JSW 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,
SALZGITTER MANNESMANN INTER GM
DUSSELDORF, 40476
DE

TC No / 0400648966 _ 11 / 7190003466
Date 07.07.2017

Product: Hot Rolled Pickled and/or Oiled

			C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test
Specification : EN 10149_2_2005 S355MC	MIN	------>	-	-	-	-	-	0.0150	-	-	355	430	23.00		
	MAX	------>	0.1200	1.500	0.0200	0.025	0.030	-	-	-	-	550	-	-	-

Chemical Composition & Mechanical Properties

Cast/Heat No.	Coil No.	T X W X L (mm)	Net Wt.	Gross Wt.	C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test	Remarks
G715153	176S31601	3.000 X 1500.0 X Coil	25.790	25.890	0.074	0.590	0.005	0.012	0.008	0.048	0.0001	0.0041	412	486	33.00	5.65 SA	Pass	
Total Weight in Metric Tonnes			25.790	25.890														
Total no of Batches			1															

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 : 7190003466
Sales Contract Number : 3009
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, 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 = Thickens x Width x Length, Chemistry = Ladle Sample Analysis, 1MPa = 1N/mm2, YS = Yield Strength, UTS = Ultimate Tensile Strength, EL = %ge Elongation on Standard Gauge Length
GSM = Grams per Square Meter
Oil Type : Q

Certified By

A Jindal
(AVNISH JINDAL)

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,
SALZGITTER MANNESMANN INTER GM
DUSSELDORF, 40476
DE

TC No / 0400648966 _ 21 / 7190003466
Date 07.07.2017

Product: Hot Rolled Pickled and/or Oiled									Chemical Composition & Mechanical Properties													
									C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test	
Specification : EN 10149_2_2005 S355MC							MIN	---------->	-	-	-	-	-	0.0150	-	-	355	430	23.00			
							MAX	---------->	0.1200	1.500	0.0200	0.025	0.030	-	-	-	-	550	-	-	-	
Cast/Heat No.	Coil No.	T	X	W (mm)	X	L	Net Wt.	Gross Wt.	C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test	Remarks
E708950	176S31520	4.000	X	1500.0	X	Coil	22.980	23.075	0.080	0.630	0.005	0.015	0.017	0.041	0.0001	0.0050	429	509	34.00	5.65_SA	Pass	
E715180	176S31529	4.000	X	1500.0	X	Coil	19.725	19.810	0.088	0.600	0.005	0.011	0.005	0.050	0.0001	0.0051	421	506	30.00	5.65_SA	Pass	
F715166	176S31577	4.000	X	1500.0	X	Coil	21.180	21.255	0.077	0.600	0.005	0.012	0.010	0.046	0.0001	0.0045	402	500	28.00	5.65_SA	Pass	
F715166	7637190000	4.000	X	1500.0	X	Coil	28.720	28.820	0.077	0.600	0.005	0.012	0.010	0.046	0.0001	0.0045	389	493	31.00		Pass	
Total Weight in Metric Tonnes							92.605	92.960														
Total no of Batches							4															

STEEL LIMITED

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MILL TEST CERTIFICATE (According to EN 10204 - 3.1)

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DUSSELDORF, 40476
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TC No / 0400648966 _ 21 / 7190003466
Date 07.07.2017

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.

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The product or packing material does not contain any hazardous substances as per ROHS

Commercial Invoice : 7190003466 Sales Contract Number : 3009 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, 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 = Thickens x Width x Length, Chemistry = Ladle Sample Analysis, 1MPa = 1N/mm2, YS = Yield Strength, UTS = Ultimate Tensile Strength, EL = %ge Elongation on Standard Gauge Length GSM = Grams per Square Meter Oil Type : Q

Certified By

A Jindal
(AVNISH JINDAL)

JSW 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,
SALZGITTER MANNESMANN INTER GM
DUSSELDORF, 40476
DE

TC No 2017-18 / 0400648966 _ 11 / 7190003441
Date 30.06.2017

Product: Hot Rolled Pickled and/or Oiled

									Chemical Composition & Mechanical Properties																
									C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test		
Specification : EN 10149_2_2005 S355MC							MIN	——>	-	-	-	-	-	0.0150	-	-	355	430	23.00				
							MAX	——>	0.1200	1.500	0.0200	0.025	0.030	-	-	-	-	550	-	-	-		
Cast/Heat No.	Coil No.	T	X	W (mm)	X	L	Net Wt.	Gross Wt.	C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test	Remarks	
G715153	7631580000	3.000	X	1500.0	X	Coil	26.405	26.505	0.074	0.590	0.005	0.012	0.008	0.048	0.0001	0.0041	384	470	30.00	5.65 SA	Pass		
F715166	176S31287	3.000	X	1500.0	X	Coil	23.055	23.130	0.077	0.600	0.005	0.012	0.010	0.046	0.0001	0.0045	416	501	34.00	5.65 SA	Pass		
G715153	7627222000	3.000	X	1500.0	X	Coil	25.225	25.315	0.074	0.590	0.005	0.012	0.008	0.048	0.0001	0.0041	384	470	30.00	5.65 SA	Pass		
G715149	7627192000	3.000	X	1500.0	X	Coil	24.330	24.415	0.079	0.610	0.005	0.015	0.008	0.042	0.0001	0.0039	410	489	36.00	5.65 SA	Pass		
G715153	7627002000	3.000	X	1500.0	X	Coil	25.540	25.630	0.074	0.590	0.005	0.012	0.008	0.048	0.0001	0.0041	402	486	32.90		Pass		
F715166	176S31530	3.000	X	1500.0	X	Coil	20.025	20.110	0.077	0.600	0.005	0.012	0.010	0.046	0.0001	0.0045	416	501	34.00	5.65 SA	Pass		
F715161	176S31385	3.000	X	1500.0	X	Coil	20.025	20.100	0.088	0.650	0.005	0.012	0.006	0.040	0.0001	0.0052	412	492	30.00	5.65 SA	Pass		
Total Weight in Metric Tonnes							164.605	165.205															
Total no of Batches							7																

STEEL LIMITED

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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 _ 11 / 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

Commercial Invoice : 7190003441 Sales Contract Number : 3009 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, 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 = Thickens x Width x Length, Chemistry = Ladle Sample Analysis, 1MPa = 1N/mm2, YS = Yield Strength, UTS = Ultimate Tensile Strength, EL = %ge Elongation on Standard Gauge Length GSM = Grams per Square Meter Oil Type : Q		Certified By A Jindal (AVNISH JINDAL)

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,
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									Chemical Composition & Mechanical Properties													
									C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test	
Specification : EN 10149_2_2005 S355MC							MIN	------>	-	-	-	-	-	0.0150	-	-	355	430	23.00			
							MAX	------>	0.1200	1.500	0.0200	0.025	0.030	-	-	-	-	550	-	-	-	
Cast/Heat No.	Coil No.	T	X	W (mm)	X	L	Net Wt.	Gross Wt.	C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test	Remarks
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		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	176S31410	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	176S31406	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	176S31367	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	176S31366	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	176S31358	4.000	X	1500.0	X	Coil	20.095	20.170	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															

STEEL LIMITED

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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

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	:	3009
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, 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 = Thickens x Width x Length, Chemistry = Ladle Sample Analysis, 1MPa = 1N/mm2, YS = Yield Strength, UTS = Ultimate Tensile Strength, EL = %ge Elongation on Standard Gauge Length
GSM = Grams per Square Meter
Oil Type : Q

Certified By

A Jindal
(AVNISH JINDAL)

JSW 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,
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												
									C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test
Specification : EN 10149_2_2005 S355MC							MIN	------>	-	-	-	-	-	0.0150	-	-	355	430	23.00		
							MAX	------>	0.1200	1.500	0.0200	0.025	0.030	-	-	-	-	550	-	-	-
Cast/Heat No.	Coil No.	T	X	W (mm)	X	L	Net Wt.	Gross Wt.	C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test	Remarks
G715176	7629730000	5.000	X	1500.0	X	Coil	28.670	28.770	0.083	0.600	0.005	0.011	0.010	0.050	0.0001	0.0046	408	492	33.00		Pass	
F715154	176S31285	5.000	X	1500.0	X	Coil	25.720	25.805	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	176S31303	5.000	X	1500.0	X	Coil	27.180	27.270	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	28.880	28.975	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	28.605	28.710	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	28.655	28.755	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	25.185	25.275	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	25.325	25.410	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	28.735	28.820	0.077	0.610	0.005	0.015	0.009	0.048	0.0001	0.0040	392	484	33.00		Pass	
E715180	176S31381	5.000	X	1500.0	X	Coil	23.550	23.640	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	271.430													
Total no of Batches							10														

STEEL LIMITED

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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.

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The product or packing material does not contain any hazardous substances as per ROHS

Commercial Invoice : 7190003441 Sales Contract Number : 3009 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, 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 = Thickens x Width x Length, Chemistry = Ladle Sample Analysis, 1MPa = 1N/mm2, YS = Yield Strength, UTS = Ultimate Tensile Strength, EL = %ge Elongation on Standard Gauge Length GSM = Grams per Square Meter Oil Type : Q		Certified By A Jindal (AVNISH JINDAL)

STEEL LIMITED

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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													
									C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test	
Specification : EN 10149_2_2005 S355MC							MIN	------>	-	-	-	-	-	0.0150	-	-	355	430	23.00			
							MAX	------>	0.1200	1.500	0.0200	0.025	0.030	-	-	-	-	550	-	-	-	
Cast/Heat No.	Coil No.	T	X	W (mm)	X	L	Net Wt.	Gross Wt.	C %	Mn %	S %	P %	Si %	Al %	B %	N %	YS MPa	UTS MPa	EL %	GL mm	Bend Test	Remarks
F715170	7624900000	6.000	X	1500.0	X	Coil	28.585	28.680	0.077	0.610	0.005	0.015	0.009	0.048	0.0001	0.0040	402	480	33.00		Pass	
F715154	176S31307	6.000	X	1500.0	X	Coil	25.880	25.965	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	6.000	X	1500.0	X	Coil	25.410	25.495	0.080	0.600	0.005	0.015	0.020	0.049	0.0001	0.0058	406	483	30.00		Pass	
E715180	176S31306	6.000	X	1500.0	X	Coil	24.260	24.345	0.088	0.600	0.005	0.011	0.005	0.050	0.0001	0.0051	415	489	33.00	5.65 SA	Pass	
G715176	176S31305	6.000	X	1500.0	X	Coil	27.755	27.845	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	176S31304	6.000	X	1500.0	X	Coil	27.875	27.965	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	176S31313	6.000	X	1500.0	X	Coil	24.490	24.575	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	176S31316	6.000	X	1500.0	X	Coil	23.670	23.760	0.088	0.650	0.005	0.012	0.006	0.040	0.0001	0.0052	425	496	29.00	5.65 SA	Pass	
F715154	176S31319	6.000	X	1500.0	X	Coil	23.520	23.605	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	176S31370	6.000	X	1500.0	X	Coil	22.750	22.840	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	176S31368	6.000	X	1500.0	X	Coil	22.690	22.755	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	176S30981	6.000	X	1500.0	X	Coil	20.665	20.740	0.072	0.600	0.005	0.010	0.022	0.050	0.0001	0.0038	402	483	33.00	5.65 SA	Pass	
Total Weight in Metric Tonnes							297.550	298.580														
Total no of Batches							12															

JSW 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,
SALZGITTER MANNESMANN INTER GM
DUSSELDORF, 40476
DE

TC No 2017-18 / 0400648966 _ 41 / 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

Commercial Invoice : 7190003441 Sales Contract Number : 3009 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, 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 = Thickens x Width x Length, Chemistry = Ladle Sample Analysis, 1MPa = 1N/mm2, YS = Yield Strength, UTS = Ultimate Tensile Strength, EL = %ge Elongation on Standard Gauge Length GSM = Grams per Square Meter Oil Type : Q		Certified By A Jindal (AVNISH JINDAL)