

**DETAILS FORMAT FOR TECHNICAL AUDIT
(TO BE DULY FILLED IN & RETURNED TO PCRA)**

1. GENERAL DETAILS

SR. NO.	PARTICULARS	DETAILS			
1	Name & Address of Company				
	Web Site (If any)				
2 A	Name of Contact Officer				
	Designation				
	Contact No.: Landline No /Mobile No./Fax No./Email .				
	Name of Alternative Officer				
	Designation				
2 B	Contact No.: Landline No /Mobile No./Email				
3	No. of Shifts/ Hours/Shift				
4	No. of Employees (Aprox)				
5	Any other details:				
6	Type of Fuel Used	Gas (MMSCM)	Oil (KL)	Coal (Tons)	Others
	Annual Fuel Consumption				
7	ElectricityConsumptionUnits	Imported Power		Generation (In-house)	
8	Specific Energy Consumption	Fuel		Electricity	
	Energy	Lit./Ton of Prod.	SCM/ Ton of Prod.	KWh , kVAh / Ton of Production	
9	Water Consumption (Unit/Ton of Production)				
	Steam Consumption (kg / Ton of Production)				

II. THERMAL DETAILS

1. HSD/ LDO /RFO/LSHS - FIRED UNIT DETAILS

A. BOILER

Equipment	Make	Model	Capacity TPH	Flue Gas Temp. (°C)	% Efficiency (if being monitored)
Boiler No. 1					
Boiler No. 2					
Boiler No. 3					
Boiler No. 4					

B. THERMOPAC

Equipment Type	Make/ Model	Operating Temp. (°C)		Capacity '000 Kcal/ Hr.	Flue Gas Temp. (°C)	% Efficiency (if being monitored)
		In	Out			
Thermopac-1						
Thermopac-2						
Thermopac-3						

C. FURNACE / OVEN

Sl. No.	Equipment use (Rolling / Forging / Heat Treatment etc.)	Type of Furnace/ Oven (Oil Fired / Electrical / Induction / Arc)	Product	Design Capacit y of Furnace / hr.	Actual Production / hr.	Flue Gas Temp	Consumpti on of Fuel Oil (Lit./Ton)
1							
2							
3							
4							

D. DIESEL GENERATING SET

S. No	Make	Model	Rating KVA	Stand by or Continuous operation	Actual Average Loading	Avg. kWh Units /Lit. of Oil
1						
2						
3						

2. DETAILS OF STEAM

A. STEAM CONSUMPTION DETAILS

S.No	Name of Equipment	MT/hr	Pressure kg/cm ² / psi	Temp. °C
1				
2				
3				

B. CONDENSATE RECOVERY

- i) Whether condensate recovery is being done : Yes / No
- ii) %age of condensate recovery :

C. STEAM TRAPS

- i) Approximate No. of steam traps being used :
- ii) Type of steam Traps :

3. ANY OTHER ITEM:

III. ELECTRICAL DETAILS

1. TRANSFORMERS

	No. 1	No. 2	No. 3	No. 4
Voltage Ratio				
KVA				
% Impedence				

2. ELECTRICITY CONSUMPTION

	Particulars	Demand		
A	Contract demand KVA			
B	Maximum demand			
C	Total Energy units consumed / day			
D	Avg. Power Factor (P.F.)			
E	Avg. Energy bills (Rs/month)			
F	Load	Morning	Noon	Night
	KVA Load			
	Peak KVA			
	Duration			

3. DETAILED LIST OF ELECTRIC MOTORS OPERATING IN THE PLANT

S.NO.	NAME OF THE PLANT	RATING OF MOTOR (KW)	NO. OF MOTORS
1			
2			

4. DETAILS OF CAPACITORS INSTALLED

S.NO.	NAME OF THE PLANT	KVAR
1		
2		

5. CONNECTED LOAD

	EQUIPMENT	TOTAL NUMBERS	LOAD IN KW (TOTAL)
A	Motors : Greater than 10 kW : Less than 10 kW		
B	Air / Gas Compressors Details	Rated CFM	
	Compressor – 1 (kW)		
	Compressor – 2 (kW)		
	Compressor – 3 (kW)		
C	AC & Ventilation with TR capacity	Total Nos.	Capacity
a)	Air Conditioner Plant Capacity in TR		
b)	No. of Chiller Units		
c)	No. of Condenser Units		
d)	No. of AHUs		
e)	Others (Package ACs/ Split ACs / Windows ACs) in TR		
D	Total Process Load (in kW)		
E	Total Lighting Load (in kW)		
	Total Load (in kW)		

6. OTHER MAJOR EQUIPMENT:

A	Gas Turbines / Steam Turbines	Capacity & Rating
1		
2		
B	HRSR / WHRBs	Capacity & Rating
1		
2		
C	Cooling Towers- Capacity	Nos.
1		
2		
D	Any Other Equipment- Capacity	Nos.
1		

Energy Conservation in Building

A	Roof Windows	Area of Roof Window	Roof Material
B	Solar Water Heater	Capacity	Climate
C	Supplementary Water Heating System		
D	Building Water Pumping System	Location/ No	Capacity
E	Room/Plant/Location Type of lamp (Bulb/Tube Light/ others)	Watt	Quantity
F	Escalators and Elevators/ Make	Height of Building/ Elevator	Type of motor/ Motor rating
G	Certification Obtained	Name of Certifying body	Year

Water Audit

	Major water Uses Area		
A	Water Supply Mode MCD supply Tank/Bore well	Capacity	Timing
B	Pumps in WTP/Make		
C	Rain Water Harvesting Provisions	No of Inlet	Size of Sump
D	STP	Size of treatment tank	Operation Time
	No of Pump	Capacity	
G	Certification Obtained	Name of Certifying body	Year

Renewable Energy Source Available

A	Type of Renewable Energy	Capacity	Uses

OTHER RELEVANT INFORMATION

A	ISO-50001:EnMS Compliance	Yes/No
B	Whether Notified DC	Yes/No



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NOTE: PLEASE ATTACH ADDITIONAL SHEETS IF REQUIRED.