



# JSW Steel Coated Products Limited

A-10/1, MIDC AREA, KALMESHWAR - 441 501, DIST NAGPUR (M.S.) INDIA  
 PHONE : (07118) 271401 - 406, 271477 - 478, FAX : (07118) 271400/66/79

ISO 9001 : 2008  
 ISO 14001: 2004  
 OHSAS 18001 : 2007  
 EnMS 50001 : 2011

## TEST CERTIFICATE

Product Description : HR GI COILS  
 Mill Certificate No : 7101523164  
 Specification : DOM CS  
 Customer : BUHARIHARDWARE,  
 ,CHENNAI

Challan No. :  
 Challan Date :  
 Ref. Doc. NO. :  
 Ref. Doc. DATE :  
 Truck No.:MH34AB3005

Sr.No.	Coil / Packet No.	Al-Zn Coating	Temper	Thk (mm)	Wid (mm)	Lnth (mm/mtr)	Net Wt (MT)	Hardness		Chemical Composition						
								HRB	VPN	%C	%Mn	%Si	%S	%P	%AL	
001	KG2A8K1161	120.000	CS	2.000	1250	247	5.085	56.000		0.050	0.119	0.010	0.006	0.010	0.039	
002	KG2A8K1162	120.000	CS	2.000	1250	251	5.080	56.000		0.050	0.119	0.010	0.006	0.010	0.039	
TOTAL :							10.165									

We hereby certify that the materials described herein has been inspected in accordance with above specification.  
 Remaining relevant elements observed as per reference standard.  
 Material to be used before 6 months from the date of despatch.

Head (Quality Assurance Deptt)



# JSW Steel Coated Products Limited

A-10/1, MIDC AREA, KALMESHWAR - 441 501, DIST NAGPUR (M.S.) INDIA  
 PHONE : (07118) 271401 - 406, 271477 - 478, FAX : (07118) 271400/66/79

ISO 9001 : 2015  
 ISO 14001 : 2015  
 OHSAS 18001 : 2007  
 EnMS 50001 : 2011

IS : 277



CM/L No.1800239

## TEST CERTIFICATE FOR GALVANIZED STEEL COILS

Product Description : HR GI COILS  
 Mill Certificate No : 7102913971  
 Customer : BUHARIHARDWARE,  
 ,CHENNAI

Invoice No. : 7102913971  
 Invoice Date : 29.08.2020  
 Ref. Doc. NO. : 709072933  
 Ref. Doc. DATE : 29.08.2020  
 Truck No. : MH34AB2294

It is certified that the material described below fully conforms to IS 277:2018. Chemical composition and Mechanical properties of the product, as tested in accordance with the Scheme of Testing and Inspection contained in the BIS Certification Marks Licence No. CM/L No. 1800239 are as indicated below against each order no.

(PLEASE REFER TO IS 277:2018 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

### TEST RESULTS

Sr. No.	Specification		Batch No	Thk (mm)	Width (mm)	Length (mtr)	Net Wt (mt)	Chemical Composition			Mechanical Properties				Passivation	Cold Treat	Zinc Coating (gsm)	Heat No		
	Grade	Coating (gsm)						C	Mn	Si	YS	UTS	EL						Hardness	No Of
													S	P						
001	BIS 277_2018 GP	120.000	KG2A0F0849	1.600	1220	224	3.920	0.044 0.006	0.136 0.010	0.025 0.052	NA	NA	NA	NA	65		CR6	STL	122.000	20401738
002	BIS 277_2018 GP	120.000	KG2A0F0848	1.600	1220	327	5.405	0.044 0.006	0.136 0.010	0.025 0.052	NA	NA	NA	NA	65		CR6	STL	122.000	20401738
TOTAL :							9.325													

We hereby certify that the materials described herein has been inspected in accordance with above specification.  
 Please store material under the shed.  
 Material to be used before 6 months from the date of despatch.

Head (Quality Assurance Deptt)



# JSW Steel Coated Products Limited

A-10/1, MIDC AREA, KALMESHWAR - 441 501, DIST NAGPUR (M.S.) INDIA  
PHONE : (07118) 271401 - 406, 271477 - 478, FAX : (07118) 271400/66/79

ISO 9001 : 2015  
ISO 14001 : 2015  
OHSAS 18001 : 2007  
EnMS 50001 : 2011

IS : 277



CM/L No.1800239

## TEST CERTIFICATE FOR GALVANIZED STEEL COILS

Product Description : HR GI COILS  
Mill Certificate No : 7102909750  
Customer : BUHARIHARDWARE,  
,CHENNAI

Invoice No. : 7102909750  
Invoice Date : 27.08.2020  
Ref. Doc. NO. : 709066702  
Ref. Doc. DATE : 27.08.2020  
Truck No. : MH34AV0343

It is certified that the material described below fully conforms to IS 277:2018. Chemical composition and Mechanical properties of the product, as tested in accordance with the Scheme of Testing and Inspection contained in the BIS Certification Marks Licence No. CM/L No. 1800239 are as indicated below against each order no.

(PLEASE REFER TO IS 277:2018 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

### TEST RESULTS

Sr. No.	Specification		Batch No	Thk (mm)	Width (mm)	Length (mtr)	Net Wt (mt)	Chemical Composition			Mechanical Properties				Passivation	Cold Treat	Zinc Coating (gsm)	Heat No		
	Grade	Coating (gsm)						C	Mn	Si	YS	UTS	EL						Hardness	No Of
													S	P						
001	BIS 277_2018 GP	120.000	KG2A0H2157	2.000	1250	260	5.180	0.038 0.009	0.135 0.016	0.015 0.048	NA	NA	NA	NA	65		CR6	STL	128.000	20C4791
002	BIS 277_2018 GP	120.000	KG2A0H2158	2.000	1250	260	5.185	0.038 0.009	0.135 0.016	0.015 0.048	NA	NA	NA	NA	65		CR6	STL	128.000	20C4791
003	BIS 277_2018 GP	120.000	KG2A0H2160	2.000	1250	255	5.070	0.038 0.009	0.135 0.016	0.015 0.048	NA	NA	NA	NA	65		CR6	STL	128.000	20C4791
004	BIS 277_2018 GP	120.000	KG2A0H2159	2.000	1250	253	5.055	0.038 0.009	0.135 0.016	0.015 0.048	NA	NA	NA	NA	65		CR6	STL	128.000	20C4791
TOTAL :							20.490													

We hereby certify that the materials described herein has been inspected in accordance with above specification.  
Please store material under the shed.  
Material to be used before 6 months from the date of despatch.

Head (Quality Assurance Deptt)



Vijayanagar Works, Vidyanagar, Village-Toranagallu, Dist: Bellary, Karnataka-5  
 Regd. Office: / Centre, Bandra Kuria Complex, Bandra (East), Mumbai - 400 051

**JSW STEEL LIMITED**

IS 2062\_2011



CML - 6161963

Test Certificate : HR/18-19/0000776588  
 To M/S. **MEENAKSHI STEEL CORPORATION**  
 RUNGTA HOUSE  
 CHENNAI - 600010 Region: 22

Date : 02.04.2018  
 SO No./Item : 400808035 / 20  
 Product : HR STEEL COILS  
 PO No. : MAIL

It is certified that the material described below fully conforms to IS 2062\_2011. Chemical composition and Mechanical properties of the product, as tested in accordance with the Scheme of Testing & Inspection contained in the BIS certification marks Licence No. CML - 6161963 are as indicated below against each order No. Etc.  
 (PLEASE REFER TO IS 2062\_2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

**TEST RESULTS**

Specification: IS 2062_2011 E250A		QTY (MT)	C %	Mn %	S %	P %	SI %	Al %	N %	Nb %	Ti %	CE Long	V %	TEN DIR YS (Mpa)	UTS (Mpa)	GL (mm)	EL%	Bend Dir	Bend Radius	Bend Result	
Cast / Heat No.	Coil Number	Nominal Size (MM)	Min	Max	0.2300	1.50	0.045	0.045	0.400	0.0120	0.420			250	410	5.65	23.00		2T	Pass	
Mother Coil	T X W X L UD													Tr	389	471	40.00	Tr	2t	Pass	
G744141	18547801	2.500 X 1290.0 X Coil P	25.960	0.1340	0.61	0.008	0.012	0.129	0.050	0.0032	0.0010	0.002	0.240	0.0010	Tr						
Total Weight in Metric Tonnes			25.960																		
Grand Total of Coils/Pkt/Bundles			1																		

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 and it confirms to Standard Rolling & Weight tolerances. The product or packing material does not contain any hazardous substances as per RoHS norms.

Process Route :

BOF-ARS-LHF-CASTER

Legends:

BOF = Basic Oxygen Furnace, LHF = Ladle Heating Furnace, CCM = Continuous Casting Machine,  
 RH = RH Degasser, HSM = Hot Strip Mill, HRS = HR Slitter, CTL = Cut To Length, T x W x L = Thickness X Width X Length,  
 Chemistry = Ladle sample analysis, 1Mpa = 1N/mm2, YS = Yield Strength, UTS = Ultimate Tensile Strength,  
 El% = Percent elongation on standard gauge length, UD - Usage Decision, P - Prime, C - Commercial, A- Arising,  
 Pcs - No of Pieces, CE = [C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15], Ln = Longitudinal, Tr = Transverse, Fully Killed Steel

*(Signature)*  
 Authorised Signatory

Delivery ID : 705763876  
 Invoice No. : 7100755618  
 GST Invoice No : VJ2900001083  
 Mode of Transport: Rail  
 Vehicle No. :

Remarks :

For JSW Steel Ltd.



**JSW STEEL LIMITED**  
 Vidyanagar Works: Vidyanagar, Village-Toranagalli, Dist: Bellary, Karnataka. 75, INDIA  
 Regd. Office: JSW Centre, Bandra Kuria Complex, Bandra (East), Mumbai - 400 051



IS 2062\_2011  
 CML - 6161963

Test Certificate : HR/18-19/0001082204  
 To M/S. MEENAKSHI STEEL CORPORATION  
 RUNGTA HOUSE  
 CHENNAI - 600010 Region: 22

Date : 15.12.2018  
 SO No./Item : 400926769 / 10  
 Product : HR STEEL PLATES/SHEETS  
 PO No. : DEC 2018

It is certified that the material described below fully conforms to IS 2062\_2011. Chemical composition and Mechanical properties of the product, as tested in accordance with the Scheme of Testing & Inspection contained in the BIS certification marks Licence No. CML - 6161963 are as indicated below against each order No. Etc.  
 (PLEASE REFER TO IS 2062\_2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

**TEST RESULTS**

Specification: IS 2062_2011 E250A		QTY (MT)	C %	Mn %	S %	P %	SI %	Al %	N %	Nb %	Ti %	CE Long	V %	TEN DIR YS (Mpa)	UTS (MPa)	GL (mm)	EL %	Bend Dir	Bend	Bend		
Cast / Heat No.	Packet Number	Min	0.020																			
Nominal Size (MM)	Min	Max	0.0120																			
F769357	1867562102	1.800 X 1250.0 X 2.500.0 P 140	5.555	0.1430	0.55	0.015	0.016	0.106	0.044	0.0047	0.0010	0.002	0.239	0.0010	Tr	345	452	5.65	43.00	Tr	2I	Pass
Total Weight in Metric Tonnes		5.555																				
Grand Total of Coils/Pkt/Bundles		1																				

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 and it confirms to Standard Rolling & Weight tolerances. The product or packing material does not contain any hazardous substances as per RoHS norms.

Delivery ID : 706773522 Process Route : BOF-ARS-LHF-CASTER

Invoice No. : 7101504724 Legends: BOF = Basic Oxygen Furnace, LHF = Ladle Heating Furnace, CCM = Continuous Casting Machine, RH = RH Degasser, HSM = Hot Strip Mill, HRS = HR Sifter, CTL = Cut To Length, T x W x L = Thickness X Width X Length,

GST Invoice No : 18VJ2900467681 Chemistry = Ladle sample analysis, 1Mpa = 1N/mm<sup>2</sup>, YS = Yield Strength, UTS = Ultimate Tensile Strength,

Mode of Transport: Normal Tractor El % - Percent elongation on standard gauge length, UD - Usage Decision, P - Prime, C - Commercial, A - Arising, Pcs - No of Pieces, CE = [C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15], Ln = Longitudinal, Tr = Transverse, Fully Killed Steel

Vehicle No. : KA34B5113 Remarks :

*(Signature)*  
 Authorised Signatory  
 For JSW Steel Ltd.



Vijayanagar Works, P  
Vijayanagar, Village-Toranagallu, Dist: Bellary, Karnataka-58337  
Regd. Office: Jc  
Jante, Bandra Kuria Complex, Bandra (East), Mumbai - 400051

**JSW STEEL LIMITED**

**HOT ROLLED MEDIUM AND HIGH TENSILE STRUCTURAL STEEL AS PER IS: 2062\_2011**



Test Certificate : HR/18-19/0001049756  
To M/S. **MEENAKSHI STEEL CORPORATION**  
RUNGTA HOUSE  
CHENNAI - 600010 Region: 22

Date : 14.11.2018  
SO No./ Item : 400913244 / 10  
Product : HR STEEL COILS  
PO No. : Mail - Nov'18

It is certified that the material described below fully conforms to IS 2062\_2011. Chemical composition and Mechanical properties of the product, as tested in accordance with the Scheme of Testing & Inspection contained in the BIS certification marks Licence No. C/M/L - 6161963 are as indicated below against each order No. Etc.  
(PLEASE REFER TO IS 2062\_2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

**TEST RESULTS**

Specification: IS 2062_2011 E250A		QTY (MT)	C %	Mn %	S %	P %	SI %	Al %	N %	Nb %	TI %	CE Long	V %	TEN DIR	YS (Mpa)	UTS (Mpa)	UTS QL (mm)	EL %	Bend Dir	Bend Radius	Bend Result	
Cast / Heat No.	Coil Number	Nominal Size (MM)																				
Mother Coil		T X W X L UD	Max																			
D767501	18667212	2.000 X 1250.0 X Coil P	22.620	0.1580	0.56	0.008	0.025	0.108	0.041	0.0030	0.0010	0.002	0.256	0.0010	Tr	405	508	5.65	28.00	Tr	2I	Pass
Total Weight in Metric Tonnes			22.620																			
Grand Total of Coils/Pkt/Bundles			1																			

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 and it confirms to Standard Rolling & Weight tolerances. The product or packing material does not contain any hazardous substances as per RoHS norms.

**BOF-ARSLHF-CASTER**

**Process Route :**

BOF = Basic Oxygen Furnace, LHF = Laddle Heating Furnace, CCM = Continuous Casting Machine,  
RH = RH Degasser, HSM = Hot Strip Mill, HRS = HR Silter, CTL = Cut To Length, T x W x L = Thickness X Width X Length,  
Chemistry = Laddle sample analysis, 1Mpa = 1N/mm<sup>2</sup>, YS = Yield Strength, UTS = Ultimate Tensile Strength,  
El % = Percent elongation on standard gauge length, UD - Usage Decision, P - Prime, C - Commercial, A - Arising,  
Pcs - No of Pieces, CE = [C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15], Ln = Longitudinal, Tr = Transverse, Fully Killed Steel

**Legends :**

Delivery ID : 706663363  
Invoice No. : 7101418788  
GST Invoice No : 18VJ2900416217  
Mode of Transport: Rail  
Vehicle No. :

Remarks :  
  
Authorised Signatory  
For JSW Steel Ltd.



**Jindal**  
**Aluminium Limited.**

REGD. OFFICE & WORKS :  
KIADB IND AREA, TUMKUR ROAD, DABASPET BANGLORE - 560 073, INDIA

PHONE : (080) - 27735051-53 (3 Lines)  
FAX : (080) - 27735033  
WEBSITE : www.jindalaluminium.com

Customer Name: ALUMINIUM SALES CORPORATION.....

Inv no & Date: DFR00990202007 23-JUL-2020

Quantity(kgs): 9,768.00

**Aluminium Alloy : 31000 Chemical Composition**

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	AL
0.170	0.298	0.074	1.12	0.005	0.001	0.006	0.017	-	Remainder

**Mechanical Properties**

SL.No	Coil No /Roll No	Temper	Gauge (mm)	Width (mm)	Length (mm)	UTS (Kg/mm <sup>2</sup> )	Elong (%)	
23 - 27	SH200004108 - SH200004112	H2	1	1300	1910	16.91	8	
28 - 29	SH200003997 - SH200003998	H2	1	1300	2500	16.74	8	
30 - 30	SH200003996 - SH200003996	H2	1	1300	2600	16.88	7.5	
31 - 32	SH200004071 - SH200004072	H2	1.50	1500	2250	16.91	8	
33 - 34	SH200004086 - SH200004087	H2	1.50	1500	2350	17.01	8	

Remarks : THE CHEMICAL COMPOSITION AND THE MECHANICAL PROPERTIES MEETS AS PER- IS:737-2008

Prepared By  
(Executive QA)

\*\*  
Checked By  
(HOD QA)



\*\* THIS IS COMPUTER GENERATED REPORT HENCE SIGNATURE IS NOT REQUIRED.

CUSTOMER : SALEM STAINLESS STEEL SUPPLIERS CITY : Chennai P.O.NO : SALES ORDER NO : 3100103724 SHIPMENT/DELIVERY NO : 1100607401	CERTIFICATE NO. : JSHL-CRD/QA/2019-20/DOM/00675616 DATE : 09.11.2019 VEHICLE NO. : HR39B9423 NET WT(MT) : 2.654 PO DATE:24.10.2019 SO DATE:25.10.2019 DATE:09.11.2019
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Material Description/Product Stainless Steel Cold Rolled Coils Annealed & Pickled	Material Specifications EN 10028-7:2016, ASTM A 240M-18, IS 6911 :2017 AMD NO.2	Process-Route EF-AOD-LRF-CCS	Dimension Tolerance specification As per QA/PO Agreement.
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PHYSICAL DESCRIPTION													
Sr NO	BATCH NO	HRC/PLATE NO.	PKT/PALLET NO	WEIGHT (MT)	NO OF PCS	HEAT NO	GRADE	THK (mm)	WIDTH (mm)	LENGTH (mm)	FINISH	EDGE	QUALITY
1	2001435121	301602		1.322		1910J5077	1.4307/1.4301/304L/304	1.500	1250.00		2B	TE	PRIME
2	2001435172	301741		1.332		1910J5123	1.4307/1.4301/304L/304	1.500	1250.00		2B	TE	PRIME

CHEMICAL ANALYSIS (LADE)															
Sr NO.	HEAT NO	GRADE	C%	Mn%	S%	P%	Si%	Ni%	Cr%	N%	Mo%	Cu%	Ti%	Nb/Cb%	Al%
1	1910J5077	1.4307/1.4301/304L/304	0.021	1.73	0.003	0.041	0.19	8.15	18.09	0.084					
2	1910J5123	1.4307/1.4301/304L/304	0.022	1.87	0.003	0.036	0.43	8.20	18.04	0.090					

MECHANICAL PROPERTIES: SAMPLE DIRECTION - TRANSVERSE										ADDITIONAL INFORMATION
Sr No.	Batch No.	Thk mm	Rp 0.2/YS Mpa	Rp 1.0 Mpa	Rm/TS Mpa	%EL A 50 mm	%EL A 80 mm	Hardness HRBW	Bend Test 180°	
1	2001435121	1.50	327	359	648	53		87 / 87		1) Material Solution annealed at minimum 1050°C and quenched in air-water mist at a sufficient rate to prevent re-precipitation of carbides
2	2001435172	1.50	330	363	667	56		86 / 86		

This is to Certify that we have supplies: SS 304L/2B 1.5x1250XMixed Size to M/s. MDM Engg & Technologies vide our Invoice No. 11383 Date 5/3/2020



The material supplied under this Test Certificate is free from any radioactive contamination as checked by procedures established by Jindal Stainless (Hisar) Limited as per the recommendations provided by AERB.

<b>Jindal Stainless (Hisar) Limited</b> O.P. Jindal Marg, HISAR-125005, INDIA TEL : +91-1662-222471 - 83 FAX : +91-1662-220496, 220476 Email : quality.lab@jshl.in Format Ref: QAD-CR/09/F/REV12, Eff Date : 15/03/2018	This is hereby certified that the material was manufactured, sampled, tested & inspected in accordance with requirements of the material specification, SO/PO and has been found to meet these requirements	QMS:ISO 9001-2015 EMS:ISO 14001-2015 OHSAS:18001-2007 CERTIFIED COMPANY	<b>For Jindal Stainless (Hisar) Limited</b>   AUTHORISED SIGNATORY (QUALITY ASSURANCE DEPARTMENT) Jindal Stainless (Hisar) Limited HISAR
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MILL TEST CERTIFICATE  
(INSPECTION CERTIFICATE)  
In Accordance with EN 10204 :2004 Type 3.1



Jindal Stainless Limited.  
Jajpur, Odisha

CUSTOMER : SALEM STAINLESS STEEL SUPPLIERS	CERTIFICATE NO : JSL-JRD QA/2018 19 DOM 00117333
CITY : CHENNAI	DATE : 22.04.2018
PO NO : EPO0081	VEHICLE NO : RJ02GB1547
SALES ORDER NO : 0559006521	NET WEIGHT : 17.245
SHIPMENT DELIVERY NO : 1100415725	PO DATE: 26.02.2018
	SO DATE: 28.02.2018
	DATE: 19.04.2018

Material Description/Product COLD ROLLED ANNEALED PICKLED STAINLESS STEEL COILS	Material Specifications ASTM A240/A240M-17, ASME SA-240/SA-240M 2017 SEC II PART A	Process-Route EAF-AOD-LRF-CCS	Dimension Tolerance specification As per O/APO Agreement
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PHYSICAL DESCRIPTION

SR NO	BATCH NO	PARENT COIL NO./PLATE NO.	PKT/PALLET NO	WEIGHT (MT)	NO OF PCS	HEAT NO	GRADE	THK (mm)	WIDTH (mm)	LENGTH (mm)	FINISH	EDGE	QUALITY
1	EK13616803	0000413832		2.555		21801175	304L/304	2.000	1,250.00		2B	ME	PRIME
2	EK13616804	0000413832		2.555		21801175	304L/304	2.000	1,250.00		2B	ME	PRIME
3	EK13616805	0000413832		2.445		21801175	304L/304	2.000	1,250.00		2B	ME	PRIME
4	E034296702	0000413656		4.900		21801160	304L/304	1.500	1,500.00		2B	ME	PRIME
5	ES50949904	0000410215		4.790		21801375	304	1.200	1,250.00		N4P	ME	PRIME

CHEMICAL ANALYSIS (LADLE)

SR NO.	HEAT NO	GRADE	C%	Mn%	S%	P%	Si%	Ni%	Cr%	N%	Mo%	Cu%	Ti%	Nb/Cb%	Al%
1	21801175	304L/304	0.025	1.73	0.002	0.035	0.25	8.04	18.08	0.094					
2	21801175	304L/304	0.025	1.73	0.002	0.035	0.25	8.04	18.08	0.094					
3	21801175	304L/304	0.025	1.73	0.002	0.035	0.25	8.04	18.08	0.094					
4	21801160	304L/304	0.024	1.70	0.002	0.035	0.35	8.08	18.09	0.099					
5	21801375	304	0.056	0.85	0.005	0.045	0.28	8.07	18.28	0.044					

MECHANICAL PROPERTIES: SAMPLE DIRECTION - TRANSVERSE

Sr No.	Batch No.	Thk mm	Rp 0.2/YS Mpa	Rp 1.0 Mpa	Rm/TS Mpa	%EL A 50 mm	%EL 5.65-50GL mm	Hardness HRBW	Bend Test 180°
1	EK13616803	2.00	328	636	58	58		83 / 84	
2	EK13616804	2.00	328	636	58	58		83 / 84	
3	EK13616805	2.00	328	636	58	58		83 / 84	
4	E034296702	1.50	335	680	57	57		81 / 82	
5	ES50949904	1.20	341	653	57	57		81 / 82	

ADDITIONAL INFORMATION

- 1)- MATERIAL SOLUTION ANNEALED IN ACCORDANCE WITH REQUIREMENT AS LAID IN ASTM A480/A480M-17 // ASME SA-480/SA-480M 2017 SEC II, PART A "TABLE A1.2
- 2)- FOR ASTM GRADE IN 2B FINISH: SURFACE FINISH AS PER ASTM A480/A480M-17 // ASME SA-480/SA-480M 2017 SEC II, PART A 2B ON BOTH SIDE.
- 3)- FOR ASTM GRADE IN NO.4 FINISH: SURFACE FINISH AS PER ASTM A480/A480M-17 // ASME SA-480/SA-480M 2017 SEC II, PART A NO.4 ON ONE SIDE.
- 4)- FOR 304L/304 GRADE: THE MATERIAL ALSO CONFIRM TO IS 6911 GRADE 304S/304S1
- 5)- FOR 304 GRADE: THE MATERIAL ALSO CONFIRM TO IS 6911 GRADE 304S1



This is to Certify that we have supplies: 8S 304L/2B 2x1250 X 2500/2600 to M/s. MDM Engg & Technologies vide our Invoice No 11383 Date 5/3/2020

The material supplied under this Test Certificate is free from any radioactive contamination as checked by procedures established by Jindal Stainless Limited as per the recommendations provided by AERB.

Jindal Stainless Limited,  
Kalinga Nagar Industrial Complex,  
PO: Danagadi, Jajpur  
Odisha - 755026, India  
TFL: +91-9078899031,  
FAX: +91-06726-266006  
Email: Quality@JSL@jindalstainless.com  
Formal Ref: JSL/QA-CRM/32

This is hereby certified that the material was manufactured, sampled, tested & inspected in accordance with requirements of the material specification and has been found to meet the requirements of order.

QMS: ISO 9001: 2015  
EMS: ISO 14001: 2015  
OHSAS 18001: 2007  
CERTIFIED COMPANY

Documents Digitally signed by Jindal Stainless Limited  
Sany Kanta Nayak  
Sunday, April 22, 2018 8:48 AM

Regd Office : Ispat Bhawan  
 Lodhi Road, New Delhi - 110 003  
 Phone : 91-0427-238 2260  
 E-mail : metserv@sailssp.in

**TEST CERTIFICATE FOR  
 STAINLESS STEEL PLATE, SHEET  
 AND STRIP**



**TEST CERTIFICATE NO. : DA1905840**      **DATE: 30/11/2019**  
 To    M/s. SALEM STAINLESS STEEL SUPPLIERS PVT LTD  
 33. LAWYER CHINNATHAMBI STREET  
 KONDITHOPE  
 CHENNAI  
 PinCode: 600079

**Despatch Advice No. & Date**      DA1905840      30/11/2019  
**Sale Order No. & Date**              0040195432      29/11/2019

TELECON 24/11/2019

We certify that the material described below fully conforms to IS 6911:2017 chemical composition and mechanical properties of the product as tested in accordance with the Scheme of Testing and Inspection contained in BIS Certification Marks Licence No.CM/L - 6700038910 are as indicated below against sale order No. (Please refer IS 6911:2017 for details of specification requirement)

**TEST RESULTS**

Packet No.	Coil No.	Cast No.	Steel Desg.	Dimensions (mm)	Edge/ FINISH	Quantity Kgs	No of shfts	Chemical Analysis											Mechanical Properties			
								C %	Si %	Mn %	Ni %	Cr %	S %	P %	Cu %	N %	Ti %	Nb %	MO %	Bend 180° TT	Yield Strength (N/mm2)	Tensile Strength (N/mm2)
AA22402	191359	18J107	409M	3.00*1250	M / NO1	6006		0.012	0.48	0.92	0.33	11.20	0.005	0.031	0.027	0.005	OK	339	477	HRB 77	24	

This is to Certify that we  
 have supplies: SS409 mck/A.3 x 1250 x 2500  
 to M/s. MDM Engg & Technologies  
 vide our Invoice No 11383 Date 5/3/2020



The material supplied conforms to the stipulated rolling tolerances.

**REMARKS**      **GRADE :** 409M      **DESCRIPTION** X02Cr12 CHEMISTRY AND MECHANICAL PROPERTIES CONFORMS TO X2CRN12 OF C-K201 SPEC

Process Route: EAF -> AOD -> CCM -> HSM -> CRM

**SIGNATURE** *[Signature]*  
**DESIGNATION :** AGM (MS)  
**FOR SAIL SALEM STEEL PLANT**

**Shipping Advice No.:**      Despatch Advice No. & Date      DA1905840      30/11/2019