

Ref: - AEML/ADTPS/EMG/MoEF/0401190953

Date: 05/01/2019

To,

Additional Principal Chief Conservator of Forest (C),
Ministry of Environment and Forests & Climate Change,
Regional Office (WCZ), Ground Floor,
East wing, New Secretariat building
Civil Line,
Nagpur - 440001.

Sub:- Environmental Reports of 2 x 250 MW Dahanu TPS.

Dear Sir,

Please find herewith half yearly Environment Monitoring Test Report of ADTPS, Dahanu. This report comprises of Stack Emission, Ambient Air Quality, Condenser Cooling Water, Ash Pond Effluent, Sewage Treatment Plants, D.M. Plant Effluent & Noise Level Monitoring done at ADTPS for the period of July' 2018 to December' 2018.

Thanking You,

Your's truly,
For Adani Electricity Mumbai Limited,



Sanjay V. Patil
Head (EMG), ADTPS

Encl: As above.

ADANI ELECTRICITY MUMBAI LIMITED
ADANI DAHANU THERMAL POWER STATION

STACK EMISSION FOR JULY'2018 TO DECEMBER'2018

Sr. No.	MONTH / YEAR	TPM mg/Nm ³		SO ₂ mg/Nm ³		NOx mg/Nm ³	
		UNIT # I	UNIT # II	UNIT # I	UNIT # II	UNIT # I	UNIT # II
		Allowable MPCB LIMITS as per MoEF notification of 7.12.2015					
		100 mg/Nm ³		600 mg/ Nm ³		600 mg/ Nm ³	
		UNIT # I	UNIT # II	UNIT # I	UNIT # II	UNIT # I	UNIT # II
1.	JULY'2018	42.8	45.3	103.8	114.0	312.9	312.3
2.	AUGUST'2018	43.4	43.0	101.9	109.8	308.9	309.7
3.	SEPTEMBER'2018	45.7	48.3	104.1	106.3	294.3	302.9
4.	OCTOBER'2018	48.8	43.8	104.8	110.8	310.0	307.8
5.	NOVEMBER'2018	50.0	48.9	111.4	113.7	300.1	302.8
6.	DECEMBER'2018	46.1	43.6	118.8	118.8	297.5	303.1

Katir
Manager (EMG)

**ADANI ELECTRICITY MUMBAI LIMITED
ADANI DAHANU THERMAL POWER STATION
AAQM AT ASHAGAD FOR JULY' 2018 TO DECEMBER'2018**

Sr. No.	MONTH/YEAR	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM 10 (µg/m ³)	PM 2.5 (µg/m ³)
		ALLOWABLE MPCB LIMITS			
		80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)
1.	JULY'2018	5.2	12.9	32.9	18.8
2.	AUGUST'2018	4.4	12.5	36.7	19.0
3.	SEPTEMBER'2018	4.9	15.7	35.2	20.9
4.	OCTOBER'2018	5.2	15.7	54.8	27.9
5.	NOVEMBER'2018	6.3	12.7	44.5	31.0
6.	DECEMBER'2018	7.5	16.4	50.0	15.9

Fatima
Manager (EMG)

**ADANI ELECTRICITY MUMBAI LIMITED
ADANI DAHANU THERMAL POWER STATION
AAQM AT VANGAON FOR JULY' 2018 TO DECEMBER'2018**

Sr. No.	MONTH/YEAR	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM 10 (µg/m ³)	PM 2.5 (µg/m ³)
		ALLOWABLE MPCB LIMITS			
		80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)
1.	JULY'2018	5.7	12.0	36.4	19.2
2.	AUGUST'2018	6.7	11.2	31.8	19.0
3.	SEPTEMBER'2018	8.3	11.3	34.1	20.7
4.	OCTOBER'2018	8.1	9.0	41.1	26.0
5.	NOVEMBER'2018	7.4	13.4	45.2	25.7
6.	DECEMBER'2018	7.6	13.2	46.2	23.6

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Manager (EMG)

**ADANI ELECTRICITY MUMBAI LIMITED
ADANI DAHANU THERMAL POWER STATION
AAQM AT KOSBAD FOR JULY' 2018 TO DECEMBER'2018**

Sr. No.	MONTH/YEAR	SO ₂ (µg/m ³)	NO _x (µg/m ³)	PM 10 (µg/m ³)	PM 2.5 (µg/m ³)
		ALLOWABLE MPCB LIMITS			
		80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)
1.	JULY'2018	5.2	10.8	42.1	19.2
2.	AUGUST'2018	5.3	11.4	40.6	18.8
3.	SEPTEMBER'2018	5.4	11.2	42.7	19.8
4.	OCTOBER'2018	5.2	13.6	39.0	23.5
5.	NOVEMBER'2018	4.0	14.4	38.9	21.1
6.	DECEMBER'2018	4.0	13.4	40.8	21.6

Fatima
Manager (EMG)

**ADANI ELECTRICITY MUMBAI LIMITED
ADANI DAHANU THERMAL POWER STATION
CONDENSER COOLING WATER ANALYSIS FOR JULY '2018 TO DECEMBER'2018**

Sr. No.	MONTH/YEAR	ΔT °C BETWEEN INLET & DISCHARGE POINT			pH			FREE CHLORINE (mg/lit)		
		Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.
ALLOWABLE MPCB LIMITS										
		< 5 °C			6.5 – 8.5			0.5 (mg/lit)		
1.	JULY'2018	3.7	2.4	3.0	7.61	7.41	7.50	NIL	NIL	NIL
2.	AUGUST'2018	3.9	2.6	3.1	7.75	7.45	7.61	NIL	NIL	NIL
3.	SEPTEMBER'2018	4.1	2.5	3.4	7.66	7.46	7.54	NIL	NIL	NIL
4.	OCTOBER'2018	4.2	3.0	3.9	7.89	7.66	7.76	NIL	NIL	NIL
5.	NOVEMBER'2018	4.1	2.8	3.3	7.95	7.60	7.82	NIL	NIL	NIL
6.	DECEMBER'2018	4.2	2.5	3.3	8.05	7.80	7.92	NIL	NIL	NIL

Fatima
Manager (EMG)

**ADANI ELECTRICITY MUMBAI LIMITED
ADANI DAHANU THERMAL POWER STATION
ASH POND EFFLUENT ANALYSIS FOR JULY' 2018 TO DECEMBER'2018**

Sr. No.	MONTH/YEAR	pH			SUSPENDED SOLIDS (mg/lit)			OIL & GREASE (mg/lit)		
		Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.
		ALLOWABLE MPCB LIMITS								
		6.5 – 9.0			100 mg/lit			20 mg/lit		
1.	JULY'2018	8.02	7.87	7.94	24.0	18.0	20.8	NIL	NIL	NIL
2.	AUGUST'2018	8.05	7.96	8.00	22.0	18.0	20.4	NIL	NIL	NIL
3.	SEPTEMBER'2018	8.04	7.96	8.00	25.0	18.0	20.8	NIL	NIL	NIL
4.	OCTOBER'2018	8.01	7.94	7.98	26.0	18.0	21.3	NIL	NIL	NIL
5.	NOVEMBER'2018	8.03	7.91	7.98	27.0	21.0	23.8	NIL	NIL	NIL
6.	DECEMBER'2018	8.05	7.94	8.00	25.0	20.0	22.5	NIL	NIL	NIL

Falke
Manager (EMG)

**ADANI ELECTRICITY MUMBAI LIMITED
ADANI DAHANU THERMAL POWER STATION
DOMESTIC EFFLUENT TREATMENT PLANT (PLANT) ANALYSIS FOR JULY' 2018 TO
DECEMBER'2018**

Sr. No.	MONTH/YEAR	BOD (mg/lit) 3 days at 27 ^o C			SUSPENDED SOLIDS (mg/lit)			COD (mg/lit)		
		Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.
		ALLOWABLE MPCB LIMITS								
		30 mg/lit			50 mg/lit			100 mg/lit		
		Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.
1.	JULY'2018	6.0	4.5	5.2	25.0	19.0	21.8	15.8	12.8	14.6
2.	AUGUST'2018	5.5	4.9	5.2	24.0	18.0	21.0	16.4	12.8	14.6
3.	SEPTEMBER'2018	5.5	5.1	5.3	26.0	18.0	21.8	15.2	13.1	14.0
4.	OCTOBER'2018	5.4	5.1	5.2	22.0	18.0	19.8	15.8	13.2	14.7
5.	NOVEMBER'2018	5.4	5.2	5.3	25.0	19.0	22.0	15.8	13.2	14.5
6.	DECEMBER'2018	5.7	4.0	4.8	23.0	18.0	21.0	15.9	14.8	15.3

Fatima
Manager (EMG)

**ADANI ELECTRICITY MUMBAI LIMITED
ADANI DAHANU THERMAL POWER STATION
DOMESTIC EFFLUENT TREATMENT PLANT (COLONY) ANALYSIS FOR JULY' 2018 TO
DECEMBER'2018**

Sr. No.	MONTH/YEAR	BOD (mg/lit) 3 days at 27 ⁰ C			SUSPENDED SOLIDS (mg/lit)			COD (mg/lit)		
		Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.
		ALLOWABLE MPCB LIMITS								
		30 mg/lit			50 mg/lit			100 mg/lit		
1.	JULY'2018	12.5	10.6	11.4	30.0	28.0	28.8	38.7	35.8	37.6
2.	AUGUST'2018	11.2	8.6	9.8	34.0	28.0	30.2	32.1	26.7	28.9
3.	SEPTEMBER'2018	10.5	9.2	9.9	36.0	29.0	33.0	30.5	27.5	29.1
4.	OCTOBER'2018	12.2	9.1	10.8	32.0	21.0	27.5	30.3	27.3	28.8
5.	NOVEMBER'2018	12.1	9.4	10.6	33.0	27.0	30.3	31.0	27.8	29.7
6.	DECEMBER'2018	12.3	10.5	11.3	33.0	27.0	30.0	31.6	27.6	29.7

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Manager (EMG)

**ADANI ELECTRICITY MUMBAI LIMITED
ADANI DAHANU THERMAL POWER STATION
D.M.PLANT ANALYSIS FOR JULY' 2018 TO DECEMBER'2018**

Sr. No.	MONTH / YEAR	pH	BOD (mg/lit)	COD (mg/lit)	S.S. (mg/lit)	O & G (mg/lit)	TDS (mg/lit)
		ALLOWABLE MPCB LIMITS					
		5.5 – 9.0	30 mg/lit	250 mg/lit	100 mg/lit	10 mg/lit	2100 mg/lit
1.	JULY'2018	7.93	2.0	3.0	7.6	NIL	689.0
2.	AUGUST'2018	7.78	2.1	3.0	8.9	NIL	808.0
3.	SEPTEMBER'2018	7.69	2.1	3.0	10.6	NIL	975.0
4.	OCTOBER'2018	7.85	2.7	3.4	14.9	NIL	548.0
5.	NOVEMBER'2018	7.90	2.5	3.2	12.5	NIL	952.0
6.	DECEMBER'2018	7.74	2.2	3.1	13.2	NIL	856.0

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Manager (EMG)

**ADANI ELECTRICITY MUMBAI LIMITED
ADANI DAHANU THERMAL POWER STATION
NOISE LEVEL MONITORING FOR JULY' 2018 TO DECEMBER'2018**

Sr. No.	MONTH/YEAR	NOISE LEVEL dB (A)		
		ALLOWABLE MPCB LIMITS : DAY/NIGHT – 75/70 dB (A)		
		Maximum	Minimum	Average
1.	JULY'2018	57/55	45/43	50/48
2.	AUGUST'2018	57/56	45/43	50/48
3.	SEPTEMBER'2018	58/55	45/43	50/48
4.	OCTOBER'2018	60/59	46/43	52/50
5.	NOVEMBER'2018	58/56	45/44	51/49
6.	DECEMBER'2018	61/59	46/44	54/52

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Manager (EMG)