

Energy Conservation Achievements

REROUTING OF HAG DUCT

- BEFORE MODIFICATION POWER CONSUMPTION =20KW
- AFTER MODIFICATION POWER CONSUMPTION =13KW
- SAVING =7 KWH
- YEARLY SAVING IN KWH =REDUCE KWH*RUNNING HOUR/MONTH*12 =50400
- TOTAL SAVING IN RS=50400*3.20=**RS 161280**



Elimination of half bends



2. EXTENSION OF ELEVATOR:

BEFORE MODIFICATION:-

OUR CM#4 MATERIAL FEEDING WAS DONE BY 2 ELEVATORS THROUGH CHAIN CONVEYOR.

THAT TIME POWER CONSUMPTION = 18.5KWH+11 KWH (ELEVATOR MOTOR)+11.5KW (CHANE CONVEYOR MOTOR =40KW

TOTAL POWER CONSUMED IN MATARIAL FEEDING SYSTEM

AFTER MODIFICATION:-

AFTER ELEVATOR EXTENSION WE COMISSIONED 22KW MOTOR INSTEAD OF 18.5 KW MOTOR AND REMOVE ONE ELEVATOR AND CHAIN CONVEYOR.

TOTAL POWER SAVING =40KWH-22KWH=18KWH

YEARLY POWER SAVING =18*550*12=118800KWH/YEAR

YEARLY POWER SAVING IN RS=118800*3.20=**RS 380160**



REPLACE ELEVATOR AND CHAIN CONVEYOR



New HAG

3. REPLACEMENT OF INCANDESCENT LAMP WITH COMPACT FLUORESCENT LAMP

WE CHANGED FACTORY AND COLONY LIGHTING. 1500 NO. OF INCANDESCENT LAMP CONVERTED INTO COMPACT FLUORESCENT LAMP
600 NO 60W CONVERTED INTO 20W SAVING=40W
500 NO 40 W CONVERTED INTO 11 W SAVING=27W
400 NO 25 W CONVERTED INTO 11 W SAVING=12W
TOTAL POWER SAVING=42.3KWH
TOTAL POWER SAVING = 42.3*4HRS/DAY*30 Days*12 Month
TOTAL POWER SAVING =60912KWH/YEAR
TOTAL SAVING IN RS =60912*3.20=RS **194918**

4. COMMISSIONING OF NEW HOT AIR GENERATOR

AFTER COMMISSIONING

SAVING OF COAL (RS)=350 TON*2489.6 RS/TON
= RS 871360

POWER SAVING IN NEW HAG FOR COMBUSTION FAN AND DILUTION FAN

=POWER SAVING*RUNNING HOUR
=20KW*25DAYS*20HOUR*12MONTH
=120000KWH

POWER SAVING IN RS=1000*3.20 RS/KWH= 384000 RS/YEAR

TOTAL SAVING OF PROJECT=SAVING OF COAL+SAVING OF POWER

TOTAL SAVING OF PROJECT=871360+384000=**RS 1255360**



NEW HAG