



# STEEL LIMITED

Vijayanagar Works, PO: Vidyanagar, 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,  
DUFERCO S.A.  
SWITZERLAND, 690000  
CH

TC No 2016-17 / 0400603524 \_ 10 / 7020004333

Date 01.04.2017

Product: Cold Rolled Annealed, Skinpassed & Oiled									Chemical Composition & Mechanical Properties											Remarks
Specification : ASTM A_1008 CS_B	MIN	----->	C	Mn	S	P	Si	Al	N	YS	UTS	EL	Ra	GL	Bend Test	Hard				
			%	%	%	%	%	%	%	%	MPa	MPa	%	µm	mm	HRB				
			0.1000	0.600	0.0350	0.030	-	-	1.0000	275	-	-	30.00	0.70	-	-	-			
MAX	----->																			
Cast/Heat No.	Coil No.	T X W X L (mm)	Net Wt.	Gross Wt.	C %	Mn %	S %	P %	Si %	Al %	N %	YS MPa	UTS MPa	EL %	Ra µm	GL mm	Bend Test	Hard HRB	Remarks	
C350860	G349471000	1.900 X 914.0 X Coil	7.975	8.045	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	226	354	46.40	1.03	50MM	Pass	55.00		
C350860	G349472100	1.900 X 914.0 X Coil	5.420	5.480	0.038	0.210	0.010	0.015	0.013	0.044	0.0035	226	354	46.40	1.03	50MM	Pass	55.00		
A350870	G349691000	1.900 X 914.0 X Coil	8.050	8.120	0.032	0.170	0.007	0.008	0.010	0.047	0.0037	220	344	44.10	1.04	50MM	Pass	52.00		
A350870	G349692000	1.900 X 914.0 X Coil	8.210	8.280	0.032	0.170	0.007	0.008	0.010	0.047	0.0037	220	344	44.10	1.04	50MM	Pass	52.00		
A350870	G347992000	1.900 X 914.0 X Coil	8.220	8.290	0.032	0.170	0.007	0.008	0.010	0.047	0.0037	216	336	47.10	1.15	50MM	Pass	51.00		
A350870	G347991000	1.900 X 914.0 X Coil	7.760	7.830	0.032	0.170	0.007	0.008	0.010	0.047	0.0037	216	336	47.10	1.15	50MM	Pass	51.00		
A350873	G350331000	1.900 X 914.0 X Coil	7.980	8.050	0.030	0.200	0.009	0.007	0.009	0.050	0.0032	210	341	47.50	1.03	50MM	Pass	51.00		
A350873	G350332000	1.900 X 914.0 X Coil	8.285	8.355	0.030	0.200	0.009	0.007	0.009	0.050	0.0032	210	341	47.50	1.03	50MM	Pass	51.00		
<b>Total Weight in Metric Tonnes</b>			<b>61.900</b>	<b>62.450</b>																
<b>Total no of Batches</b>			<b>8</b>																	



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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 : 7020004333  
Sales Contract Number : 4626  
Product: : PRIME COLD ROLLED STEEL  
COILS, SKIN PASSED, MATTE  
FINISH, OILED  
with Trimmed Edge  
Process Route : BOF-LHF-CCM-HSM-PLTCM-CAL-  
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, 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

T x W x T = Thickness x Width x Length, Chemistry = Ladle Sample Analysis,  
1MPa = 1N/mm<sup>2</sup>, YS = Yield Strength, UTS = Ultimate Tensile Strength, EL =  
%ge Elongation on Standard Gauge Length  
GSM = Grams per Square Meter  
Oil Type : Quaker or FUCHS

Certified By

*A Jindal*  
(ANVISH JINDAL)