



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_31 / 7190003441
 Date 30.06.2017

Product: Hot Rolled Pickled and/or Oiled										Chemical Composition & Mechanical Properties														
Cast/Heat No.	Coil No.	T	X	W	X	L	L	MIN	MAX	C	Mn	S	P	Si	Al	B	N	YS	UTS	EL	GL	Bend Test	Remarks	
																								MPa
Specification : EN 10149_2_2005 S355MC																								
G715176	7629730000	5.000	X	1500.0	X	Coil	28.770	28.670	0.083	0.600	0.005	0.011	0.010	0.010	0.050	0.0001	0.0046	408	492	33.00		Pass		
F715154	176831285	5.000	X	1500.0	X	Coil	25.805	25.720	0.080	0.630	0.005	0.013	0.007	0.044	0.0001	0.0034	400	477	37.00	5.65 SA		Pass		
G715176	176831303	5.000	X	1500.0	X	Coil	27.270	27.180	0.083	0.600	0.005	0.011	0.010	0.050	0.0001	0.0046	409	495	31.00	5.65 SA		Pass		
F715154	7627270000	5.000	X	1500.0	X	Coil	28.975	28.880	0.080	0.630	0.005	0.013	0.007	0.044	0.0001	0.0034	376	475	33.00			Pass		
G715176	7627260000	5.000	X	1500.0	X	Coil	28.710	28.605	0.083	0.600	0.005	0.011	0.010	0.050	0.0001	0.0046	416	495	34.00			Pass		
E715180	7627240000	5.000	X	1500.0	X	Coil	28.755	28.655	0.088	0.600	0.005	0.011	0.005	0.050	0.0001	0.0051	388	490	32.00	5.65 SA		Pass		
E715180	7626600000	5.000	X	1500.0	X	Coil	25.275	25.185	0.088	0.600	0.005	0.011	0.005	0.050	0.0001	0.0051	388	490	32.00	5.65 SA		Pass		
E715180	7624910000	5.000	X	1500.0	X	Coil	25.410	25.325	0.088	0.600	0.005	0.011	0.005	0.050	0.0001	0.0051	388	490	32.00			Pass		
F715170	7624640000	5.000	X	1500.0	X	Coil	28.820	28.735	0.077	0.610	0.005	0.015	0.009	0.048	0.0001	0.0040	392	484	33.00			Pass		
E715180	176831381	5.000	X	1500.0	X	Coil	23.640	23.550	0.088	0.600	0.005	0.011	0.005	0.050	0.0001	0.0051	388	490	32.00	5.65 SA		Pass		
Total Weight in Metric Tonnes							270.505																	
Total no of Batches							10																	



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_31 / 7190003441
Date 30.06.2017

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 : 309 Product: HOT ROLLED STEEL COILS, PICKLED AND OILED with Mill Edge Process Route : BOF-LHF-CCM-HSM-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, CRM = 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, CTL = 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, MPa = N/mm², YS = Yield Strength, UTS = Ultimate Tensile Strength, EL = %age Elongation on Standard Gauge Length GSM = Grams per Square Meter Oil Type : Q</p>		<p>Certified By: <i>Avinash Jindal</i> CAVINESH JINDAL</p>
--	--	---	--	--