

CASE STUDY- ENERGY SAVING

ELECTRICITY WASTAGE TO ENERGY SAVING OPPORTUNITY

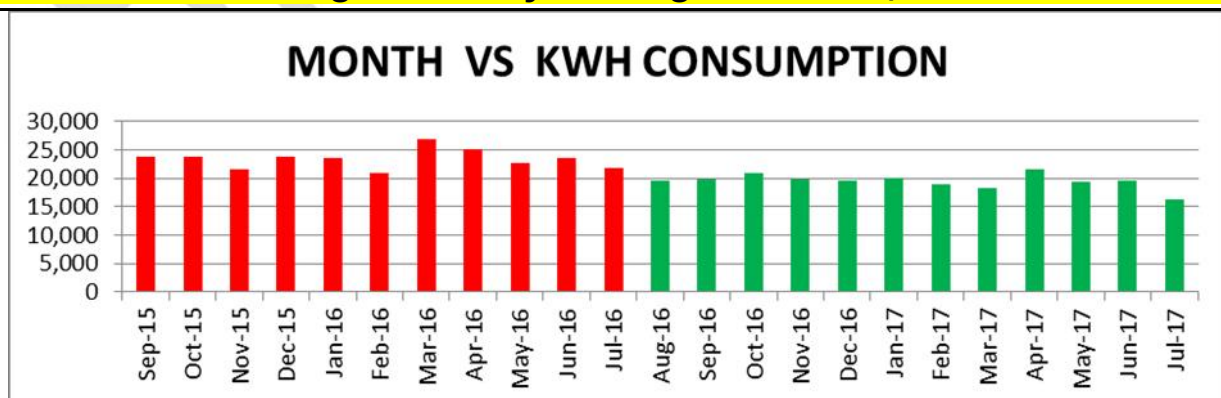
Location	- M/s MALKAR INDUSTRIES-TURBHE, NAVI MUMBAI
Type of Industry	- PRECISION GEARS AND ALLIED ITEMS MANUFACTURERS
Contract Demand KVA	- 80 KVA (Connected Load – 115 KW)
Energy Saver Installed	- 135KVA,3Ph.415VAC(Load side ENERGY SAVER -1 No.) Suitable for Motor/ Mixed load for entire factory Load
Factory/ Mfg. Working Hrs.	- 24 Hrs.

BYPASS MODE			SAVE MODE		
MONTH	KWH UNIT	CURRENT MONTH BILL	MONTH	KWH UNIT	CURRENT MONTH BILL
Sep-15	23,739	1,99,731	Aug-16	19,499	1,57,871
Oct-15	23,685	2,57,102	Sep-16	19,883	163,611
Nov-15	21,628	1,90,447	Oct-16	20,825	162,072
Dec-15	23,739	2,01,965	Nov-16	19,799	156,154
Jan-16	23,514	2,00,268	Dec-16	19,483	163,947
Feb-16	20,912	1,71,647	Jan-17	20,059	173,845
Mar-16	26,907	2,30,257	Feb-17	18,816	153,237
Apr-16	25,152	2,05,038	Mar-17	18,181	153,061
May-16	22,718	1,88,611	Apr-17	21,602	177,284
Jun-16	23,614	2,03,107	May-17	19,307	144,928
Jul-16	21,714	1,91,204	Jun-17	19,544	176,317
			Jul-17	16,325	159,570
AVERAGE	23,393	2,03,580	AVERAGE	19,444	162,184

% Saving = (Bypass Avg Monthly unit – Save Avg Monthly unit) / (Bypass Avg Monthly unit) * 100

% Saving = (23,393– 19,444)/ 23,393*100 = 19 %

Average Monthly Saving in Rs . 40,000/-



Ref- Electricity Bills by Maharashtra State Electricity Distribution Co. Ltd.