City	1	-	420	2015/8/14	120	RGP-CM,RGP-SA	16	regular service for 12 months	Fully lined	cooling stave
Shanxi	Xinzhou Huamao Precision Casting Co., Ltd.	Xinzhou City	2	5.6	450	2015/8/16	200	RGP-CM,RGP-SA	36	regular service for 18 months	Fully lined	cooling stave and cooling stack
Xichang	Xichang Sichuan Panzhihua Steel Co., Ltd.	Xichang City	2	9.3	1350	2015/8/17	187	RGP-CM,RGP-SA	22	regular service for more than 18 months	Fully lined	cooling stave

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Hebei	Xingtai iron and Steel Co., Ltd.	Xingtai City	2	-	420	2015/8/28	60	RGP-CM,RGP-SA	6	always in use	Fully lined	cooling stave and cooling stack
Hebei	Xingtai iron and Steel Co., Ltd.	Xingtai City	2	-	420	2015/8/28	100	RGP-CM,RGP-SA	8	regular service for 6 months	Fully lined	cooling stave and cooling stack
Hebei	Chengde Hebei Sheng Feng Steel Co., Ltd.	Chengde City	3	6.3	630	2015/9/4	150	RGP-CM,RGP-SA	24	regular service for more than 10 months	Fully lined	cooling stave and cooling stack
Shanxi	Shanxi generalist industry and Trade Co., Ltd.	Linfen City	1	-	410	2015/10/1	100	RGP-CM,RGP-SA	12	regular service for more than 2 years,then repair	Fully lined	cooling stave and cooling stack
Xinjiang	Xinjiang Yili iron and Steel Co., Ltd.	Yili City	2	-	380	2015/10/9	37	RGP-CM	4	regular service for 12 months	Upper part of Stack	cooling stave



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Hunan	Hunan Lianyuan iron and Steel Co., Ltd.	Loudi City	2	12.6	3200	2015/10/18	30	RGP-CM,RGP-SA	24	regular service for 18 months	Fully lined	cooling stave
Hebei	Tangshan Wenfeng iron and Steel Co. Ltd.	Tangshan City	1	8.2	1080	2015/10/31	200	RGP-CM,RGP-SA	14	regular service for 6 months,normal production	Fully lined	cooling stave
Fujian	Fujian Ding Nickel Industry Co. Ltd.	Ningde City	7	-	230	2015/11/4	130	RGP-CM,RGP-SA	30	regular service for more than 18 months	Fully lined	cooling stave and cooling stack
Xinjiang	Xinjiang Yili iron and Steel Co., Ltd.	Yili City	1	-	380	2015/11/22	200	RGP-CM,RGP-SA	36	regular service for 12 months	Fully lined	cooling stave and cooling stack
Hebei	Hebei Wuan Yuhua Co., Ltd.	Handan City	1	8.2	1080	2015/12/3	21	RGP-CM	10	Spalling locally after blow-in	Cold free zone	cooling stave and cooling stack

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Hebei	Hebei Wuan Yuhua Co., Ltd.	Handan City	2	8.2	1080	2015/12/3	310	RGP-CM,RGP-SA	40	regular service for 6 months,spalling locally	Fully lined	cooling stave and cooling stack
Liaoning	Fushun New Steel Co., Ltd.	Fushun City	1	5.6	450	2015/12/21	180	RGP-CM,RGP-SA	18	regular service for 18 months	Fully lined	cooling stave
Guizhou	Shougang Shuicheng Iron and steel (Group) Co., Ltd.	Liupanshui City	5	9.0	1350	2016/1/10	183	RGP-CM,RGP-SA	14	regular service for 14 months	Fully lined	cooling stave
Sichuan	Sichuan Xichang Panzhihua Iron and Steel Co., Ltd.	Xichang City	4	10.0	1750	2016/1/12	195	RGP-CM,RGP-SA	16	regular service for 18 months	Fully lined	cooling stave
Jiangsu	Jiangsu Huaian iron and Steel Co., Ltd.	Huaian City	3	-	580	2016/2/2	40	RGP-CM	6	regular service for 12 months,then repair	Fully lined	cooling stave

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Jiangsu	Lianyungang Huale Alloy Co., Ltd.	Lianyungang City	1	5.6	450	2016/2/14	150	RGP-CM,RGP-SA	16	regular service for 9 months,BF overhaul	Fully lined	cooling stave
Hebei	Hebei Tang silver steel Co., Ltd.	Tangshan City	6	8.2	1080	2016/2/19	210	RGP-CM,RGP-SA	24	regular service for 8 months,BF overhaul	Fully lined	cooling stave
Liaoning	Lingyuan iron and Steel Group Co., Ltd.	Lingyuan City	1	-	530	2016/2/20	140	RGP-CM,RGP-SA	28	regular service for 10 months,BF overhaul	Fully lined	cooling stave and cooling stack
Hebei	Xingtai iron and Steel Co., Ltd.	Xingtai City	3	5.6	450	2016/2/21	100	RGP-CM,RGP-SA	15	regular service for 15 months,BF overhaul	Fully lined	cooling stave
Xinjiang	Xinjiang Xinxing Ductile Iron Pipes Company	Urumchi City	1	-	1260	2016/2/29	100	RGP-CM,RGP-SA	18	regular service for more than 12 months	Fully lined	cooling stave

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Hebei	Qinhuangdao Baigong Steel Co., Ltd.	Qinhuangdao City	5	6.25	600	2016/2/29	200	RGP-CM,RGP-SA	30	regular service for 6 months,palling locally	Fully lined	cooling stave
Hebei	Langfang Guangyuan metal products Co. Ltd.	Langfang City	1	6.2	630	2016/3/1	245	RGP-CM,RGP-SA	60	regular service for 15 months	Fully lined	cooling stave and cooling stack
Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	1	5.6	450	2016/3/12	15	RGP-SM	15	regular service for 7 months	Cold free zone	cooling stave
Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	2	5.8	500	2016/3/14	128	RGP-CM,RGP-SA	13	regular service for 3 months,spalling locally	Fully lined	cooling stave
Guangxi	Guangxi Guigang iron and Steel Group Limited by Share Ltd	Guigang City	3	8.2	1080	2016/3/15	95	RGP-CM,RGP-SA	13	regular service for 14 months	Fully lined	cooling stave

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Shanxi	Shanxi Gao Yi Steel Co., Ltd.	Yuncheng City	1	-	630	2016/3/18	100	RGP-SM	11	regular service for 9 months	Cold free zone	cooling stave
Shanxi	Shanxi Jianlong iron and Steel Co., Ltd.	Linfen City	2	-	630	2016/3/23	168	RGP-CM,RGP-SA	30	regular service for 15 months	Fully lined	cooling stave
Hebei	Chengde Sheng Feng Steel Co., Ltd.	Chengde City	1	-	630	2016/3/28	70	RGP-CM	20	regular service for 8 months	Upper part of Stack	cooling stave
Hebei	Hebei Jinding iron and Steel Co., Ltd.	Handan City	9	8.35	1080	2016/4/5	257	RGP-CM,RGP-SA	40	regular service for 8 months	Fully lined	cooling stave
Hebei	Hebei Jinding iron and Steel Co., Ltd.	Handan City	1	8.35	1080	2016/4/8	30	RGP-CM	7	regular service for 12 months	Cold free zone	cooling stave

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Xinjiang	Xinjiang Yili iron and Steel Co., Ltd.	Yili City	2	-	530	2016/4/12	90	RGP-CM,RGP-SA	14	regular service for 12 months	fully lined	cooling stave
Jiangsu	Jiangsu Yancheng Steel Co., Ltd.	Yancheng City Lianxin	3	5.95	630	2016/4/20	25	RGP-SM	5	regular service for more than 8 months	Cold free zone	cooling stave and cooling stack
Mongolia	Baotou Inner Ji Yu iron and Steel Co., Ltd.	Baotou City	2	6.6	660	2016/4/15	200	RGP-CM,RGP-SA	24	regular service for more than 11 months	Fully lined	cooling stave
Jiangsu	Jiangsu Yancheng Steel Co., Ltd.	Yancheng City Lianxin	1	8.2	1080	2016/4/15	215	RGP-SA	29	regular service for 6 months,then repair although materials intact	Lower part of stack	cooling stave
Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	1	5.6	450	2016/4/25	120	RGP-CM,RGP-SA	60	Protect cooling stave(thickness for 60mm-80mm),after service for 2 months,spalling locally	Fully lined and pipe system	cooling stave and cooling stack

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Shanxi	Shanxi Houma United Trading Co., Ltd.	Linfen City	2	-	430	2016/4/26	50	RGP-CM	36	regular service for 12 months	Stack,tap hole	cooling stave
Hebei	Tangshan Wenfeng Iron & Steel Co. Ltd.	Tangshan City	1	7.8	850	2016/4/30	260	RGP-CM,RGP-SA	34	regular service for 14 months	Fully lined	cooling stave
Jilin	Tonghua, Steel Co. Ltd.	Tonghua	1	11.0	2680	2016/5/2	200	RGP-CM,RGP-SA	24	Tuyere burning (not in the shotcrete range)	Fully lined	cooling stave
Liaoning	Angang Bayuquan iron and steel branch company	Yingkou City	1	14.6	4038	2016/5/6	200	RGP-CM,RGP-SA	11.5	Average shotcrete thickness for 80mm-100mm,regular service for 12 months	Fully lined	cooling stave
Hebei	Tangshan Shen Sheng Bao Trading Co. Ltd.	Tangshan City	2	-	600	2016/5/9	212	RGP-CM,RGP-SA	44	regular service for 13 months	Fully lined	cooling stave

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Hebei	Hebei Tianzhu iron and Steel Group Co., Ltd.	Tangshan City	2	5.6	450	2016/6/8	37	RGP-SM	30	regular service for 12 months	Cold free zone	cooling stave
Hebei	Hebei Yinan Shandong well cast Special Steel Co., Ltd.	Linyi City	1	-	500	2016/6/14	195	RGP-CM,RGP-SA	20	regular service for 12 months,then repair	Fully lined	cooling stave
Jiangsu	iangsu, Huai iron and Steel Co., Ltd.	Huaian City	2	5.6	450	2016/6/15	30	RGP-SM	30	regular service for 12 months	Cold free zone	
Shandong	Shandong Chuanyang Group Co. Ltd.	Zibo City	1	5.6	450	2016/7/6	110	RGP-CM	16	regular service for 6 months ,spalling locally	Upper part of Stack	cooling stave
Shanxi	Shanxi generalist industry and Trade Co., Ltd.	Linfen City	3	10.2	1860	2016/7/24	150	RGP-CM,RGP-SA	12	regular service for 12 months	Fully lined	cooling stave



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Ningxia	Ningxia Shenyin special steel Limited by Share Ltd	Shizuishan City	2	8	1180	2016/7/25	218	RGP-CM,RGP-SA	45	regular service for 9 months,spalling locally	Fully lined	cooling stave
Shandong	Shandong Min Yuan Steel Co., Ltd.	Ji'nan City	3	-	550	2016/7/30	45	RGP-SM	15	regular service for 3 months, spalling locally, 6 months later,none materials	Upper part of Stack	cooling stave
Sichuan	Panzhuhua Steel Group Panzhuhua Steel Vanadium Co., Ltd.	Panzhuhua City	1	11.0	2000	2016/8/5	175	RGP-CM,RGP-SA	12	regular service for 10 months	Fully lined	cooling stave and cooling stack
Hebei	Tangshan Guofeng iron and Steel Co., Ltd.	Tangshan City	1	5.6	450	2016/8/6	106	RGP-CM,RGP-SA	20	Blast furnace riser regular service for 10 months	Fully lined	cooling stave
Fujian	Fujian Luoyuan Minguang Steel Co., Ltd.	Fuzhou City	3	6.6	660	2016/8/10	210	RGP-CM,RGP-SA	42	regular service for 3 months, spalling locally	Fully lined	cooling stack

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Jiangsu	Xuzhou iron and Steel Co., Ltd.	Xuzhou City	4	5.55	450	2016/8/25	122	RGP-CM,RGP-SA	30	BF shutdown because of environmental protection requirements	Fully lined	cooling stave and cooling stack
Liaoning	Jinzhou Yixian Hongyi industry and Trade Co., Ltd.	Jinzhou City	2	-	300	2016/8/29	68	RGP-CM,RGP-SA	8	BF shutdown because after regular service for 6 months	Stack and Belly	cooling stave
Shandong	Shandong Chuanyang Steel Co. Ltd.	Zibo City	1	5.6	450	2016/8/29	141	RGP-SM	24	regular service for 6 months, spalling locally	Upper part of Stack	cooling stave
Jiangsu	Jiangyin Huaxi iron and Steel Co., Ltd.	Wuxi City	1	5.6	450	2016/9/3	100	RGP-CM,RGP-SA	24	regular service for 9 months	Upper part of Belly	cooling stave
Jiangsu	Changzhou, Dongfang special steel Co., Ltd.	Changzhou City	3	5.6	450	2016/9/6	151	RGP-CM,RGP-SA	18	regular service for 10 months	Fully lined	cooling stave

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Shandong	Shandong Chuanyang Steel Co. Ltd.	Zibo City	1	-	380	2016/9/7	9	RGP-CN(the upper materials for cement combines )	14	regular service for 9 months		cooling stave
Hebei	Qinhuangdao Baigong Steel Co., Ltd.	Qinhuangdao City	2	6.25	600	2016/9/15	30	RGP-CN	4	regular service for 12 months	Cold free zone	cooling stave
Hebei	Chengde Kuancheng Shengfeng Steel Co. Ltd.	Chengde City	1	-	630	2016/10/12	55	RGP-CN	7	regular service for 8 months	Upper part of Stack	cooling stave and cooling stack
Shanxi	Shanxi Xingyuan Steel Co. Ltd.	Linfen City	1	6.0	550	2016/10/15	70	RGP-CN	12	regular service for 6 months, spalling locally	Cold free zone	cooling stave and cooling stack
Hebei	Tangshan Jianlong Special Steel Co., Ltd.	Tangshan City	2	5.6	450	2016/10/28	36	RGP-CN	6	regular service for 6 months, spalling locally	Cold free zone	cooling stave

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Shanxi	Shougang Changzhi iron and Steel Co., Ltd.	Changzhi City	3	8.2	1080	2016/11/2	70	RGP-CN	8	regular service for 7 months	Upper part of Stack	cooling stave
Liaoning	Wukuang Yingkou Medium Plate Co., Ltd.	Yingkou	1	11	2350	2016/11/3	238	RGP-CN,RGP-SA	24	regular service for 7 months	Fully lined	cooling stave
Shanxi	Shanxi Jianlong iron and Steel Co., Ltd.	Houma City	9	6.0	630	2016/11/10	162	RGP-CN,RGP-SA	24	regular service for 6 months	Fully lined	cooling stave
Shanxi	Shanxi MingFu Iron & Steel Co., Ltd.	Yuncheng City	新1	-	420	2016/11/22	98	RGP-CN,RGP-SA	12	regular service for 7 months	Fully lined	cooling stave and cooling stack
Hebei	Qinhuangdao Hongxing Industrial Co., Ltd.	Qinhuangdao City	8	-	450	2016/11/25	30	RGP-CN	8	regular service for 7 months	Cold free zone	

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Shanxi	Shanxi MingFu Iron & Steel Co., Ltd.	Yuncheng City	2	5.4	420	2016/11/29	112	RGP-CN,RGP-SA	16	regular service for 7 months	Fully lined	cooling stave and cooling stack
Jilin	Jilin Heng Lian Precision Casting Technology Co., Ltd.	Jilin City	1	5.6	450	2016/12/8	125	RGP-CN,RGP-SA	16	regular service for 6 months	Fully lined	cooling stave and cooling stack
Jiangsu	Yancheng Lianxin City Steel Co., Ltd.	Yancheng City	1		1280	2016/12/12	220	RGP-CN,RGP-SA	30	regular service for 6 months	Fully lined	cooling stave
Liaoning	Anshan Baode Steel Co., Ltd.	Anshan City	2	5.4	450	2016/12/12	50	RGP-CN	8	regular service for 10 months,then repair	Cold free zone	cooling stave
Jiangsu	Yancheng Lianxin City Steel Co., Ltd.	Yancheng City	2	6.6	660	2016/12/13	240	RGP-CN,RGP-SA	36	regular service for 6 months so far	Fully lined	cooling stave

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Jiangsu	Jiangsu Qinyou Special Steel Co., Ltd.	Yangzhou City	2	5.6	450	2016/12/21	50	RGP-CN,RGP-SA	8	regular service for 6 months so far	Cold free zone	cooling stave
Hebei	Chengde Kuancheng Shengfeng Steel Corp	Chengde City	1	-	630	2016/12/27	75	RGP-CN,RGP-SA	8	regular service for 6 months so far	Cold free zone	cooling stave
Shanxi	Hejin Xinyuan iron and Steel Co., Ltd.	Hejin City	2	5.6	450	2016/12/28	160	RGP-CN,RGP-SA	18	regular service for 6 months so far	Fully lined	cooling stave
Hebei	Hebei Tianzhu iron and Steel Group Co., Ltd.	Tangshan City	1	6.15	580	2016/12/31	154	RGP-CN,RGP-SA	20	regular service for 6 months so far	Fully lined	cooling stave and cooling stack
Shanxi	Shanxi Gao Yi Steel Co., Ltd.	Yuncheng City	2	-	630	2017/1/3	105	RGP-CN	15	regular service for 5 months so far	Cold free zone	cooling stave and cooling stack

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Fujian	Fujian green extension nickel (Dingxin) Co. Ltd.	Ningde City	3	3.25	230	2017/1/6	105	RGP-CN,RGP-SA	16	regular service for 6 months so far	Fully lined	cooling stave
Sichuan	Chengyu Vanadium Titanium Technology Co., Ltd.	Neijiang City	1	5.6	450	2017/1/10	103	RGP-CN,RGP-SA	16	regular service for 3 months, spalling locally	Fully lined	cooling stave
Shandong	Shandong Chuanyang Steel Co. Ltd.	Zibo City	2	-	380	2017/1/15	72	RGP-CN,RGP-SA	14	regular service for 6 months so far	Fully lined	cooling stave
Hebei	Qinhuangdao Baigong Steel Co., Ltd.	Qinhuangdao City	1	6.25	600	2017/2/21	120	RGP-CN,RGP-SA	16	blow-in from march,regular service so far	Fully lined	cooling stave
Guangdong	Guangdong, Jieyang, Thailand, Steel Co., Ltd.	Jieyang	1	5.6	450	2017/2/9	8	RGP-SA	4	blow-in from april,regular service so far	tuyere	cooling stave

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Shaanxi	Shaanxi Lueyang iron and Steel Co., Ltd.	Hanzhoung City	1	5.6	450	2017/2/26	25	RGP-CN,RGP-SA	8	blow-in from march,regular service so far	Fully lined	cooling stave
Henan	Henan Anyang iron and Steel Co., Ltd.	Anyang City	1	11.6	2200	2017/2/28	360	RGP-CN,RGP-SA	30	regular service for 4 months so far	Fully lined	cooling stave and cooling stack
Guigang	Guangxi Guangxi iron and Steel Group Co., Ltd.	Guigang City	3	5.5	530	2017/3/13	134	RGP-CN,RGP-SA	13	blow-in from march,regular service so far	Fully lined	cooling stave and cooling stack
Mongolia	Mongolia Chifeng yuan Lian steel Co. Ltd.	Chifeng City	1	- G2:G303 +'[Allied Rongda - Reference s of	450	2017/3/18	6	RGP-CN	2	regular service for 3 months so far	Cold free zone	cooling stave and cooling stack
Hebei	Tangshan an iron and Steel Co., Ltd.	Tangshan City	3	6.15	650	2017/3/25	74	RGP-CN,RGP-SA	36	blow-in from april,regular service so far	Fully lined	cooling stave and cooling stack



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Jiangsu	Jiangsu Huai iron and Steel Co., Ltd.	Huaian City	1	-	580	2017/3/26	170	RGP-CN	36	regular service for 3 months so far	Cold free zone	cooling stave
Heilongjiang	Xilin Iron and Steel Group Co., Ltd.	Yichun City	1	9.65	1260	2017/3/26	65	RGP-CN	10	blow-in from march,regular service so far	Upper part of Stack	cooling stave
Jiangsu	Xuzhou, Baofeng, Steel Co., Ltd.	Xuzhou	3、6	5.6	450	2017/3/27	275	RGP-CN,RGP-SA	30	blow-in from april,regular service so far	Tuyere,Belly and Bosh	cooling stave
Guizhou	Shougang Shuicheng Iron and steel Co., Ltd.	Liupanshui	5	9.55	1350	2017/3/31	140	RGP-CN,RGP-SA	14	regular service for 3 months so far	Fully lined	cooling stave
Heilongjiang	Xilin Iron and Steel Group Co., Ltd.	Yichun City	1	6.15	580	2017/4/3	232	RGP-CN,RGP-SA	48	blow-in from april,regular service so far	Fully lined	cooling stave

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Hunan	Hunan Lianyuan iron and Steel Co., Ltd.	Loudi City	3	12.6	3200	2017/4/4	327	RGP-CN,RGP-SA	36	regular service so far	Fully lined	cooling stave
Jiangsu	Xuzhou Taifa Special Steel Technology Co., Ltd.	Xuzhou City	4	5.6	450	2017/4/5	40	RGP-CN	8	regular service for 2 months so far	Cold free zone	cooling stave
Jiangsu	Yangzhou Qinyou Special Steel Co., Ltd.	Yangzhou City	7	8.2	1080	2017/4/8	71	RGP-CN	10	blow-in from april,regular service so far	Cold free zone	cooling stave
Hebei	Qinhuangdao Hongxing iron and Steel Co. Ltd.	Qinhuangdao City	1	5.6	450	2017/4/12	30	RGP-CN	6	regular service for 2 months so far	Cold free zone	cooling stave
Yunnan	Yunnan Qujing Innovation Materials Co., Ltd.	Qujing City	1	-	600	2017/4/13	195	RGP-CN,RGP-SA	20	regular service so far	Fully lined	cooling stave

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Hebei	Qinhuangdao Hongxing iron and Steel Co. Ltd.	Qinhuangdao City	5	5.6	450	2017/4/17	40	RGP-CN	6	regular service for 2 months so far	Cold free zone	cooling stave and cooling stack
Yunnan	Yunnan Qujing Innovation Materials Co., Ltd.	Qujing City	3	5.6	450	2017/4/24	157	RGP-CN,RGP-SA	15	blow-in from May,regular service so far	Fully lined	cooling stave and cooling stack
Guizhou	Shougang Shuicheng Iron and steel Co., Ltd.	Liupanshui	1	12.8	2580	2017/4/25	215	RGP-CN,RGP-SA	18	blow-in from May,regular service so far	Fully lined and hood	cooling stave and cooling stack
Hebei	Tangshan Xinxng Steel Co., Ltd.	Tangshan City	1	5.6	450	2017/5/13	50	RGP-CN	8	blow-in from May,regular service so far	Cold free zone	cooling stave
Anhui	Anhui Saint Gobain Piping System Co. Ltd.	Ma'anshan City	4	-	260	2017/5/17	30	RGP-CN	6	regular service so far	Upper part of Stack	cooling stave

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<b>Province</b>	<b>Name of I&amp;S Company</b>	<b>City</b>	<b>BF No</b>	<b>Earth diameter (m)</b>	<b>Total volume (m<sup>3</sup>)</b>	<b>Year of repair</b>	<b>Tonnage shotcrete</b>	<b>Name of product</b>	<b>Duration shutdown (h)</b>	<b>Service life</b>	<b>Shotcrete Part of Furnace</b>	<b>Cooling structure</b>
Heilongjiang	Xilin Iron and Steel Group Co., Ltd.	Yichun City	1	9.0	1260	2017/5/20	252	RGP-CN,RGP-SA	36	blow-in from June,regular service so far	Fully lined	cooling stave
Liaoning	Benxi iron (Group) Co., Ltd.	Benxi City	1	3.9	191	2017/5/24	80	RGP-CN,RGP-SA	16	blow-in from June,regular service so far	Fully lined	cooling stave
Jiangsu	Jiangsu Hongchang plate Co. Ltd.	Wuxi City	5	15.5	5800	2017/5/25	425	RGP-CN,RGP-SA	36	blow-in from June,regular service so far	Fully lined	cooling stave
Heibei	Donghua iron and Steel Co., Ltd.	Tangshan City	1	8.36	1580	2017/5/30	210	RGP-CN,RGP-SA	28	blow-in from June,regular service so far	Fully lined	cooling stave
Shanxi	Changping Iron & Steel Co., Ltd.	Changzhi City	1	5.4	450	2017/6/2	130	RGP-CN,RGP-SA	16	blow-in from June,regular service so far	Fully lined	cooling stave and cooling stack

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Fujian	Fujian qingtuo nickel Co. Ltd.	Ningde City	3	-	230	2017/6/4	170	RGP-CN,RGP-SA	20	blow-in from June,regular service so far	Fully lined and hood	cooling stave
Henan	Henan Yaxin iron and Steel Group Co., Ltd.	Anyang City	2	5.8	450	2017/6/12	15	RGP-CN	6	blow-in from June,regular service so far	Hood	cooling stave