

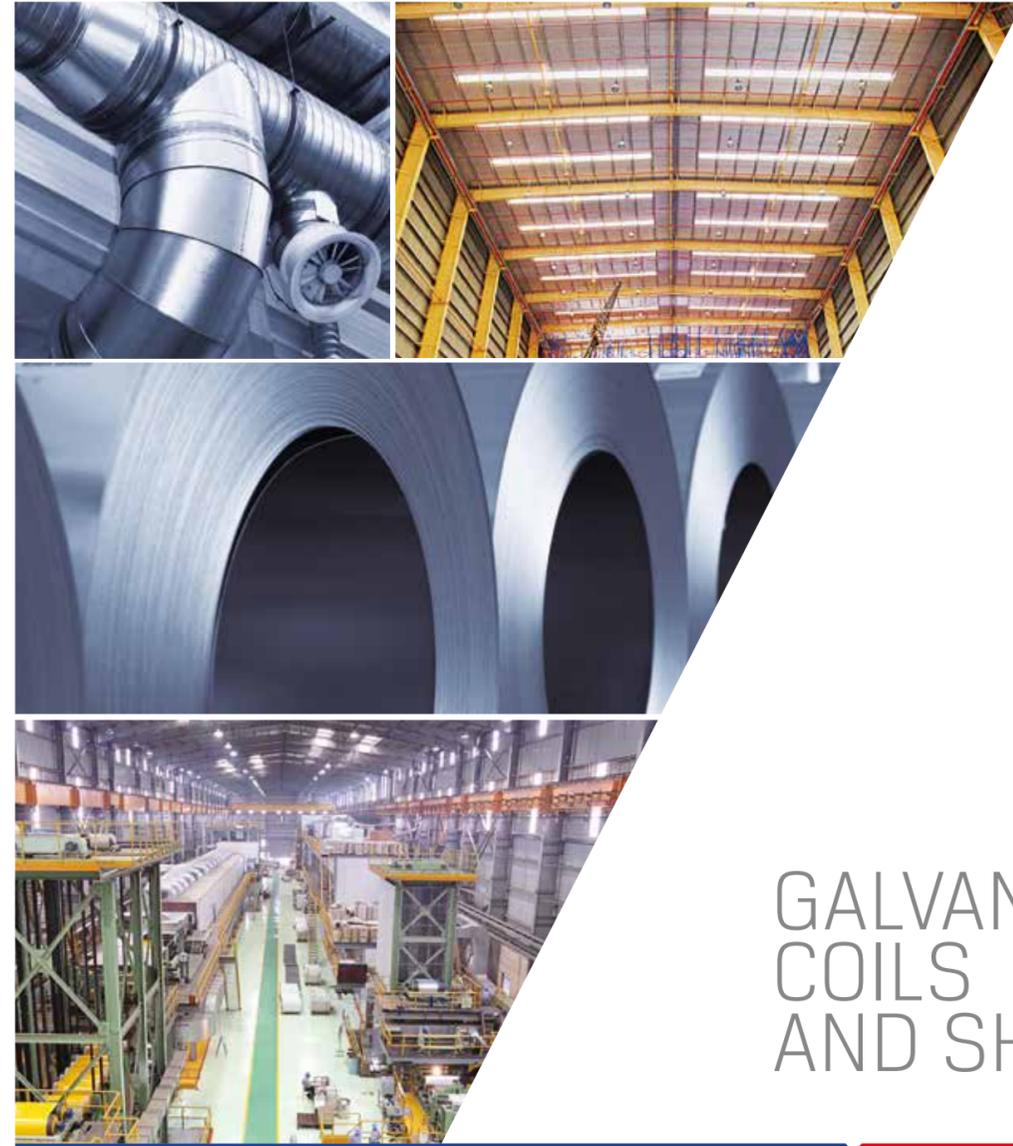


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Dec'17

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# GALVANISED COILS AND SHEETS



**JSW Steel** helping india  
move forward.

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# JSW Group

An \$11 billion conglomerate, with presence across India, USA, South America & Africa, the JSW Group is a part of the O.P. Jindal Group with strong footprints across core economic sectors, namely, Steel, Energy, Infrastructure, Cement, also in Ventures and Sports.

The Group is paving the way for India's development as a global superpower. JSW Steel is India's leading steel producer and among the world's most illustrious steel company. The Group is also leading in every sector that it operates in.

JSW Energy is one of the earliest private entrants into the power sector positioned strongly as a full-spectrum integrated power company with a presence across the power sector value chain. It is one of the most efficient Power Company in the country with one of the country's largest open cast mining operation by volume and one of the largest private sector Hydro Operator in India. JSW Cement creates the building blocks of India with its environment friendly products. JSW Infrastructure is contributing to the nation's development by providing world class services to clients through state of- the-art ports, terminals, shipyards and other facilities. JSW Sports runs the Sports Excellence Program (SEP) to identify, nurture and develop Indian athletes to ensure that they bring sporting glory to the nation on the global stage. JSW Sports also runs the Bengaluru Football Club & The Bengaluru Yodhas wrestling team.

The JSW Group is committed to creating more smiles at every step of the journey. JSW Foundation, the Group's CSR and sustainability arm, is in constant pursuit of making life better for communities with its various initiatives in the fields of health, education, livelihood and sports, along with art and culture.

JSW Group is proud to be charting a course to excellence that creates opportunities for every Indian and leads to the creation of a sustainable, dynamic and developed nation.



Steel

Energy

Port

Cement

Sports

Foundation

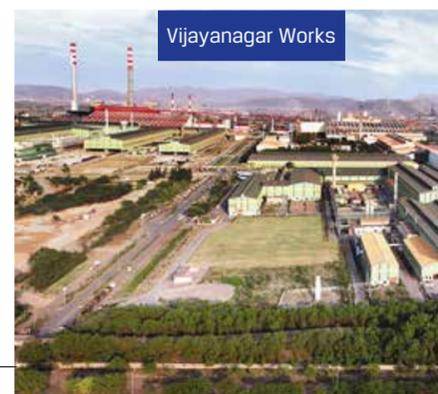


## JSW Steel Ltd.

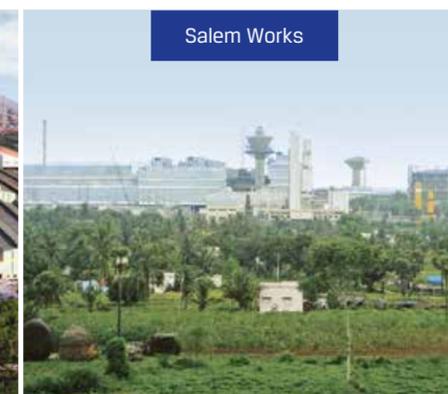
The flagship company of USD 11 billion JSW Group, JSW Steel is one of India's leading integrated steel manufacturers with a capacity of 18 MTPA. It is one of the fastest growing companies in India with a footprint in over 140 countries. With state-of-the-art manufacturing facilities located in Karnataka, Tamil Nadu and Maharashtra, it is recognized for its innovation and quality.

JSW offers a wide gamut of steel products that includes Hot Rolled, Cold Rolled, Bare & Pre-painted Galvanized & Galvalume®, TMT Rebars, Wire Rods and Special Steel.

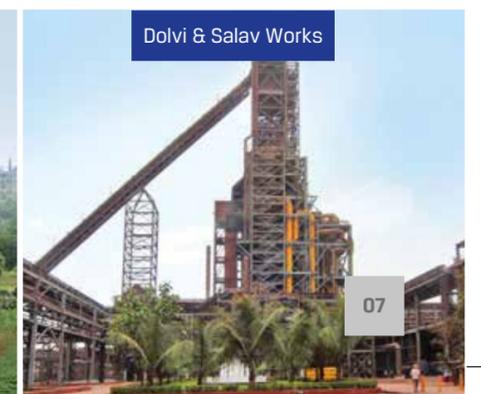
JSW Steel continues to enhance its capabilities to meet the rapidly changing global market needs. To stay on the leading edge of technical advancement, JSW has entered into technological collaboration with JFE Steel Corp, Japan to manufacture high strength and advanced high strength steel for the automobile sector. JSW Steel has also entered into a joint venture with Marubeni-Itochu Steel Inc. Tokyo, to set up a state-of-the-art steel processing centers. To strengthen its global network, the Company has also acquired a Pipe and Plate making steel mill in Baytown, Texas in USA. Going forward, JSW Steel aims to produce 40 million tons of steel annually.



Vijayanagar Works



Salem Works



Dolvi & Salav Works

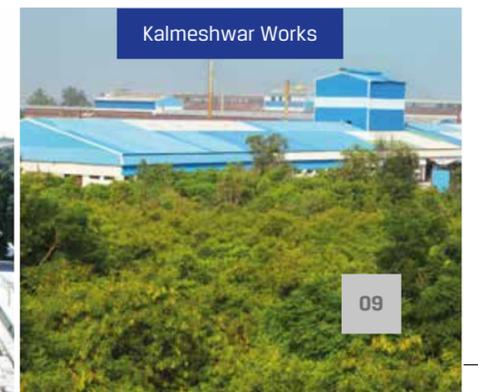


## JSW Steel Coated Products Ltd.

JSW Steel Coated Products Limited is 100% subsidiary company of JSW Steel, having state-of-the-art manufacturing facilities in the state of Maharashtra.

JSW Steel Coated Products Ltd. is India's largest manufacturer and exporter of Coated Steel as well as Colour Coated Steel. The production facilities, Tarapur and Vasind Works, are located in the vicinity of major ports. The company's Kalmeshwar Works is centrally located near Nagpur to serve across regions.

JSW is an ISO 9001: 2008 Certified Organization and the first licensee producer for Galvalume® in India. The Tarapur plant is specialized in manufacturing Ultra-Thin Coated Products. The company is also a manufacturer of appliance grade colour coated products. JSW's Kalmeshwar Works is the first producer of Galvanized and Colour Coated Steel in India. JSW also has established India's first Appliance Grade Line to manufacture Pre Coated and Vinyl Coated Metal.





## Setting Benchmarks

- First continuous annealing line in India
- Widest Cold Rolling Mill (upto 1870 mm width)
- India's largest Coated Steel producer
- First Licensee Galvalume® producer in India
- JSW Steel Salem works is the largest integrated Alloy and Special Steel plant in India
- Widest Hot Strip Mill in India
- India's most modern and largest Vertical Caster-300/260/220 x 2200 mm
- India's only Multi-Radii Bloom Caster operational at Salem works
- ZERO EFFLUENT discharge for greener & cleaner environment
- 1.6 million trees planted at Vijayanagar works, transforming the area into a green oasis
- India's largest Long Steel producer by installed capacity





## Manufacturing Facilities



### Tarapur Works

JSW's Tarapur works is largest coated steel plant in a single location specialising in manufacturing of ultra thin coated products. The plant offers coated products catering to several sectors and located about 100 kms from Mumbai. The plant produces pre-painted galvanised / galvalume, galvanised and bare galvalume steel. It has unique service center facility to meet the customised requirements of various segments. The plant has zero discharge facility having multi-effect evaporator system for effluent treatment.

### Vasind Works

Vasind works is located 70 kms from Mumbai. It is a full fledged complex with cold rolling, galvanising and colour coating facilities. Vasind works has India's first appliance grade colour coating line, the grades of this line are approved by major white good manufacturers. It sources HR steel from Dolvi & Vijayanagar works to manufacture value added steel products.

### Kalmeshwar Works

JSW Steel Kalmeshwar works is centrally located 30 kms from Nagpur to cater the requirements from all regions. It has galvanising capabilities to produce higher thickness and higher coating. The Strict adherence to standards of excellence in quality has lead to attain many world renowned certification to kalmeshwar works. JSW Kalmeshwar works is first coated steel manufacturing facility in India. It produces galvanised, Galvalume, pre-painted galvanised / galvalume steel.

## Galvanised Products

JSW's Galvanised Coils and Sheets are produced through the Mills at Vasind, Tarapur and Kalmeshwar. JSW's Galvanised products are manufactured in Structural, Pipes and Tubes, High Tensile grades, conforming to JIS, EN, ASTM and IS standards. Dimensional accuracy is guaranteed by an automatic thickness control system using advanced numerical models. The downstream plants source HR steel coils from Dolvi Works.



JSW Vishwas is the premium galvanised sheet manufactured by JSW. Introduced in the year 2002, the brand has become synonym for quality and durability. Earlier known as Jindal Vishwas, it was rebranded as JSW Vishwas in 2010, to align with the corporate brand identity. The umbrella logo of JSW Vishwas symbolizes the trust that the millions have placed on the product. The huge promise of the JSW Vishwas brand is sustained by providing consistent quality product to the customers. Perfect weight and uniform coating throughout the surface area of the sheet are inherent quality of the genuine JSW Vishwas sheets. JSW Vishwas sheets when evaluated on life cycle cost basis, with competing products on factors like durability, ease of installation, maintenance, resale value, prove to be most favourable choice of the masses.



JSW Galveco is the premium lead-free Galvanised steel manufactured by JSW. It is one of a kind eco-friendly Galvanised steel, produced with superior technology to eliminate the production of lead which is highly harmful to the environment. Being lead-free, JSW Galveco is a superior brand of Galvanised steel that is not only safe but best suited for use in various industries like healthcare, hospitality, automobile and many others that have a high demand for Galvanised steel that is non-hazardous to the environment. JSW Galveco is manufactured with the latest technology & utmost precision in compliance with ROHS standards producing high quality & zero spangle Galvanised steel. Being lead-free & zero spangle, it is a product that is pure and green in nature and stands the test of time to prove the sturdiness and durability of the product.



# Advantage JSW



### Superior Corrosion Resistance

Superior corrosion resistance means longer service life for buildings, appliances, or parts made from Galvanised sheet. Atmospheric test results confirm that, depending on the environment, Initial encouraging laboratory test results were confirmed by long term atmospheric exposure tests in various environments ranging from severe marine to severe industrial. Additional exposure data from licensees around the world confirms the product's superior corrosion resistance.



### Heat Reflectivity (Cool Roof)

The shiny Galvanised surface maintains its brightness for extended periods even after exposure to moderately high temperatures (up to 350° C). Being reflective, this bright surface ensures energy efficiency in buildings and appliances and, as an efficient heat shield for automotive exhaust applications. To the consumer, this means lower energy costs.



### Environment-friendliness

Galvanised sheet's higher heat reflectivity also makes it environmental friendly since it helps lower atmospheric temperature. As per studies conducted by the EPA, higher atmospheric temperature contributes to greater smog formation - and reducing atmospheric temperatures by a few degrees can help reduce smog.



### Formability

Galvanised sheet can be readily roll formed on conventional roll forming equipment. It is made in a variety of strength levels, depending on the intended application, including Forming Quality (FQ) and Full Hard (FH). When additional formability is required for more difficult jobs, FQ or even Deep Drawing Quality (DDQ) can also be used.



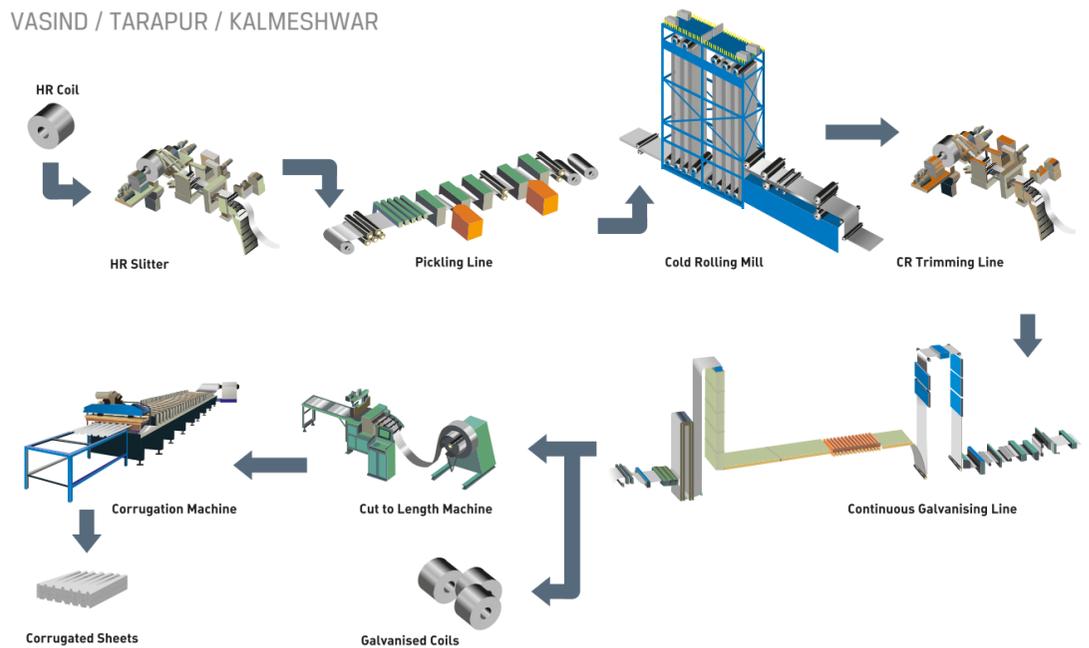
### Paintability

Galvanised sheet is an excellent substrate for paint-ability. It can be pre-painted on continuous coil painting lines, as individual formed parts in the factory or field painted at the site. The surface is mostly aluminium and thus readily paintable, offering consistently better paint adhesion. Corrosion resistance of G-90 galvanized, Galvalume® Coated in Scandinavian environment.



## Manufacturing Process

VASIND / TARAPUR / KALMESHWAR



# Galvanised Steel

## Product Specification

Thickness Range: 0.08mm - 3mm | Width Range: 760mm - 1335mm  
 Grades: IS 277, JIS G 3302, ASI397, EN 10326, EN 10327, ASTM A 653

## Specification and Thickness

Plant	Grade	Cold Treatment	CR_Thick	CR_Thick	Width	Width
			Min (MM)	Max (MM)	Min (MM)	Max (MM)
Vasind	CS ( Soft )	STL/ NSTL	0.225	1.55	50	1335
		STL/ NSTL/ SPM	0.235	1.55	50	1335
	CH ( Hard )	NSTL	0.25	0.75	50	1335
	DX ( YS 310 Max )	STL/ NSTL/ SPM	0.4	1.55	50	1335
	DD ( YS 260 Max )	STL/ NSTL/ SPM	0.4	1.55	50	1335
	ST ( YS 340 Min)	STL/ NSTL/ SPM	0.4	1.55	50	1335
Tarapur	CS ( Soft )	STL/ NSTL	0.223	0.3	50	1250
		STL/ NSTL/ SPM	0.25	0.3	50	1250
		STL/ NSTL/ SPM	0.3	2.6	50	1335
	CH ( Hard )	NSTL	0.076	0.143	50	920
			0.143	0.22	50	1000
			0.223	0.3	50	1250
		NSTL/ SPM	0.3	1.2	50	1335
	DX ( YS 310 Max )	STL/ NSTL/ SPM	0.6	1.2	50	1335
	ST ( YS 340 Min)		0.35	2.5	50	1335
	Kalmeshwar	CS ( Soft )	STL/ SPM	0.229	0.279	399
			0.279	0.479	399	1250
			0.479	3.15	79	1270
CH ( Hard )		NSTL	0.119	0.16	839	915
			0.16	0.229	839	1005
			0.229	0.239	399	1220
			0.239	0.279	399	1235
		NSTL/SPM	0.279	0.329	399	1235
			0.329	0.379	79	1235
			0.379	0.98	79	1335
DX ( YS 310 Max )		STL/ SPM	0.229	0.279	399	1005
			0.279	0.479	399	1250
			0.479	3.15	79	1270
ST ( YS 340 Min)		STL/ NSTL/ SPM	0.371	0.8	79	1250
Vijayanagar	CRFH/CRCA	-	0.35	3.2	830	1890
	GI (Soft)	SPM/TLL	0.35	2.3	800	1870
	GI (Str)	SPM/TLL	0.4	2.3	800	1870

## Zinc Coating Capability

Plant	CR_Thick Min (MM)	CR_Thick Max (MM)	Zn Coating GSM Min	Zn Coating GSM Max
Vasind	0.299	0.399	70	275
	0.4	0.449	70	275
	0.45	0.599	70	310
	0.6	1.55	70	350
Tarapur	0.076	0.119	80	120
	0.12	0.145	80	130
	0.146	0.229	80	183
	0.23	0.299	80	220
	0.3	0.399	80	275
	0.4	0.45	80	275
	0.451	0.6	80	310
	0.601	1.1	80	400
	1.101	2.5	80	600
	Kalmeshwar	0.119	0.16	79
0.161		0.379	79	180
0.38		0.7	79	275
0.701		1.45	79	450
1.451		3.15	79	600
Vijayanagar	0.35	0.4	80	180
	0.4	0.6	80	275
	0.6	2.3	80	350



## Thickness Tolerance

Plant	CR_Thick Min (MM)	CR_Thick Max (MM)	Thickness Delta MM
Vasind	0.225	0.400	0.025
	0.401	0.600	0.030
	0.601	1.200	0.040
	1.201	1.630	0.060
Tarapur	0.087	0.179	0.022
	0.18	0.299	0.026
	0.3	0.499	0.03
	0.5	0.799	0.03
	0.8	1.199	0.04
	1.2	1.499	0.06
Kalmeshwar	1.5	2.55	0.07
	0.119	0.179	0.014
	0.18	0.299	0.016
	0.3	0.499	0.02
	0.5	1.499	0.03
	1.5	1.999	0.04
Vijayanagar	2	2.499	0.07
	2.5	3.15	0.08
	0.35	0.4	0.040
	0.41	0.6	0.045
	0.61	0.8	0.050
	0.81	1	0.060
	1.01	1.2	0.070
	1.21	1.6	0.080
	1.61	2	0.90
	2.01	2.3	0.110

## Width Tolerance

Plant	Width Min (MM)	Width Max (MM)	Width Delta MM
Vasind	40	625	0.3
	626	805	0.3
	806	1335	0.5
Tarapur	40	680	0.5
	681	1335	3.0
Kalmeshwar	79	805	0.5
	805	1335	1.0
Vijayanagar	800	1200	5
	1201	1500	6
	1501	1870	8

## Length Tolerance

Plant	Width Min (MM)	Width Max (MM)	Length Min (MM)	Length Max (MM)	Length Delta
Vasind	199	625	600	1000	1.0
	626	805	1001	2500	2.0
	806	1335	2501	5000	3.0
Tarapur	500	749	500	4900	1.0
	750	1000	500	4900	2.0
	1001	1335	1500	4900	3.0
Kalmeshwar	199	1335	399	6000	1.0
Vijayanagar	800	1870	500	2000	3
	800	1870	2001	6300	3

## Passivation

Plant	Passivation	CR_Thick Min (MM)	CR_Thick Max (MM)
Vasind	CR6/CR3/ NIL	>0.225	≤1.55
Tarapur	AFP;CTOC	>0.235	≤2.5
	CR3/ NIL	>0.235	≤2.5
	CR6	≥0.09	≤2.5
Kalmeshwar	AFP	>0.171	≤0.950
	CR3/ NIL	>0.379	≤3.150
	CR6	0.119	≤3.150

### Coil ID Capability

Plant	CR_Thick Min (MM)	CR_Thick Max (MM)	Coil ID MM
Tarapur	0.35	1.05	610
Vasind	0.225	1.55	610
Kalmeshwar	0.229	3.15	610
Vijayanagar	0.35	2.3	508/610*

\* Untrimmed

### Galvanised - Soft (Commercial, Forming, Drawing)

Specification	Grade	Chemical Composition (Values are in %)									
		C	Mn	Si	P	S	Al	Cu	Ni	Cr	Mo
ASTM 653/A Low Carbon	CS Type A	0.1	0.6		0.03	0.035		0.2	0.2	0.15	0.06
	CS Type B	0.02 - 0.15	0.6		0.03	0.035		0.2	0.2	0.15	0.06
	CS Type C	0.08	0.6		0.1	0.035		0.2	0.2	0.15	0.06
	FS Type A	0.1	0.5		0.02	0.035		0.2	0.2	0.15	0.06
	FS Type B	0.02 - 0.10	0.5		0.02	0.03	0.2	0.2	0.15	0.06	0.008
	DDS	0.06	0.5		0.02	0.025	0.010 min	0.2	0.2	0.15	0.06
	EDDS	0.02	0.4		0.02	0.02	0.010 min	0.2	0.2	0.15	0.06
JIS G 3302	SGCC	0.12	0.6		0.04	0.04					
	SGCH	0.15	0.6		0.05	0.05					
	SGCD 1	0.12	0.5		0.04	0.04					
	SGCD 2	0.1	0.45		0.03	0.03					
	SGCD 3	0.08	0.45		0.03	0.03					
IS 277 : 2003 / IS 513 : 2008 (GI)	0	0.15	0.6		0.05	0.035					
	D	0.12	0.5		0.4	0.035					
	DD	0.1	0.45		0.025	0.03					
	EDD (AL Killed)	0.08	0.4		0.02	0.03					
	EDD (IF)	0.06	0.25		0.02	0.02					
EN 10327	DX51D	0.12	0.6	0.5	0.1	0.045					
	DX52D										
	DX53D										
	DX54D										
AS 1397	G1	0.12			0.04	0.035					
	G2	0.1			0.03	0.03					
	G3	0.08			0.02	0.025					



					Mechanical Properties				
V	Cb	Ti	N	B	Yield Strength (Mpa min.)	Tensile Strength (Mpa min.)	% Elongation	Gauge Length (mm)	Direction (L/T)
0.008	0.008	0.025			170/380		>20	50 GL	L
0.008	0.008	0.025			205/380		=20	50 GL	L
0.008	0.008	0.025			170/410		=15	50 GL	L
0.008	0.008	0.025			170/310		=26	50 GL	L
0.008	0.025				170/310		=26	50 GL	L
0.008	0.008	0.025			140/240		=32	50 GL	L
0.1	0.1	0.15			105/170		=40	50 GL	L
						270	36	80 GL	L
						270	38	80 GL	L
						270	40	80 GL	L
					280	410	28	50	T
					240	370	31	50	T
					220	350	35	50	T
					210	350	37	50	T
		0.15			190	350	40	50	T
		0.3				270-500	22	80 GL	T
					140-300	270-420	26	80 GL	T
					140-260	270-380	30	80 GL	T
					120-220	260-350	36	80 GL	T
							30	27	T
							35	32	T

## Galvanised Structural

Specification Grade	C	Chemical Composition (values are in %)								
		Mn	Si	P	S	Al	Cu	Ni	Cr	Mo
ASTM 653/A Structural	GradeSS 33 [230]	0.2	-	-	0.040	0.040	-	0.200	0.200	0.150
	GradeSS 37 [255]	0.2	-	-	0.100	0.040	-	0.200	0.200	0.150
	GradeSS 40 [275]	0.25	-	-	0.100	0.040	-	0.200	0.200	0.150
	Grade 50 [340]class 1	0.4	-	-	0.200	0.040	-	0.200	0.200	0.150
	Grade 50 [340]class 2	0.4	-	-	0.200	0.040	-	0.200	0.200	0.150
	Grade 50 [340]class 3	0.5	-	-	0.040	0.040	-	0.200	0.200	0.150
	Grade 80 [550]	0.20	-	-	0.040	0.040	-	0.200	0.200	0.150
ASTM 653/A Structural-HSLAS Type A	40[275]	0.20	1.20	-	-	0.035	-	-	0.200	0.150
	20[340]	0.20	1.20	-	-	0.035	-	0.200	0.200	0.150
	60[410]	0.20	1.35	-	-	0.035	-	0.200	0.200	0.150
	70[480]	0.20	1.65	-	-	0.035	-	0.200	0.200	0.150
	80[550]	0.20	1.65	-	-	0.035	-	0.200	0.200	0.150
ASTM 653/A Structural-HSLAS Type B	40[275]	0.15	1.20	-	-	0.035	-	-	0.200	0.150
	20[340]	0.15	1.20	-	-	0.035	-	0.200	0.200	0.150
	60[410]	0.15	1.20	-	-	0.035	-	0.200	0.200	0.150
	70[480]	0.15	1.65	-	-	0.035	-	0.200	0.200	0.150
	80[550]	0.15	1.65	-	-	0.035	-	0.200	0.200	0.150
JIS G 3302	SGC 340	0.25 max.	0.170 max.	-	0.10 max.	0.035 max.	-	-	-	-
	SGC 400	0.25 max.	0.170 max.	-	0.10 max.	0.035 max.	-	-	-	-
	SGC 440	0.25 max.	0.170 max.	-	0.20 max.	0.035 max.	-	-	-	-
	SGC 490	0.25 max.	0.170 max.	-	0.20 max.	0.035 max.	-	-	-	-
	SGC 570	0.25 max.	0.170 max.	-	0.20 max.	0.035 max.	-	-	-	-
EN 10326 S220 GD	0.20	1.70	0.60	0.100	0.045	-	-	-	-	-
	S250 GD									
	S280 GD									
	S320 GD									
	S350 GD									
	S550 GD									
AS 1397	G 250	0.12	0.50	-	0.040	0.035	-	-	-	-
	G 300	0.30	1.60	-	0.100	0.035	-	-	-	-
	G 350	0.30	1.60	-	0.100	0.035	-	-	-	-
	G 450	0.20	1.20	-	0.040	0.030	-	-	-	-
	G 500	0.20	1.20	-	0.040	0.030	-	-	-	-
	G 550	0.20	1.20	-	0.040	0.030	-	-	-	-

						Mechanical Properties				
V	Cb	Ti	N	B	Yield	Strength (Mpa.min.)	Tensile Strength	% Elongation (Mpa.min.)	Guage length (mm)	Direction (L/T^)
0.060	0.008	0.008	0.025	-	-	230	310	20	50GL	L
0.060	0.008	0.008	0.025	-	-	255	360	18	50GL	L
0.060	0.008	0.008	0.025	-	-	275	380	16	50GL	L
0.060	0.008	0.008	0.025	-	-	340	450	12	50GL	L
0.060	0.008	0.008	0.025	-	-	340	-	12	50GL	L
0.060	0.008	0.008	0.025	-	-	340	480	12	50GL	L
0.060	0.008	0.015	0.025	-	-	550	570	-	50GL	L
0.160	0.01 min.	0.005 min.	0.01 min.	-	-	275	340	22	50GL	L
0.160	0.01 min.	0.005 min.	0.01 min.	-	-	340	410	20	50GL	L
0.160	0.01 min.	0.005 min.	0.01 min.	-	-	410	480	16	50GL	L
0.160	0.01 min.	0.005 min.	0.01 min.	-	-	480	550	12	50GL	L
0.160	0.01 min.	0.005 min.	0.01 min.	-	-	550	620	10	50GL	L
0.160	0.01 min.	0.005 min.	0.01 min.	-	-	275	340	24	50GL	L
0.160	0.01 min.	0.005 min.	0.01 min.	-	-	340	410	22	50GL	L
0.160	0.01 min.	0.005 min.	0.01 min.	-	-	410	480	18	50GL	L
0.160	0.01 min.	0.005 min.	0.01 min.	-	-	480	550	14	50GL	L
0.160	0.01 min.	0.005 min.	0.01 min.	-	-	550	620	12	50GL	L
-	-	-	-	-	-	245	340	20	80GL	L
-	-	-	-	-	-	295	400	18	80GL	L
-	-	-	-	-	-	335	440	18	80GL	L
-	-	-	-	-	-	365	490	16	80GL	L
-	-	-	-	-	-	560	570	-	80GL	L
-	-	-	-	-	-	220	300	20	80GL	L
-	-	-	-	-	-	250	330	19	80GL	L
-	-	-	-	-	-	280	360	18	80GL	L
-	-	-	-	-	-	320	390	17	80GL	L
-	-	-	-	-	-	350	420	16	80GL	L
-	-	-	-	-	-	550	560	-	80GL	L
-	-	-	-	-	-	250	320	25	22	L
-	-	-	-	-	-	300	340	20	18	L
-	-	-	-	-	-	350	420	15	14	L
-	-	-	-	-	-	450	480	10	9	L
-	-	-	-	-	-	500	520	8	7	L
-	-	-	-	-	-	550	550	2	2	L

# Packaging

JSW offers its products with effective packaging as per customer requirements and in compliance with international norms. Emphasis is placed to ensure durability, prevention of any damage during transportation and better storage. JSW with its years of experience and regular benchmarking with various national and international companies, endeavours to improvise packaging in accordance with changing customer needs.

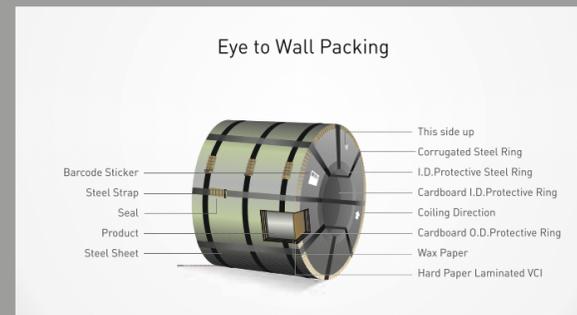
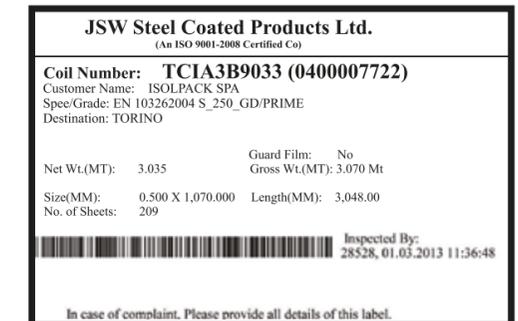
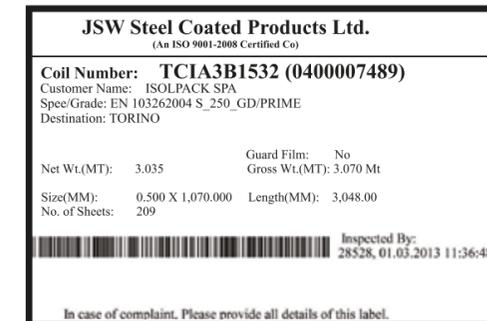
JSW has a stringent procedure for evaluating the competency level of suppliers for packaging material. Material quality is verified at the well-equipped and sophisticated JSW laboratory before offering for use.

The packing requirements for export and domestic markets are different. However, the type of packaging is determined in consideration of the following points:

- Customer needs
- Duration of transportation
- Environmental conditions during transit
- Handling during transit
- Handling at customer's premises
- Storage practices
- International regulation on package material

# Marking

Marking, in concept, leads to product accountability and verification at the time of production, transportation and delivery. Considering the vast product range at JSW, labelling practices ensure a foolproof identification and traceability.



## Research & Testing facilities

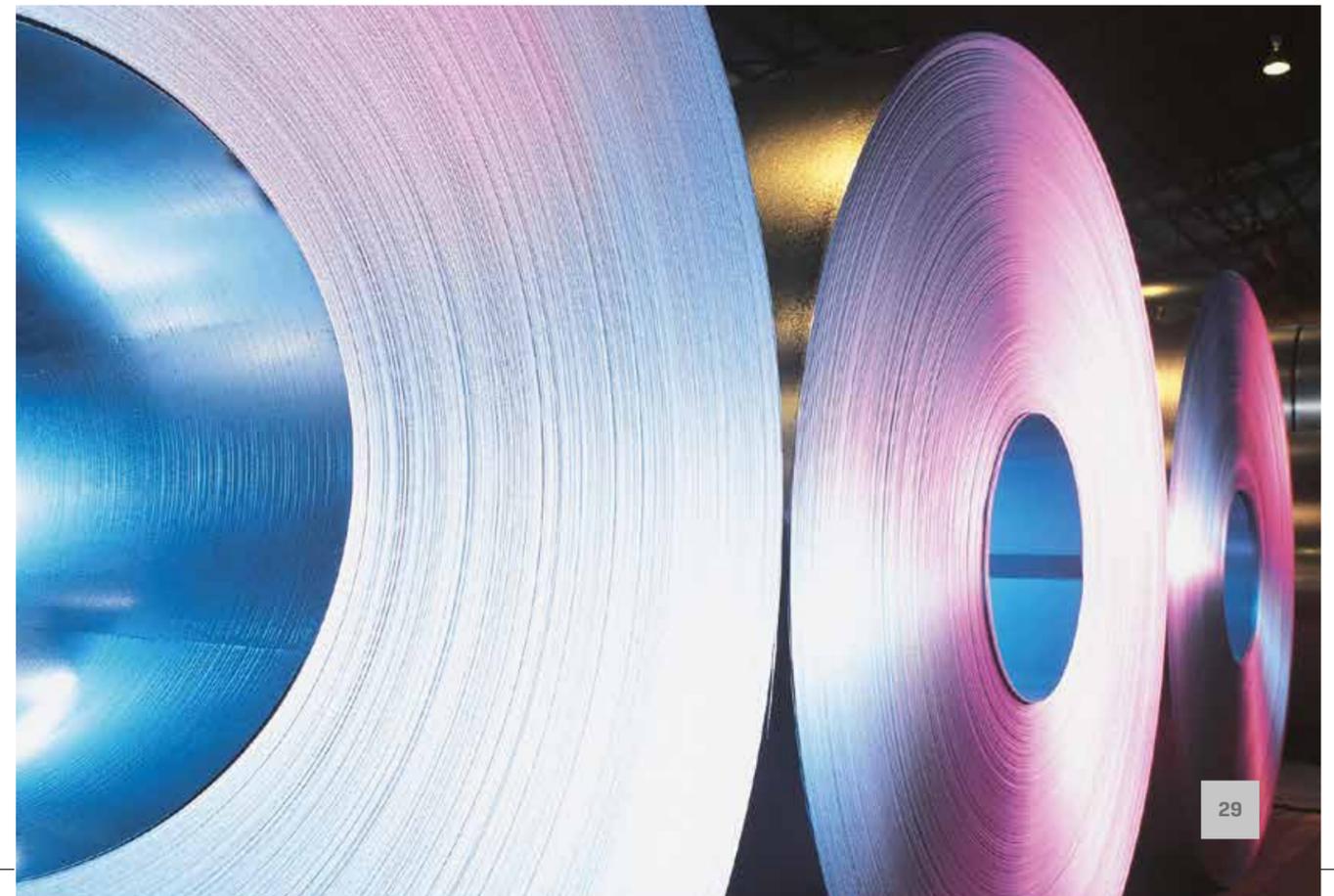
- Metallurgical Microscope
- Karl Fischer Titrator
- Portaspec for Surface Chrome
- Muffle Furnace
- Computerized UTM
- Roughness Tester
- Vicker's Hardness Tester
- Lock Former
- Salt Spray Chamber
- Digital Hardness Tester
- Salt Spray Chamber
- Optical Emission Spectrometer
- Atomic Absorption Spectrometer
- Low Magnification Microscope
- Scratch Resistance Test
- Pencil Hardness Test
- Bend Test
- Accelerated Corrosion Test
- Methyl Ethyl Ketone (MEK) Test
- Dry Film Thickness Test



## The Ultimate Test

Galvanised Coils Are Used In A Variety Of Applications

- Automobile
- Roofing & Cladding
- Ducting
- Purlins / Peb
- Panels
- Pipes & Tubes
- General Engineering





## Sales Offices

### Corporate Head Office

JSW Steel Ltd.  
 JSW Centre  
 Bandra Kurla Complex, Bandra (East), Mumbai - 400 051  
 Tel.: +91 22 - 42861000 | Fax: +91 22 - 42863000



### Sales Offices

**AHMEDABAD**  
 Office no. 501 & 502  
 Mondeal Heights, B-wing Iscon Cross Road,  
 Near Novotel Hotel, opp. Karnavati Club, S. G. Highway,  
 Ahmedabad-380 054  
 Mobile: 09427334449  
 Tel: 079-49000270/271/272/273/274/275

**BENGALURU**  
 The Estate,  
 3rd Floor, West Wing, 121,  
 Dickenson Road, Bengaluru - 560 042  
 Tel: 080-42448888

**CHENNAI**  
 5th Floor, KRM Plaza, No. 2,  
 Harrington Road, Chetpet, Chennai - 600 031  
 Tel: 044-28297420, 28297422

**COIMBATORE**  
 T. V. Swamy Road (West), Coimbatore - 641 002  
 Tel: 0422-2541870

**DELHI**  
 NTH Complex (4th Floor),  
 A-2, Shaheed Jeet Singh Marg,  
 Outub Institutional Area, New Delhi - 110016  
 Tel: 011-48178600 | Fax: 011-48178699

**FARIDABAD**  
 Piyush Global I Building  
 1st Floor, Plot No.5, Opposite Escorts Mujesar Metro Station  
 Main Mathura Road, NH-2, YMCA Chowk, NIT  
 Faridabad - 121006, Haryana  
 Tel: 0129-2239248, 2232387

**NOIDA**  
 14A, Industrial Area, Buland Shar Road,  
 Ghaziabad - 201 009  
 Tel: 0120-3262875, 2867142

**GUWAHATI**  
 106, 3rd Floor, Meer Market, Masjid Lane, Kamarpatty, Guwahati -  
 781 001  
 Tel: 0361-2730054

**HYDERABAD**  
 7th Floor, Surya Towers, 105, Sardar Patel Road,  
 Secunderabad - 500 003  
 Tel: 040-27846669/79

**INDORE**  
 3rd Floor, Lakshya Badgara, 13/1,  
 New Palasia, Near Curewell Hospital, Indore - 452 001  
 Tel: 0731-2532156/57/58/59, 4043613

**JAIPUR**  
 Evershine Tower, F-1, 705, 7th floor,  
 Amarपाली Circle, Vaishali Nagar, Jaipur - 302 021  
 Tel: 0141-4026760/62/63/64

**KANPUR**  
 Room No.105, Ratan Esquire, Chunniganj,  
 Kanpur - 208 001  
 Tel: 0512-3271907

**KOCHI**  
 Mitsun Enterprise, 30/1854 B4, 1st Floor, Ponnuruni  
 Road, Chalikkavattom Junction, Vytilla P.O.,  
 Kochi - 682 019  
 Tel: 0484-4026392/4063294

**KOLKATA**  
 Godrej Waterside, 10th floor, Tower - 1, Unit No. 1003,  
 Block - DP, Plot - 5, Sector V, Salt Lake City, Kolkata - 700 091,  
 Tel: 033-40002020 | Fax: 033-40002021

**LUDHIANA**  
 109, Modelgram, Near Kochar Market, Opp. Malwa  
 School, Ludhiana - 141 002  
 Tel: 0161-6578944, 6450816

**MUMBAI**  
 Grande Palladium, 6th Floor, 175,  
 CST Road, Kalina, Santacruz (East),  
 Mumbai - 400 098  
 Tel: 022-61871000

**NAGPUR**  
 Poonam Plaza, Palm Road, Civil Lines, Nagpur-440 001  
 Tel: 0712- 2520333

**PATNA**  
 1, Tilak Nagar East, Behind Patna Diesel, Kankarbagh, Patna - 800 020  
 Tel: 08002230517

**PUNE**  
 Epicentre  
 2nd Floor, CTS No. 4/6, Above Royal Enfield Showroom  
 Shivajinagar, Wakdewadi, Pune - 411005  
 Tel: 020-64104547, 27111427

**RUDRAPUR**  
 Plot No. 264, By Pass Road, Village Kishanpur, Kichha, District Udham  
 Singh Nagar, Uttrakand - 263 148  
 Tel: 05944-263290

### Middle East Office

JSW Steel Ltd. (DMCC Branch)  
 Unit 309 | X - 3 Tower | Jumeirah Lakes Towers  
 Dubai, UAE P.O. Box # 33650  
 Tel.: +971 4 4385286 | Fax: +971 4 4385297  
 Mobile: +971 55336097