



रामगुण्डम
RAMAGUNDAM

Ref.No:09/EMG/A1/2016/

Date: 10.11.2016

To

THE DIRECTOR
Regional Office (SEZ)
Ministry of Environment Forests & Climate Change
1st and 2nd Floors, Handloom Export Promotional Council
4 Cathedral Garden Road
Nungambakkam, Chennai -560 034

Dear Sir

Sub: Six Monthly Compliance report of EC issued to NTPC Ramagundam -Reg

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We are herewith submitting the six monthly compliance reports for EC given to our station pertaining to the period April 2016 to September 2016. Also we are submitting the stack data, ambient air quality data and dust concentration data for the period along with report. Also please find enclosed the Soft copy of the report in CD.

Thanking you

Yours faithfully
For NTPC Ltd

Y.S.G.
(Y.S.GUPTA) 10/11/16
Additional General Manager (EMG)

**STATUS OF IMPLEMENTATION OF CONDITIONS STIPULATED IN
ENVIRONMENTAL CLEARANCE**

NAME OF THE PROJECT: RAMAGUNDAM STPP STAGE-III (1X500MW)

LETTER NO: OMNOJ-1301/20/94-IA-II DATED 25/09/1995.

S. No.	STIPULATIONS	STATUS AS ON 30.09.2016
1.	All the conditions stipulated by the State Pollution Control Board shall be implemented effectively.	All the conditions stipulated by the State Pollution Control Board are being implemented effectively.
2.	A stack of height not less than 275 meters shall be provided along with stack monitoring devices.	Stack height of 275 meter with stack monitoring facilities have been provided.
3.	The Electrostatic Precipitators having efficiency of not less than 99.8 percent shall be installed.	ESP having more than 99.8% efficiency have been provided.
4.	The particulate emission shall not exceed the prescribed limit of 150 mg/Nm ³ at any time.	Particulate emissions are being maintained within the prescribed limit of 115 mg/Nm ³ by Telangana SPCB.
5.	Space provision shall be made for installation of FGD plant, if felt necessary, at future time.	Adequate Space has been provided in the layout for installation of FGD plant in future.
6.	Regular monitoring of air quality (at least two days a week) in and around the power plant shall be carried out and records maintained. Periodic report (on six monthly basis) on air quality shall be submitted to this Ministry.	Ambient Air Quality monitoring for the station for PM ₁₀ , PM _{2.5} , SO ₂ and NO _x is being carried out twice a week at 3 locations identified with SPCB through MoEF&CC recognized laboratory and record maintained. Other parameters as per NAAQ standards are being monitored and submitted along with this report.
7.	Recycling and reuse of ash pond effluents shall be undertaken to the extent possible. There shall be no direct discharge into the river Godavari.	The station has AWRS alongwith treatment system and the ash pond water is treated and reused to the maximum extent. The existing AWRS is being augmented with additional pipeline and pumping system (already tendered) for complete reuse of ash pond water.
8.	The proposed study on leaching of heavy metals from the ash pond to ground water will be undertaken early and report furnished to this Ministry. Based on the results of the study, corrective measures if any felt necessary shall be implemented.	A geo-hydrological study under the Indo-Dutch collaboration has been completed. The report was submitted to MoEF&CC on 02.06.1997.
9.	NOC from State Pollution Control Board shall be obtained and furnished.	No Objection Certificate (NOC) was obtained and submitted to MoEF&CC on 23.08.1999.
10.	Dust suppression and dust extraction devices shall be installed in the coal handling areas to ensure that the level of dust is well within the prescribed limits.	Dust Suppression and Extraction System in coal handling areas are provided to ensure that the level of dust is well within the prescribed limits.

11.	Closed circuit cooling with induced draft cooling tower shall be provided.	Closed cycle cooling system with induced draft cooling towers has been provided.
12.	The workers in the high noise areas will be provided with ear protection devices.	The workers in the high noise area are provided with appropriate ear protection devices.
13.	A workable plan for ash Utilisation starting with at least 20% in the first year and gradually increasing by 10 during subsequent years so as to achieve 100% Utilisation by the end of the ninth year shall be prepared and submitted to this Ministry within six months.	<p>The stage III has been provided with 100% Dry ash extraction system since the inception stage itself. The dry ash is being issued to manufacturers of cement, RMC and brick/blocks. Balance ash of Stage III is being issued to mine stowing and clay brick manufacturers.</p> <p>Revised Ash Utilization Plan submitted to MoEF&CC on 03.08.2000 and the same is being implemented. In compliance to the latest fly ash notification dated 03.11.2009, revised action plan has also been submitted. In FY 2015-16 the station has achieved ash utilization of 89.22%. For 100% ash utilization, station has created following facilities.</p> <ol style="list-style-type: none"> 1. Station has installed Full fledged Dry Ash Extraction System in all units (unit-2 to 7) other than unit 1. For unit-1 DAES was already tendered. 2. Rail loading facilities commissioned in unit 4&5 to meet the distance customer's demand. 3. Pond ash is utilized in Mine stowing purpose, ash dyke raising, clay brick units, etc.
14.	In order to conserve water at thermal power station, efforts should be made to utilize the treated water to the maximum extent possible.	<ol style="list-style-type: none"> 1. The treated DM effluent, Coal settling ponds effluent and plant effluent are reused for ash handling. The cooling tower blow down is reused in dust suppression system and as service water. 2. To conserve precious water a closed circuit cooling water system with induced draft cooling towers has been adopted. For further reducing water consumption, cooling water treatment is being carried out by chemical dosing to operate the cooling water system at increased COC.
15.	Liquid effluents shall be treated to conform to the standards prescribed by State/Central Pollution Control Board.	An integrated Effluent Treatment Plant (ETP) cum Ash Water Recirculation System (AWRS) has been provided at the station. All effluents from plant area are finally treated and effluent conforming to the standards by SPCB/CPCB are discharged from the plant.
16.	Adequate measures for protection against various hazards such as fire,	Extensive Fire detection and protection system are provided to the satisfaction of

	shall be taken to the satisfaction of the respective authorities concerned.	the respective authorities concerned.
17.	Green belt of adequate width shall be developed all around the power plant by selecting suitable species in consultation with the authorities of State Forest Department.	Green belt all around the power plant has been developed. About 13 lakh trees have been planted in and around the plant and township.
18.	As the liquid effluents are finally being discharged into river Godavari, a study on bio-magnification of heavy metals in the aquatic life may be taken up and the report submitted to this Ministry.	The study was undertaken through M/s. Shriram Institute of Industrial Research, Delhi and the report has been forwarded to MoEF&CC vide letter dated 16.08.2004.
19.	During ash pond reclamation, the selection of species to be planted may be made very carefully taking into consideration the nature of the soil and the total climatic conditions in consultation with the authorities of the State Forest Department.	A pioneering attempt of growing selected species like <i>Casuarinas Equisetifolia</i> , <i>Acacia Auriculiformis</i> , <i>Cassia Siamea</i> , <i>Eucalyptus Globules</i> on the ash directly has already been successfully implemented in the abandoned temporary ash pond of RSTPS (before 1990). In the present ash pond reclamation has not yet started. Shall be complied as and when the ash pond is reclaimed.
20.	Stack data to be furnished within three months.	Data is regularly being furnished through six monthly compliance reports. Continuous emission monitoring system I(CEMS) for gaseous emissions also has been installed and being monitored continuously.
21.	Information on change of emission load with ESP field failures may be furnished.	Adequate care has been taken in the ESP design and function to ensure emission within stipulated standards all the times.
22.	Copy of the confirmation regarding coal linkage to be provided.	Coal linkage had been accorded vide letter dated 02.09.1999. A copy of this letter is submitted to MoEF&CC on 03.08.2000.
23.	Only washed coal shall be used for the project. Fuel; analysis of the washed coal so used shall be carried out every month and records maintained. The analysis report shall form part of the six monthly report to be submitted to this Ministry.	Permission has been granted for uses of raw coal vide MoEF&CC letter dated 14.12.1998.
24.	Reduction in fresh water requirement may be examined taking into account the plant as a combined unit by adopting suitable size of the condenser, flow rate and drift.	The closed cooling water system along with dedicated treatment system for CW water enabled the COC increase from 2.0 to 3.5, which has reduced the water requirement. Blow down of CW system is used for equipment cooling and service water purpose before joining plant effluent.
25.	Separate funds should be allocated for implementation of environment protection measures along with item wise breakup. These costs should be	The funds on environmental protection measures along with item – wise break-up is provided in the project cost. The total funds earmarked for environmental

	included as part of the project cost. The funds earmarked for the environmental protection measures should not be diverted for other purposes and year wise expenditure should be reported to this Ministry.	protection has not been diverted for other purposes.
26.	Regional office of this Ministry at Bangalore will monitor the implementation of above conditions.	Noted.
27.	The project authorities shall submit to this Ministry a half yearly report on the implementation of the stipulated conditions and environmental safeguards.	This report provides the latest status for the period of April 2016 to September 2016 of the implementation of stipulated conditions and environmental safeguards along with soft copy.

**STATUS OF IMPLEMENTATION OF CONDITIONS STIPULATED IN
ENVIRONMENTAL CLEARANCE**

**NAME OF THE PROJECT: RAMAGUNDAM STPP STAGE-III (1X500MW)
LETTER NO.J.13011/20/94-I AII (T) DT.NOVEMBER 8, 2000**

S. NO.	STIPULATIONS	STATUS AS ON 30.09.2016
1.	All the stipulations made in our environmental clearance letter dated 25 th September, 1995 referred to above should be strictly implemented	Status is enclosed separately.
2.	100% fly ash utilization should be ensured by 9 th year as per the broad utilization Plan submitted along with NTPC's communication no. CC: ESE: 3100:2000: GEN: 4B dated 3 rd August 2000.	<p>The stage III has been provided with 100% Dry ash extraction system since the inception stage itself. The dry ash is being issued to manufacturers of cement, RMC and brick/blocks. Balance ash of Stage III is being issued to mine stowing and clay brick manufacturers.</p> <p>Revised Ash Utilization Plan submitted to MoEF&CC on 03.08.2000 and the same is being implemented.</p> <p>In compliance to latest fly ash notification dated 03.11.2009, revised action plan has also been submitted. In FY 2015-16 the station has achieved ash utilization of 89.22%. For 100% ash utilization, station has created following facilities.</p> <ol style="list-style-type: none"> 1. Station has installed Full fledged Dry Ash Extraction System in all units (Unit-2 to 7) other than unit 1. For unit-1 DAES was already tendered. 2. Rail loading facilities commissioned in unit 4&5 to meet the distance customer's demand. 3. Pond ash is utilized in Mine stowing purpose, ash dyke raising, clay brick units, etc.
3.	The findings of the study on Bio-magnification of heavy metals in the aquatic life due to discharge of liquid effluents into Godavari river should be submitted along with the Management Plan within one year.	The study was undertaken through M/s. Shriram Institute of Industrial Research, Delhi and the report has been forwarded to MoEF&CC vide letter dated 16.08.2004.
4.	A copy of the Geo-hydrological study under Indo-Dutch collaboration should be submitted along with the plans for necessary corrective measures to avoid leaching of heavy metals from ash pond area to ground water.	A Geo-hydrological study under the Indo-Dutch collaboration has been completed. The report was submitted to MoEF on 2 nd June, 1997. (A detailed study to understand Geology of N2 Ash Pond as recommended in the Indo-Dutch Report has been completed.)

5.	Rs.162.38 crores earmarked for environmental measures should not be diverted for any other activity and provision should be made for additional funds, if required.	The earmarked amount of environmental measures was not diverted for any other activity. Any additional funds required for environmental mitigation measures would be met from miscellaneous fund kept in the Operation & Maintenance fund kept for the project.
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**TABLE-1: AMBIENT AIR QUALITY MONITORING DATA
FOR APRIL ' 2016 TO SEPTEMBER '2016**

Month/Date	Location	Concentration ($\mu\text{g}/\text{m}^3$)			
		PM-10	PM-2.5	SO ₂	NO _x
APRIL'16					
04.04.2016	Balancing Reservoir	64	31	18	16
	Ramagundam Pump House	69	34	19	16
	Guest House	79	39	20	17
08.04.2016	Balancing Reservoir	64	33	20	17
	Ramagundam Pump House	70	35	20	16
	Guest House	76	37	21	14
11.04.2016	Balancing Reservoir	66	34	20	16
	Ramagundam Pump House	69	31	18	17
	Guest House	80	38	21	15
15.04.2016	Balancing Reservoir	64	32	20	17
	Ramagundam Pump House	70	37	20	16
	Guest House	76	40	21	14
18.04.2016	Balancing Reservoir	66	28	20	16
	Ramagundam Pump House	69	32	18	17
	Guest House	80	41	21	15
22.04.2016	Balancing Reservoir	66	30	18	16
	Ramagundam Pump House	70	34	19	15
	Guest House	75	37	20	16
25.04.2016	Balancing Reservoir	64	29	17	15
	Ramagundam Pump House	68	32	18	16
	Guest House	71	33	19	17
29.04.2016	Balancing Reservoir	65	31	19	15
	Ramagundam Pump House	73	35	20	17
	Guest House	80	40	19	16
MAY'16					
02.05.2016	Balancing Reservoir	63	32	22	21
	Ramagundam Pump House	69	34	23	22
	Guest House	73	31	24	21
06.05.2016	Balancing Reservoir	62	30	22	18
	Ramagundam Pump House	72	32	24	22
	Guest House	78	38	25	23
09.05.2016	Balancing Reservoir	65	31	20	18
	Ramagundam Pump House	67	32	21	19
	Guest House	75	35	22	20
13.05.2016	Balancing Reservoir	63	30	21	20
	Ramagundam Pump House	68	33	22	18
	Guest House	70	36	22	19
16.05.2016	Balancing Reservoir	65	33	20	18
	Ramagundam Pump House	71	38	23	21
	Guest House	78	39	24	22
20.05.2016	Balancing Reservoir	82	42	21	18
	Ramagundam Pump House	62	30	18	16
	Guest House	96	41	23	20
23.05.2016	Balancing Reservoir	67	32	20	18
	Ramagundam Pump House	63	28	19	15
	Guest House	86	42	21	17
27.05.2016	Balancing Reservoir	69	32	19	17
	Ramagundam Pump House	66	32	18	16
	Guest House	94	44	23	19
30.05.2016	Balancing Reservoir	74	36	21	18
	Ramagundam Pump House	62	30	22	16
	Guest House	86	44	20	17

**TABLE-1: AMBIENT AIR QUALITY MONITORING DATA
FOR APRIL ' 2016 TO SEPTEMBER '2016**

Month/Date	Location	Concentration ($\mu\text{g}/\text{m}^3$)			
		PM-10	PM-2.5	SO ₂	NO _x
JUNE'16					
03.06.2016	Balancing Reservoir	76	38	19	17
	Ramagundam Pump House	64	34	17	15
	Guest House	89	45	21	18
06.06.2016	Balancing Reservoir	56	25	22	20
	Ramagundam Pump House	48	30	18	16
	Guest House	74	32	21	18
09.06.2016	Balancing Reservoir	51	28	17	15
	Ramagundam Pump House	47	22	20	17
	Guest House	64	25	23	13
13.06.2016	Balancing Reservoir	53	27	21	18
	Ramagundam Pump House	44	22	18	16
	Guest House	72	28	23	20
17.06.2016	Balancing Reservoir	58	24	20	15
	Ramagundam Pump House	46	27	23	17
	Guest House	66	30	22	15
20.06.2016	Balancing Reservoir	55	24	20	15
	Ramagundam Pump House	43	30	17	13
	Guest House	68	36	23	20
24.06.2016	Balancing Reservoir	56	29	20	16
	Ramagundam Pump House	58	31	22	17
	Guest House	62	29	17	15
27.06.2016	Balancing Reservoir	51	25	20	15
	Ramagundam Pump House	48	28	22	17
	Guest House	66	23	23	20
JULY'16					
01.07.2016	Balancing Reservoir	56	22	20	17
	Ramagundam Pump House	49	24	18	13
	Guest House	70	34	22	16
05.07.2016	Balancing Reservoir	49	22	21	18
	Ramagundam Pump House	43	20	19	19
	Guest House	69	31	22	20
13.07.2016	Balancing Reservoir	46	21	22	19
	Ramagundam Pump House	39	18	19	17
	Guest House	65	29	21	16
15.07.2016	Balancing Reservoir	47	21	19	14
	Ramagundam Pump House	41	23	22	20
	Guest House	58	26	20	17
18.07.2016	Balancing Reservoir	47	22	18	13
	Ramagundam Pump House	36	20	19	15
	Guest House	59	27	21	18
23.07.2016	Balancing Reservoir	56	23	23	14
	Ramagundam Pump House	53	23	20	18
	Guest House	56	25	18	19
26.07.2016	Balancing Reservoir	47	22	22	13
	Ramagundam Pump House	41	22	19	16
	Guest House	58	27	21	21
29.07.2016	Balancing Reservoir	49	22	22	15
	Ramagundam Pump House	46	21	21	11
	Guest House	65	31	18	18

**TABLE-1: AMBIENT AIR QUALITY MONITORING DATA
FOR APRIL ' 2016 TO SEPTEMBER '2016**

Month/Date	Location	Concentration ($\mu\text{g}/\text{m}^3$)			
		PM-10	PM-2.5	SO ₂	NO _x
AUGUST'16					
01.08.2016	Balancing Reservoir	44	21	20	15
	Ramagundam Pump House	40	24	17	21
	Guest House	64	31	24	22
08.08.2016	Balancing Reservoir	46	24	19	16
	Ramagundam Pump House	38	18	15	12
	Guest House	55	25	27	11
12.08.2016	Balancing Reservoir	44	24	22	21
	Ramagundam Pump House	37	17	21	17
	Guest House	62	30	19	19
15.08.2016	Balancing Reservoir	41	20	18	16
	Ramagundam Pump House	37	21	21	20
	Guest House	53	25	18	19
19.08.2016	Balancing Reservoir	42	20	21	12
	Ramagundam Pump House	32	25	22	18
	Guest House	53	26	20	16
22.08.2016	Balancing Reservoir	51	22	26	12
	Ramagundam Pump House	48	20	18	21
	Guest House	51	23	20	23
26.08.2016	Balancing Reservoir	42	20	25	16
	Ramagundam Pump House	37	22	21	14
	Guest House	52	28	19	23
29.08.2016	Balancing Reservoir	43	22	24	13
	Ramagundam Pump House	42	22	23	14
	Guest House	61	29	15	21
SEPTEMBER'16					
05.09.2016	Balancing Reservoir	34	16	17	15
	Ramagundam Pump House	26	14	18	14
	Guest House	36	16	20	17
09.09.2016	Balancing Reservoir	32	16	17	14
	Ramagundam Pump House	34	17	18	15
	Guest House	37	20	21	16
12.09.2016	Balancing Reservoir	33	19	20	16
	Ramagundam Pump House	31	14	18	14
	Guest House	40	20	21	15
16.09.2016	Balancing Reservoir	34	18	19	14
	Ramagundam Pump House	31	17	18	15
	Guest House	38	19	20	17
19.09.2016	Balancing Reservoir	32	16	18	15
	Ramagundam Pump House	29	14	20	17
	Guest House	37	18	18	15
23.09.2016	Balancing Reservoir	32	17	16	15
	Ramagundam Pump House	31	14	21	18
	Guest House	36	18	18	14
26.09.2016	Balancing Reservoir	32	16	19	15
	Ramagundam Pump House	30	16	18	14
	Guest House	37	22	21	17
30.09.2016	Balancing Reservoir	31	14	19	17
	Ramagundam Pump House	33	16	21	15
	Guest House	38	21	19	15

OTHER PARAMETERS AS PER NAAQ STANDARDS

DATE/LOCATION	Ozone($\mu\text{g}/\text{m}^3$)			CO (mg/m ³)		
	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM
22.04.2016						
Balancing Reservoir	48	37	32	0.6	0.4	0.5
Ramagundam Pump House	39	35	28	0.4	0.3	0.2
Guest House	36	26	22	0.6	0.2	0.2
	Pb	NH ₃	C ₆ H ₆	B(a)P	AS	Ni
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	ng/m ³	ng/m ³	ng/m ³
Balancing Reservoir	<0.001	34	<0.1	<0.5	<2.0	<2.0
Ramagundam Pump House	<0.001	30	<0.1	<0.5	<2.0	<2.0
Guest House	<0.001	12	<0.1	<0.5	<2.0	<2.0

DATE/LOCATION	Ozone($\mu\text{g}/\text{m}^3$)			CO (mg/m ³)		
	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM
16.05.2016						
Balancing Reservoir	56	42	38	0.5	0.3	0.1
Ramagundam Pump House	45	40	32	0.3	0.1	<0.1
Guest House	40	34	26	0.5	0.2	<0.1
	Pb	NH ₃	C ₆ H ₆	B(a)P	AS	Ni
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	ng/m ³	ng/m ³	ng/m ³
Balancing Reservoir	<0.001	39	<0.1	<0.5	<2.0	<2.0
Ramagundam Pump House	<0.001	34	<0.1	<0.5	<2.0	<2.0
Guest House	<0.001	18	<0.1	<0.5	<2.0	<2.0

DATE/LOCATION	Ozone($\mu\text{g}/\text{m}^3$)			CO (mg/m ³)		
	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM
24.06.2016						
Balancing Reservoir	50	38	36	0.4	0.2	0.1
Ramagundam Pump House	38	32	26	0.2	<0.4	<0.1
Guest House	36	29	22	0.4	0.1	<0.1
	Pb	NH ₃	C ₆ H ₆	B(a)P	AS	Ni
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	ng/m ³	ng/m ³	ng/m ³
Balancing Reservoir	<0.001	45	<0.1	<0.5	<2.0	<2.0
Ramagundam Pump House	<0.001	38	<0.1	<0.5	<2.0	<2.0
Guest House	<0.001	24	<0.1	<0.5	<2.0	<2.0

DATE/LOCATION	Ozone($\mu\text{g}/\text{m}^3$)			CO (mg/m ³)		
	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM
22.07.2016						
Balancing Reservoir	46	34	31	0.3	0.1	0.1
Ramagundam Pump House	33	26	21	0.1	<0.1	<0.1
Guest House	31	24	18	0.3	0.1	<0.1
	Pb	NH ₃	C ₆ H ₆	B(a)P	AS	Ni
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	ng/m ³	ng/m ³	ng/m ³
Balancing Reservoir	<0.001	49	<0.1	<0.5	<2.0	<2.0
Ramagundam Pump House	<0.001	42	<0.1	<0.5	<2.0	<2.0
Guest House	<0.001	29	<0.1	<0.5	<2.0	<2.0

DATE/LOCATION	Ozone($\mu\text{g}/\text{m}^3$)			CO (mg/m ³)		
	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM
29.08.2016						
Balancing Reservoir	43	31	28	0.2	0.1	0.1
Ramagundam Pump House	29	21	18	0.1	<0.1	<0.1
Guest House	28	20	15	0.2	0.1	<0.1

	Pb	NH3	C6H6	B(a)P	AS	Ni
	(µg/m3)	(µg/m3)	(µg/m3)	ng/m3	ng/m3	ng/m3
Balancing Reservoir	<0.001	52	<0.1	<0.5	<2.0	<2.0
Ramagundam Pump House	<0.001	46	<0.1	<0.5	<2.0	<2.0
Guest House	<0.001	32	<0.1	<0.5	<2.0	<2.0

26.09.2016	Ozone(µg/m3)			CO (mg/m3)		
	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM	6 AM-2 PM	2PM - 10PM	10 PM - 6 AM
Balancing Reservoir	48	36	32	0.4	0.3	0.3
Ramagundam Pump House	36	24	21	0.3	<0.1	<0.1
Guest House	32	26	18	0.3	0.2	<0.1
	Pb	NH3	C6H6	B(a)P	AS	Ni
	(µg/m3)	(µg/m3)	(µg/m3)	ng/m3	ng/m3	ng/m3
Balancing Reservoir	<0.001	60	<0.1	<0.5	<2.0	<2.0
Ramagundam Pump House	<0.001	52	<0.1	<0.5	<2.0	<2.0
Guest House	<0.001	38	<0.1	<0.5	<2.0	<2.0

TABLE-2: STACK MONITORING DATA FOR APRIL-2016 TO SEPTEMBER-2016

DATE	SPM (mg/Nm ³)						
	Unit -1	Unit -2	Unit -3	Unit -4	Unit -5	Unit -6	Unit -7
APRIL'16							
06.04.2016	85	94	90				
07.04.2016				110	107	105	
09.04.2016							80
20.04.2016	80	91	86				
21.04.2016				108	110	107	78
MAY'16							
04.05.2016	75	81					
05.05.2016			79				83
07.05.2016				105	108	110	
16.05.2016				100	103	108	
17.05.2016							72
18.05.2016	70	73	76				
JUNE'16							
04.06.2016				103	107	100	
06.06.2016							67
07.06.2016	75	80	77				
16.06.2016	82	90	86				
17.06.2016				110		106	76
JULY'16							
04.07.2016				108		110	72
05.07.2016	78	86	82				
20.07.2016	88	93	78				
21.07.2016				110	100	103	
22.07.2016							76
AUGUST'16							
04.08.2016				106	102		68
05.08.2016	84	80	76				
18.08.2016				108	106		79
19.08.2016	86	83	80				
26.08.2016						103	
SEPTEMBER'16							
06.09.2016	100	94	88				
07.09.2016				107	110	110	
08.09.2016							83
19.09.2016				107	105	109	
20.09.2016	92	97	89				
21.09.2016							75

**TABLE-3: DUST MONITORING (PM- 10) DATA
FOR APRIL' 2016 TO SEPTEMBER' 2016**

DATE	LOCATION	Dust Concentration (PM 10) in $\mu\text{g}/\text{m}^3$
APRIL'16		
05.04.2016	ESP Stage - II Area	78
05.04.2016	DAETP Stage -II Area	85
06.04.2016	BURNER FLOOR Stage - I	80
09.04.2016	BRICK PLANT	68
12.04.2016	MILL AREA STAGE - II	80
MAY'16		
02.05.2016	ESP Stage - I Area	76
02.05.2016	DAETP Stage -I Area	92
03.05.2016	BURNER FLOOR Stage - II	84
03.05.2016	ASH POND AREA	72
05.05.2016	MILL AREA STAGE -I	88
JUNE'16		
02.06.2016	ESP Stage - II Area	86
02.06.2016	DAETP Stage -IIArea	82
03.06.2016	BURNER FLOOR Stage - II	94
03.06.2016	BRICK PLANT	62
13.06.2016	MILL AREA STAGE - II	96
JULY'16		
02.07.2016	ESP Stage - I Area	74
02.07.2016	DAETP Stage -I Area	85
04.07.2016	BURNER FLOOR Stage - I	89
04.07.2016	BRICK PLANT	78
06.07.2016	ASH POND AREA	68
AUG'16		
03.08.2016	ESP Stage - II Area	72
03.08.2016	DAETP Stage -II Area	88
04.08.2016	BURNER FLOOR Stage - II	82
04.08.2016	ASH POND AREA	72
09.08.2016	MILL AREA STAGE - I	84
SEP'16		
03.09.2016	ESP Stage - I Area	75
03.09.2016	DAETP Stage -I Area	72
04.09.2016	BURNER FLOOR Stage - I	85
04.09.2016	ASH POND AREA	65
05.09.2016	MILL AREA STAGE - I	87