



STEEL LIMITED

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

MILL TEST CERTIFICATE (According to EN 10204 - 3.1)

TO,
 SALZGITTER MANNESMANN INTER GM
 DUSSELDORF, 40476
 DE
 TC No 2017-18 / 0400648966_21 / 7190003441
 Date 30.06.2017

Product: Hot Rolled Pickled and/or Oiled

Cast/Heat No.	Coil No.	T	X	W	X	L	MIN		MAX		Chemical Composition & Mechanical Properties													Bend Test	Remarks
							Net Wt.	Gross Wt.	C	Mn	S	P	Si	Al	B	N	YS	UTS	EL	GL	Bend Test				
Specification : EN 10149_2_2005 S355MC																									
G715176	7628290000	4.000	X	1500.0	X	Coil	28.685	28.775	0.083	0.600	0.005	0.011	0.010	0.050	0.0001	0.0046	399	486	37.00	5.65 SA	Pass				
F715170	7628090000	4.000	X	1500.0	X	Coil	28.825	28.920	0.077	0.610	0.005	0.015	0.009	0.048	0.0001	0.0040	391	480	31.00	5.65 SA	Pass				
F715170	7626420000	4.000	X	1500.0	X	Coil	28.795	28.880	0.077	0.610	0.005	0.015	0.009	0.048	0.0001	0.0040	391	480	31.00	5.65 SA	Pass				
F715170	176531410	4.000	X	1500.0	X	Coil	25.975	26.065	0.077	0.610	0.005	0.015	0.009	0.048	0.0001	0.0040	391	480	31.00	5.65 SA	Pass				
F715166	176531405	4.000	X	1500.0	X	Coil	26.060	26.150	0.077	0.600	0.005	0.012	0.010	0.046	0.0001	0.0045	426	498	37.00	5.65 SA	Pass				
G715176	176531367	4.000	X	1500.0	X	Coil	26.075	26.170	0.083	0.600	0.005	0.011	0.010	0.050	0.0001	0.0046	412	491	31.00	5.65 SA	Pass				
F715166	176531366	4.000	X	1500.0	X	Coil	27.505	27.605	0.077	0.600	0.005	0.012	0.010	0.046	0.0001	0.0045	426	498	37.00	5.65 SA	Pass				
F715161	176531358	4.000	X	1500.0	X	Coil	26.095	26.170	0.088	0.650	0.005	0.012	0.006	0.040	0.0001	0.0052	392	487	36.00	5.65 SA	Pass				
Total Weight in Metric Tonnes							212.015	212.735																	
Total no of Batches																		8							



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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

<p>Commercial Invoice : 7190003441 Sales Contract Number : 3009 Product: : HOT ROLLED STEEL COILS, PICKLED AND OILED with MUI Edge Process Route : BOF-LHF-CCM-RSM-CPL-APL</p>	<p>Legend: BOF = Basic Oxygen Furnace, LHF = Ladle Heating Furnace, CCM = Continuous Casting Machine, HSM = Hot Strip Mill, CPL = Continuous Pickling Line, ORM = Cold Rolling Mill, ECL = Electrolytic Cleaning Line, BAF = Batch Annealing Furnace, SPM = Skin Pass Mill, RCL = Recoiling Cum Inspection Line, APL = Automatic Packaging Line, PLTCM = Pickling Cum Tandem Mill, CGL = Continuous Galvanizing Line CAL = Continuous Annealing Line, CTL = Cut to Length, HRS = HR Slitters, HTL = HR Cut to Length</p>	<p>T x W x T = Thickness x Width x Length, Chemistry = Ladle Sample Analysis, IMPa = IN/mm2, YS = Yield Strength, UTS = Ultimate Tensile Strength, EL = % Elongation on Standard Gauge Length GSM = Grams per Square Meter Oil Type : Q</p>		<p>Certified By <i>A. Jindal</i> CAVISH JINDAL</p>
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