

**ENERGY SAVING
AT
STEEL INDUSTRY (14000 KVA)**

**TOTAL
ENERGY
CONSULTANT**

SR NO	ENERGY SAVING SUGGESTION	ANNUAL SAVING IN Rs. Lac	INVEST IN Rs. Lac	PAYBACK PERIOD IN MONTHS
1	Pre heat the DISP Boiler FO by Exhaust gases of DG sets inplace of Electrical heater	5.49	1	2 - 3
2	Retrofitting of Conventional 40W T/L with E+ Tube lights with ballasts	8.84	7.84	10 - 11
3	Replacement of Existing 400 W HPSV lamp with 250 W Metal Halide	17.66	13.51	9 - 10
4	Replacement of Existing 250 W HPSV lamp with 150 W Metal Halide	5.40	4.98	11 - 12
5	Replacement of Existing 250 W HPMV lamp with 150 W Metal Halide	6.59	6.07	11 - 12
6	Replacement of Existing 125 W HPSV lamp with 50 W Metal Halide	0.04	0.05	12 - 13
7	Impeller replacement & Overhauling of the CCM Raw Cooling pump in SDPP	9.89	2.40	2 - 3
8	Replace the Annealing Furnace (A/F) pumps with higher efficient pump in SDPP	24.46	4.00	1 - 2
9	Replace the Induction Furnace (I/F) Raw Water Pumps with higher efficient pump in SDPP	11.97	4.00	4 - 5
10	To stop the one no. Hot well pump & open the throttling from the system in SDPP	44.55	4.00	1
11	Impeller replacement & Overhauling of the Induction Furnace DM water pump in SDPP	9.89	2.00	2 - 3
12	Impeller replacement & Overhauling of the Induction Furnace DM water pump I/F 1 & 2 in DISP	10.93	2.00	2 - 3
13	Impeller replacement & Overhauling of the Induction Furnace DM water pump I/F 3 & 4 in DISP	9.37	2.00	2 - 3
14	Impeller Trimming of DG cooling Water pumps in DISP	10.93	1.00	1 - 2
15	Impeller trimming of the pump and stop one no. DISP (CCM) Cooling water pump	37.99	2.40	1
16	Impeller Trimming of Raw Water pumps of Induction Furnace 1 & 2	2.08	0.50	2 - 3
17	Replace the impeller of BF cold water pumping system in BF plant	31.74	2.40	1
18	Install new impeller for BF Hot water pumping System	6.24	4.00	7 - 8
19	Replace/cleaning of the existing distribution pipe line & trimming of the pump with stopping of one no. pump in Turbo blower supply pumping system	144.65	12.4	1
21	Reduced Specific power consumption norms by refurbishment & overhauling of the compressor-4 & 5 in SDPP	9.2	2	2 - 3

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22	Reduced Specific power consumption norms by refurbishment & overhauling of the compressor-1 in Sinter-I	0.54	0.5	10 - 11
23	Reduced Specific power consumption norms by refurbishment & overhauling of the compressor-1 in BF Plant	2.29	1	5 - 6
24	Reduced Specific power consumption norms by refurbishment & overhauling of the compressor-2 & 3 in PCI Plant	6.57	2	3 - 4
25	Reduced Specific power consumption norms by refurbishment & overhauling of the compressor-1 & 2 in Spiral -I Plant	15.5	2	1 - 2
26	Reduced Specific power consumption norms by refurbishment & overhauling of the compressor-1 in Spiral -II Plant	4.85	1	2 - 3
27	Replace FO Fired Steam Boiler in DISP (12TPH) with Solid fuel fired F.B.C boiler	688.87	220	3 - 4
28	Installation of VFD in suggested Fans	7.98	8	12 - 13
29	Installation of Automatic Temperature Controller for Fans	9.98	5	6 - 7
30	Replacement of LPG Fired burner in Annealing furnace by Imported coal based gasification	231	40	2 - 3
	TOTAL	1375	358	3 - 4

