



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/0000037309

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 1

Process of Manufacture : BF->BOF/NOF->LRF->VD->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 : CHQ8A			Supply Size in mm : 150 mm X 150 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
B24040	B24040C09A	25	41.524	0.066	0.44	0.003	0.011	0.075	0.029	0.003	0.014	0.015	0.0010	0.0010	0.0010	0.0010	0.0024	0.0002		59		0.1439
B24041	B24041C09A	23	38.202	0.069	0.41	0.003	0.012	0.078	0.029	0.004	0.015	0.012	0.0010	0.0010	0.0010	0.0010	0.0018	0.0002		59		0.1414
B24046	B24046C09A	15	24.914	0.062	0.42	0.003	0.010	0.095	0.030	0.004	0.015	0.009	0.0010	0.0010	0.0020	0.0010	0.0019	0.0003		56		0.1355
G Total		63	104.640																			

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

Heat No.	Macro Etch Test(As Per E-381)
B24040	Satisfactory Better Than C2 R2 S2
B24041	Satisfactory Better Than C2 R2 S2
B24046	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62137792
Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:12:46
Printing Date : 22.05.2022 & Time 17:12:51


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



JINDAL STEEL & POWER LIMITED

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

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TEST CERTIFICATE TEST CERTIFICATE FOR CARBON STEEL CAST BILLETS

Test Certificate No. JSPL/ANGL/0000037307

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 1

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 : HC-72B			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
B24102	B24102A9A	18	35.743	0.710	0.66	0.010	0.014	0.160	0.005	0.003	0.017	0.016	0.0010	0.0010	0.0030	0.0010	0.0020	0.0003		64		0.8249
B24090	B24090A9A	13	25.814	0.707	0.65	0.013	0.019	0.195	0.004	0.003	0.016	0.019	0.0010	0.0010	0.0020	0.0010	0.0013	0.0003		58		0.8208
B24092	B24092A9A	11	21.843	0.705	0.66	0.008	0.017	0.190	0.003	0.004	0.017	0.018	0.0010	0.0010	0.0020	0.0010	0.0012	0.0004		57		0.8204
B24094	B24094A9A	8	15.885	0.710	0.66	0.007	0.020	0.200	0.005	0.004	0.015	0.018	0.0010	0.0010	0.0020	0.0010	0.0014	0.0003		58		0.8253
G Total		50	99.285																			

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

Heat No.	Macro Etch Test(As Per E-381)
B24102	Satisfactory Better Than C2 R2 S2
B24090	Satisfactory Better Than C2 R2 S2
B24092	Satisfactory Better Than C2 R2 S2
B24094	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62137794

Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:09:44
Printing Date : 22.05.2022 & Time 17:09:49


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



JINDAL STEEL & POWER LIMITED

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

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TEST CERTIFICATE TEST CERTIFICATE FOR CARBON STEEL CAST BILLETS

Test Certificate No. JSPL/ANGL/0000037310

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 1

Process of Manufacture : BF->BOF/NOF->LRF->VD->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 : CHQ22A			Supply Size in mm : 150 mm X 150 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
B24030	B24030C09A	10	16.331	0.214	0.75	0.002	0.013	0.082	0.028	0.004	0.014	0.015	0.0010	0.0010	0.0010	0.0010	0.0013	0.0002		57		0.3436
A22301	A22301C09A	2	3.266	0.190	0.72	0.003	0.012	0.072	0.031	0.003	0.013	0.016	0.0020	0.0010	0.0020	0.0020	0.0023	0.0003		59		0.3149
G Total		12	19.597																			

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

Heat No.	Macro Etch Test(As Per E-381)
B24030	Satisfactory Better Than C2 R2 S2
A22301	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62137790

Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:13:53
Printing Date : 22.05.2022 & Time 17:13:59


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



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Test Certificate No. JSPL/ANGL/0000037306

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 5

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
B23975	B23975C09A	122	242.206	0.061	0.41	0.004	0.016	0.023	0.005	0.004	0.013	0.016	0.0010	0.0010	0.0010	0.0010	0.0016	0.0003		64		0.1341
B23958	B23958C09A	114		0.051	0.42	0.002	0.012	0.028	0.005	0.005	0.015	0.015	0.0010	0.0010	0.0010	0.0010	0.0020	0.0002		58		0.1257
B23979	B23979C09A	42	83.400	0.059	0.41	0.003	0.011	0.021	0.004	0.003	0.014	0.017	0.0010	0.0010	0.0010	0.0010	0.0020	0.0003		65		0.1323
B23962	B23962C09A	41	80.631	0.061	0.47	0.007	0.014	0.021	0.003	0.004	0.013	0.017	0.0010	0.0010	0.0010	0.0010	0.0020	0.0003		58		0.1443
B23910	B23910C09A	36		0.052	0.43	0.003	0.011	0.024	0.006	0.002	0.014	0.012	0.0010	0.0010	0.0010	0.0010	0.0028	0.0002		58		0.1275
B23934	B23934C09A	37	73.471	0.058	0.42	0.003	0.016	0.020	0.007	0.003	0.015	0.015	0.0020	0.0010	0.0010	0.0010	0.0021	0.0003		63		0.1328
B23911	B23911C09A	29	57.586	0.047	0.40	0.004	0.011	0.018	0.004	0.003	0.013	0.015	0.0010	0.0010	0.0010	0.0010	0.0020	0.0002		62		0.1181

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62137795
Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:08:57
Printing Date : 22.05.2022 & Time 17:09:03


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



JINDAL STEEL & POWER LIMITED
Works : CHHENDIPADA ROAD,SH-63, AT/PO-JINDAL NAGAR, DIST-ANGUL,ODISHA, 759111 INDIA
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Test Certificate No. JSPL/ANGL/0000037306

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 2 of 5

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.

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
B23908	B23908C09A	27	52.780	0.051	0.41	0.004	0.011	0.019	0.007	0.002	0.014	0.013	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		57		0.1234
B23964	B23964C09A	25	49.643	0.052	0.42	0.003	0.014	0.022	0.005	0.003	0.013	0.016	0.0010	0.0010	0.0010	0.0010	0.0015	0.0002		61		0.1267
B23922	B23922C09A	23	45.671	0.053	0.40	0.004	0.013	0.022	0.006	0.003	0.013	0.015	0.0010	0.0010	0.0020	0.0010	0.0025	0.0002		64		0.1241
B23951	B23951C09A	28	46.506	0.053	0.41	0.003	0.013	0.024	0.005	0.003	0.012	0.016	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		59		0.1259
B23906	B23906C09A	23	45.079	0.050	0.40	0.005	0.015	0.021	0.003	0.002	0.014	0.016	0.0010	0.0010	0.0020	0.0010	0.0018	0.0002		54		0.1213

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62137795
Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:08:57
Printing Date : 22.05.2022 & Time 17:09:03


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



JINDAL STEEL & POWER LIMITED
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To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 3 of 5

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.

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
B23927	B23927C09A	17	32.796	0.055	0.43	0.004	0.012	0.027	0.003	0.004	0.013	0.018	0.0020	0.0020	0.0010	0.0010	0.0025	0.0003		61		0.1322
B23944	B23944C09A	16	31.771	0.057	0.40	0.003	0.012	0.021	0.005	0.006	0.016	0.020	0.0010	0.0010	0.0010	0.0010	0.0016	0.0002		59		0.1295
B21874	B21874C09A	12	23.829	0.069	0.40	0.003	0.014	0.028	0.011	0.003	0.014	0.014	0.0020	0.0020	0.0020	0.0020	0.0012	0.0003		64		0.1404
B23960	B23960C09A	12	23.829	0.061	0.42	0.005	0.015	0.024	0.005	0.003	0.013	0.014	0.0010	0.0010	0.0010	0.0010	0.0020	0.0002		58		0.1353
B23901	B23901C09A	11	21.122	0.058	0.40	0.006	0.013	0.025	0.004	0.002	0.014	0.016	0.0010	0.0010	0.0010	0.0010	0.0027	0.0002		61		0.1293
B23972	B23972C09A	8	15.885	0.051	0.39	0.003	0.010	0.021	0.010	0.004	0.013	0.010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0003		62		0.1195
B23968	B23968C09A	3	5.957	0.051	0.41	0.003	0.015	0.019	0.004	0.007	0.015	0.018	0.0010	0.0010	0.0010	0.0010	0.0014	0.0003		61		0.1248
B23930	B23930C09A	3	5.482	0.056	0.39	0.009	0.012	0.018	0.003	0.003	0.014	0.016	0.0020	0.0010	0.0010	0.0010	0.0017	0.0003		60		0.1259

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Page 4 of 5

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.

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
B23949	B23949C09A	2	3.190	0.051	0.40	0.003	0.010	0.021	0.004	0.004	0.013	0.016	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		65		0.1224
G Total		631	1238.226																			

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

Heat No.	Macro Etch Test(As Per E-381)
B23975	Satisfactory Better Than C2 R2 S2
B23958	Satisfactory Better Than C2 R2 S2
B23979	Satisfactory Better Than C2 R2 S2
B23962	Satisfactory Better Than C2 R2 S2
B23910	Satisfactory Better Than C2 R2 S2
B23934	Satisfactory Better Than C2 R2 S2
B23911	Satisfactory Better Than C2 R2 S2
B23908	Satisfactory Better Than C2 R2 S2
B23964	Satisfactory Better Than C2 R2 S2
B23922	Satisfactory Better Than C2 R2 S2
B23951	Satisfactory Better Than C2 R2 S2

Purchase Order No : PROV/EXP/BLT/22002
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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.

B23906	Satisfactory Better Than C2 R2 S2
B23927	Satisfactory Better Than C2 R2 S2
B23944	Satisfactory Better Than C2 R2 S2
B21874	Satisfactory Better Than C2 R2 S2
B23960	Satisfactory Better Than C2 R2 S2
B23901	Satisfactory Better Than C2 R2 S2
B23972	Satisfactory Better Than C2 R2 S2
B23968	Satisfactory Better Than C2 R2 S2
B23930	Satisfactory Better Than C2 R2 S2
B23949	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

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Prepared by : SONYSHARMA
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Page 1 of 2

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 : 30MNSI			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
B23853	B23853C09A	58	115.171	0.290	1.07	0.008	0.020	0.820	0.004	0.003	0.012	0.018	0.0010	0.0020	0.0030	0.0010	0.0020	0.0006		66		0.4735
B23855	B23855C09A	36	70.644	0.290	1.04	0.010	0.016	0.800	0.003	0.004	0.013	0.014	0.0010	0.0020	0.0030	0.0010	0.0011	0.0006		62		0.4679
B21895	B21895C09A	28	55.600	0.310	1.04	0.015	0.020	0.750	0.005	0.004	0.013	0.019	0.0010	0.0010	0.0020	0.0010	0.0011	0.0004		60		0.4887
B23861	B23861C09A	26	51.628	0.300	1.06	0.009	0.018	0.787	0.006	0.006	0.015	0.019	0.0010	0.0020	0.0030	0.0010	0.0015	0.0003		55		0.4825
B23859	B23859C09A	15	29.786	0.295	1.07	0.009	0.022	0.780	0.003	0.004	0.013	0.020	0.0010	0.0020	0.0030	0.0010	0.0016	0.0003		64		0.4791
B23862	B23862C09A	13	25.814	0.317	1.07	0.015	0.013	0.800	0.004	0.003	0.012	0.010	0.0010	0.0020	0.0030	0.0010	0.0016	0.0003		57		0.4989
B21894	B21894C09A	7	13.900	0.290	1.02	0.003	0.019	0.810	0.008	0.004	0.013	0.018	0.0010	0.0010	0.0020	0.0010	0.0015	0.0004		59		0.4651

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62137789
Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:15:25
Printing Date : 22.05.2022 & Time 17:15:30


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



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/0000037311

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 2 of 2

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.

Material Grade : 30MNSI										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
B21892	B21892C09A	5	9.929	0.280	1.02	0.011	0.018	0.800	0.005	0.003	0.013	0.017	0.0010	0.0010	0.0020	0.0010	0.0011	0.0004		60		0.4549
B23857	B23857C09A	2	3.970	0.300	1.06	0.008	0.015	0.810	0.005	0.003	0.013	0.016	0.0010	0.0020	0.0030	0.0010	0.0020	0.0006		63		0.4815
G Total		190	376.442																			

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

Heat No.	Macro Etch Test(As Per E-381)
B23853	Satisfactory Better Than C2 R2 S2
B23855	Satisfactory Better Than C2 R2 S2
B21895	Satisfactory Better Than C2 R2 S2
B23861	Satisfactory Better Than C2 R2 S2
B23859	Satisfactory Better Than C2 R2 S2
B23862	Satisfactory Better Than C2 R2 S2
B21894	Satisfactory Better Than C2 R2 S2
B21892	Satisfactory Better Than C2 R2 S2
B23857	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62137789

Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:15:25
Printing Date : 22.05.2022 & Time 17:15:30


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



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
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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/0000037305

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 2

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 : 30MNSI			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
B23853	B23853C08H	6	11.391	0.290	1.07	0.008	0.020	0.820	0.004	0.003	0.012	0.018	0.0010	0.0020	0.0030	0.0010	0.0020	0.0006		66		0.4735
B23855	B23855C08H	3	5.695	0.290	1.04	0.010	0.016	0.800	0.003	0.004	0.013	0.014	0.0010	0.0020	0.0030	0.0010	0.0011	0.0006		62		0.4679
B23857	B23857C08H	2	3.797	0.300	1.06	0.008	0.015	0.810	0.005	0.003	0.013	0.016	0.0010	0.0020	0.0030	0.0010	0.0020	0.0006		63		0.4815
B23859	B23859C08H	1	1.899	0.295	1.07	0.009	0.022	0.780	0.003	0.004	0.013	0.020	0.0010	0.0020	0.0030	0.0010	0.0016	0.0003		64		0.4791
B23862	B23862C08H	1	1.898	0.317	1.07	0.015	0.013	0.800	0.004	0.003	0.012	0.010	0.0010	0.0020	0.0030	0.0010	0.0016	0.0003		57		0.4989
G Total		13	24.680																			

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

Heat No.	Macro Etch Test(As Per E-381)
B23853	Satisfactory Better Than C2 R2 S2
B23855	Satisfactory Better Than C2 R2 S2

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62137814
Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:08:08
Printing Date : 22.05.2022 & Time 17:08:13


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



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

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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/0000037305

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 2 of 2

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.

B23857	Satisfactory Better Than C2 R2 S2
B23859	Satisfactory Better Than C2 R2 S2
B23862	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62137814

Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:08:08
Printing Date : 22.05.2022 & Time 17:08:13


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



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

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

TEST CERTIFICATE TEST CERTIFICATE FOR CARBON STEEL CAST BILLETS

Test Certificate No. JSPL/ANGL/0000037304

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 1

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 : HC-72B			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
B24090	B24090A08H	3	5.695	0.707	0.65	0.013	0.019	0.195	0.004	0.003	0.016	0.019	0.0010	0.0010	0.0020	0.0010		0.0003		58		0.8208
G Total		3	5.695																			

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

Heat No.	Macro Etch Test(As Per E-381)
B24090	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62137817

Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:05:43
Printing Date : 22.05.2022 & Time 17:05:48


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



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

TEST CERTIFICATE
TEST CERTIFICATE FOR CARBON STEEL CAST BILLETS

Test Certificate No. JSPL/ANGL/0000037303

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 3

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
B23906	B23906C08H	2	3.797	0.050	0.40	0.005	0.015	0.021	0.003	0.002	0.014	0.016	0.0010	0.0010	0.0020	0.0010	0.0018	0.0002		54		0.1213
B23934	B23934C08H	2	3.797	0.058	0.42	0.003	0.016	0.020	0.007	0.003	0.015	0.015	0.0020	0.0010	0.0010	0.0010	0.0021	0.0003		63		0.1328
B23908	B23908C08H	1	1.899	0.051	0.41	0.004	0.011	0.019	0.007	0.002	0.014	0.013	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		57		0.1234
B23910	B23910C08H	1	1.899	0.052	0.43	0.003	0.011	0.024	0.006	0.002	0.014	0.012	0.0010	0.0010	0.0010	0.0010	0.0028	0.0002		58		0.1275
B23911	B23911C08H	1	1.899	0.047	0.40	0.004	0.011	0.018	0.004	0.003	0.013	0.015	0.0010	0.0010	0.0010	0.0010	0.0020	0.0002		62		0.1181
B23951	B23951C08H	1	1.588	0.053	0.41	0.003	0.013	0.024	0.005	0.003	0.012	0.016	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		59		0.1259
B23955	B23955C08H	1	1.899	0.056	0.42	0.005	0.011	0.017	0.006	0.002	0.012	0.014	0.0010	0.0010	0.0010	0.0010	0.0020	0.0003		65		0.1301

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62137820
Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:00:06
Printing Date : 22.05.2022 & Time 17:00:13


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



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/0000037303

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 2 of 3

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.

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
B23964	B23964C08H	1	1.899	0.052	0.42	0.003	0.014	0.022	0.005	0.003	0.013	0.016	0.0010	0.0010	0.0010	0.0010	0.0015	0.0002		61		0.1267
B23972	B23972C08H	1	1.899	0.051	0.39	0.003	0.010	0.021	0.010	0.004	0.013	0.010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0003		62		0.1195
B23979	B23979C08H	1	1.896	0.059	0.41	0.003	0.011	0.021	0.004	0.003	0.014	0.017	0.0010	0.0010	0.0010	0.0010	0.0020	0.0003		65		0.1323
G Total			12	22.472																		

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

Heat No.	Macro Etch Test(As Per E-381)
B23906	Satisfactory Better Than C2 R2 S2
B23934	Satisfactory Better Than C2 R2 S2
B23908	Satisfactory Better Than C2 R2 S2
B23910	Satisfactory Better Than C2 R2 S2
B23911	Satisfactory Better Than C2 R2 S2
B23951	Satisfactory Better Than C2 R2 S2
B23955	Satisfactory Better Than C2 R2 S2

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62137820
Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:00:06
Printing Date : 22.05.2022 & Time 17:00:13


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



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

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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/0000037303

Date : 22.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 3 of 3

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.

B23964	Satisfactory Better Than C2 R2 S2
B23972	Satisfactory Better Than C2 R2 S2
B23979	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62137820

Truck/Wagon No : PT ISPAT RAKE NO 04

Prepared by : SONYSHARMA
Preparation Date : 22.05.2022 17:00:06
Printing Date : 22.05.2022 & Time 17:00:13


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



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
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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/0000036399

Date : 11.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 4

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
B23930C	B23930C09A	95	188.243	0.056	0.39	0.009	0.012	0.018	0.003	0.003	0.014	0.016	0.0020	0.0010	0.0010	0.0010	0.0017	0.0003		60		0.1259
B23901C	B23901C09A	81	160.502	0.058	0.40	0.006	0.013	0.025	0.004	0.002	0.014	0.016	0.0010	0.0010	0.0010	0.0010	0.0027	0.0002		61		0.1293
B23904C	B23904C09A	61	120.872	0.056	0.42	0.006	0.013	0.025	0.004	0.003	0.014	0.017	0.0010	0.0010	0.0010	0.0010	0.0025	0.0003		59		0.1309
B23908C	B23908C09A	25	49.538	0.051	0.41	0.004	0.011	0.019	0.007	0.002	0.014	0.013	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		57		0.1234
B23922C	B23922C09A	63	124.835	0.053	0.40	0.004	0.013	0.022	0.006	0.003	0.013	0.015	0.0010	0.0010	0.0020	0.0010	0.0025	0.0002		64		0.1241
B23927C	B23927C09A	102	202.114	0.055	0.43	0.004	0.012	0.270	0.003	0.004	0.013	0.018	0.0020	0.0020	0.0010	0.0010	0.0025	0.0003		61		0.1322
B23944C	B23944C09A	95	188.243	0.057	0.40	0.003	0.012	0.021	0.005	0.006	0.016	0.020	0.0010	0.0010	0.0010	0.0010	0.0016	0.0002		59		0.1295

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62133194
Truck/Wagon No : PT ISPAT RAKE01

Prepared by : SONYSHARMA
Preparation Date : 11.05.2022 01:03:11
Printing Date : 09.06.2022 & Time 12:21:07


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



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
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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/0000036399

Date : 11.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 2 of 4

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.

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
B23945C	B23945C09A	98	194.188	0.058	0.41	0.003	0.012	0.026	0.006	0.003	0.013	0.018	0.0010	0.0010	0.0010	0.0010	0.0021	0.0002		62		0.1314
B23949C	B23949C09A	21	41.611	0.051	0.40	0.003	0.010	0.021	0.004	0.004	0.013	0.016	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		65		0.1224
B23951C	B23951C09A	25	41.436	0.053	0.41	0.003	0.013	0.024	0.005	0.003	0.012	0.016	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		59		0.1259
B23960C	B23960C09A	20	39.630	0.061	0.42	0.005	0.015	0.024	0.005	0.003	0.013	0.014	0.0010	0.0010	0.0010	0.0010	0.0020	0.0002		58		0.1353
B23962C	B23962C09A	71	140.687	0.061	0.47	0.007	0.014	0.021	0.003	0.004	0.013	0.017	0.0010	0.0010	0.0010	0.0010	0.0020	0.0003		58		0.1443

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62133194
Truck/Wagon No : PT ISPAT RAKE01

Prepared by : SONYSHARMA
Preparation Date : 11.05.2022 01:03:11
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000036399

Date : 11.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 3 of 4

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.

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
B23964C	B23964C09A	102	202.114	0.052	0.42	0.003	0.014	0.022	0.005	0.003	0.013	0.016	0.0010	0.0010	0.0010	0.0010	0.0015	0.0002		61		0.1267
B23968C	B23968C09A	30	59.445	0.051	0.41	0.003	0.015	0.019	0.004	0.007	0.015	0.018	0.0010	0.0010	0.0010	0.0010	0.0014	0.0003		61		0.1248
B23910C	B23910C10E	74	146.632	0.052	0.43	0.003	0.011	0.024	0.006	0.002	0.014	0.012	0.0010	0.0010	0.0010	0.0010	0.0028	0.0002		58		0.1275
B23933C	B23933C09A	42	83.224	0.057	0.42	0.003	0.013	0.019	0.010	0.002	0.015	0.015	0.0020	0.0010	0.0010	0.0010	0.0020	0.0003		60		0.1317
B23911C	B23911C10E	51	101.057	0.047	0.40	0.004	0.011	0.018	0.004	0.003	0.013	0.015	0.0010	0.0010	0.0010	0.0010	0.0020	0.0002		62		0.1181
G Total		1056	2084.371																			

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

Heat No.	Macro Etch Test(As Per E-381)
B23930C	Satisfactory Better Than C2 R2 S2
B23901C	Satisfactory Better Than C2 R2 S2
B23904C	Satisfactory Better Than C2 R2 S2
B23908C	Satisfactory Better Than C2 R2 S2

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62133194
Truck/Wagon No : PT ISPAT RAKE01

Prepared by : SONYSHARMA
Preparation Date : 11.05.2022 01:03:11
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000036399

Date : 11.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 4 of 4

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.

B23922C	Satisfactory Better Than C2 R2 S2
B23927C	Satisfactory Better Than C2 R2 S2
B23944C	Satisfactory Better Than C2 R2 S2
B23945C	Satisfactory Better Than C2 R2 S2
B23949C	Satisfactory Better Than C2 R2 S2
B23951C	Satisfactory Better Than C2 R2 S2
B23960C	Satisfactory Better Than C2 R2 S2
B23962C	Satisfactory Better Than C2 R2 S2
B23964C	Satisfactory Better Than C2 R2 S2
B23968C	Satisfactory Better Than C2 R2 S2
B23910C	Satisfactory Better Than C2 R2 S2
B23933C	Satisfactory Better Than C2 R2 S2
B23911C	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62133194

Truck/Wagon No : PT ISPAT RAKE01

Prepared by : SONYSHARMA
Preparation Date : 11.05.2022 03:11
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000036398

Date : 11.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 2

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 : 30MNSI			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
B23855C	B23855C09A	37	73.316	0.290	1.04	0.010	0.016	0.800	0.003	0.004	0.013	0.014	0.0010	0.0020	0.0030	0.0010	0.0011	0.0006		62		0.4679
B23853C	B23853C09A	26	51.519	0.290	1.07	0.008	0.020	0.820	0.004	0.003	0.012	0.018	0.0010	0.0020	0.0030	0.0010	0.0020	0.0006		66		0.4735
B23857C	B23857C09A	37	73.316	0.300	1.06	0.008	0.015	0.810	0.005	0.003	0.013	0.016	0.0010	0.0020	0.0030	0.0010	0.0020	0.0006		63		0.4815
B23861C	B23861C09A	88	174.372	0.300	1.06	0.009	0.018	0.787	0.006	0.006	0.015	0.019	0.0010	0.0020	0.0030	0.0010	0.0015	0.0003		55		0.4825
B23859C	B23859C09A	67	132.761	0.295	1.07	0.009	0.022	0.780	0.003	0.004	0.013	0.020	0.0010	0.0020	0.0030	0.0010	0.0016	0.0003		64		0.4791
B23862C	B23862C09A	89	176.355	0.317	1.07	0.015	0.013	0.800	0.004	0.003	0.012	0.010	0.0010	0.0020	0.0030	0.0010	0.0016	0.0003		57		0.4989
G Total		344	681.639																			

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

Heat No.	Macro Etch Test(As Per E-381)

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62133195
Truck/Wagon No : PT ISPAT RAKE01

Prepared by : SONYSHARMA
Preparation Date : 11.05.2022 00:28:38
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000036398

Date : 11.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 2 of 2

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.

B23855C	Satisfactory Better Than C2 R2 S2
B23853C	Satisfactory Better Than C2 R2 S2
B23857C	Satisfactory Better Than C2 R2 S2
B23861C	Satisfactory Better Than C2 R2 S2
B23859C	Satisfactory Better Than C2 R2 S2
B23862C	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62133195

Truck/Wagon No : PT ISPAT RAKE01

Prepared by : SONYSHARMA
Preparation Date : 11.05.202200:28:38
Printing Date : 09.06.2022 & Time 12:21:07

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



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

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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/0000036948

Date : 17.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 1

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 : 30MNSI			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
B23855C	B23855C09A	32	63.181	0.290	1.04	0.010	0.016	0.800	0.003	0.004	0.013	0.014	0.0010	0.0020	0.0030	0.0010	0.0011	0.0006		62		0.4679
B23857C	B23857C09A	1	1.974	0.300	1.06	0.008	0.015	0.810	0.005	0.003	0.013	0.016	0.0010	0.0020	0.0030	0.0010	0.0020	0.0006		63		0.4815
B23859C	B23859C09A	31	61.205	0.295	1.07	0.009	0.022	0.780	0.003	0.004	0.013	0.020	0.0010	0.0020	0.0030	0.0010	0.0016	0.0003		64		0.4791
G Total		64	126.360																			

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

Heat No.	Macro Etch Test(As Per E-381)
B23855C	Satisfactory Better Than C2 R2 S2
B23857C	Satisfactory Better Than C2 R2 S2
B23859C	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62135750

Truck/Wagon No : PT ISPAT RAKE 02

Prepared by : SONYSHARMA
Preparation Date : 17.05.202222:36:29
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000036970

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 1

Process of Manufacture : BF->BOF/NOF->LRF->VD->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 : CHQ22A			Supply Size in mm : 150 mm X 150 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
A22299C	A22299C09A	140	227.240	0.205	0.75	0.002	0.014	0.080	0.033	0.002	0.013	0.017	0.0010	0.0010	0.0020	0.0010	0.0013	0.0003		56		0.3348
A22301C	A22301C09A	131	212.750	0.190	0.72	0.003	0.012	0.072	0.031	0.003	0.013	0.016	0.0020	0.0010	0.0020	0.0020	0.0023	0.0003		59		0.3149
B24034C	B24034C09A	107	173.772	0.195	0.73	0.002	0.014	0.070	0.032	0.003	0.013	0.024	0.0020	0.0010	0.0010	0.0010	0.0022	0.0003		55		0.3231
B24030C	B24030C09A	121	196.509	0.214	0.75	0.002	0.013	0.082	0.028	0.004	0.014	0.015	0.0010	0.0010	0.0010	0.0010	0.0013	0.0002		57		0.3436
G Total		499	810.271																			

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

Heat No.	Macro Etch Test(As Per E-381)
A22299C	Satisfactory Better Than C2 R2 S2
A22301C	Satisfactory Better Than C2 R2 S2
B24034C	Satisfactory Better Than C2 R2 S2
B24030C	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62135751

Truck/Wagon No : PT ISPAT RAKE NO 02

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 10:28:58
Printing Date : 09.06.2022 & Time 12:21:07


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



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
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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/0000036947

Date : 17.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 1

Process of Manufacture : BF->BOF/NOF->LRF->VD->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 : CHQ8A		Supply Size in mm : 150 mm X 150 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
B24040C	B24040C09A	92	149.389	0.066	0.44	0.003	0.011	0.075	0.029	0.003	0.014	0.015	0.0010	0.0010	0.0010	0.0010	0.0024	0.0002		59		0.1439
B24048C	B24048C09A	104	168.874	0.068	0.45	0.003	0.016	0.100	0.041	0.004	0.016	0.020	0.0010	0.0010	0.0020	0.0010	0.0011	0.0003		53		0.1487
B24041C	B24041C09A	114	185.112	0.069	0.41	0.003	0.012	0.078	0.029	0.004	0.015	0.012	0.0010	0.0010	0.0010	0.0010	0.0018	0.0002		59		0.1414
B24046C	B24046C09A	90	146.141	0.062	0.42	0.003	0.010	0.095	0.030	0.004	0.015	0.009	0.0010	0.0010	0.0020	0.0010	0.0019	0.0003		56		0.1355
G Total		400	649.516																			

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

Heat No.	Macro Etch Test(As Per E-381)
B24040C	Satisfactory Better Than C2 R2 S2
B24048C	Satisfactory Better Than C2 R2 S2
B24041C	Satisfactory Better Than C2 R2 S2
B24046C	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62135752

Truck/Wagon No : PT ISPAT RAKE 02

Prepared by : SONYSHARMA
Preparation Date : 17.05.2022 22:34:04
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000036949

Date : 17.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 1

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 : HC-72B		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
B24092A	B24092A9A	76	150.137	0.705	0.66	0.008	0.017	0.190	0.003	0.004	0.017	0.018	0.0010	0.0010	0.0020	0.0010	0.0012	0.0004		57		0.8204
B24090A	B24090A9A	91	179.769	0.707	0.65	0.013	0.019	0.195	0.004	0.003	0.016	0.019	0.0010	0.0010	0.0020	0.0010		0.0003		58		0.8208
B24094A	B24094A9A	78	153.770	0.710	0.66	0.007	0.020	0.200	0.005	0.004	0.015	0.018	0.0010	0.0010	0.0020	0.0010	0.0014	0.0003		58		0.8253
B24102A	B24102A9A	43	84.946	0.710	0.66	0.010	0.014	0.160	0.005	0.003	0.017	0.016	0.0010	0.0010	0.0030	0.0010	0.0020	0.0003		64		0.8249
G Total		288	568.622																			

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

Heat No.	Macro Etch Test(As Per E-381)
B24092A	Satisfactory Better Than C2 R2 S2
B24090A	Satisfactory Better Than C2 R2 S2
B24094A	Satisfactory Better Than C2 R2 S2
B24102A	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62135753

Truck/Wagon No : PT ISPAT RAKE 02

Prepared by : SONYSHARMA
Preparation Date : 17.05.2022 22:40:59
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000036976

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 4

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
B23955C	B23955C09A	122	244.163	0.056	0.42	0.005	0.011	0.017	0.006	0.002	0.012	0.014	0.0010	0.0010	0.0010	0.0010	0.0020	0.0003		65		0.1301
B23906C	B23906C09A	13	26.017	0.050	0.40	0.005	0.015	0.021	0.003	0.002	0.014	0.016	0.0010	0.0010	0.0020	0.0010	0.0018	0.0002		54		0.1213
B23953C	B23953C09A	86	172.115	0.054	0.41	0.005	0.016	0.024	0.005	0.002	0.012	0.020	0.0010	0.0010	0.0010	0.0010	0.0030	0.0002		61		0.1277
B23951C	B23951C09A	44	73.657	0.053	0.41	0.003	0.013	0.024	0.005	0.003	0.012	0.016	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		59		0.1259
B23908C	B23908C09A	40	80.054	0.051	0.41	0.004	0.011	0.019	0.007	0.002	0.014	0.013	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		57		0.1234
B23960C	B23960C09A	11	22.014	0.061	0.42	0.005	0.015	0.024	0.005	0.003	0.013	0.014	0.0010	0.0010	0.0010	0.0010	0.0020	0.0002		58		0.1353
B23968C	B23968C09A	63	126.084	0.051	0.41	0.003	0.015	0.019	0.004	0.007	0.015	0.018	0.0010	0.0010	0.0010	0.0010	0.0014	0.0003		61		0.1248

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62135861
Truck/Wagon No : PT ISPAT RAKE NO 02

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 12:37:41
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000036976

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 2 of 4

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.

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
B23972C	B23972C09A	60	119.213	0.051	0.39	0.003	0.010	0.021	0.010	0.004	0.013	0.010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0003		62		0.1195
B23933C	B23933C09A	40	80.054	0.057	0.42	0.003	0.013	0.019	0.010	0.002	0.015	0.015	0.0020	0.0010	0.0010	0.0010	0.0020	0.0003		60		0.1317
B23934C	B23934C09A	50	99.687	0.058	0.42	0.003	0.016	0.020	0.007	0.003	0.015	0.015	0.0020	0.0010	0.0010	0.0010	0.0021	0.0003		63		0.1328
B23904C	B23904C09A	40	80.054	0.056	0.42	0.006	0.013	0.025	0.004	0.003	0.014	0.017	0.0010	0.0010	0.0010	0.0010	0.0025	0.0003		59		0.1309
B23962C	B23962C09A	2	4.003	0.061	0.47	0.007	0.014	0.021	0.003	0.004	0.013	0.017	0.0010	0.0010	0.0010	0.0010	0.0020	0.0003		58		0.1443

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62135861
Truck/Wagon No : PT ISPAT RAKE NO 02

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 12:37:41
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000036976

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 3 of 4

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.

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
B23927C	B23927C09A	13	25.575	0.055	0.43	0.004	0.012	0.270	0.003	0.004	0.013	0.018	0.0020	0.0020	0.0010	0.0010	0.0025	0.0003		61		0.1322
B23944C	B23944C09A	8	16.010	0.057	0.40	0.003	0.012	0.021	0.005	0.006	0.016	0.020	0.0010	0.0010	0.0010	0.0010	0.0016	0.0002		59		0.1295
B23945C	B23945C09A	5	10.006	0.058	0.41	0.003	0.012	0.026	0.006	0.003	0.013	0.018	0.0010	0.0010	0.0010	0.0010	0.0021	0.0002		62		0.1314
G Total		597	1178.706																			

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

Heat No.	Macro Etch Test(As Per E-381)
B23955C	Satisfactory Better Than C2 R2 S2
B23906C	Satisfactory Better Than C2 R2 S2
B23953C	Satisfactory Better Than C2 R2 S2
B23951C	Satisfactory Better Than C2 R2 S2
B23908C	Satisfactory Better Than C2 R2 S2
B23960C	Satisfactory Better Than C2 R2 S2
B23968C	Satisfactory Better Than C2 R2 S2

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62135861
Truck/Wagon No : PT ISPAT RAKE NO 02

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 12:37:41
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000036976

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 4 of 4

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.

B23972C	Satisfactory Better Than C2 R2 S2
B23933C	Satisfactory Better Than C2 R2 S2
B23934C	Satisfactory Better Than C2 R2 S2
B23904C	Satisfactory Better Than C2 R2 S2
B23962C	Satisfactory Better Than C2 R2 S2
B23927C	Satisfactory Better Than C2 R2 S2
B23944C	Satisfactory Better Than C2 R2 S2
B23945C	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62135861

Truck/Wagon No : PT ISPAT RAKE NO 02

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 12:37:41
Printing Date : 09.06.2022 & Time 12:21:07


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



JINDAL STEEL & POWER LIMITED
Works : CHHENDIPADA ROAD,SH-63, AT/PO-JINDAL NAGAR, DIST-ANGUL,ODISHA, 759111 INDIA
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PHONE : (06761) 264191-95, FAX: +916761 264341-51

TEST CERTIFICATE
TEST CERTIFICATE FOR CARBON STEEL CAST BILLETS

Test Certificate No. JSPL/ANGL/0000037021

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 5

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
B23958C	B23958C09A	10	19.879	0.051	0.42	0.002	0.012	0.028	0.005	0.005	0.015	0.015	0.0010	0.0010	0.0010	0.0010	0.0020	0.0002		58		0.1257
B23906C	B23906C09A	89	176.925	0.050	0.40	0.005	0.015	0.021	0.003	0.002	0.014	0.016	0.0010	0.0010	0.0020	0.0010	0.0018	0.0002		54		0.1213
B23979C	B23979C09A	80	159.033	0.059	0.41	0.003	0.011	0.021	0.004	0.003	0.014	0.017	0.0010	0.0010	0.0010	0.0010	0.0020	0.0003		65		0.1323
B23949C	B23949C09A	99	196.804	0.051	0.40	0.003	0.010	0.021	0.004	0.004	0.013	0.016	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		65		0.1224
B23960C	B23960C09A	81	161.021	0.061	0.42	0.005	0.015	0.024	0.005	0.003	0.013	0.014	0.0010	0.0010	0.0010	0.0010	0.0020	0.0002		58		0.1353
B23922C	B23922C09A	53	105.359	0.053	0.40	0.004	0.013	0.022	0.006	0.003	0.013	0.015	0.0010	0.0010	0.0020	0.0010	0.0025	0.0002		64		0.1241
B23934C	B23934C09A	37	73.553	0.058	0.42	0.003	0.016	0.020	0.007	0.003	0.015	0.015	0.0020	0.0010	0.0010	0.0010	0.0021	0.0003		63		0.1328

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62136065
Truck/Wagon No : PT ISPAT RAKE NO 03

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 11:52:44
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000037021

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 2 of 5

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.

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
B23951C	B23951C09A	60	99.767	0.053	0.41	0.003	0.013	0.024	0.005	0.003	0.012	0.016	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		59		0.1259
B23910C	B23910C10E	14	27.831	0.052	0.43	0.003	0.011	0.024	0.006	0.002	0.014	0.012	0.0010	0.0010	0.0010	0.0010	0.0028	0.0002		58		0.1275
B23933C	B23933C09A	47	93.432	0.057	0.42	0.003	0.013	0.019	0.010	0.002	0.015	0.015	0.0020	0.0010	0.0010	0.0010	0.0020	0.0003		60		0.1317
B23911C	B23911C10E	23	45.722	0.047	0.40	0.004	0.011	0.018	0.004	0.003	0.013	0.015	0.0010	0.0010	0.0010	0.0010	0.0020	0.0002		62		0.1181
B23901C	B23901C09A	32	63.614	0.058	0.40	0.006	0.013	0.025	0.004	0.002	0.014	0.016	0.0010	0.0010	0.0010	0.0010	0.0027	0.0002		61		0.1293

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62136065
Truck/Wagon No : PT ISPAT RAKE NO 03

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 11:52:44
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000037021

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 3 of 5

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.

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
B23908C	B23908C09A	32	63.614	0.051	0.41	0.004	0.011	0.019	0.007	0.002	0.014	0.013	0.0010	0.0010	0.0010	0.0010	0.0023	0.0002		57		0.1234
B23953C	B23953C09A	40	79.517	0.054	0.41	0.005	0.016	0.024	0.005	0.002	0.012	0.020	0.0010	0.0010	0.0010	0.0010	0.0030	0.0002		61		0.1277
B23962C	B23962C09A	6	11.927	0.061	0.47	0.007	0.014	0.021	0.003	0.004	0.013	0.017	0.0010	0.0010	0.0010	0.0010	0.0020	0.0003		58		0.1443
B23930C	B23930C09A	29	57.650	0.056	0.39	0.009	0.012	0.018	0.003	0.003	0.014	0.016	0.0020	0.0010	0.0010	0.0010	0.0017	0.0003		60		0.1259
B23944C	B23944C09A	9	17.892	0.057	0.40	0.003	0.012	0.021	0.005	0.006	0.016	0.020	0.0010	0.0010	0.0010	0.0010	0.0016	0.0002		59		0.1295
B23945C	B23945C09A	23	45.722	0.058	0.41	0.003	0.012	0.026	0.006	0.003	0.013	0.018	0.0010	0.0010	0.0010	0.0010	0.0021	0.0002		62		0.1314
B23904C	B23904C09A	20	39.758	0.056	0.42	0.006	0.013	0.025	0.004	0.003	0.014	0.017	0.0010	0.0010	0.0010	0.0010	0.0025	0.0003		59		0.1309
B23955C	B23955C09A	6	11.927	0.056	0.42	0.005	0.011	0.017	0.006	0.002	0.012	0.014	0.0010	0.0010	0.0010	0.0010	0.0020	0.0003		65		0.1301

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62136065
Truck/Wagon No : PT ISPAT RAKE NO 03

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 11:52:44
Printing Date : 09.06.2022 & Time 12:21:07


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



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/0000037021

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 4 of 5

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.

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
B23972C	B23972C09A	3	5.964	0.051	0.39	0.003	0.010	0.021	0.010	0.004	0.013	0.010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0003		62		0.1195
B23968C	B23968C09A	1	1.989	0.051	0.41	0.003	0.015	0.019	0.004	0.007	0.015	0.018	0.0010	0.0010	0.0010	0.0010	0.0014	0.0003		61		0.1248
G Total		794	1558.900																			

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

Heat No.	Macro Etch Test(As Per E-381)
B23958C	Satisfactory Better Than C2 R2 S2
B23906C	Satisfactory Better Than C2 R2 S2
B23979C	Satisfactory Better Than C2 R2 S2
B23949C	Satisfactory Better Than C2 R2 S2
B23960C	Satisfactory Better Than C2 R2 S2
B23922C	Satisfactory Better Than C2 R2 S2
B23934C	Satisfactory Better Than C2 R2 S2
B23951C	Satisfactory Better Than C2 R2 S2
B23910C	Satisfactory Better Than C2 R2 S2

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62136065
Truck/Wagon No : PT ISPAT RAKE NO 03

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 11:52:44
Printing Date : 09.06.2022 & Time 12:21:07


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



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

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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/0000037021

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 5 of 5

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.

B23933C	Satisfactory Better Than C2 R2 S2
B23911C	Satisfactory Better Than C2 R2 S2
B23901C	Satisfactory Better Than C2 R2 S2
B23908C	Satisfactory Better Than C2 R2 S2
B23953C	Satisfactory Better Than C2 R2 S2
B23962C	Satisfactory Better Than C2 R2 S2
B23930C	Satisfactory Better Than C2 R2 S2
B23944C	Satisfactory Better Than C2 R2 S2
B23945C	Satisfactory Better Than C2 R2 S2
B23904C	Satisfactory Better Than C2 R2 S2
B23955C	Satisfactory Better Than C2 R2 S2
B23972C	Satisfactory Better Than C2 R2 S2
B23968C	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62136065

Truck/Wagon No : PT ISPAT RAKE NO 03

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 15:52:44
Printing Date : 09.06.2022 & Time 12:21:07


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



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

TEST CERTIFICATE
TEST CERTIFICATE FOR CARBON STEEL CAST BILLETS

Test Certificate No. JSPL/ANGL/0000037016

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 2

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 : 30MNSI			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
B23853C	B23853C09A	36	71.565	0.290	1.07	0.008	0.020	0.820	0.004	0.003	0.012	0.018	0.0010	0.0020	0.0030	0.0010	0.0020	0.0006		66		0.4735
B23857C	B23857C09A	85	168.973	0.300	1.06	0.008	0.015	0.810	0.005	0.003	0.013	0.016	0.0010	0.0020	0.0030	0.0010	0.0020	0.0006		63		0.4815
B23855C	B23855C09A	21	41.746	0.290	1.04	0.010	0.016	0.800	0.003	0.004	0.013	0.014	0.0010	0.0020	0.0030	0.0010	0.0011	0.0006		62		0.4679
B23861C	B23861C09A	10	19.879	0.300	1.06	0.009	0.018	0.787	0.006	0.006	0.015	0.019	0.0010	0.0020	0.0030	0.0010	0.0015	0.0003		55		0.4825
B23862C	B23862C09A	16	31.806	0.317	1.07	0.015	0.013	0.800	0.004	0.003	0.012	0.010	0.0010	0.0020	0.0030	0.0010	0.0016	0.0003		57		0.4989
B23859C	B23859C09A	10	19.879	0.295	1.07	0.009	0.022	0.780	0.003	0.004	0.013	0.020	0.0010	0.0020	0.0030	0.0010	0.0016	0.0003		64		0.4791
G Total		178	353.848																			

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

Heat No.	Macro Etch Test(As Per E-381)

Purchase Order No : PROV/EXP/BLT/22002
Date : 27.04.2022
Despatch Advice No : 62136066
Truck/Wagon No : PT ISPAT RAKE NO 03

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 11:52
Printing Date : 09.06.2022 & Time 12:21:07


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



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

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

TEST CERTIFICATE TEST CERTIFICATE FOR CARBON STEEL CAST BILLETS

Test Certificate No. JSPL/ANGL/0000037016

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGTURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 2 of 2

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.

B23853C	Satisfactory Better Than C2 R2 S2
B23857C	Satisfactory Better Than C2 R2 S2
B23855C	Satisfactory Better Than C2 R2 S2
B23861C	Satisfactory Better Than C2 R2 S2
B23862C	Satisfactory Better Than C2 R2 S2
B23859C	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62136066

Truck/Wagon No : PT ISPAT RAKE NO 03

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 11:52
Printing Date : 09.06.2022 & Time 12:21:07


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



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

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TEST CERTIFICATE TEST CERTIFICATE FOR CARBON STEEL CAST BILLETS

Test Certificate No. JSPL/ANGL/0000037017

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 1

Process of Manufacture : BF->BOF/NOF->LRF->VD->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 : CHQ22A			Supply Size in mm : 150 mm X 150 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
B24034C	B24034C09A	37	61.523	0.195	0.73	0.002	0.014	0.070	0.032	0.003	0.013	0.024	0.0020	0.0010	0.0010	0.0010	0.0022	0.0003		55		0.3231
A22301C	A22301C09A	2	3.326	0.190	0.72	0.003	0.012	0.072	0.031	0.003	0.013	0.016	0.0020	0.0010	0.0020	0.0020	0.0023	0.0003		59		0.3149
G Total		39	64.849																			

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

Heat No.	Macro Etch Test(As Per E-381)
B24034C	Satisfactory Better Than C2 R2 S2
A22301C	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62136067

Truck/Wagon No : PT ISPAT RAKE NO 03

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 12:01
Printing Date : 09.06.2022 & Time 12:21:07


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



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
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TEST CERTIFICATE
TEST CERTIFICATE FOR CARBON STEEL CAST BILLETS

Test Certificate No. JSPL/ANGL/0000037018

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 1

Process of Manufacture : BF->BOF/NOF->LRF->VD->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 : CHQ8A		Supply Size in mm : 150 mm X 150 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
B24040C	B24040C09A	32	53.209	0.066	0.44	0.003	0.011	0.075	0.029	0.003	0.014	0.015	0.0010	0.0010	0.0010	0.0010	0.0024	0.0002		59		0.1439
B24046C	B24046C09A	14	23.279	0.062	0.42	0.003	0.010	0.095	0.030	0.004	0.015	0.009	0.0010	0.0010	0.0020	0.0010	0.0019	0.0003		56		0.1355
B24048C	B24048C09A	22	36.582	0.068	0.45	0.003	0.016	0.100	0.041	0.004	0.016	0.020	0.0010	0.0010	0.0020	0.0010	0.0011	0.0003		53		0.1487
B24041C	B24041C09A	3	4.989	0.069	0.41	0.003	0.012	0.078	0.029	0.004	0.015	0.012	0.0010	0.0010	0.0010	0.0010	0.0018	0.0002		59		0.1414
G Total		71	118.059																			

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

Heat No.	Macro Etch Test(As Per E-381)
B24040C	Satisfactory Better Than C2 R2 S2
B24046C	Satisfactory Better Than C2 R2 S2
B24048C	Satisfactory Better Than C2 R2 S2
B24041C	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62136068

Truck/Wagon No : PT ISPAT RAKE NO 03

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 12:09
Printing Date : 09.06.2022 & Time 12:21:07


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



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
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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/0000037019

Date : 18.05.2022

To, M/s PT.ISPAT INDO DESA KEDUNGURI TAMAN,SIDOARJO,SURABAYA,,JAWA,TIMUR,
PIN-00000,Timor Timur East Tim

Page 1 of 1

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 : HC-72B			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
B24102A	B24102A9A	47	93.432	0.710	0.66	0.010	0.014	0.160	0.005	0.003	0.017	0.016	0.0010	0.0010	0.0030	0.0010	0.0020	0.0003		64		0.8249
B24094A	B24094A9A	48	95.420	0.710	0.66	0.007	0.020	0.200	0.005	0.004	0.015	0.018	0.0010	0.0010	0.0020	0.0010	0.0014	0.0003		58		0.8253
B24092A	B24092A9A	32	63.614	0.705	0.66	0.008	0.017	0.190	0.003	0.004	0.017	0.018	0.0010	0.0010	0.0020	0.0010	0.0012	0.0004		57		0.8204
G Total		127	252.466																			

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

Heat No.	Macro Etch Test(As Per E-381)
B24102A	Satisfactory Better Than C2 R2 S2
B24094A	Satisfactory Better Than C2 R2 S2
B24092A	Satisfactory Better Than C2 R2 S2

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

Purchase Order No : PROV/EXP/BLT/22002

Date : 27.04.2022

Despatch Advice No : 62136069

Truck/Wagon No : PT ISPAT RAKE NO 03

Prepared by : SONYSHARMA
Preparation Date : 18.05.2022 12:12:18
Printing Date : 09.06.2022 & Time 12:21:07


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