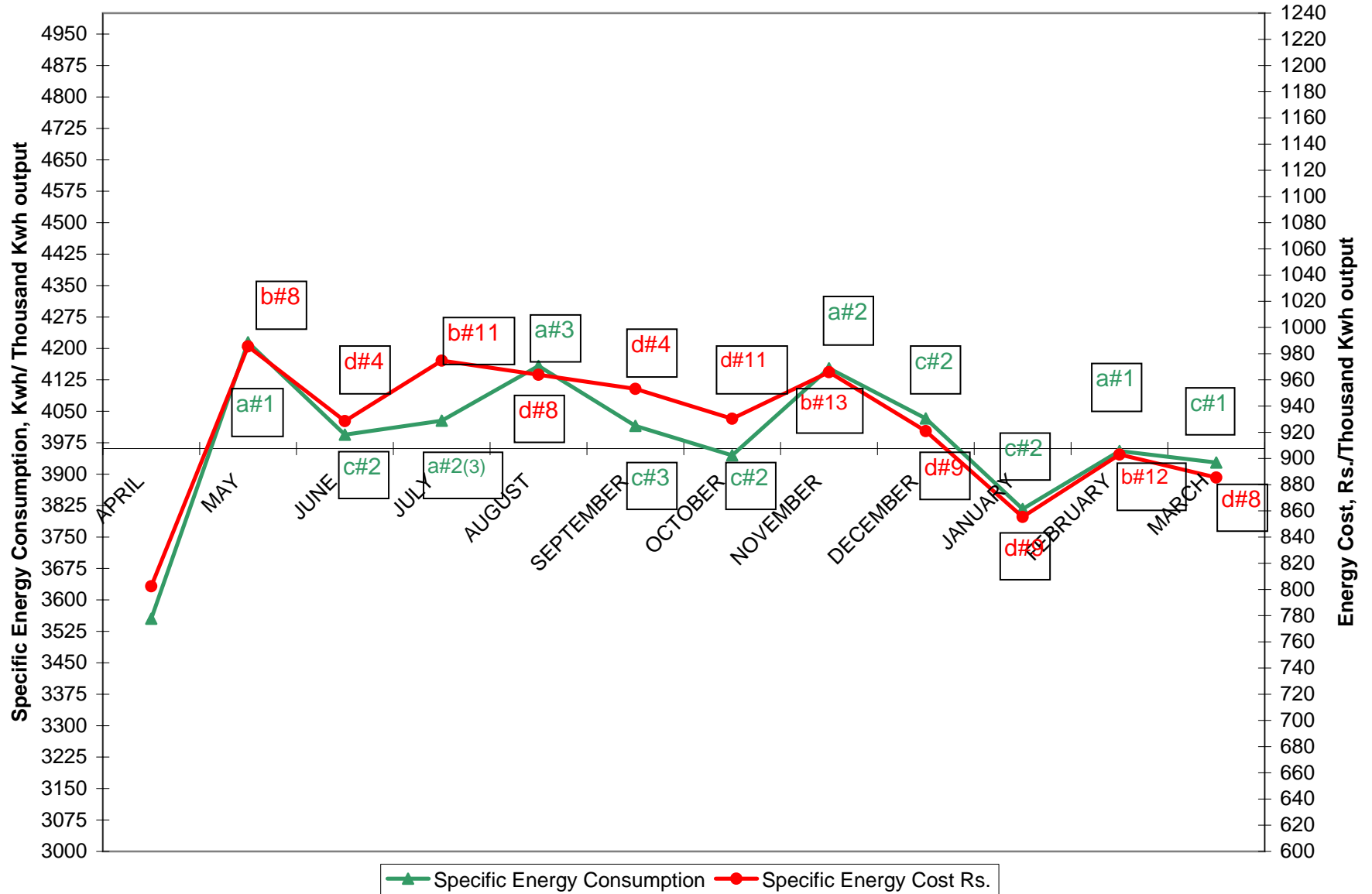


Name: Mahendra Pratap Singh
Designation: Addl. Executive Engineer
Company Name: MP Power Generating Co. Ltd.
Complete Address: Plot No.668, Shakti Nagar, Sainik
Society Road, Jabalpur, 482001
Fax No: 0761-2665661
Email ID: singh_mp65@rediffmail.com



ENERGY PERFORMANCE REPORTING



ACTUAL DATA OF 210 MW UNIT OF MPSEB

		APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	TOTAL	AVG	
OUTPUT	GENERATION IN Thousand Kwh	124805.00	107730.00	114065.00	97990.00	31110.00	47917.00	110280.00	120365.00	125455.00	137675.00	115150.00	132640.00	1265182.00		
	COAL Kg	101381452.90	88338787.37	92602091.17	87015120.00	27532350.00	41448205.00	93607528.03	103510057.34	105821274.10	109451625.00	98329177.38	106112000.00			
	GCV IN Kcal/Kg	3661.97	4288.35	4104.45	3753.00	3928.35	3856.46	3878.87	4034.71	4006.93	4034.71	3881.88	4121.01			
	GCV IN Kwh/Kg	4.26	4.99	4.77	4.36	4.57	4.48	4.51	4.69	4.66	4.69	4.51	4.79			
	COAL ENERGY Kwh	431667091.54	440471593.76	441927807.48	379707574.59	125756056.83	185853461.00	422174365.41	485591752.38	493015115.07	513465142.92	443813087.39	508445456.40	4871888504.78		
	RATE	0.96	1.12	1.07	0.98	1.03	1.01	1.04	1.05	1.05	1.05	1.01	1.08			
	COAL COST	96993359.47	98971685.51	99298889.20	85318325.16	28244336.57	41760309.98	97305961.46	109109951.44	110777942.58	115372957.91	99722501.83	114245060.35	1097121281.47		
	FO	62081.85	194504.22	146965.45	265352.70	49108.15	98402.75	183568.83	188505.65	104429.97	23798.06	89992.08	74663.69			
	GCV IN Kcal/Ltr	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00		
	GCV IN Kwh/Ltr	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54		
INPUT	F OIL ENERGY Kwh	716136.99	2243677.64	1695300.48	3060940.78	566480.57	1135111.80	2117533.81	2174481.93	1204638.09	274519.41	1038091.64	861273.10	0.00		
	RATE	13.70	13.63	13.14	12.94	12.99	12.95	12.81	12.73	12.47	12.38	12.34	12.26			
	F OIL COST	850424.56	2650143.40	1930953.53	3433398.01	638103.38	1274439.74	2351772.37	2398852.27	1302686.22	294689.05	1110619.21	915418.67	0.00		
	HSD Ltr	24202.55	122585.85	104920.20	190011.02	13380.19	77618.66	44226.26	125599.22	56696.00	2835.40	61572.33	17977.69			
	GCV IN Kcal/Ltr	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00	9921.00		
	GCV IN Kwh/Ltr	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54		
	HSD ENERGY Kwh	279185.31	1414072.83	1210293.00	2191846.86	154345.45	895359.79	510166.11	1448833.10	654009.12	32707.41	710259.47	207379.29			
	RATE	23.18	23.53	23.16	22.89	22.67	22.84	22.82	22.80	23.01	23.13	23.66	24.02			
	HSD COST	561075.63	2883991.57	2430193.10	4348402.14	303351.75	1772709.38	1009123.76	2863838.03	1304416.11	65596.47	1456930.70	431815.02			
	AUX. CONSUMPTION Kwh	11032457.80	9928417.04	10761730.12	9720266.73	2882937.64	4514175.96	10253650.09	10627267.55	11061723.88	11708864.83	9893977.38	11455084.67			
RATE	0.16	0.17	0.21	0.25	0.28	0.19	0.19	0.18	0.19	0.17	0.17	0.16				
ELEC. ENERGY COST	1744231.58	1670952.59	2254582.46	2414514.26	800303.49	864916.11	1934863.77	1892716.35	2141549.74	2025633.62	1690880.73	1854578.21	21289722.91			
TOTAL ENERGY Kwh	443694871.63	454057761.27	455595131.08	394680628.96	129359820.50	192398108.55	435055715.41	499842334.97	505935486.16	525481234.57	455455415.88	520969193.47	5012525702.47	3961.901		
TOTAL ENERGY COST Rs.	100149091.24	106176773.07	105914618.28	95514639.57	29986095.19	45672375.22	102601721.37	116265358.08	115526594.65	117758877.05	103980932.47	117446872.26	1156993948.45	914.4882		
Specific Energy Consumption	3555.10	4214.78	3994.17	4027.76	4158.14	4015.24	3945.01	4152.72	4032.80	3816.82	3955.32	3927.69	47795.57			
Specific Energy Cost Rs.	802.44	985.58	928.55	974.74	963.87	953.16	930.37	965.94	920.86	855.34	903.00	885.46	11069.32			

(a)	Increased Specific energy Consumption or cost cause list
#1	Increased Forced outages
	Reasons of Forced Outages:-
(1)	Boiler Tube Failure
(2)	Furnace Draft Disturbance
(3)	Furnace Flame Failure
(4)	Boiler Drum Level
(5)	Both PA Fans stoppage
(6)	Both ID Fans stoppage
(7)	Both FD fans stoppage
(8)	Coal Shortage Tripping
(9)	Condenser Vacuum very Low Tripping
(10)	Turbine Bearing Vibrations tripping
(11)	Turbine Lub/ Seal oil system Trouble
(12)	Condenser Tube Failure Tripping
(13)	Running BFP's stoppage
(14)	Running CEP's stoppage
(15)	Running CW Pumps stoppage
(16)	Generator Differential protection Tripping
(17)	Generator or backup Earth Fault Tripping
(18)	Generator Stator water flow low tripping
#2	Increased Partial Loading
	Reasons of Partial Loading:-
(1)	Coal Mills Outages
(2)	Coal Shortage
(3)	Poor quality (CV, Ash, Moistre, Forign material) of coal
(4)	Clinker Grinders/ conveyour outages/ Clinker formation
(5)	Ashing System Trouble
(6)	ID Fan impeller worn out
(7)	ID Fan outage
(8)	PA Fan Outage
(9)	Poor Air heater performance
(10)	Cooling water temp High
(11)	System(440/220 KV) Disturbance (Reactive Load, High Frequency etc.)
(12)	Pressure Part Heavy Steam leakages
(13)	Deviation in operating parameters
(14)	Labour Unrest
(15)	Non adherence to maintenance plan
#3	Sheduled outages (AOH/COH)
#4	Increased unburnt in Bottom Ash
#5	Increased unburnt in Fly Ash
#6	Increased coal Rejection from mills
#7	Heat loss due to poor Insulation
(b)	Reasons for Increased Energy Cost
#8	Hike in Coal Prices
#9	Hike in Furnace Oil Prices
#10	Hike in HSD Prices
#11	Increased specific fuel consumption
#12	Increased Forced outages [Cause List as mentioned in (a) #1]
#13	Increased Partial Loading [Cause List as mentioned in (a) #2]
#14	Heavy Steam leakages
#15	Increased coal rejects from mills
	Decreased Specific energy Consumption or Cost Cause List
(c)	Reasons for Decreased Specific energy Consumption
#1	Reduced Forced outages [Cause List as mentioned in (a) #1]
#2	Reduced Partial Loading [Cause List as mentioned in (a) #2]
#3	Reduction in Scheduled outages
(d)	Reasons for Decreased energy Cost
#4	Reduction in Coal Prices
#5	Reduction in Furnace Oil Prices
#6	Reduction in HSD Prices
#7	Improvement in fuel quality
#8	Reduction in Forced outages
#9	Reduction in Partial Loading
#10	Reduction in Heavy Steam leakages
#11	Reduction in Specific fuel consumption