

CELİK METALS



JSL
JINDAL STAINLESS

COMMITTED TO
QUALITY AND SERVICE



Rockwell

Rockwell

1700
CAP
SP
SL



MoU No. : PTNODE0143



Certificate of MoU Partnership


This is to certify that


Celik Metals, Rohad

has entered into an

Memorandum of Understanding (MoU)

for dealing in Stainless Steel Products of Jindal Stainless,
on non-exclusive basis.



Rajeev Garg
Head - Domestic Sales


Vijay Sharma
Head-Sales & Distribution (Domestic & Exports)

**Subject to Terms & Conditions*

ABOUT US





CELIK METALS was incorporated in the year 2016 initially doing a production of 200 tonnes per month. With the sheer dedication and hard work of Mr. Rajesh Aggarwal. The company is growing at a consistent pace wherein within a very short period we have more than doubled our production to 500 tonnes per month. Our focus is on “Transforming Potential into Performance”. We are an ISO 9001-2015 certified company. Sprawling over an area of 2 acres in Bahadurgarh, Haryana we have the most advanced manufacturing unit having automatic tubemills and polish machines with the latest tools and separate sections for all the units like the Processing Unit, Quality Unit and Packaging & Storage Unit. We manufacture, stock and supply welded stainless steel tubes and pipes and are well equipped to serve all kind of industries with our competitive pricing, high quality and low lead time for delivery. We are committed to meet and exceed our customer’s demand and expectation by providing quality products in record time while assuring continuous upgradation of production and product.

WE AT CELIK METALS ARE DRIVEN WITH PASSION TO PROVIDE QUALITY WITH INTEGRITY.





PRODUCT

Stainless Steel tubes and pipes constitute the enclosed sections of various industrial processes and systems which transport a range of substances-liquid, gaseous and solid, meeting a broad range of design criteria suited to a wide variety of consumer, commercial and industrial applications. Their critical attributes include:

- High resistance to corrosion
- Strength at elevated temperatures
- Toughness at cryogenic temperatures.
- Proven performance in the harshest aggressive environment
- Aesthetic and hygienic value

PRODUCT RANGE

TYPE	GRADE	SPECIFICATION	SIZE RANGE
Austenitic	AISI 304, AISI 304 L, AISI 316, AISI 316 L	ASTMA 249, 269, 270, 312	10 mm to 168.3 mm
Low Ni Austenitic	AISI 202, JT, JSLU, J1, J4	As per customer demand	10 mm to 168.3 mm
Ferritic	AISI 409, 409 L, 430	As per customer demand	- DO -

ABOUT
THE
PRODUCT





Size	Wall Thickness	(mm)	2.00	1.50	1.20	0.95	0.80	0.60
		Gauge	14	16	18	20	22	24
3/8	Round (Outer Diameter in Inch)			1.5	1.2	1.1	0.8	
1/2				2.5	2.1	1.7	1.4	1.1
5/8				3.3	2.7	2.1	1.8	1.4
3/4		5.2	4.0	3.2	2.6	2.2	1.7	
7/8			4.7	3.8	3.1	2.6	2.0	
1		7.1	5.4	4.4	3.5	3.0	2.2	
1 ¼		9.0	6.9	5.5	4.4	3.7		
1 ½		10.9	8.3	6.7	5.3	4.5		
2		14.8	11.2	9.0	7.2	6.0		
2 ½		18.6	14.1	11.3	9.0	7.6		
3		22.4	16.9	13.6	10.8	9.1		
4		30.1	22.7	18.2				
10 x 10 (3/8 x 3/8)	Square (mm x mm)			2.1	1.7	1.4		
12 x 12 (1/2 x 1/2)				3.3	2.7	2.1		1.8
15 x 15 (5/8 x 5/8)				4.0	3.2	2.6		2.2
20 x 20 (3/4 x 3/4)		7.1	5.4	4.4	3.5	3.0		
25 x 25 (1 x 1)		9.0	6.9	5.5	4.4	3.7		
30 x 30 (1 ¼ x 1 ¼)		10.9	8.3	6.7	5.3	4.5		
40 x 40 (1 ½ x 1 ½)		14.8	11.2	9.0	7.2	6.0		
50 x 50 (2 x 2)		18.6	14.1	10.3	9.0	7.6		
60 x 60 (2 ½ x 2 ½)		22.4	16.9	13.6	10.8			
80 x 80 (3 x 3)		30.1	22.7	18.2				
10 x 20 (3/8 x 3/4)	Rectangle (mm x mm)			4.0	3.2	2.6	2.2	
10 x 30 (3/8 x 1 ¼)				5.4	4.4	3.5	3.0	
10 x 40 (3/8 x 1 ½)				6.9	5.5	4.4	3.7	
10 x 50 (3/8 x 2)				8.3	6.7	5.3	4.5	
26 x 13 (1 x ½)				5.4	4.4	3.5	3.0	
40 x 20 (1 ½ x 3/4)		10.9	8.3	6.7	5.3	4.5		
50 x 25 (2 x 1)		13.8	10.5	8.4	6.7	5.7		
75 x 25 (3 x 1)		14.8	11.2	9.0	7.2	6.0		
60 x 40 (2 ½ x 1 ½)		18.6	14.1	10.3	9.0	7.6		
65 x 35 (2 ½ x 1 ¼)		18.6	14.1	10.3	9.0	7.6		
80 x 40 (3 x 1 ½)		22.4	16.9	13.6	10.8			
110 x 50 (4 x 2)		30.1	22.7	18.2				
13 x 33	Oval		5.4	4.4	3.5	3.0		
2" ROUND	Slotted			10.5				
40 X 40 (1 ½ X 1 ½)				10.2				
40 X 60 (1 ½ X 2 ½)				12.8				
50 X 50 (2 X 2)				12.4				

* Weight in kg. per length of 20'

WEIGHT CHART NB SIZE

		Sched. 10S		Sched.20S	
NB Pipe Size	OD mm	Spess.	Kg/m	Spess.	Kg/m
½	21.3	-	-	2.70	1.29
¾	26.7	-	-	2.78	1.71
1	33.4	2.77	2.12		
1¼	42.2	2.77	2.74		
1½	48.3	2.77	3.17		
2	60.3	2.77	4.01		
2½	73.0	3.05	5.36		
3	88.9	3.05	6.57		
4	114.3	3.05	8.52		

WEIGHT FORMULA

Pipes & Tubes (Kg per Foot)

$$(\text{OD} - \text{Thickness}) \times \text{Thickness} \times .00756$$

(All dimensions are in mm.)

SS Sheets (in grams per piece)

$$\text{Length} \times \text{Width} \times \text{Thickness} \times .00785$$

(All dimensions are in mm.)

SS Circles (in grams per piece)

$$(\text{OD} \times \text{OD} \times \text{Thickness}) / 160$$

(All dimensions are in mm.)

MECHANICAL PROPERTIES

Grade	Tensile Strength (MPA) (min)	% Yield Strength MPA (min)	% Elongation (min)	Hardness HRB (max)
SS 304	515	205	40	92
SS 304 L	485	170	40	92
J4	650	325	40	100
JSL – T	650	325	40	100
JSLU – DD	650	325	40	100
JSLU – SD	650	350	40	100
409	380	170	20	88
409 L	380	170	20	88

CHEMICAL COMPOSITION

Grade	C% MAX	Si% MAX	Mn %	Cr. %	Ni %	P% MAX	S% MAX	Other Element %
SS304	0.07	0.75	2.00 MAX	17.5 – 19.5	8 – 10.5	0.045	0.03	-
SS 304 L	0.03	0.75	2.00 MAX	17.5 – 19.5	8 - 12	0.45	0.03	-
J4	0.1	0.75	8.5 – 10.0	15 – 16	1 – 2	0.08	0.01	Cu 1.5 – 2
JSL – T	0.1	0.75	9.0 – 10.0	14.5 – 16.5	0.25 – 0.35	0.1	0.01	-
JSLU – DD	0.15	0.75	9.7 – 10.7	15.1 – 16.0	0.45 – 0.60	0.1	0.03	Cu 1.9 – 2.2
JSLU – SD	0.15	0.75	9.7 – 10.3	13.25 – 14.25	0.45 - 0.50	0.1	0.03	Cu 1.25 – 1.75
409	0.03	1	1	10.5 – 11.7	0.5 MAX	0.04	0.02	Ti = 6 x (C + N) MIN 0.5 Max
409 L	0.03	1	1	10.5 – 11.7	0.5 MAX	0.04	0.03	Ti = 6 x (C + N) MIN 0.75 Max



CERTIFICATE



This is to Certify that the
Quality Management Systems
of

M/s CELIK METALS

Castrol Road, Sector -10,Village-Rohad,Bahadurgarh ,
Haryana -124501, India

has been found to comply with

ISO 9001:2015

This certificate is applicable to the following scope
Manufacturing of Stainless Steel Pipes, Tube & Related Allied Products.

Certificate No :: I-QSC201709003

Date of initial registration	11, September, 2017
1 st Surveillance Audit Done On	10, August , 2018
2 nd Surveillance Audit on or before	11, August , 2019
Certificate expiry	10, August , 2019
Recertification Due	10, September, 2020

Authorized Signatory

BQC CERTIFICATIONS

Website: www.bqccert.com, E-mail : info@bqccert.com
Accredited by International Accreditation Service

The validity of this certificate can be verified at www.bqccert.com or through info@bqccert.com. This certificate is the property of BQC Certifications, and must be returned on request. Accreditation details are available with IAS, (International Accreditation Services) Inc. USA at www.iasonline.org





QUALITY CONTROL

It is the stringent regime of quality controls and procedure established at Celik that gives its products the critical advantages in the industry. Strict process requirements and continuous monitoring throughout the production process minimises the range of possible deviations in the final output. Also, at the end of this meticulously controlled process, Celik tubes are subjected to a number of harsh and absolutely uncompromising quality checks.

-HYDROSTATIC TESTING : 100% Hydrostatic testing is carried out according to ASTM A 1016 norms.

-DESTRUCTIVE/ MECHANICAL TESTING : Tensile, Hardness, Flattening, Flare, Flange and Reverse bend tests are carried out in full compliance with relevant standards i.e ASTM A 1016 norms this ensures trouble free expansion in use at customer's end.

-At final stage each and every length of tubes/pipes is subjected to a thorough visual inspection by trained staff to detect surface flaws and other imperfections.

-Any other quality checks can be provided on client's request.



QUALITY POLICY

We at Celik aim to achieve and sustain excellence in all our activities. We produce and supply superior quality product in minimum time. We meet requirements of customer through continuous improvement in quality, delivery and cost.

PACKAGING

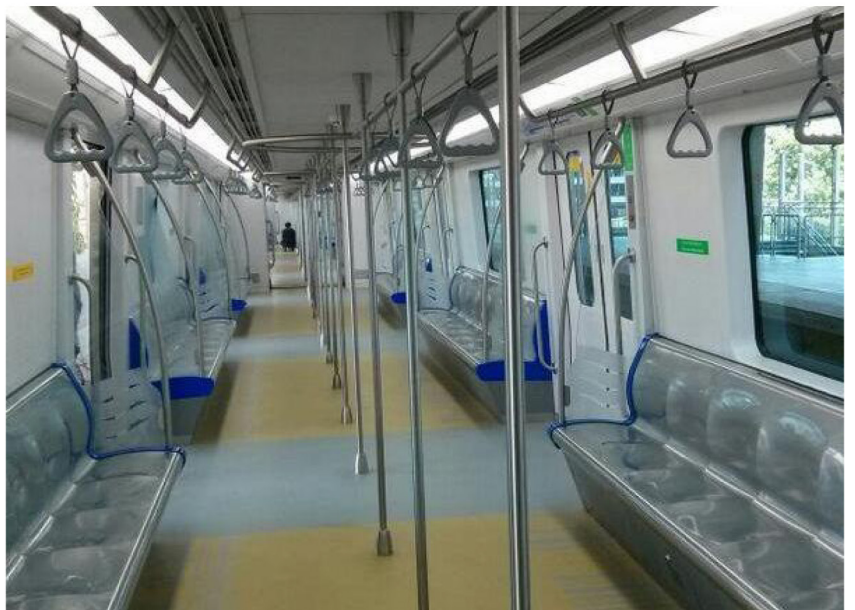
Our products have to arrive safely, quickly and without damages at their destination in any part of the world. Adequate packaging is also an essential part of quality assurance. In case of contaminations or damage, the best material section and fabrication are useless as the goods are not properly protected. Within the scope of extensive quality assurance, Celik Metals has developed customized packaging methods to suit the size of the products and transport conditions.

Availability of comprehensive range of products and quick service are prerequisites of well kept stock. Celik Metals offers wide range of products with different material grade, thus, it is possible for us to guarantee the delivery of any size available.



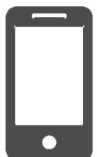


APPLICATION





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