



# 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 \_ 110 / 7020004333

Date 01.04.2017

Product: Cold Rolled Annealed, Skinpassed & Oiled									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 %	N %	YS MPa	UTS MPa	EL %		Ra $\mu$ m	GL mm	Bend Test
Specification : ASTM A_1008 CS_B		MIN	----->		-	-	-	-	-	-	-	-	-	-	-	140	-	30.00	0.70	-	-	-
		-----			0.1000	0.600	0.0350	0.030	-	-	1.0000	275	-	-	-	-	-	-	-	-	-	-
		MAX	----->																			
C350874	G349131000	0.610	X	914.0	X	Coil	8.060	8.130	0.045	0.200	0.010	0.010	0.007	0.055	0.0040	233	366	42.60	1.10	50MM	Pass	51.00
C350874	G353851000	0.610	X	914.0	X	Coil	8.065	8.140	0.045	0.200	0.010	0.010	0.007	0.055	0.0040	233	363	41.30	0.72	50MM	Pass	50.00
C350874	G353852000	0.610	X	914.0	X	Coil	8.320	8.385	0.045	0.200	0.010	0.010	0.007	0.055	0.0040	233	363	41.30	0.72	50MM	Pass	50.00
C350874	G349132000	0.610	X	914.0	X	Coil	8.240	8.310	0.045	0.200	0.010	0.010	0.007	0.055	0.0040	233	366	42.60	1.10	50MM	Pass	51.00
C350874	G347941000	0.610	X	914.0	X	Coil	8.055	8.125	0.045	0.200	0.010	0.010	0.007	0.055	0.0040	235	364	43.50	1.52	50MM	Pass	53.00
C350874	G347942000	0.610	X	914.0	X	Coil	8.390	8.465	0.045	0.200	0.010	0.010	0.007	0.055	0.0040	235	364	43.50	1.52	50MM	Pass	53.00
<b>Total Weight in Metric Tonnes</b>							<b>49.130</b>	<b>49.555</b>														
<b>Total no of Batches</b>							<b>6</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, SKINPASSED, 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)