

J.K. Cement WORKS, Mangrol (RAJ)

25 MW THERMAL POWER PLANT

Outlet of Power Plant

(April 2015 - September 2015)

PARAMETERS/MONTH	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
Total Suspended Solids (TSS)	46.00 mg/l	54.00 mg/l	49.00 mg/l	44.00 mg/l	39.00 mg/l	36.00 mg/l
Oil & Grease	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Residual Chlorine	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.
Free available chlorine	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.
pH Value	8.10	7.80	7.65	7.90	7.45	7.72
Temperature	4°C higher than the intake water temperature	4°C higher than the intake water temperature	4°C higher than the intake water temperature	4°C higher than the intake water temperature	3°C higher than the intake water temperature	4°C higher than the intake water temperature
Copper as (Cu)	Bdl	NIL	NIL	NIL	NIL	NIL
Zinc (as Zn)	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.
Iron (Total)	Bdl	Bdl	Bdl	Bdl	Bdl	Bdl
Chromium (total)	Bdl	NIL	NIL	NIL	NIL	NIL

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25 MW THERMAL POWER PLANT
Stack monitoring results (April 2015 - September 2015)

Location/Month	SPM (Mg/Nm3)					
	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
Stack attached with Boiler	28.5	27.2	26.6	24.2	26.1	22.4
Stack attached with Coal Crusher	24.8	25.5	27.2	25.4	23.6	21.8

J.K. Cement WORKS, Mangrol (RAJ)
10 MW WASTE HEAT RECOVERY PLANT
Outlet of Waste heat recovery plant
(April 2015 - September 2015)

PARAMETERS/MONTH	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
Total Suspended Solids (TSS) (Mg/l)	41	46	41	38	42	38
Oil & Grease (Mg/l)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Residual Chlorine (Mg/l)	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.
Phosphate (Mg/l)	2.90	3.45	3.70	4.10	3.90	4.10
Free available chlorine (Mg/l)	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.
pH Value	7.85	7.30	7.50	7.40	7.65	7.90
Temperature	40c Higher than the intake water	40c Higher than the intake water	40c Higher than the intake water	40c Higher than the intake water	40c Higher than the intake water	40c Higher than the intake water
Copper as (Cu) (Mg/l)	Bdl	NIL	NIL	NIL	NIL	NIL
Zinc (as Zn) (Mg/l)	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.
Iron (Total) (Mg/l)	Bdl	Bdl	Bdl	Bdl	Bdl	Bdl
Chromium (total) (Mg/l)	Bdl	NIL	NIL	NIL	NIL	NIL

J.K. Cement WORKS, MANGROL (RAJ)
AMBIENT AIR QUALITY AVERAGE RESULTS (SPM) COMMON FOR WHR, POWER PLANT &
CEMENT PLANT

(ALL VALUES IN MICROGRAMS / CUBIC METER)
(April' 2015 - September' 15)

S.No. & Month	LOCATION / PERAMETER	NEAR TIME OFFICE	NEAR THERMAL POWER PLANT	NEAR RAW MATERIAL GATE	NEAR PACKING PLANT GATE	Remarks
April' 2015						
1	SPM	370.8	351.8	356.0	342.5	
2	SO2	15.8	13.1	14.7	11.3	
3	NOX	26.6	25.1	25.2	22.7	
4	CO	500.0	600.0	700.0	700.0	
May' 2015						
1	SPM	353.2	371.3	335.5	348.0	
2	SO2	14.3	17.7	12.6	15.2	
3	NOX	26.8	28.4	23.8	25.3	
4	CO	500.0	600.0	600.0	700.0	
June' 2015						
1	SPM	353.2	333.0	334.8	319.8	
2	SO2	15.3	13.4	13.9	12.3	
3	NOX	29.2	25.5	26.8	23.3	
4	CO	500.0	600.0	700.0	700.0	
July' 2015						
1	SPM	358.5	338.0	350.2	329.7	
2	SO2	14.4	12.5	13.4	11.4	
3	NOX	25.5	23.3	23.9	21.3	
4	CO	500.0	500.0	700.0	700.0	
August' 2015						
1	SPM	354.5	333.2	342.5	310.5	
2	SO2	14.4	11.8	13.0	10.9	
3	NOX	26.8	23.2	25.3	22.5	
4	CO	600.0	600.0	600.0	700.0	
September' 2015						
1	SPM	368.5	342.7	323.5	344.8	
2	SO2	15.0	13.0	11.3	12.6	
3	NOX	26.8	23.8	22.3	24.4	
4	CO	650.0	550.0	650.0	650.0	

Six monthly Average						
1	SPM	359.8	345.0	340.4	332.5	
2	SO2	14.8	13.6	13.1	12.3	
3	NOX	27.0	24.9	24.6	23.3	
4	CO	541.7	575.0	658.3	691.7	