

## Energy Audit Questionnaire for Industries

Sl. no	Particulars	Details
1	<b>Name and Address of Institution / Industry &amp; Year of Establishment</b>	CENTRAL INSTITUTE OF TOOL DESIGN – HYDERABAD,NARSAPUR X – ROAD, BALANAGAR, HYDERABAD – 500037, TELANGANA.
2	<b>Name, Designation and Tel No. of the Contact person from Energy Department</b>	R.K.Pavithra Kumar
3	<b>Yearly Annual Energy Bill for the last 1 year</b>	
a.	Electrical Energy in kWh	Total Energy Consumption & Energy Cost in Rs./-
	Year : Jan 2015 to Dec 2015	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	<b>Electrical System</b>	
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--
<b>5</b>	<b>Boiler/ Thermopac</b>	
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)	----
<b>6</b>	<b>Air Compressor</b>	
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--
<b>7</b>	<b>Air Conditioning &amp; Refrigeration</b>	
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.	
<b>8</b>	<b>Furnaces/ Ovens</b>	
a.	Total Number of furnace / ovens	----
b.	Type of heating (Electrical / Oil)	----
c.	Capacity of each in terms of heating capacity & details.	----
<b>9</b>	<b>Motor Pumps</b>	
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.
<b>10</b>	<b>Total number of fans / Blowers and their capacity</b>	----
<b>11</b>	<b>Any other machinery / equipment consuming energy and in use for 24 hrs x 7 days</b>	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
<b>13</b>	<b>Fans</b>		
a.	Wall mounting Fans	75 w	12
b.	Ceiling Fans	75w	600
c.	Table Fans		<b>3</b>
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.