



JINDAL STEEL & POWER LIMITED

Works : CHHENDIPADA ROAD, SH-63, AT/PO-JINDAL NAGAR, DIST-ANGUL, ODISHA, 759111 INDIA

Registered Office : POST BOX NO.6, OP JINDAL MARG, HISAR, HARYANA

W-jindalsteelpower.com

Corporate Office : JINDAL CENTER, 12 BHIKAJI CAMA PALACE, NEW DELHI- 110066 INDIA

PHONE : (06761) 264191-95, FAX : +916761 264341-51

TEST CERTIFICATE TEST CERTIFICATE FOR CARBON STEEL CAST BILLETS

Test Certificate No. JSPL/ANGL/0000017310

Date : 24.02.2020

To, M/s INDO INTERNATIONAL TRADING FZCO P.O BOX NO.18648, JEBELALI, DUBAI,
PIN-000000,

Page 1 of 6

Process of Manufacture : BF->BOF/NOF->LRF->CCM

It is certified that material described below confirms to the chemical composition, as tested in accordance with the Standard Testing and Inspection as per agreed norms of purchaser.

Ladle/Heat Chemistry

Material Grade : SWRY11 Supply Size in mm : 165 mm X 165 mm																						
Heat No.	Batch No.	Pcs.	Wt.Mt	%C	%Mn	%S	%P	%Si	%Al	%Cu	%Ni	%Cr	%Mo	%V	%Ti	%Nb	%Ca	%B	H2 (PPM)	N2 (PPM)	O2 (PPM)	CE
B00554	B00554C09B	121	238.739	0.059	0.40	0.005	0.011	0.023	0.005	0.003	0.007	0.016	0.0010	0.0010	0.0010	0.0010	0.0020	0.0004		55		0.1299
B00551	B00551C09B	52	102.598	0.068	0.44	0.005	0.012	0.024	0.010	0.004	0.007	0.016	0.0010	0.0010	0.0010	0.0010	0.0018	0.0005		54		0.1457
B00518	B00518C09B	103	203.224	0.065	0.41	0.005	0.010	0.020	0.008	0.003	0.008	0.002	0.0070	0.0010	0.0010	0.0010	0.0016	0.0003		56		0.1361
B00520	B00520C09B	91	179.548	0.070	0.40	0.004	0.011	0.024	0.008	0.004	0.008	0.009	0.0020	0.0010	0.0010	0.0010	0.0020	0.0003		54		0.1399
B00454	B00454C09B	97	191.385	0.070	0.41	0.005	0.014	0.026	0.012	0.003	0.009	0.011	0.0010	0.0010	0.0010	0.0010	0.0021	0.0002		55		0.1417
B00501	B00501C09B	95	187.439	0.061	0.40	0.004	0.013	0.026	0.006	0.004	0.009	0.009	0.0010	0.0010	0.0010	0.0010	0.0022	0.0004		49		0.1307
B00544	B00544C09B	101	199.278	0.050	0.41	0.002	0.010	0.024	0.004	0.003	0.006	0.011	0.0010	0.0010	0.0010	0.0010	0.0020	0.0004		56		0.1215

Purchase Order No : PROV/EXP/BLT/9013
Date : 06.12.2019
Despatch Advice No : 61929262
Truck/Wagon No : PT ISPAT RAKE-02

Prepared by : SONYSHARMA
Preparation Date : 24.02.2020 17:17:17
Printing Date : 06.03.2020 & Time 15:01:44


Authorized Signatory
SMS (Quality Control)
For JINDAL STEEL & POWER LTD.,



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Heat No.	Batch No.	Pcs.	Wt.Mt	%C	%Mn	%S	%P	%Si	%Al	%Cu	%Ni	%Cr	%Mo	%V	%Ti	%Nb	%Ca	%B	H2 (PPM)	N2 (PPM)	O2 (PPM)	CE
B00546	B00546C09B	10	19.730	0.060	0.41	0.003	0.019	0.024	0.005	0.003	0.006	0.011	0.0010	0.0010	0.0010	0.0010	0.0020	0.0004		58		0.1315
B00565	B00565C09B	2	3.946	0.065	0.40	0.004	0.011	0.021	0.005	0.005	0.007	0.014	0.0010	0.0010	0.0010	0.0010	0.0027	0.0003		55		0.1357
B00456	B00456C09B	96	189.413	0.066	0.46	0.006	0.012	0.019	0.011	0.004	0.009	0.010	0.0010	0.0010	0.0010	0.0010	0.0018	0.0003		55		0.1459
B00522	B00522C09B	109	215.062	0.073	0.40	0.003	0.011	0.020	0.006	0.004	0.008	0.013	0.0010	0.0010	0.0010	0.0010	0.0018	0.0004		58		0.1435
B00556	B00556C09B	61	120.356	0.070	0.41	0.004	0.013	0.022	0.005	0.004	0.006	0.012	0.0010	0.0010	0.0010	0.0010	0.0013	0.0002		57		0.1418

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Material Grade : SWRY11		Supply Size in mm : 165 mm X 165 mm																				
Heat No.	Batch No.	Pcs.	Wt.Mt	%C	%Mn	%S	%P	%Si	%Al	%Cu	%Ni	%Cr	%Mo	%V	%Ti	%Nb	%Ca	%B	H2 (PPM)	N2 (PPM)	O2 (PPM)	CE
B00529	B00529C09B	103	203.224	0.070	0.40	0.003	0.014	0.020	0.005	0.004	0.007	0.010	0.0010	0.0010	0.0020	0.0010	0.0021	0.0003		58		0.1398
B00563	B00563C09B	45	88.787	0.070	0.42	0.005	0.012	0.020	0.010	0.003	0.006	0.011	0.0010	0.0010	0.0010	0.0010	0.0020	0.0002		56		0.1432
B00513	B00513C09B	50	98.652	0.064	0.41	0.004	0.015	0.023	0.008	0.004	0.008	0.009	0.0010	0.0010	0.0010	0.0010	0.0019	0.0004		52		0.1353
B00503	B00503C09B	91	179.548	0.070	0.44	0.006	0.010	0.017	0.003	0.003	0.009	0.009	0.0010	0.0010	0.0020	0.0010	0.0014	0.0003		49		0.1463
B00511	B00511C09B	55	108.517	0.060	0.45	0.003	0.013	0.022	0.004	0.003	0.008	0.009	0.0010	0.0010	0.0010	0.0010	0.0017	0.0004		54		0.1379
B00524	B00524C09B	88	173.628	0.080	0.42	0.003	0.014	0.018	0.010	0.003	0.007	0.011	0.0010	0.0010	0.0010	0.0010	0.0020	0.0003		53		0.1533
B00505	B00505C09B	81	159.817	0.061	0.40	0.004	0.013	0.023	0.008	0.005	0.009	0.008	0.0010	1.0000	1.0000	0.0010	0.0021	0.0003		52		0.3304
B00509	B00509C09B	77	151.924	0.070	0.46	0.004	0.013	0.023	0.006	0.004	0.009	0.009	0.0010	0.0010	0.0010	0.0010	0.0018	0.0004		56		0.1497

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Heat No.	Batch No.	Pcs.	Wt.Mt	%C	%Mn	%S	%P	%Si	%Al	%Cu	%Ni	%Cr	%Mo	%V	%Ti	%Nb	%Ca	%B	H2 (PPM)	N2 (PPM)	O2 (PPM)	CE
B00559	B00559C09B	70	138.114	0.070	0.40	0.004	0.011	0.024	0.008	0.003	0.006	0.008	0.0010	0.0010	0.0010	0.0010	0.0018	0.0002		56		0.1393
B00459	B00459C09B	36	71.030	0.064	0.45	6.000	0.012	0.022	0.018	0.003	0.008	0.010	0.0010	0.0010	0.0010	0.0010	0.0021	0.0003		59		0.1421
B00453	B00453C09B	46	90.760	0.065	0.42	0.007	0.011	0.020	0.011	0.005	0.009	0.008	0.0010	0.0010	0.0010	0.0010	0.0025	0.0003		53		0.1379
B00516	B00516C09B	53	104.572	0.070	0.40	0.005	0.011	0.023	0.009	0.003	0.008	0.009	0.0010	0.0010	0.0010	0.0010	0.0021	0.0002		51		0.1396
B00499	B00499C09B	16	31.569	0.064	0.43	0.005	0.010	0.020	0.006	0.005	0.009	0.010	0.0010	0.0010	0.0010	0.0010	0.0029	0.0004		48		0.139
G Total		1749	3450.860																			

CE*=%C+%Mn/6+(%Cr+%Mo+%V)/5+(%Cu+%Ni)/15

Heat No.	Macro Etch Test(As Per E-381)
B00554	Satisfactory Better Than C2 R2 S2
B00551	Satisfactory Better Than C2 R2 S2
B00518	Satisfactory Better Than C2 R2 S2
B00520	Satisfactory Better Than C2 R2 S2

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B00454	Satisfactory Better Than C2 R2 S2
B00501	Satisfactory Better Than C2 R2 S2
B00544	Satisfactory Better Than C2 R2 S2
B00546	Satisfactory Better Than C2 R2 S2
B00565	Satisfactory Better Than C2 R2 S2
B00456	Satisfactory Better Than C2 R2 S2
B00522	Satisfactory Better Than C2 R2 S2
B00556	Satisfactory Better Than C2 R2 S2
B00529	Satisfactory Better Than C2 R2 S2
B00563	Satisfactory Better Than C2 R2 S2
B00513	Satisfactory Better Than C2 R2 S2
B00503	Satisfactory Better Than C2 R2 S2
B00511	Satisfactory Better Than C2 R2 S2
B00524	Satisfactory Better Than C2 R2 S2
B00505	Satisfactory Better Than C2 R2 S2
B00509	Satisfactory Better Than C2 R2 S2
B00559	Satisfactory Better Than C2 R2 S2
B00459	Satisfactory Better Than C2 R2 S2
B00453	Satisfactory Better Than C2 R2 S2

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B00516	Satisfactory Better Than C2 R2 S2
B00499	Satisfactory Better Than C2 R2 S2

Remarks : Test Certificate as per EN 10204, 2004 Type 3.1

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