



»
▪ *Stainless Steel
Reinforcement Bar*

STRENGTHENING FUTURE...
...WITH THE POWER OF STAINLESS STEEL



Raajratna[®] Metal Industries Limited



Green Power

We Use
100%
GREEN POWER

thinkgreen
actgreen

THE ONLY COMPANY

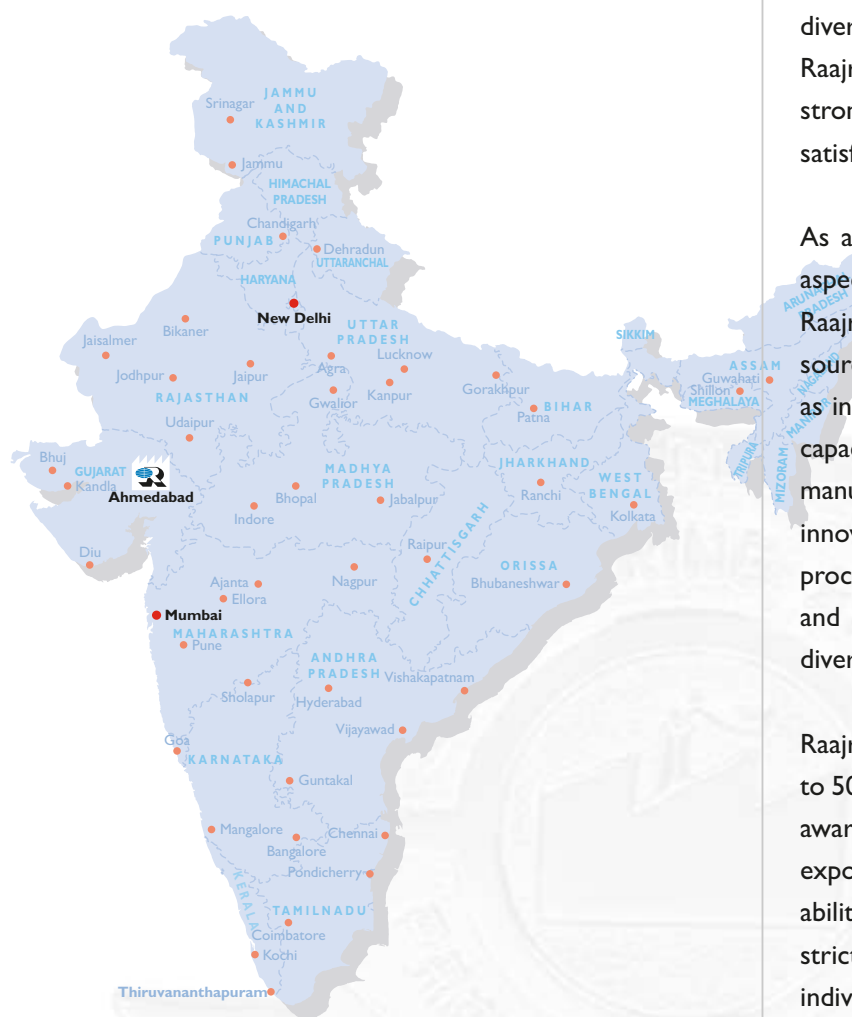
using 100% green power

for manufacturing stainless steel wires & bars





Company Profile



Raajratna Metal Industries Limited an "ISO 9001-2008" accredited company, started production of stainless steel wires in 1990 and subsequently diversified to bright bars. Since it's beginning Raajratna has used state-of-the art technology with strong emphasis on product quality and customer satisfaction.

As a result of continuous improvement in every aspect of business, within a short span, today Raajratna has become one of the most reliable source of quality product both in domestic as well as in international market with annual production capacity of 30,000 tonnes. Because of its large manufacturing capacity and continuous product innovation with regular upgradation of production process. Raajratna has achieved economy of scale and is able to serve customers having highly diversified requirements.

Raajratna exports more than 80% of its production to 50 countries across the globe. Raajratna is being awarded every year since 1991 for excellence in exports. It has been possible due to Raajratna's ability to meet exact market requirements and strict adherence to delivery schedule with an individual attention to every customer.



Product Range

STAINLESS STEEL REINFORCEMENT BAR





Product Properties

Reinforcement Bars

Chemical Composition

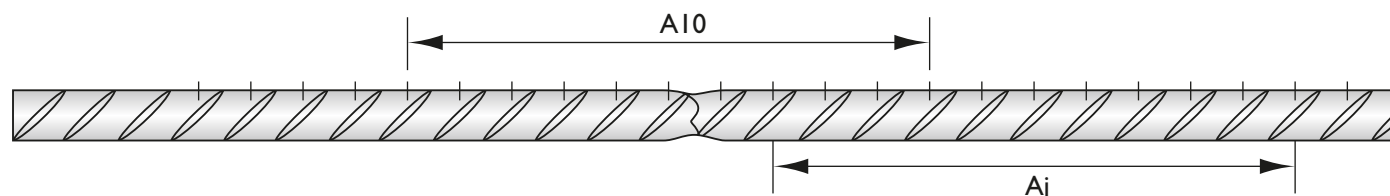
PRODUCTION PROCESS	COLD DRAWN/HOT ROLLED	GRADE	C	Mn	P	S	Si	Cr	Ni	Cu	Mo	N	Ti	
			Max	Max	Max	Max	Max						Max	Min
			%	%	%	%	%	%	%	%	%	%	%	%
		I.4301-304	0.080	2.00	0.045	0.030	1.00	18.00-20.00	8.00-10.00	---	---	0.11	---	
		I.4401-316	0.080	2.00	0.045	0.030	1.00	16.00-18.00	10.00-14.00	---	2.00-3.00	0.11	---	
		I.4571-316Ti	0.080	2.00	0.045	0.030	1.00	16.00-18.00	10.00-14.00	---	2.00-3.00	0.11	5xC	
		I.4362 [Duplex]	0.030	2.00	0.030	0.020	1.00	22.00-24.00	3.50-5.50	0.10-0.60	0.10-0.60	0.05-0.20	---	
		I.4462 [Duplex]	0.030	2.00	0.030	0.020	1.00	21.00-23.00	4.50-6.50	0.10-0.60	2.50-3.50	0.10-0.22	---	

Mechanical Properties

PRODUCTION PROCESS	COLD DRAWN	GRADE	Size in MM	Tensile Strength N/MM ²	Yield Strength N/MM ²	% Elongation		T. S. / 0.2 % Yield
						Aj	A10	
						≥	≥	≥
		I.4301-304	3 - 16	≥ 600	≥ 550	3	15	1.08
		I.4401-316	3 - 16	≥ 600	≥ 550	3	15	1.08
		I.4571-316Ti	3 - 16	≥ 600	≥ 550	3	15	1.05
		I.4362 [Duplex]	3 - 16	≥ 800	≥ 600	3	15	1.08
		I.4462 [Duplex]	3 - 16	≥ 800	≥ 600	3	15	1.08
		I.4301-304	16 - 25	≥ 600	≥ 500	3	15	1.08
		I.4401-316	16 - 25	≥ 600	≥ 500	3	15	1.08
		I.4571-316Ti	16 - 25	≥ 600	≥ 500	3	15	1.05
		I.4462 [Duplex]	16 - 25	≥ 700	≥ 500	3	15	1.08

Mechanical Properties

PRODUCTION PROCESS	HOT ROLLED	GRADE	Size in MM	Tensile Strength N/MM ²	Yield Strength N/MM ²	% Elongation		T. S. / 0.2 % Yield
						Aj	A10	
						≥	≥	≥
		I.4301-304	16 - 50	≥ 600	≥ 500	3	15	1.08
		I.4401-316	16 - 50	≥ 600	≥ 500	3	15	1.08
		I.4571-316Ti	16 - 50	≥ 600	≥ 500	3	15	1.08
		I.4462 [Duplex]	16 - 50	≥ 600	≥ 500	3	15	1.08



Elongation :

Aj = 100 mm marked before tension measured after tension to fracture measuring point 2.5 x diameter from fracture.
 A10 = Diameter x 10 marked before tension measured after tension to fracture measured across fracture.



Delivery Conditions

Weight Metre

PRODUCTION PROCESS	Dimensions	Weight / Metre	Coils	Bars	Bars Identification
	MM	KG	KG Max.	MM Max.	
COLD DRAWN / HOT ROLLED	3	0.056	700	12000	
	4	0.100	700	12000	
	5	0.155	700	12000	
	6	0.224	700	12000	
	7	0.304	700	12000	
	8	0.397	700	12000	
	10	0.620	700	12000	
	12	0.893	700	12000	
	14	1.216	700	12000	
	16*	1.589	700	12000	
	20*	2.482	700	12000	
	25*	3.878	700	12000	
	30	5.585	NA	12000	
	32	6.353	NA	12000	
	35	7.601	NA	12000	
	40	9.927	NA	12000	
50	15.512	NA	12000		

* Hot rolled bars will be supplied in cut length only upto 12 meter max.

Raajratna is going to apply for CE approval for reinforcing steel very soon.

Raajratna also supplies stainless steel tie wires for construction.

Choice of Reinforcing :

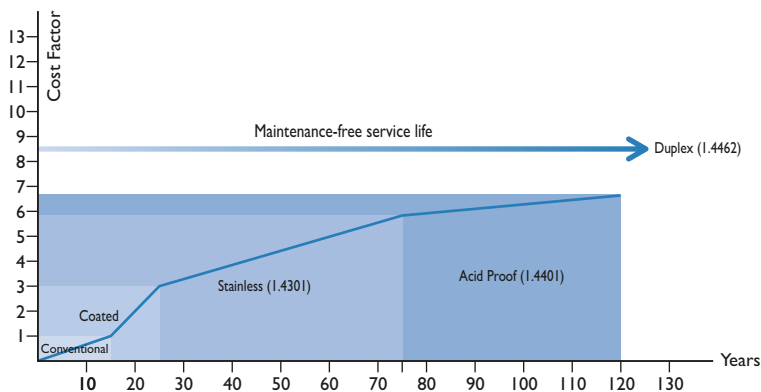
The grade of reinforcement steel will depend upon type of corrosive atmosphere.

For moderate atmosphere high yield reinforcement steel like 1.4301 (304) can be used.

For more severe corrosive atmospheres 1.4401 (316), 1.4571 (316Ti) can be used.

For high aggressive atmospheres duplex steel 1.4462 (2205) is recommended.

Reinforcement Cost & Life Span Chart :





Quality Assurance & Global Presence

Quality Policy

We at Raajratna are committed to satisfy the needs and expectation of the customers by manufacturing and supplying stainless steel wires, stainless steel bright bars and heat resistance wires of stated quality, timely delivery and reliable services at all times.

This is achieved by Encouraging participation of employees.

Supplying reliable product assured by complying requirements and continuously improving the effectiveness of quality management system.



The company has modern production facilities manned by experienced and committed personnel to produce wires and bright bars conforming to various international standards.

The quality is built into the product as a result of inspection and testing at various stages of production starting from raw material stage to finish product. We have also installed spectrometer for chemical analysis of incoming raw material.



Chemical Lab

Mechanical Lab

Metallurgical Lab / Conoptica

Spectrometer

Raajratna exports it's 80% of production to more than 50 countries across the globe



● Exports

🏠 Office

🏭 Office & Warehouse

"Raajratna" Quality so outstanding...
...we are proud it's Indian



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