

**MONTHLY ENVIRONMENT REPORT OF SURATGARH TPS, SURATGARH
FOR THE MONTH OF NOV-14**

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INSTALLED CAPACITY : 6 X 250 MW

I. STACK EMISSION DATA :-

UNIT	Installed Capacity (MW)	Notified SPM Limits (mg/Nm ³)	Source of Norms (CPCB/SPCB)	Actual Value SPM (mg/Nm ³)	Notified SO ₂ Limits if any (mg/Nm ³)	Source of Norms (CPCB/SPCB)	Actual Value SO ₂ (mg/Nm ³)	Notified NO _x Limits if any (mg/Nm ³)	Source of Norms (CPCB/SPCB)	Actual Value NO _x (mg/Nm ³)
UNIT - 1	250 MW	100	SPCB	49.15	Not prescribed by rajasthan state pollution control Board jaipur	NA	NA	Not prescribed by rajasthan state pollution control Board jaipur	NA	NA
UNIT - 2	250 MW	100	SPCB	54.87		NA	NA		NA	NA
UNIT - 3	250 MW	100	SPCB	55.15		NA	NA		NA	NA
UNIT - 4	250 MW	100	SPCB	48.60		NA	NA		NA	NA
UNIT - 5	250 MW	100	SPCB	UASD		NA	NA		NA	NA
UNIT - 6	250 MW	100	SPCB	DNA		NA	NA		NA	NA

II. AMBIENT AIR QUALITY DATA :-

PARAMETERS	Notified Limits	Actual Values			Method of Measurement
		LOCATION-I (Power Station)	LOCATION-II (Colony)	LOCATION-III (Outside the Plant within 20 KM)	
A. SPM	200(mg/m ³)	92.75	16.67	17.707	Beta Gauge Detection
B. SO ₂	80(mg/m ³)	7.51	5.13	5.301	UV Fluorescence
C. NO _x	80(mg/m ³)	7.33	23.42	19.43	Chemiluminescence
D. RPM	80(mg/m ³)	75.07	DNA	DNA	Beta Gauge Detection
E. LEAD	2(mg/m ³)	0.21	DNA	DNA	AAS
F. CO	2(mg/m ³)	1.48	0.908	0.981	IR GFC
G. Benzene	5(mg/m ³)	3.47	DNA	DNA	Gas Chromatography
H. Ammonia	400(mg/m ³)	2.62	DNA	DNA	Chemiluminescence
I. Ozone	100(mg/m ³)	23.59	DNA	DNA	UV Photometry

Remark:- (1) SSTPS is situated in an area that is a part of the great Indian Thar desert and is under the influence of high winds & storms resulting in blowing of sand and hence high background SPM.

III. LIQUID EFFLUENT DISCHARGE DATA :-

A. CONDENSER COOLING WATER

S. NO.	PARAMETERS	NOTIFIED LIMIT *	ACTUAL VALUES
1	Inlet Temperature *C	Not prescribed by rajasthan state pollution controll Board jaipur	NA
2	Outlet Temperature *C		NA
3	pH		NA
4	Free Available Chlorine (mg/Litre)		NA

B. BOILER BLOW DOWN PARAMETERS

S. NO.	PARAMETERS	NOTIFIED LIMIT *	ACTUAL VALUES					
			UNIT#1	UNIT#2	UNIT#3	UNIT#4	UNIT#5	UNIT#6
1	Oil & Grease (mg/Litre)	20	ND	ND	ND	ND	ND	ND
2	Copper (mg/Litre)	1	ND	ND	ND	ND	ND	ND
3	Iron (mg/Litre)	1	Traces	Traces	Traces	Traces	Traces	Traces
4	Total Suspended Solids (mg/Litre)	100	9	9.2	8.4	8.20	UASD	9.80

C. COOLING TOWER BLOW DOWN PARAMETERS

S. NO.	PARAMETERS	NOTIFIED LIMIT *	ACTUAL VALUES					
			UNIT#1	UNIT#2	UNIT#3	UNIT#4	UNIT#5	UNIT#6
1	Free Available Chlorine (mg/Litre)	0.5	0.1	0.2	0.1	0.20	UASD	0.10
2	Zinc (mg/Litre)	1	ND	ND	ND	ND	ND	ND
3	Chromium (mg/Litre)	0.2	ND	ND	ND	ND	ND	ND
4	Phosphate (mg/Litre)	5	ND	ND	ND	ND	ND	ND

D. ASH POND EFFLUENT

S. NO.	PARAMETERS	NOTIFIED LIMIT *	ACTUAL VALUES
1	pH	6.5-8.5	8.1
2	Oil & Grease (mg/Litre)	20	ND
3	Total Suspended Solids (mg/Litre)	100	72

E. POWER HOUSE COMMON DISPOSAL SUMP (ETP)

S. NO.	PARAMETERS	NOTIFIED LIMIT *	ACTUAL VALUES
1	pH	6.5-8.5	8.1
2	Oil & Grease (mg/Litre)	20	ND
3	Total Suspended Solids (mg/Litre)	100	55
4	BOD (mg/Litre)	30	3
5	COD (mg/Litre)	250	10

F. TREATED COLONY WASTE WATER ANALYSIS (STP)

	PH (5.5-9.0)	O&G (10mg/Ltr.)	Total Suspended Solids (100mg/Ltr.)	C O D (250mg /Ltr.)	B O D (30 mg/ L)	Sulphide (as S) (2.0mg/L)	Ammonical Nitrogen (as N) (50 mg/L)	Total Residual Chlorine (1.0mg/L)
Colony	8.00	ND	64.00	64.00	11.00	ND	0.10	0.10

Chief Chemist
STPS, RVUN, Suratgarh

Chemist(Environment)
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