

Energy Audit Questionnaire for Industries

Sl. no	Particulars	Details
1	Name and Address of Institution / Industry & Year of Establishment	CENTRAL INSTITUTE OF TOOL DESIGN – HYDERABAD,NARSAPUR X – ROAD, BALANAGAR, HYDERABAD – 500037, TELANGANA.
2	Name, Designation and Tel No. of the Contact person from Energy Department	R.K.Pavithra Kumar
3	Yearly Annual Energy Bill for the last 1 year	
a.	Electrical Energy in kWh Year : Jan 2015 to Dec 2015	Total Energy Consumption & Energy Cost in Rs./-
		8,59,618 kwh & Rs.84,22,783/-
b.	Thermal (Fuels – Coal, Oil...etc.) In kT - In kg -	--Nil--
c.	HSD Consumed in kL (DG & Hot Oil Units)	7075 ltrs Diesel
4	Electrical System	
a.	Electrical Supply from grid – whether HT or LT1,LT2	H.T
b.	Contracted Maximum Demand (CMD) in kVA	225KVA
c.	Connected Load in kW	600KW (Aprox)
d.	Present Power Factor (PF)	0.98
e.	No of Transformer and their Capacity	2Nos(315 KVA & 200 KVA)
f.	No of DG Sets installed and its Ratings	1No(400 KVA & 320 KW)
g.	Whether APFC is Installed? (If yes, please provide details)	-----
h.	Total Rating of Capacitors	25KVAR – 3Nos, 10KVAR – 3 Nos, 5KVAR – 2 Nos
i.	Approximate Number of Motors and Average Rating (Inclusive of Sl.No:9)	-----
	Above 50 HP	--Nil--
	Between 20 to 50 HP	2Nos [Compressor + Crane]

	Between 5 to 20 HP	2Nos
	Below 5 HP	25 + 4 [submergible]
i.	Approximate no of Continuous Running Motors and Average Rating	--Nil--
5	Boiler/ Thermopac	
a.	Total number of boilers	----
b.	Capacity and type of fuel used in each boiler	----
c.	Working Pressure and temperature of each boiler	----
d.	Steam Used for (process heating / power generation / driving steam turbines etc)	----
6	Air Compressor	
a.	Total numbers of air compressors	2 Nos (continues)
b.	Make, working pressure and capacity of each air compressors	6 bar continues
c.	Motor rating incase capacity of air compressor is not Known	30KW
d.	No. of Driers With Capacity	--Nil--
7	Air Conditioning & Refrigeration	
a.	Total no of A/C plants and Capacity.	----
b.	No of Chillers with A/C Capacity.	--Nil--
c.	Type of condensing (Water cooled condenser / air cooled)	----
d.	Total number of cooling tower and type.	--Nil--
e.	Split A/C Units and Capacity	148 Nos(2 Ton capacity)
f.	Package Units and Capacity.	
8	Furnaces/ Ovens	
a.	Total Number of furnace / ovens	----
b.	Type of heating (Electrical / Oil)	----
c.	Capacity of each in terms of heating capacity & details.	----
9	Motor Pumps	
a.	Number of pumps in the plant (Approx)	2 Nos
b.	Number of continuous running pumps and their capacity	3.7kw/5 HP motor – 4Nos & 2.2kw/3HP motor – 1No.
10	Total number of fans / Blowers and their capacity	----
11	Any other machinery / equipment consuming energy and in use for 24 hrs x 7 days	Hostel lighting

12	Lighting Population -Number of lighting fittings in the plant/office/goo downs and average running hours with wattage of fittings.	Watt	Quantity
a.	Incandescent		
b.	Florescent Tube Lights (FTL)	36w/40w	1560
c.	Compact Florescent Lamp (CFL)	11w & 18w	150 & 309
d.	Sodium Vapor Lamp (SVL)	250w	7
e.	Metal Halide Lamp (MHL)	----	
f.	Mercury Vapor Lamp (MVL)	----	
g.	Halogen Lamps (HL)	250 w	1
h.	Any Other Lamps LED Lams	250 w	4
13	Fans		
a.	Wall mounting Fans	75 w	12
b.	Ceiling Fans	75w	600
c.	Table Fans		3
d.	Exhaust Fans	45w	132
14	Any other equipment consuming Higher Power	----	
15	In house Energy saving proposals Implemented – 2014 to 2015 => 1798 lakhs	----	
16	Production Year Wise (last 1 Year)		
	Year – –		
a.			
b.			
17	Production Details List 5 number of important Products		
18	Any Renewable Energy sources used		
19	Solar Energy	50 kwp	
20			

Authorized Signatory.