

Building the
nation strong.
Drop by drop.

U-DUCPIPE
DI PIPES



ELECTROSTEEL STEELS LIMITED

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The beginning of a new legacy

Vedanta Group is a globally diversified Natural Resources Company specializing in Zinc, Lead, Silver, Iron Ore, Steel, Copper, Aluminum, Power, Oil and Gas. It is the Largest Mining and Non-ferrous Metals Company in India and has Mining, Petroleum and Gas Operations in various countries across the Globe. The group's journey consists of regular geological exploration and discoveries, technological advancements, sustainable developments, turning around businesses and setting new industry benchmarks.

With the acquisition of integrated steel manufacturing unit of Electrosteel Steels Limited (ESL), Vedanta group is now looking to set new benchmarks in the steel industry. At the Greenfield Integrated Steel Plant in Bokaro (Jharkhand), ESL has a current capacity and produces approximately 1.5 Million Ton per annum of high-quality Steel intermediaries and Products - Pig Irons, Billets, TMT Bars, Wire Rods, and Ductile Iron Pipes.

With process like benchmarking, operational and commercial excellence at every stage of value chain of steel Business, backed by state of the art technology and partnership with internationally reputed suppliers, the entity is poised for delivering refreshed and enhanced quality products. Along with technological interventions, entity is equally "in sync" with latest ecological standards for production of "GREEN" steel, contributing to responsible nation building and serving the communities in a more sustainable way.

Building stronger Values

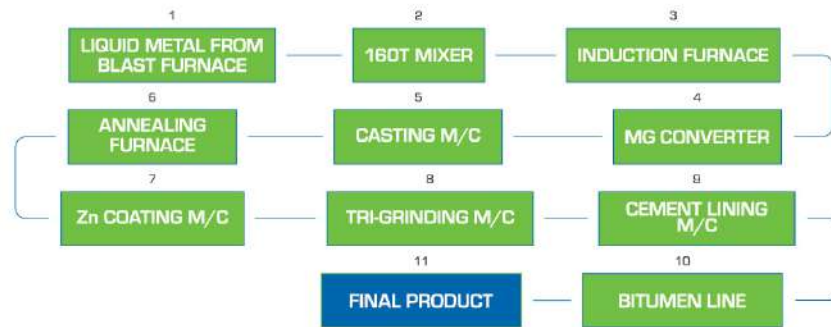
With a business model focused on growth, expansion and value creation, the two superpowers together promise excellence at every stage of production. A pioneer of latest technology, they source international expertise from reputed manufacturers while maintaining a high ecological standard. The desire to contribute to the collective future of the community drives them further, to go beyond.



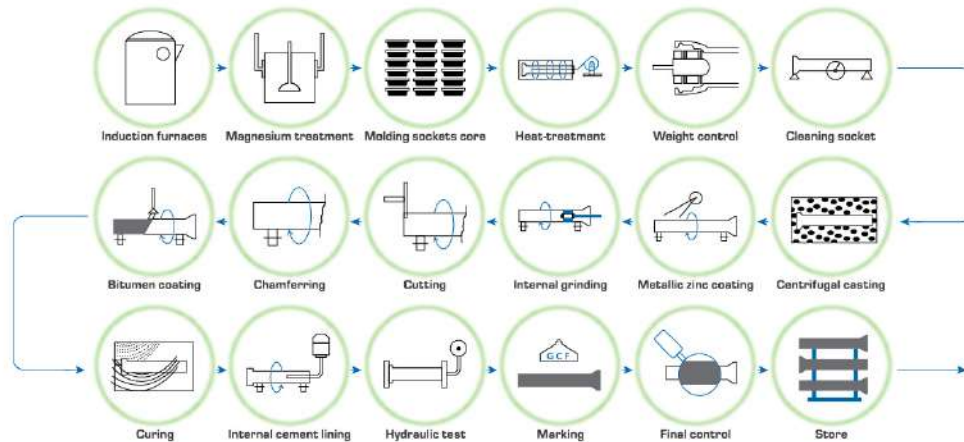
V-Ducpipe - a cut above the rest

- Very strong with high tensile strength and impact resistance.
- Minimizes handling/transportation damage.
- Can withstand very high pressure including surge.
- The simple push-on type jointing system is easy to lay, even by unskilled workers.
- Flexible joint offers considerable joint deflection.
- Back-filling with special material is not required.
- Higher Hazen William's Coefficient of 140 ensure lesser frictional resistance leading to lower pumping cost.
- A wide range of DI fittings available in the market.
- Reliable internal and external corrosion protection systems.
- Cathodic protection not required.

Watertight processing



The making of V-Ducpipe



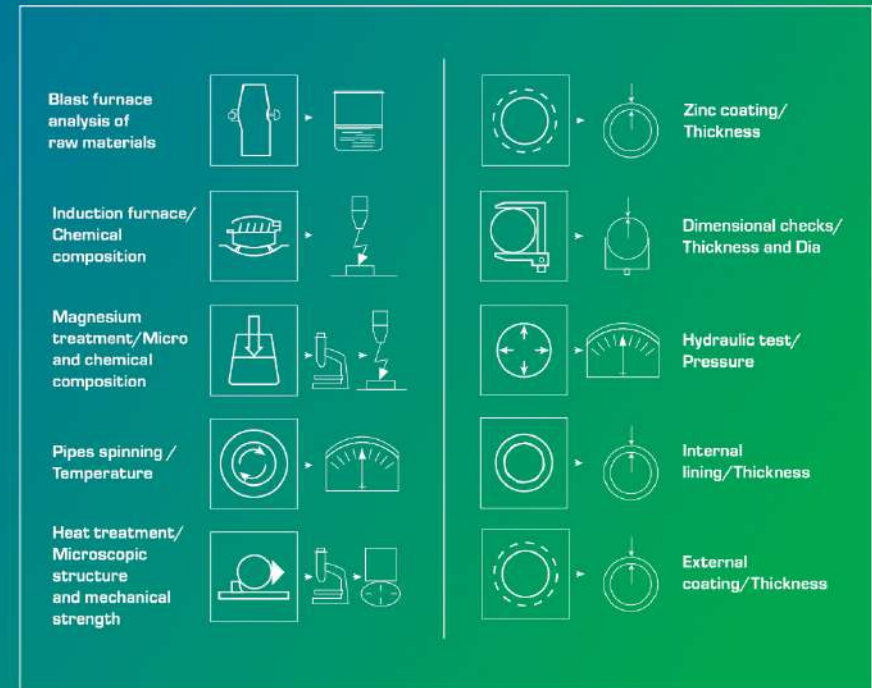
One Pipe many applications

- Raw & clear water transmission through pumping & gravity main
- Water distribution network
- Lift & gravity irrigation systems
- Sewerage and waste water pumping main
- Gravity sewerage collection and disposal system
- Storm water drainage piping
- Effluent disposal system for domestic and industrial applications
- Ash-Slurry Handling and disposal system in power plants
- Fire fighting system - on-shore & off-shore
- Desalination plants

Technical Specifications

DN	Class K7			Class K9		
	Thickness (mm)		Allowable Maximum Operating Pressure (Including Surge) in Mpa	Thickness (mm)		Allowable Maximum Operating Pressure (Including Surge) in Mpa
	Nom	Min		Nom	Min	
80	5.0	3.7	1.25	6.0	4.7	7.7
100	5.0	3.7	1.25	6.0	4.7	7.7
150	5.0	3.7	1.25	6.0	4.7	7.7
200	5.0	3.7	1.25	6.3	4.8	7.4
250	5.3	4.0	1.25	6.8	5.3	6.5
300	5.6	4.3	1.25	7.2	5.6	5.9
350	6.0	4.7	1.25	7.7	6.1	5.4
400	6.3	4.8	1.25	8.1	6.4	5.1
450	6.6	4.9	1.25	8.6	6.9	4.8
500	7.0	5.2	1.25	9.0	7.2	4.6
600	7.7	5.8	1.25	9.9	8.0	4.3
700	9.0	7.0	1.25	10.8	8.8	4.1
800	10.4	8.3	1.5	11.7	9.6	3.8
900	11.2	9.0	1.5	12.6	10.4	3.7
1000	12.0	9.7	1.5	13.5	11.2	3.6
1100	14.4	12.0	3.5	14.4	12.0	3.5
1200	15.3	12.8	3.4	15.3	12.8	3.4

Stringent testing Process



Maintaining high standards

- Centrifugally cast (spun) ductile iron Pressure pipes conforming to national standard IS 8329-2000 (3rd edition) & equivalent international standards (BE EN545: 2010 & ISO 2531: 2009)
- Classes: K7, K9, C25, C30, C40
- Nominal diameter: DN 80 to DN 1200 except DN 125 & 750
- Choose from a range of protection systems:
 - Based on external coating, zinc coating followed by bitumen/epoxy coating
 - Based on internal lining: cement mortar lining
 - Cement types: high alumina cement/portland slag cement/sulphate resistant cement
- Full range of in-house testing facilities.

Certificates for excellence

- BIS License No. CM/L 5791890 issued by Bureau of Indian Standards
- Kitemark Certificate No. KM 636961 in respect of BS EN 545 issued by BSI Assurance UK Ltd
- Kitemark Certificate No. KM 636962 in respect of BS ISO 2531 issued by BSI Assurance UK Ltd
- ISO 9001:2015 Certificate issued by British Standards Institution
- 'C' value certificate issued by Bureau Veritas
- WRAS Certificate for slag cement & sulphate resistant portland cement issued by Water Regulations Advisory Scheme, UK
- Type test certificate for DN200, DN400, DN800 & DN1200 as per BS EN 545 and BS ISO 2531 issued by BSI Assurance UK Ltd
- ISO 45001:2018 Certificate issued by Indian Register Quality Systems
- ISO 14001:2015 Certificate issued by Indian Register Quality Systems