

VANDANA GLOBAL LIMITED
Siltara, Raipur (Chhattisgarh)

Unit Profile

M/S Welspun Steel Ltd. has commissioned manufacturing of Sponge Iron, TMT bars & Billets in Kutch. Vandana Global limited is a part of the Vandana Group of Industries. The Vandana group of industries is one of the leading, reputed, financially sound multi products and professionally managed group of industries in Iron and Steel Sector of Central India based at Raipur & its Surrounding area of Chhattisgarh State. The Group is existing since 1941. Over 67 years of strong track record. Vandana Group is in Iron



& Steel trade as well as in manufacturing business. It has earned very good name, reputation and credibility due to its professionally managed team, modern manufacturing technology and quality products. At present, the Group is manufacturing and marketing Sponge Iron, Ingot, Mild Steel Billet, Ferro Alloys, Steel Rollings, Heavy Structural. TMT Bars, Wire Roads and Bar, Wire drawing, Wire Galvanizing with a strong hold on Electro Power generation. As a diversified business house. The Group is also in HDPE bags & Poly Hydro Carbon manufacturing business. The group has a strong network for international business in the global market. The Group has an annual turn over of more than 100 Billion Indian Rupees and going to set an example for its achievement within a short span of time. Apart from Vandana Global Limited the group has following other companies too-

Vandana Vidhyut Limited, Bilaspur (C.G.)

Vandana Industries Limited, Urla, Raipur (Plastic Div.) C.G.

Vandana Rolling Mills, Urla, Raipur (C.G.)

Vandana Udyog Limited, Raipur (C.G.)

Vandana Ispat Ltd., Urla, Raipur (C.G.)

Shivalik Udyog (I) Limited, Urla, Raipur (C.G.)

Vandana Plantation, Raipur (C.G.)

Vandana Global Limited

The company having annual turn over of Rs. 500 Crores is one of the highest business contributory in the group, based at Siltara Industrial Area with ISO 9001:2000 Certified. It has 4 divisions viz -

1. Captive Power Plant Division
2. Steel Division
3. Sponge Iron Division
4. Ferro Alloys Division

1. Captive Power Plant Division:

The company has a very modern Capacity Power Plant which is a state-of-the-art of its own. The technology used for the Power Plant are from SIEMENS. This power plant has a capacity to generate 38 MW power based on Waste Heat Recovery from Rotary kiln, Washery Rejects and Coal. The Company is also authorized to trade power to other industries. In future company will be interested to add some new power users for power supply.

2. Steel Division:

(A) Induction Furnace : to form liquid metal from Sponge Iron. The company has 4 different sizes of furnaces (2 x 12 Ton capacity and 2 x 6 Ton capacity)

(B) Continuous Casting Machine (CCM): The company has 02 stand modern continuous casting machine to produce high quality mild steel billets from liquid metal. The company produces different sizes & specifications of M.S. Billets as per market requirement. It is likely to be expended in near future.

3. Sponge Iron Division:

The company has 2 Coal Based rotary kiln (1 x 200 TPD & 1 x 500 TPD) to produce high grade sponge iron under Direct Reduced Iron Technology. The Sponge Iron produced by company is well demanded in the market for its quality & Grade.

4. Ferro Alloys:

The company produces high as well as export grade Ferro Alloys such as "Silico Manganese & Ferro Manganese" with the help of very modern and high technology based submerged Arc Furnaces each of 9 MVA capacity. Within a very short span, VGL has registered itself as a quality manufacturer of Ferro Alloys and as a result, VGL is regularly supplying its Ferro products to leading bulk buyer of Indian Markets like "Steel Authority of India Limited" which is the highest steel manufacturing unit of the World and many others reputed concerns.

VGL is also engaged in the process of acquiring raw material mines like - Iron Ore, Manganese Ore, Coal Mines both in India and abroad and also for the setting up of 2 MW Solar Power Plant at Saraipali (Chhattisgarh).

Energy Consumption

S. No.	Particular	Unit	FY 2009-2010	FY 2010-2011
1.	Energy Input			
1.1	Total Solid fuel consumption i.e. Coal, Coke & CPC	Gcal	2331758	1981482
1.2	HSD Consumption	Gcal	541	563
1.3	FO Consumption	Gcal	-	-
1.4	Electricity Purchase from Grid	Gcal	7	-
2.	Energy Output			
2.1	Electricity Export to the Grid	Gcal	814878	516516
2.2	Dolachar sold to the market	Gcal	47952	47074
3	Total Energy Consumption	Gcal	1469476	1418454
4.	Total Equivalent Sponge Iron Production	MT	159411	161084
5	Gate to Gate SEC	Gcal/MT of Sponge Iron	9.218	8.806
6	Gate to Gate SEC	MTOE/Ton of Sponge Iron	0.9218	0.8806
7	Gate to Gate SEC	Kcal/kg of Sponge Iron	9218	8806

Energy Conservation Measures (FY 2010-2011)

Description	Achievement of annual energy savings in 2010-2011					Total Saving in (Rs.Lacs)	Investment incurred on the project R. (Lacs)
	Electricity (Lacs kWh)	Fuels*			Total (fuel) MTOE		
		Coal (T)	F. Oil (KL)	Gas (lacs Nm ³)			
(A) Electrical							
1. Down sizing of belt conveyer motor from 22 KW to 15 KW	0.09537	-	-	-	0.8	0.28611	0
2. Down sizing of belt conveyer motor from 15 KW to 11 KW	0.02442	-	-	-	0.2	0.07326	0
3. Down sizing of belt conveyer motor from 55 KW to 37 KW	0.12768	-	-	-	1.1	0.38304	0
4. Installation of steam injector (30 MW TG Set condensor unit)	0.00070	-	-	-	0.006	0.00210	0
5. Throttling of Delivery valves of 2 x 260 KW (HT) RCW pump motor (30 MW TG Set)	3.96000	-	-	-	34.06	9.9	0
6. Throttling of Delivery valves of 2 x 110 KW CW pump motor (8 MW TG Set)	0.87120	-	-	-	7.5	2.178	0
7. Optimization of Ash Handling pneumatic System resulted in the stoppage of one compressor driven by 132 KW Motor.	7.75698	-	-	-	66.71	23.27	0
8. Raising of SAF Shell Height by 300 mm	49.99778	-	-	-	91.9	150	6
(B) Thermal							
1. Generation of power by hot flue gases	-	55715	-	-	23010.3	1113	4800
2. Generation of power by dolachar	-	14518	-	-	5995.93	290.7	12400
TOTAL	62.83413	70233	-	-	29208.506	1589.7925	17206



Downsizing of 22 KW motor to 15 KW



Raising of SAF Shell height by 300 mm shown by arrow

Energy & Environment Policy

Vandana Global is committed to sustainable development, healthy environment, efficient use of natural resources, pollution prevention, energy conservation, waste eradication, eco-friendly and recycling measures.

- Optimum use of energy.
- Reduction of specific energy consumption.
- Reduction of carbon foot print.
- To identify, assess and manage impacts.
- To prevent water, air, noise and soil pollution.
- To follow 3R Principle – “Reduce, Reuse & Recycle”.
- To train and educate employees for maintaining clean and green environment.
- To preserve Bio-diversity through plantation in and around plant premises.