



Vijayanagar Works, PO: Vidyanagar, Village : Tornagallu, Dist: Bellary, Karnataka-583275, INDIA
 Regd. Office: JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai-400051.

MILL TEST/INSPECTION CERTIFICATE (According to EN 10204 - 3.1)

TO,
 SALZGITTER MANNESMANN INTER GM
 DUSSELDORF, 40476
 DE

TC No 2018-19 / 0400910516 _ 20 / 7020005423
 Date 29.11.2018

Product: Hot rolled steel coils							Chemical Composition & Mechanical Properties															Remarks							
Cast/Heat No.	Coil No.	T	X	W	X	L	Net Wt.	Gross Wt.	C	Mn	S	P	Si	Al	Cr	Ni	Cu	Nb	Mo	V	Ti		B	Ca	N	CE Lng	YS	UTS	
							MIN	MAX	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	MPa	MPa		
Specification: EN 10149_2_2005 S355MC							----->	----->	-	-	-	-	-	0.0150	-	-	-	-	-	-	-	-	-	-	-	-	-	355	430
							----->	----->	0.1200	1.500	0.0200	0.025	0.030	-	-	-	-	0.090	-	-	-	0.1500	-	-	-	-	-	-	550
E766937	18664660	20.000	X	1500.0	X	Coil	28.310	28.320	0.076	1.020	0.008	0.015	0.007	0.038	0.021	0.007	0.006	0.028	0.001	0.001	0.015	0.0001	0.0001	0.0039	0.251	407	509		
E766937	18664665	20.000	X	1500.0	X	Coil	28.795	28.805	0.076	1.020	0.008	0.015	0.007	0.038	0.021	0.007	0.006	0.028	0.001	0.001	0.015	0.0001	0.0001	0.0039	0.251	407	509		
E766937	18664666	20.000	X	1500.0	X	Coil	28.420	28.430	0.076	1.020	0.008	0.015	0.007	0.038	0.021	0.007	0.006	0.028	0.001	0.001	0.015	0.0001	0.0001	0.0039	0.251	407	509		
G766945	18664668	20.000	X	1500.0	X	Coil	28.795	28.805	0.082	1.000	0.007	0.010	0.012	0.032	0.021	0.007	0.006	0.027	0.001	0.002	0.016	0.0001	0.0001	0.0038	0.254	391	507		
F766935	18664669	20.000	X	1500.0	X	Coil	28.525	28.535	0.074	1.000	0.005	0.017	0.013	0.034	0.022	0.006	0.006	0.027	0.001	0.002	0.014	0.0001	0.0001	0.0044	0.246	398	504		
F766935	18664672	20.000	X	1500.0	X	Coil	28.865	28.875	0.074	1.000	0.005	0.017	0.013	0.034	0.022	0.006	0.006	0.027	0.001	0.002	0.014	0.0001	0.0001	0.0044	0.246	398	504		
F766935	18664674	20.000	X	1500.0	X	Coil	28.330	28.340	0.074	1.000	0.005	0.017	0.013	0.034	0.022	0.006	0.006	0.027	0.001	0.002	0.014	0.0001	0.0001	0.0044	0.246	398	504		
F766935	18664675	20.000	X	1500.0	X	Coil	28.830	28.840	0.074	1.000	0.005	0.017	0.013	0.034	0.022	0.006	0.006	0.027	0.001	0.002	0.014	0.0001	0.0001	0.0044	0.246	398	504		
F766935	18664677	20.000	X	1500.0	X	Coil	28.915	28.925	0.074	1.000	0.005	0.017	0.013	0.034	0.022	0.006	0.006	0.027	0.001	0.002	0.014	0.0001	0.0001	0.0044	0.246	398	504		
E766937	18664678	20.000	X	1500.0	X	Coil	28.905	28.915	0.076	1.020	0.008	0.015	0.007	0.038	0.021	0.007	0.006	0.028	0.001	0.001	0.015	0.0001	0.0001	0.0039	0.251	407	509		
F766935	18667835	20.000	X	1500.0	X	Coil	28.805	28.815	0.074	1.000	0.005	0.017	0.013	0.034	0.022	0.006	0.006	0.027	0.001	0.002	0.014	0.0001	0.0001	0.0044	0.246	387	503		
Total Weight in Metric Tonnes							315.495	315.605																					
Total no of Batches							11																						



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TO,
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DUSSELDORF, 40476
DE

TC No 2018-19 / 0400910516 _ 20 / 7020005423
Date 29.11.2018

We hereby certify that the material described herein have been tested and inspected with satisfactory results in accordance with the requirements of the above specification.

This is to certify that the above mentioned product produced & supplied by JSW Steel Ltd do not contain any radio active element higher than the natural level

The product or packing material does not contain any hazardous substances as per ROHS

Commercial Invoice : 7020005423
Sales Contract Number : 2190
Product: : PRIME HOT ROLLED COILS
with Mill Edge
Process Route :

legend: BOF = Basic Oxygen Furnace, LHF = Ladle Heating Furnace,
CCM = Continuous Casting Machine, RH = RH Degasser
HSM = Hot Strip Mill, HRS = HR Slitters, CTL = Cut to Length
NP = No of Pcs

T x W x L = Thickens x Width x Length,
Chemistry = Ladle Sample Analysis, IMPa = 1N/mm²,
YS = Yield Strength,
UTS = Ultimate Tensile Strength,
EL = %ge Elongation on Standard Gauge Length
CE = [C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15], Direction L = Longitudinal, T =
Transverse

Certified By



STEEL LIMITED

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Product: Hot rolled steel coils

Chemical Composition & Mechanical Properties

			EL %	GL mm	Ten Dir	Bnd Rad	Bnd Res	Bnd Dir	IT 1 Joule	IT 2 Joule	IT 3 Joule	IT Avg Joule	IT Dir	IT Temp °C
Specification: EN 10149_2_2005 S355MC	MIN	----->	23.00	-	-	0.5T	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-
	MAX	----->												

Cast/Heat No.	Coil No.	T X W X L (mm)	Net Wt.	Gross Wt.	EL %	GL mm	Ten Dir	Bnd Rad	Bnd Res	Bnd Dir	IT 1 Joule	IT 2 Joule	IT 3 Joule	IT Avg Joule	IT Dir	IT Temp °C	Remarks
E766937	18664660	20.000 X 1500.0 X Coil	28.310	28.320	25.00	5.65 SA	L	0.5T	Pass	T	269	299	223	263	L	-20	
E766937	18664665	20.000 X 1500.0 X Coil	28.795	28.805	25.00	5.65 SA	L	0.5T	Pass	T	269	299	223	263	L	-20	
E766937	18664666	20.000 X 1500.0 X Coil	28.420	28.430	25.00	5.65 SA	L	0.5T	Pass	T	269	299	223	263	L	-20	
G766945	18664668	20.000 X 1500.0 X Coil	28.795	28.805	27.00	5.65 SA	L	0.5T	Pass	T	98	105	111	104	L	-20	
F766935	18664669	20.000 X 1500.0 X Coil	28.525	28.535	29.00	5.65 SA	L	0.5T	Pass	T	253	271	232	252	L	-20	
F766935	18664672	20.000 X 1500.0 X Coil	28.865	28.875	29.00	5.65 SA	L	0.5T	Pass	T	253	271	232	252	L	-20	
F766935	18664674	20.000 X 1500.0 X Coil	28.330	28.340	29.00	5.65 SA	L	0.5T	Pass	T	253	271	232	252	L	-20	
F766935	18664675	20.000 X 1500.0 X Coil	28.830	28.840	29.00	5.65 SA	L	0.5T	Pass	T	253	271	232	252	L	-20	
F766935	18664677	20.000 X 1500.0 X Coil	28.915	28.925	29.00	5.65 SA	L	0.5T	Pass	T	253	271	232	252	L	-20	
E766937	18664678	20.000 X 1500.0 X Coil	28.905	28.915	25.00	5.65 SA	L	0.5T	Pass	T	269	299	223	263	L	-20	
F766935	18667835	20.000 X 1500.0 X Coil	28.805	28.815	27.00	5.65 SA	L	0.5T	Pass	T	65	67	70	67	L	-20	

Total Weight in Metric Tonnes

315.495

315.605

Total no of Batches

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