



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_41 / 7190003441
 Date 30.06.2017

Product: Hot Rolled Pickled and/or Oiled										Chemical Composition & Mechanical Properties										Bend Test	Remarks
Cast/Heat No.	Coil No.	T	X	W	X	L	L	C	Mn	S	P	Si	Al	B	N	YS MPa	UTS MPa	EL %	GL mm		
																				MIN	MAX
Specification : EN 10149_2_2005 S355MC																					
F715170	7624900000	6000	X	1500.0	X	Coil	28.585	0.077	0.610	0.005	0.015	0.009	0.048	0.0001	0.0040	402	480	33.00			Pass
F715154	176531307	6000	X	1500.0	X	Coil	25.880	0.080	0.630	0.005	0.013	0.007	0.044	0.0001	0.0034	376	471	34.00	5.65 SA		Pass
D708836	7612420000	6000	X	1500.0	X	Coil	25.410	0.080	0.600	0.005	0.015	0.020	0.049	0.0001	0.0058	406	483	30.00			Pass
E715180	176531306	6000	X	1500.0	X	Coil	24.260	0.088	0.600	0.005	0.011	0.005	0.030	0.0001	0.0051	415	489	33.00	5.65 SA		Pass
G715176	176531305	6000	X	1500.0	X	Coil	27.755	0.083	0.600	0.005	0.011	0.010	0.050	0.0001	0.0046	398	489	31.00	5.65 SA		Pass
G715153	176531304	6000	X	1500.0	X	Coil	27.875	0.074	0.590	0.005	0.012	0.008	0.048	0.0001	0.0041	399	475	33.00	5.65 SA		Pass
F715154	176531313	6000	X	1500.0	X	Coil	24.490	0.080	0.630	0.005	0.013	0.007	0.044	0.0001	0.0034	398	483	34.00	5.65 SA		Pass
F715161	176531316	6000	X	1500.0	X	Coil	23.670	0.088	0.650	0.005	0.012	0.006	0.040	0.0001	0.0032	425	496	29.00	5.65 SA		Pass
F715154	176531319	6000	X	1500.0	X	Coil	23.520	0.080	0.630	0.005	0.013	0.007	0.044	0.0001	0.0034	392	482	33.00	5.65 SA		Pass
F715161	176531370	6000	X	1500.0	X	Coil	22.750	0.088	0.650	0.005	0.012	0.006	0.040	0.0001	0.0052	425	496	29.00	5.65 SA		Pass
F715170	176531368	6000	X	1500.0	X	Coil	22.690	0.077	0.610	0.005	0.015	0.009	0.048	0.0001	0.0040	402	480	33.00	5.65 SA		Pass
G708835	176520981	6000	X	1500.0	X	Coil	20.665	0.072	0.600	0.005	0.010	0.022	0.030	0.0001	0.0038	402	483	33.00	5.65 SA		Pass
Total Weight in Metric Tonnes							297.550														
Total no of Batches							12														



STEEL LIMITED

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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

Commercial Invoice : 7190003441
Sales Contract Number : 3089
Product : HOT ROLLED STEEL COILS, PICKLED
AND OILED
with Mill Edge
Process Route : BOF-LHF-CCM-HSM-CPL-APL

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, SFM = 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

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 =
%g Elongation on Standard Gauge Length
GSM = Grams per Square Meter
Oil Type : Q

Certified By
A. Jindal
CHAVISH JINDAL