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Ref : PP/ENV/19/60/ Date : 23.10.2019

Dr. A.K.Gupta Joint Director, Ministry of Environment & Forests, Eastern Regional Office, A/3, Chandrasekharpur, Bhubaneswar – 751023.

Sub : Half yearly compliance report of 30 MW expansion Power Plant (from April'19 to September'19).

Ref: 1.Clause no. 3 (xix), General conditions of Environmental Clearance Letter No. J-13012/77/2007- IA II (T) dt 27.07.2007
2. Letter from MoEF, Eastern Regional Office dt 09.10.2007

Dear Sir,

Reference above, we are enclosing herewith half yearly compliance report (April'19 to September'19) in Annexure – I and soft copy of the same in CD for your needful.

Thanking you, Yours faithfully, for INDIAN METALS & FERRO ALLOYS LTD.

mahyoli

(B.Mohapatra) Sr. Vice President, Head – PBU & EIC, Choudwar.

Encl : As above.

cc to : Member Secretary, State Pollution Control Board, Orissa, Paribesh Bhavan, A/118, Nilakanthanagar, Unit – VIII, Bhubaneswar – 751012.

cc to: Regional Officer, State Pollution Control Board, Orissa, 586, Suryavihar, Link Road, Cuttack – 753012.

	COMPLIANCE TO CONDITIONS OF	MOEF CLEARENCE FOR 30 MW POWER PROJECT
SI.No.	CONDITION	COMPLIANCE STATUS
I)	No additional land shall be acquired for any activity relating to the proposed expansion project	The plant is being constructed within the available land ,adjacent to existing 108 MW power plant, as per the layout finalised for the 30MW expansion project which is under the ownership of IMFA. The relevant documents in this regard has already been submitted to OPCB. Refer Note below.
ii)	Sulphur content of in coal and middlings to be used as	Use of coal with sulphur content limited to 0.6%.
	fuel shall not exceed 0.6%	Month Sulphur% Apr'19 0.4231 May'19 0.3865 Jun'19 0.3316 Jul'19 0.3961 Aug'19 0.4155 Sept'19 0.4125
iii)	that SO2 emission will be kept below 51.2Kg/hr or 277	Construction of Stack of 45.6 m height is completed. Installation of continuous on-line monitoring system for SO2 emission is completed. The level of emission is found within the SPCB CTO norm. Off line analysis result is furnished below. Month SO2 (mg/Nm3) Apr'19 301 May'19 282 Jun'19 371 Jul'19 395 Aug'19 352 Sept'19 421
iv)	High efficiency Electrostatic Precipitators (ESPs) shall be installed to limit particulate emission to 100mg/Nm3	ESP with 99.92 % efficiency has been installed and commissioned. During operation PM emission was found to be < 100mg/Nm3. Results are furnished below.MonthPM (mg/Nm3)Apr'1946May'1939Jun'1944Jul'1947Aug'1941Sept'1940

SI.No.	CONDITION	COMPLIANCE STATUS						
v)	Low NOx burners shall be provided.	The CFBC boiler of 30MW does not have coal burners. However for efficient combustion of coal the state of the art technology,viz. Fluidized bed combustion has been employed. This boiler is having the added advantage of limiting NO_x emission due to its inherent low temperature(800-900 deg.C) combustion.						
vi)	CFBC technology with lime injection for removal of SO_2 up to 70% shall be provided.	Using CFBC technology and lime injection, SO ₂ removal will be more than 70%. Detail calculation sheet has already submitted. Refer note below.						
vii)	Dust extraction and dust suppression system and water	In the 30 MW power plant dust extraction system for CHP, coal bunker & ash silo has been installed and commissioned. Water sprinklers are provided at ground						
viii)	· · · · · · · · · · · · · · · · · · ·	Month Water consumption (total) Water consumption (Avg per day) Apr'19 61428 m3 2048 m3 May'19 49916 m3 1610 m3 Jun'19 61661 m3 2089 m3 Jul'19 52628 m3 1698 m3 Aug'19 46667 m3 1505 m3 Sept'19 55048 m3 1835 m3						
ix)	Closed circuit cooling system with cooling towers shall be installed.	Close circuit cooling system with cooling tower has been installed and commissioned. Make up to the system is being supplied from the existing 108 MW power plant. The system is operating at 4 to 5 COC.						
x)	standards shall be recirculated and reused within the	In the 30 MW power plant no effluent is generated, as treated water from existing 108 MW power plant is in use as make up to the cooling tower. Boiler blow down water and cooling tower blow down water is reused. No effluent is discharged to outside.						
xi)	scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority / State Ground water	We have constructed rain water management system with multiple storage reservoirs, for collection and reuse of rain water. We have consulted and obtained clearance of that technology from Central Ground Water Board, South Eastern Region. Letter no. 5-22/SER/CGWB/2016-17 – 1013 dt 27.10.2016 in this regard has been submitted to your good office.						

SI.No.	CONDITION	COMPLIANCE STATUS	
xii)	Leq of noise level shall be limited to 75 dBA and regular maintenance of equipments should be undertaken. For people working in high noise areas, personal protection devices should be provided.	During operation, noise level was regularly monitored and found to be <75	dBA.
xiii)	Dry ash collection system shall be provided. 100% ash utilisation shall be ensured from day one of the commissioning of the plant.	Dry ash collection system has been provided. Dry ash is now being collectedutilized completely.Ash utilisation%Apr'1999.98May'1999.95Jun'19100.06Jul'19100.0Aug'19100.0Sept'19100.0	d and
xiv)	A green belt shall be developed around the plan boundary with tree density of around 2500 trees per ha covering 1/3 of the total project area.		
xv)	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase		

SI.No.	CONDITION	COMPLIANCE STATUS
xvi)	Regular monitoring of ambient air quality shall be carried out in and around the power plant and records maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation of with the State Pollution Control Board. Periodic reports shall be submitted to the regional office of this Ministry at Bhubaneswar.	
xvii)	-	
xviii)	qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Separate environment management cell with qualified staff has been set up and functioning. Furnished below their name & contact number.NameContact numberM.Mukhopadhyay9777588612J.P.Mahapatra9777444162M.Mishra9937299612A.Samantray9777441673S. Panda9777440152
xix)	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry, the Regional office and the CPCB/SPCB.	Being complied. Last report was submitted on .20.04.2019. Letter no PP/ENV/19/77
xx)	Regional office of the Ministry of Environment & Forests located at Bhubaneswar will monitor the implementation of the stipulated conditions. Complete set of Environment Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.	

SI.No.	CONDITION	COMPLIANCE STATUS
xxi)	environmental protection measures along with item wise break up. The cost shall be included as part of the project cost. The funds earmarked for the environment	Details of fund allocation on different heads has been furnished earlier. Capital expenditure incurred for installation of (a) ESP + fly ash handling system is \$850000. (b) Coal dust extraction system + lime handling &dosing system is \$1,030,000. Further, year wise expenditure incurred for environmental protection measures ,during operation of the plant, are being furnished.
xxii)	Full cooperation shall be extended to the Scientists / Officers from the Ministry/ Regional office of the Ministry at Bhubaneswar / CPCB / SPCB who would be monitoring the compliance of environmental status.	

Note : Reports , write up etc. stated above have been submitted to your good office on 04.11.08 (Please refer our letter no EVP(O)/ENV/2006 dt 04.11.08)

Monitoring data

AMBIENT AIR	QUAL	IITĂ	STAC						·				-R 20'	,
	At coal handling plant			At Power plant lawn				Near 30 MW CHP Control room				Boiler 6		
Month/week	PM10	SO2	NO2	PM2.5	PM10	SO2	NO2	PM2.5	PM10	SO2	NO2	PM2.5	PM	SO2
April'1st week	78	13.6	8.3	41	72	14.4	7.3	37	84	15.8	9	45		
	83	14.8	7.9	35	77	12.8	9.1	30	88	13.9	8.5	39		
2nd week	80	15.5	9.3	32	69	13.6	8.4	28	79	13.9	8.9	36		
	71	12.9	8	38	80	15.3	8.7	32	86	16.2	9.4	47		
3rd week	75	14	8.8	31	66	11.8	7	36	80	14.8	8.3	41	46	30
	88	16.1	9.8	40	84	15	8.1	29	92	15.5	8.8	37		
4th week	90	14.3	7.9	25	81	13	7.2	22	85	15.9	8.4	33		
	81	13.1	9	35	75	15.4	7.7	38	90	14.1	8.2	42		
May' 1 st week	69	13.4	7.9	25	74	13.2	8.4	23	58	12	7.1	29		
may rection	53	12.9	8	39	62	13.5	7.5	30	68	13	7.2	35		
2nd week	70	13.6	6.9	43	75	15.3	8.8	33	80	16	9.2	31		
Zhu week	74	15.4	8.5	38	71	15.9	7.3	37	78	14.1	8.9	33		
3rd week	83	14	9.1	42	74	15.3	8.1	31	89	13.3	9.6	37		
JIU WEEK	80	16.4	8.4	46	85	14.2	7.6	41	91	15.5	9.0	45		
4th week	72	12.6	0.4 9.4	30	80	14.2	8.5	34	83	13.8	7.3	40	39	28
HUIWEEK														20
	86	16.3	7.5	40	79	12.8	9.1	38	88	14.9	8.3	36		
June' 1 st week	80	14.4	7.5	36	55	12.8	8.4	33	71	15.2	7.9	43		
	65	12.8	6.9	32	71	13.7	7.8	37	85	16.2	9.9	40		
2nd week	74	13.5	8.1	35	60	14.2	9.3	40	63	15.9	7.6	33		
	55	12	7.2	24	50	13.3	6.7	29	75	14.8	8.6	36		
3rd week	82	16	9.2	30	81	15.4	8.8	35	60	12.8	7.3	41	44	37
	82	11.3	6.5	25	76	14.8	7.6	20	80	15.9	9	26		
											10	00		
4th week	70	12.6	7.3	28	77	15	8.1	24	88	16.5	10	29		
4th week	70 76	12.6 13.9	7.3 7.8	28 22	77 70	15 14.6	8.1 8.4	24 17	88 78	16.5 15	10 9	29 24		
	76	13.9	7.8	22	70	14.6	8.4	17	78	15	9	24	-R'20'	19)
4th week AMBIENT AIR	76 QUAL	13.9	7.8 STAC	22 K EMIS	70 SION	14.6 DATA	8.4 OF 3	17 6 MW	78 (APRI	15 L '201 9	9 -SEF			
AMBIENT AIR	76 QUAL At c	13.9 ITY & coal ha	7.8 STAC ndling	22 K EMIS plant	70 SION At F	14.6 DATA Power	8.4 OF 3 plant	17 60 MW lawn	78 (APRII Near	15 L'2019 30 MW ro	9 -SEI CHP (om	24 PTEMBI Control	Во	iler 6
AMBIENT AIR Month/week	76 QUAL At c PM10	13.9 ITY & coal ha	7.8 STAC ndling NO2	22 K EMIS plant PM2.5	70 SION At F PM10	14.6 DATA Power SO2	8.4 OF 3 plant NO2	17 60 MW lawn PM2.5	78 (APRII Near 3 PM10	15 L'2019 30 MW ro SO2	9 O-SEI CHP (om NO2	24 PTEMBI Control PM2.5		iler 6
AMBIENT AIR	76 QUAL At c PM10 60	13.9 ITY & coal ha SO2 13.5	7.8 STAC ndling NO2 8	22 K EMIS plant PM2.5 19	70 SION At F PM10 54	14.6 DATA Power SO2 12.4	8.4 OF 3 plant NO2 6.8	17 60 MW lawn PM2.5 13	78 (APRII Near PM10 71	15 15 30 MW ro SO2 14.4	9 -SEI CHP (om NO2 8.6	24 PTEMBI Control PM2.5 35	Во	iler 6
AMBIENT AIR Month/week July'1st week	76 QUAL At c PM10 60 78	13.9 ITY & coal ha SO2 13.5 14.8	7.8 STAC ndling NO2 8 7.2	22 K EMIS plant PM2.5 19 22	70 SION At F PM10 54 63	14.6 DATA Power SO2 12.4 11	8.4 OF 3 plant NO2 6.8 7.8	17 60 MW lawn PM2.5 13 18	78 (APRII Near 3 PM10 71 64	15 15 30 MW ro SO2 14.4 12.7	9 -SEI CHP 0 om NO2 8.6 6.9	24 PTEMBI Control PM2.5 35 20	Во	iler 6
AMBIENT AIR Month/week	76 QUAL PM10 60 78 74	13.9 ITY & coal has SO2 13.5 14.8 15.3	7.8 STAC ndling NO2 8 7.2 6.9	22 K EMIS plant PM2.5 19 22 36	70 SION At F PM10 54 63 70	14.6 DATA Power SO2 12.4 11 13	8.4 OF 3 plant NO2 6.8 7.8 7.5	17 60 MW lawn PM2.5 13 18 31	78 (APRII Near 3 PM10 71 64 50	15 L'2019 30 MW ro SO2 14.4 12.7 11	9 CHP (om NO2 8.6 6.9 7.4	24 PTEMBI Control PM2.5 35 20 37	Во	iler 6
AMBIENT AIR Month/week July'1st week 2nd week	76 QUAL PM10 60 78 74 48	13.9 ITY & coal has SO2 13.5 14.8 15.3 11.3	7.8 STAC ndling NO2 8 7.2 6.9 6.5	22 K EMIS plant PM2.5 19 22 36 32	70 SION At F PM10 54 63 70 68	14.6 DATA Power SO2 12.4 11 13 13.5	8.4 OF 3 plant NO2 6.8 7.8 7.5 8.1	17 60 MW lawn PM2.5 13 18 31 20	78 (APRII Near 3 PM10 71 64 50 82	15 L'2019 30 MW ro SO2 14.4 12.7 11 15.2	9 CHP (om NO2 8.6 6.9 7.4 7.9	24 PTEMBI Control PM2.5 35 20 37 23	Во	iler 6
AMBIENT AIR Month/week July'1st week	76 QUAL PM10 60 78 74 48 82	13.9 ITY & coal has SO2 13.5 14.8 15.3 11.3 14.1	7.8 STAC ndling NO2 8 7.2 6.9 6.5 7.3	22 K EMIS plant PM2.5 19 22 36 32 26	70 SION At F PM10 54 63 70 68 68	14.6 DATA Power SO2 12.4 11 13 13.5 12.5	8.4 OF 3 plant NO2 6.8 7.8 7.5 8.1 6.6	17 60 MW lawn PM2.5 13 18 31 20 25	78 (APRII Near 3 PM10 71 64 50 82 56	15 30 MW ro SO2 14.4 12.7 11 15.2 13	9 -SEF CHP (om NO2 8.6 6.9 7.4 7.9 6	24 PTEMBI Control PM2.5 35 20 37 23 36	Во	iler 6
AMBIENT AIR Month/week July'1st week 2nd week 3rd week	76 QUAL At c PM10 60 78 74 48 82 66	13.9 ITY & coal has SO2 13.5 14.8 15.3 14.3 14.1 13.9	7.8 STAC ndling NO2 8 7.2 6.9 6.5 7.3 6.2	22 K EMIS plant PM2.5 19 22 36 32 26 40	70 SION At F PM10 54 63 70 68 66 49	14.6 DATA Power SO2 12.4 11 13 13.5 12.5 11.8	8.4 OF 3 plant NO2 6.8 7.8 7.5 8.1 6.6 7	17 60 MW lawn PM2.5 13 18 31 20 25 29	78 (APRII Near PM10 71 64 50 82 56 65	15 30 MW ro SO2 14.4 12.7 11 15.2 13 12.2	9 CHP (om NO2 8.6 6.9 7.4 7.9 6 7.1	24 PTEMBI Control PM2.5 35 20 37 23 36 33	PM	iler 6
AMBIENT AIR Month/week July'1st week 2nd week	76 QUAL At c PM10 60 78 74 48 82 66 70	13.9 ITY & soal has SO2 13.5 14.8 15.3 11.3 14.1 13.9 12.8	7.8 STAC ndling NO2 8 7.2 6.9 6.5 7.3 6.2 8.8	22 K EMIS plant PM2.5 19 22 36 32 26 40 34	70 SION At F PM10 54 63 70 68 66 49 65	14.6 DATA Power SO2 12.4 11 13 13.5 12.5 11.8 12.3	8.4 OF 3 plant NO2 6.8 7.8 7.5 8.1 6.6 7 8.1	17 60 MW lawn PM2.5 13 18 31 20 25 29 33	78 (APRII Near PM10 71 64 50 82 56 65 59	15 30 MW ro SO2 14.4 12.7 11 15.2 13 12.2 13.7	9 -SEF CHP (om NO2 8.6 6.9 7.4 7.9 6 7.1 7	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17	Во	iler 6
AMBIENT AIR Month/week July'1st week 2nd week 3rd week	76 QUAL At c PM10 60 78 74 48 82 66	13.9 ITY & coal has SO2 13.5 14.8 15.3 11.3 14.1 13.9 12.8 12.7	7.8 STAC ndling NO2 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3	22 K EMIS plant PM2.5 19 22 36 32 26 40 34 14	70 SION At F PM10 54 63 70 68 66 49 65 40	14.6 DATA Power SO2 12.4 11 13.5 12.5 11.8 12.3 11.5	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9	17 60 MW lawn PM2.5 13 18 31 20 25 29 33 24	78 (APRII Near 3 PM10 71 64 50 82 56 65 59 70	15 15 30 MW ro SO2 14.4 12.7 11 15.2 13 12.2 13.7 11.9	9 CHP 0 om NO2 8.6 6.9 7.4 7.9 6 7.1 7.8	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21	PM	iler 6
AMBIENT AIR Month/week July'1st week 2nd week 3rd week	76 QUAL At c PM10 60 78 74 48 82 66 70 58 68	13.9 ITY & coal has SO2 13.5 14.8 15.3 11.3 14.1 13.9 12.8 12.7 13	7.8 STAC ndling NO2 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3 7.1	22 K EMIS plant PM2.5 19 22 36 32 26 40 34 14 26	70 SION At I PM10 54 63 70 68 66 49 65 40 70 70	14.6 DATA Power SO2 12.4 11 13.5 12.5 11.8 12.3 11.5 14.8	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8	17 60 MW 1awn PM2.5 13 18 31 20 25 29 33 24 30	78 (APRII Near 3 PM10 71 64 50 82 56 65 59 70 55	15 -'2019 30 MW ro SO2 14.4 12.7 11 15.2 13 12.2 13.7 11.9 12.8	9 CHP 0 om NO2 8.6 6.9 7.4 7.9 6 7.1 7 7.8 7.8 7.8	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22	PM	iler 6
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week	76 QUAL At c PM10 60 78 74 48 82 66 70 58	13.9 ITY & coal has SO2 13.5 14.8 15.3 14.1 13.9 12.8 12.7 13 12.3	7.8 STAC ndling NO2 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3 7.1 8	22 K EMIS plant PM2.5 19 22 36 32 26 40 34 14 26 20	70 SION At I PM10 54 63 70 68 66 49 65 40 70 34	14.6 DATA Power SO2 12.4 11 13.5 12.5 11.8 12.5 11.8 9.5	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.8	17 60 MW 1awn PM2.5 13 18 31 20 25 29 33 24 30 13	78 (APRII Near 3 PM10 71 64 50 82 56 65 59 70	15 15 30 MW ro SO2 14.4 12.7 11 15.2 13 12.2 13.7 11.9	9 CHP 0 om NO2 8.6 6.9 7.4 7.9 6 7.1 7.8	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16	PM	39
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week	76 QUAL At c PM10 60 78 74 48 82 66 70 58 68	13.9 ITY & coal has SO2 13.5 14.8 15.3 11.3 14.1 13.9 12.8 12.7 13	7.8 STAC ndling NO2 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3 7.1	22 K EMIS plant PM2.5 19 22 36 32 26 40 34 14 26	70 SION At I PM10 54 63 70 68 66 49 65 40 70 70	14.6 DATA Power SO2 12.4 11 13.5 12.5 11.8 12.3 11.5 14.8	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8	17 60 MW 1awn PM2.5 13 18 31 20 25 29 33 24 30	78 (APRII Near 3 PM10 71 64 50 82 56 65 59 70 55	15 -'2019 30 MW ro SO2 14.4 12.7 11 15.2 13 12.2 13.7 11.9 12.8	9 CHP 0 om NO2 8.6 6.9 7.4 7.9 6 7.1 7 7.8 7.8 7.8	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22	PM	39
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week August 1 st week	76 QUAL PM10 60 78 74 48 82 66 70 58 68 50	13.9 ITY & coal has SO2 13.5 14.8 15.3 14.1 13.9 12.8 12.7 13 12.3	7.8 STAC ndling NO2 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3 7.1 8	22 K EMIS plant PM2.5 19 22 36 32 26 40 34 14 26 20	70 SION At I PM10 54 63 70 68 66 49 65 40 70 34	14.6 DATA Power SO2 12.4 11 13.5 12.5 11.8 12.5 11.8 9.5	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.8	17 60 MW 1awn PM2.5 13 18 31 20 25 29 33 24 30 13	78 (APRII Near : PM10 71 64 50 82 56 65 59 70 55 37	15 2019 30 MW ro S O2 14.4 12.7 11 15.2 13 12.2 13.7 11.9 12.8 11.8	9 -SEF CHP (om NO2 8.6 6.9 7.4 7.9 6 7.1 7 7.8 7.8 7.8 7.6	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16	Bo PM 47	39
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week August 1 st week	76 QUAL PM10 60 78 74 48 82 66 70 58 68 50 63	13.9 ITY & soal has SO2 13.5 14.8 15.3 11.3 14.1 13.9 12.8 12.7 13 12.3 14.2	7.8 STAC NO2 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3 7.1 8 7.5	22 K EMIS plant PM2.5 19 22 36 32 26 40 34 14 26 20 22	70 SION PM10 54 63 70 68 66 49 65 40 70 34 61	14.6 DATA SO2 12.4 11 13 13.5 12.5 11.8 12.3 11.5 14.8 9.5 15.2	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.8 9	17 60 MW lawn PM2.5 13 18 31 20 25 29 33 24 30 13 25	78 (APRII Near : PM10 71 64 50 82 56 65 59 70 55 37 67	15 30 MW ro SO2 14.4 12.7 11 15.2 13 12.2 13.7 11.9 12.8 11.8 13.4	9 -SEF CHP (om NO2 8.6 6.9 7.4 7.9 6 7.1 7 7.8 7.8 7.8 7.6 7.1	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16 12	Bo PM 47	39
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week August 1 st week 2nd week	76 QUAL PM10 60 78 74 48 82 66 70 58 68 50 63 55	13.9 ITY & soal has SO2 13.5 14.8 15.3 11.3 14.1 13.9 12.8 12.7 13 14.2 11.8	7.8 STAC NO2 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3 7.1 8 7.5 6.7	22 K EMIS plant PM2.5 19 22 36 32 26 40 34 14 26 20 22 10	70 SION At F PM10 54 63 70 68 66 49 65 40 70 34 61 65	14.6 DATA Power SO2 12.4 11 13.5 12.5 11.8 12.3 11.5 14.8 9.5 15.2 14.2	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.8 9 8.5	17 60 MW 1awn PM2.5 13 18 31 20 25 29 33 24 30 13 25 20 23 24 30 13 25 20	78 (APRII Near 3 PM10 71 64 50 82 56 65 59 70 55 37 67 71	15 30 MW ro SO2 14.4 12.7 11 15.2 13 12.2 13.7 11.9 12.8 11.8 13.4 15.5	9 -SEF CHP (om NO2 8.6 6.9 7.4 7.9 6 7.1 7.8 7.8 7.8 7.6 7.1 8.9	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16 12 27	Bo PM 47	39
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week August 1 st week 2nd week	76 QUAL At c PM10 60 78 74 48 82 66 70 58 68 50 63 55 42	13.9 ITY & soal has SO2 13.5 14.8 15.3 14.1 13.9 12.8 12.7 13 12.7 13 12.3 14.2 11.8 10.9	7.8 STAC ndling NO2 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3 7.1 8 7.5 6.7 6.9	22 K EMIS PM2.5 19 22 36 32 26 40 34 14 26 40 34 14 26 20 22 10 25	70 SION At I PM10 54 63 70 68 66 49 65 40 70 34 61 65 50	14.6 DATA SO2 12.4 11 13 12.5 11.8 12.3 11.5 14.8 9.5 15.2 14.2 13.3	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.8 9 8.5 7.7	17 60 MW Jawn PM2.5 13 18 31 20 25 29 33 24 30 13 25 20 18	78 (APRII Near 3 PM10 71 64 50 82 56 65 59 70 55 37 67 71 54	15 30 MW ro SO2 14.4 12.7 11 15.2 13 12.2 13.7 11.9 12.8 11.8 13.4 15.5 14.1	9 SEF CHP (om NO2 8.6 6.9 7.4 7.9 6 7.1 7 7.8 7.8 7.8 7.6 7.1 8.9 9.3	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16 12 27 30	Bo PM 47	39
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week August 1 st week 2nd week 3rd week	76 QUAL PM10 60 78 74 48 82 66 70 58 63 55 42 58	13.9 ITY & scoal has SO2 13.5 14.8 15.3 14.1 13.9 12.8 12.7 13 12.3 14.2 13.8 10.9 13.7	7.8 STAC ndling NO2 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3 6.2 8.8 7.3 6.5 7.3 6.7 7.1 8.8 7.5 7.5 6.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	22 K EMIS plant PM2.5 19 22 36 32 26 40 34 14 26 20 22 10 25 21	70 SION At F PM10 54 63 70 68 66 49 65 40 70 34 61 65 50 47	14.6 DATA SO2 12.4 11 13 12.5 11.8 12.3 11.5 14.8 9.5 15.2 14.2 13.3 12.9	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.8 9 8.5 7.7 8.3	17 60 MW lawn PM2.5 13 18 31 20 25 29 33 24 30 13 25 20 18 13	78 (APRII Near 3 PM10 71 64 50 82 56 65 59 70 55 37 67 71 54 56	15 L'2019 30 MW ro SO2 14.4 12.7 11 15.2 13.7 11.9 12.8 11.8 13.4 15.5 14.1 14.1 14	9 -SEF CHP (om NO2 8.6 6.9 7.4 7.9 6 7.1 7 7.8 7.8 7.8 7.6 7.1 8.9 9.3 8.2	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16 12 27 30 19	Bo PM 47	39
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week August 1 st week 2nd week 3rd week	76 QUAL PM10 60 78 74 48 82 66 70 58 68 50 63 55 42 58 32	13.9 ITY & coal has SO2 13.5 13.5 14.8 15.3 14.1 13.9 12.8 12.7 13 14.2 14.3 12.3 14.2 14.3 12.3 14.2 13.6 10.9 13.7 10.2	7.8 STAC ndling 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3 7.1 8 7.5 6.7 6.7 6.7 6.7 9 6.3	22 K EMIS plant PM2.5 19 22 36 32 26 40 34 14 26 20 22 10 25 21 14	70 SION At I PM10 54 63 70 68 66 49 65 40 70 34 65 50 47 36	14.6 DATA SO2 12.4 11 13 13.5 12.5 11.8 12.3 11.5 15.2 14.2 13.3 12.9 11.3	8.4 Plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.8 9 8.5 7.7 8.3 7.1 6.9	17 60 MW Jawn PM2.5 13 18 31 20 25 29 33 24 30 13 25 20 13 13 10	78 Near PM10 71 64 50 82 56 65 59 70 55 37 67 71 54 56 41	15 '2019 30 MW ro S 02 14.4 12.7 11 15.2 13.7 11.9 12.8 13.4 13.4 15.5 13.4 15.5 14.1 14.1 14.1 10.8	9 -SEF CHP (om NO2 8.6 6.9 7.4 7.9 6 7.1 7 7 7.8 7.8 7.8 7.6 7.1 8.9 9.3 8.2 6.9	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16 12 27 30 19 21	Bo PM 47	39 35
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week August 1 st week 2nd week 3rd week 3rd week 4th week	76 QUAL At c PM10 60 78 74 48 82 66 70 58 68 50 63 55 42 83 60 63 55 42 60 68	13.9 ITY & coal has SO2 13.5 14.8 15.3 14.8 15.3 14.1 13.9 12.8 12.7 13 12.3 14.2 13.3 14.2 13.3 14.2 13.3 14.2 13.3 14.2 13.3 14.2 13.7 10.2 13.2 13.2 13.2	7.8 STAC NO2 8 7.2 6.9 6.5 7.3 6.2 8.8 8 7.3 6.2 8.8 8 7.3 7.1 8 7.5 6.7 6.7 6.9 6.3 7.5 7.5 7.5 7.8	22 K EMIS plant PM2.5 19 22 36 40 32 26 40 34 14 26 40 20 22 10 25 21 14 16 38	70 SION At F PM10 54 63 70 68 66 49 50 70 34 61 65 50 47 36 42 64	14.6 DATA SO2 12.4 11 13.5 12.5 11.8 12.3 11.5 14.8 9.5 15.2 14.2 13.3 15.2 14.2 13.3 11.2 15.2 14.2 13.3 12.9 11.3 12.9 11.3 12.9	8.4 Plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.8 9 8.5 7.7 8.3 7.1 6.9 8.8 8.5 7.7 8.3 7.1 6.9 8.8 8.5 7.7 8.3 7.5 8.3 7.5 8.5 8.5 7.5 8.5 8.5 7.5 8.5 8.5 8.5 7.7 8.3 7.5 8.3 7.5 8.3 7.5 8.3 7.5 8.3 7.5 8.3 7.5 8.3 7.5 8.3 7.5 8.3 7.5 8.3 7.5 8.3 7.5 8.3 7.7 8.3 7.7 8.3 7.7 8.3 7.7 8.3 7.7 8.8 8.5 8.5 8.5 8.5 8.5 8.5 8.5	17 awn PM2.5 13 18 31 20 25 29 33 24 30 25 20 18 13 25 20 18 13 25 20 13 25 20 13 25 20 25 29 33 24 25 20 33 24 25 25 29 33 24 25 25 29 33 24 25 25 29 33 24 25 25 29 33 24 25 25 29 33 24 25 25 29 33 24 25 25 20 33 25 20 13 25 25 20 33 25 25 20 33 25 25 20 13 25 25 20 13 25 25 20 13 25 25 20 13 25 20 13 25 20 13 25 20 13 25 20 13 25 20 13 25 20 13 25 20 13 25 20 13 25 20 13 25 20 13 25 20 20 13 25 20 20 13 25 20 20 13 25 20 20 13 25 20 20 13 25 20 20 20 20 13 25 20 20 21 20 20 20 20 20 20 20 20 20 20	78 (APRII Near) 71 64 50 82 56 65 59 70 65 55 37 67 71 54 56 41 30 78	15 -2019 30 MW ro SO2 14.4 12.7 11 15.2 13.7 12.2 13.7 11.9 12.8 13.4 15.5 14.1 14 10.8 10 13.8	9 -SEI CHP 0 om NO2 8.6 6.9 7.4 7.9 6 7.4 7.9 6 7.4 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 21 21 16 12 27 30 19 21 24 45	Bo PM 47 41	39 35
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week August 1 st week 2nd week 3rd week 4th week eptember 1 st week	76 QUAL At c PM10 60 78 74 48 82 66 70 58 68 50 63 55 42 58 60 68 71	13.9 ITY & scoal has SO2 13.5 14.8 15.3 14.1 13.9 12.8 12.7 13 12.3 14.1 13.9 12.8 10.2 11.8 10.9 13.2 13.2 12.9 14.2	7.8 STAC ndling 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3 6.2 8.8 7.3 7.1 8 7.5 6.7 6.9 7.9 6.3 7.5 5 6.7 8.8 8 8.2	22 K EMIS plant PM2.5 19 22 26 40 32 26 40 40 22 20 22 14 16 25 21 14 16 38 30	70 SION At I PM10 54 63 70 68 49 65 40 70 34 61 65 40 70 34 61 65 50 47 36 42 64 49	14.6 DATA Power SO2 12.4 11 13 13.5 12.5 11.8 12.5 11.5 15.2 14.8 9.5 15.2 14.2 13.3 12.9 11.3 12.3 13 13 13 13 13 13 13 13 13 13 13 13 13	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.9 8.8 6.8 9 8.5 7.7 8.3 7.1 8.3 7.1 8.5 7.7 8.3 7.1 8.5 7.7 8.3 7.1 8.5 7.7 8.5 7.7 8.5 8.5 7.7 8.5 7.7 8.5 8.5 7.7 8.5 7.7 8.5 8.5 7.7 8.5 8.5 7.7 8.5 8.5 7.7 8.5 8.5 7.7 8.5 8.5 7.7 8.5 8.5 7.7 8.5 8.5 7.7 8.5 8.5 7.7 8.5 8.8 8.8 8.8 8.8 9 8.8 8.8 7.7 8.5 7.7 8.7 8.7 8.7 8.7 8.8 8.8 8.8	17 17 18 18 18 13 18 31 20 25 29 33 24 30 13 25 20 13 24 30 13 25 20 13 14 30 13 24 30 13 24 25 29 29 29 29 29 29 29 20 29 29 20 29 29 20 29 20 20 20 20 20 20 20 20 20 20	78 (APRII Near : PM10 71 64 50 82 56 65 59 70 55 59 70 55 59 70 55 57 70 55 54 56 41 30 78 50	15 -2019 30 MW for SO2 14.4 12.7 11 15.2 13.7 11.9 12.8 11.9 12.8 13.4 15.5 14.1 15.5 14.1 14.4 15.5 14.1 14.8 13.4 15.5 14.4 15.5 14.4 15.5 14.9 15.5 14.9 15.5 14.4 15.5 14.9 15.5 14.4 15.5 14.9 15.5 14.9 15.5 14.4 15.5 14.9 15.5 14.9 15.5 14.4 15.5 14.9 15.5 14.9 15.5 14.9 15.5 14.8 15.5 14.9 15.5 14.9 15.5 14.9 15.5 14.9 15.5 14.9 15.5 14.9 15.5 14.9 15.5 14.9 15.5 14.9 15.5 14.9 15.5 14.9 15.5 14.1 15.5 14.1 15.5 14.1 15.5 14.1 14.8 10.8	9 -SEI CHP 0 om NO2 8.6 6.9 7.4 7.9 6 7.1 7.8 7.6 7.1 8.9 9.3 8.2 6.9 6.4 8.3 7.2	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16 12 27 30 19 21 24 45 31	Bo PM 47 41	39 35
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week August 1 st week 2nd week 3rd week 3rd week 4th week	76 QUAL At c PM10 60 78 82 66 70 82 66 70 68 55 68 50 63 55 68 50 63 55 60 63 55 60 63 55 60 61 32 60 71 37	13.9 ITY & scoal has SO2 13.5 14.8 15.3 14.1 13.9 12.8 12.7 13 14.1 13.9 12.8 12.7 13 14.2 11.8 10.9 13.7 10.2 13.2 12.9 14.2 12.5	7.8 STAC ndling NO2 8 7.2 6.9 6.5 7.3 6.2 8.8 7.3 7.1 8 7.5 6.7 6.7 6.9 6.7 7.3 7.5 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	22 K EMIS plant PM2.5 19 22 36 32 26 40 34 14 26 20 22 10 25 21 14 16 38 30 41	70 SION At I PM10 54 63 70 68 66 49 65 40 70 34 61 65 50 47 36 64 49 38	14.6 DATA SOVET 12.4 11 13 13.5 12.5 11.8 12.5 11.5 14.8 9.5 15.2 14.2 13.3 12.9 11.3 13 12.8 13.1 12.8 11.5 11.5 2	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.9 8.8 6.8 9 8.5 7.7 8.3 7.1 6.9 8.8 7.7 8.3 7.1 6.9 7.7 8.3 7.1 6.9 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	17 17 18 17 18 18 13 18 13 12 20 25 29 33 24 30 13 25 20 13 24 30 13 25 20 13 14 20 25 29 33 24 24 13 13 13 13 14 20 25 29 33 24 24 24 25 29 33 24 24 25 29 30 13 13 20 24 24 24 25 29 30 24 24 24 25 29 30 24 24 25 29 30 24 24 24 25 29 30 24 24 25 29 30 24 24 25 29 30 24 24 24 25 29 30 24 24 25 29 30 24 24 24 25 29 30 24 29 30 24 29 30 24 29 30 24 29 30 24 29 30 24 13 25 29 30 30 18 19 19 29 29 30 30 10 25 29 30 30 10 21 29 30 30 10 21 29 30 30 10 21 29 30 30 10 21 29 30 30 10 21 29 30 30 10 21 29 30 30 10 21 29 30 30 10 21 29 30 30 10 21 20 20 20 20 20 20 20 20 20 20	78 (APRII Near 3 PM10 71 64 50 82 56 65 59 70 70 55 37 67 71 54 56 41 30 78 55 50 57	15 SO2 14.4 12.7 11 15.2 13.7 11.9 12.8 13.7 11.9 12.8 13.4 15.5 14.1 14.1 15.5 14.1 14.1 15.5 15.5 15.	9 -SEF CHP C 6 6.9 7.4 7.9 6 7.4 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16 12 27 16 12 27 30 19 21 24 45 31 20	Bo PM 47 41	39 35
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week 2nd week 3rd week 3rd week 4th week eptember 1 st week	76 QUAL At c PM10 60 78 48 82 66 70 58 50 63 55 60 63 55 60 68 50 68 50 68 50 68 50 68 51 52	13.9 ITY & soal haa SO2 13.5 14.8 15.3 14.1 13.9 12.3 14.1 13.9 12.3 14.2 13.3 14.2 10.9 13.7 10.2 13.2 12.3 14.2 12.3 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.1	7.8 STAC ndling NO2 8 7.2 6.9 7.3 6.5 7.3 6.2 8.8 7.3 6.2 8.8 7.3 6.5 7.3 8 7.5 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.3 7.5 6.8 8 8 8 8 7.5 6.3 7.5 6.3 7.5 6.3 7.5 6.8 8 8 8 8 7.5 6.3 7.5 6.3 7.5 6.8 8 8 8 8 7.5 6.3 7.5 7.8 8 8 8 7.5 7.5 6.3 7.5 7.8 8 8 7.5 7.8 8 8 7.5 7.8 8 8 8 7.5 7.8 8 7.5 7.8 8 8 7.5 7.8 8 7.5 7.8 8 8 7.5 7.8 7.5 7.8 7.5 7.8 7.8 7.5 7.8 7.5 7.8 7.8 7.5 7.8 7.8 7.8 7.5 7.8 7.8 7.5 7.8 7.8 7.5 7.8 7.8 7.5 7.8 7.8 7.5 7.8 7.8 7.5 7.8 7.6 7.5 7.8 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.5 7.6 7.6 7.6 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	22 K EMIS plant PM2.5 19 22 26 40 32 26 40 34 14 26 20 22 10 25 21 14 16 38 30 41 26	70 SION At I PM10 54 63 66 68 66 49 65 40 65 40 34 61 65 50 47 36 42 64 42 64 938 30	14.6 DATA SOVET 12.4 11 13.5 12.5 12.5 12.3 11.5 14.2 13.3 15.2 14.2 13.3 12.9 11.3 12.9 11.3 12.9 11.3 12.9 11.3 12.9 11.5 11.5 11.5 11.5 11.5	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.8 9 9 8.5 7.7 8.3 7.1 6.9 8.5 7.7 8.3 7.1 6.9 8.5 7.7 8.7 7.7 7	17 17 17 18 18 13 18 20 25 29 33 24 20 25 29 33 24 30 13 25 20 13 13 25 20 13 13 13 14 13 13 14 20 25 29 33 24 13 13 13 13 13 14 20 25 29 33 24 13 13 13 13 13 13 13 13 13 13	78 (APRII Near 3 PM10 71 64 50 82 55 59 0 70 65 55 37 67 71 55 55 37 67 71 41 30 78 55 57 49	15 L'2019 so so so 14.4 12.7 11 15.2 13. 12.2 13. 12.2 13. 12.2 13. 14.9 12.8 11.9 12.8 13.4 15.5 14.1 15.2 14.2 14.2 14.2 14.2 14.9 14.2 14.9 14.8 14.8 14.8 14.1 14.1 15.5 14.1 14.1 15.5 14.1 14.1 15.5 14.1 14.1 15.5 14.1 14.1 15.5 14.1 14.5 14.5 14.5 14.1 14.1 14.1 14.1 14.1 14.1 14.1 14.1 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.1 14.5	9 -SEF CHP 6 6 6.9 7.4 7.9 6 7.4 7.9 6 7.1 7 7.8 7.8 7.8 7.8 7.6 9.3 8.2 6.9 6.4 8.3 7.2 6.9 7.1 7.1 7 7 7 7 7 7 7 7 7 7 7 7 7	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16 12 27 30 19 21 24 45 31 20 29	Bo PM 47 41	39 35
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week August 1 st week 2nd week 3rd week 4th week eptember 1 st week	76 QUAL At c PM10 60 78 74 82 66 70 58 60 53 63 55 42 60 63 55 42 60 63 55 42 60 68 71 72 76	13.9 ITY & Scoal has Scoal has State 13.5 14.8 15.3 14.1 13.9 12.7 13 12.3 14.2 13.1 14.2 13.3 14.2 13.7 10.2 13.2 12.7 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.1 11	7.8 STAC ndling 8 7.2 6.9 7.3 6.5 7.3 6.2 8.8 7.3 6.5 7.3 6.2 8.8 7.3 6.5 7.3 7.5 6.7 7.5 6.3 7.5 6.3 7.5 6.3 7.5 6.3 7.5 6.3 7.5 6.3 7.5 6.3 7.5 7.8 8.8 7.9 7.9 7.5 7.8 8.8 7.5 7.5 7.8 8.8 7.5 7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.6 7.5 7.5 7.5 7.5 7.8 8.2 7.6 7.6 7.6 7.5 7.5 7.5 7.6 7.5 7.6 7.5 7.8 8.2 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	22 K EMIS plant PM2.5 19 22 36 40 32 26 40 34 14 26 20 22 10 25 21 14 16 38 30 41 26 34 26 21 21 22 26 20 22 20 22 20 22 20 22 20 22 20 20	70 SION At I PM10 54 63 70 66 49 65 40 65 40 70 34 61 65 50 70 34 61 65 50 47 34 47 47 47 47 50 50 50 50 50 50 50 50 50 50	14.6 DATA SOVET 12.4 11 13 13.5 12.5 14.2 13.3 11.5 14.2 14.2 13.3 12.9 11.3 12.9 11.3 12.8 11.5 11.0 10 9.9	8.4 OF 3 plant NO2 6.8 7.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.8 9 8.5 7.7 8.3 7.1 6.9 8.8 7.7 8.3 7.1 6.9 8.8 7.7 7.7 8.1 7.7 8.2 7.7 8.3 7.7 7.7 8.3 7.7 7.7 8.3 7.7 7.7 8.3 7.7 7.7 8.3 7.7 7.7 8.3 7.7 7.7 8.3 7.7 7.1 6.9 8.8 7.7 7.7 7.7 7.1 7.1 7.7 7.1 7.7 7.1 7.7 7.1 7.7 7.1 7.7 7.1 7.7 7.1 7.1	17 17 10 MW 18wn PM2.5 13 18 31 20 25 29 33 24 30 13 25 20 18 30 13 25 20 18 30 13 125 20 25 29 33 24 13 13 20 25 29 33 24 13 13 20 25 29 33 24 20 25 29 33 24 20 25 29 33 24 20 25 29 33 24 20 25 20 25 29 30 20 25 20 21 20 21 28 13 37 21 28 37 37 37 37 37 37 37 37 37 37	78 (APRII Near 3 PM10 71 64 50 82 55 53 37 67 70 55 53 37 67 71 54 56 41 30 78 50 57 49 57	15 22019 30 MW ro SO2 14.4 12.7 11 15.2 13.7 12.2 13.7 12.2 13.7 12.2 13.7 12.2 13.7 12.2 13.7 12.8 13.4 15.5 14.4 14.4 15.5 14.1 14.4 15.5 14.4 14.4 15.5 14.1 14.5 14.1 14.1 14.5 14.1 14.1 14.5 14.5 14.1 14.5	9 	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16 12 27 30 19 21 24 45 31 20 29 32	Bo PM 47 41	39 35
AMBIENT AIR Month/week July'1st week 2nd week 3rd week 4th week 2nd week 3rd week 3rd week 4th week eptember 1 st week	76 QUAL At c PM10 60 78 48 82 66 70 58 50 63 55 60 63 55 60 68 50 68 50 68 50 68 50 68 51 52	13.9 ITY & soal haa SO2 13.5 14.8 15.3 14.1 13.9 12.3 14.1 13.9 12.3 14.2 13.3 14.2 10.9 13.7 10.2 13.2 12.3 14.2 12.3 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.1	7.8 STAC ndling NO2 8 7.2 6.9 7.3 6.5 7.3 6.2 8.8 7.3 6.2 8.8 7.3 6.5 7.3 8 7.5 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.9 7.9 6.3 7.5 6.8 8 8 8 8 7.5 6.5 6.5 7.5 6.5 7.5 6.5 7.5 6.5 7.5 6.5 7.5 6.5 7.5 6.5 7.5 6.5 7.5 6.5 7.5 6.5 7.5 6.5 7.5 7.5 6.5 7.5 6.3 7.5 7.5 6.8 8 8 8 8 7.5 6.3 7.5 6.8 8 8 8 7.5 6.8 8 7.5 6.8 7.7 7.8 8 8 7.5 6.8 7.7 7.8 8 8 7.5 6.8 7.7 7.8 7.5 6.8 7.7 7.8 7.8 7.5 7.8 7.8 7.8 7.5 7.8 7.8 7.5 7.8 7.8 7.5 7.8 7.5 7.8 7.5 7.8 7.8 7.5 7.8 7.5 7.8 7.6 7.5 7.8 7.6 7.5 7.6 7.5 7.6 7.6 7.6 7.5 7.6 7.6 7.6 7.5 7.6 7.6 7.6 7.5 7.6 7.6 7.6 7.5 7.6 7.6 7.6 7.8 7.8 7.5 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	22 K EMIS plant PM2.5 19 22 26 40 32 26 40 34 14 26 20 22 10 25 21 14 16 38 30 41 26	70 SION At I PM10 54 63 66 68 66 49 65 40 65 40 34 61 65 50 47 36 42 64 42 64 938 30	14.6 DATA SOVET 12.4 11 13.5 12.5 12.5 12.3 11.5 14.2 13.3 15.2 14.2 13.3 12.9 11.3 12.9 11.3 12.9 11.3 12.9 11.3 12.9 11.5 11.5 11.5 11.5 11.5	8.4 OF 3 plant NO2 6.8 7.5 8.1 6.6 7 8.1 6.9 8.8 6.8 9 9 8.5 7.7 8.3 7.1 6.9 8.5 7.7 8.3 7.1 6.9 8.5 7.7 8.7 7.7 7	17 17 17 18 18 13 18 20 25 29 33 24 20 25 29 33 24 30 13 25 20 13 13 25 20 13 13 13 14 13 13 14 20 25 29 33 24 13 13 13 13 13 14 20 25 29 33 24 13 13 13 13 13 13 13 13 13 13	78 (APRII Near 3 PM10 71 64 50 82 55 59 0 70 65 55 37 67 71 55 55 37 67 71 41 30 78 55 57 49	15 L'2019 so so so 14.4 12.7 11 15.2 13. 12.2 13. 12.2 13. 12.2 13. 14.9 12.8 11.9 12.8 13.4 15.5 14.1 14.1 14.1 14.1 14.1 14.1 14.1 14.1 14.1 14.1 14.1 15.2 11.9 12.8 14.4 15.5 14.7 11.9 12.8 14.4 15.5 14.9 14.9 15.2 14.9 15.2 14.9 15.2 14.9 15.2 14.9 15.2 14.9 15.2 14.9 15.8 14.9 15.8 14.9 15.8 14.1 15.8 14.1 15.8 14.1 15.8 14.1 15.8 14.1 15.8 14.1 15.8 14.1 15.8 14.1 14.1 15.8 14.1	9 -SEF CHP 6 6 6.9 7.4 7.9 6 7.4 7.9 6 7.1 7 7.8 7.8 7.8 7.8 7.6 9.3 8.2 6.9 6.4 8.3 7.2 6.9 7.1 7.1 7 7 7 7 7 7 7 7 7 7 7 7 7	24 PTEMBI Control PM2.5 35 20 37 23 36 33 17 21 22 16 12 27 30 19 21 24 45 31 20 29	Bo PM 47 41	19) iiler 6 SO2 39 39 35 42

Period	Expenditure incurred on environmental management & solid waste (fly ash) disposal	Plantation, green belt development	CSR activities undertaken
Apr'19 to Sept'19	Operation – Rs. 7,58,321/- Maintenance – Rs.9,02,699/- Total – Rs.16,61,020/- Solid waste disposal Rs. 3,24,65,457/-	planted during Apr'19 to Sept'19 Apart from this 3500 nos	Free health check up and distribution of medicine at Choudwar Municipal area and peripheral villages. Distribution of pre fabricated desk and bench at Debinagar UP school, Banipada UP school, Mahisalanda UP school and Saraswati Sisu Bidyamandir, Mangarajpur. Training imparted to promote rural sports at different areas. Trainig imparted on SRI technology for paddy cultivation. Campaigned to erradicate vector borne diseases. Organised women health care & child health care programme at different villages. Imparted training to different women SHG on capacity building. Total expenditure = Rs.12,46,219/-

Env expndtr, CSR, Plantation