

Usha Martin Limited

(Usha Alloys & Steels Division)

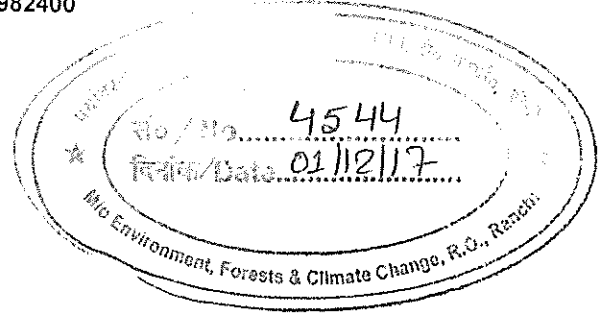
Post Box 147, Jamshedpur – 831 001, India

Works : Phase – V, Adityapur Industrial Area, Gamharía

Dist. Saraikela-Kharsawan, Jharkhand – 832 108, India

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Letter no. – UML/EC-2011/2017/11
27th Nov, 2017



Shri Kanwarjit Singh, IFS (Addl. Charge)
Additional Principal Chief Conservator of Forest (C)
Ministry of Environment, Forest and Climate Change,
Regional Office (ECZ), Eastern-Central Zone,
Bungalow No. A-2, Shyamali Colony,
Ranchi – 834002

Subject: Half yearly environmental clearance compliance report and monitoring report for the period from April 2017 to Sept 2017

Ref: Environment clearance vide letter no. J/11011/611/2010 – IA II (I) dated 25.10.2011

Dear Sir,

This has reference to above captioned subject and cited reference. We are herewith submitting half yearly compliance report along with environmental monitoring report for the period April 2017 to Sept 2017.

This is for your kind information and necessary records please.

Thanking you,

Yours sincerely

For **USHA MARTIN LIMITED**


(V Karthikeyan)

AVP -Environment

Cc:

1. The Zonal Head, CPCB, Kolkata
2. The Member Secretary, JSPCB
3. The Regional Officer, JSPCB

Abhishek
4.12.17

	Half yearly Environment Clearance Compliance Status (From April-2017 to September 2017)	EC Accord No: F. No: J-11011/611/2010-IA-II (I)
		Issue date : 25-10-2011

COMPLIANCE OF STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE

Sl. No	EC Conditions	Compliance Status
A	Specific conditions	
i	Efforts shall be made to mitigate RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all stacks shall be provided.	<p>Several Steps are taken to mitigate RSPM levels in ambient air. Measures taken for control of dust levels in ambient air includes the following –</p> <ul style="list-style-type: none"> • Raw material stock yards are covered with tarpaulin. • Fixed type sprinklers are installed in raw material handling areas. • Mobile sprinklers are provided to reduce fugitive dust from roads. • Source emissions are controlled by installation of ESPs, Bag filters and Multi-cyclones • Broad leaved trees are planted in open areas within the department. <p>Four(4) Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed in different corners of the plant for ambient air quality monitoring.</p> <p>Nine(11) numbers of online gas analyzers for gaseous parameters and Fifteen(17) numbers of online dust monitors have also installed at the stacks for monitoring of emission from the stack.</p>
ii	Stack monitoring facilities for all the major stacks and adequate air pollution control systems to control particulate emissions within the prescribed limits from coke oven shall be provided. Carbon mono-oxide (CO) shall also be monitored along with other parameters and standards notified under the Environment (Protection) Act shall be followed. ESP shall be installed to control the particulate emissions from the pellet plant. The reports shall be submitted to the	<p>Stack monitoring facilities are provided at all major stacks. Total Nine(11) numbers of online gas analyzers for gaseous parameters and Fifteen(17) numbers of online dust monitors have also installed at the stacks for monitoring of emission from the stack.</p> <p>Adequate pollution control devices are installed to control the particulate matter emission from coke oven and pellet plant.</p> <p>PM, SO₂, NO_x and CO in flue gas of Coke Oven is monitored at regular intervals and values are</p>

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	Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.	maintained within the prescribed limits. The monitoring reports are regularly submitted to MoEF Ranchi, CPCB and JSPCB.
iii	Multi stage scrubber shall be installed to control gaseous and dust emissions from the coke oven stack. Measures shall be taken to prevent leakages from coke oven plant.	Coke Oven installed is of 'Non-Recovery Type' and hence dust and gaseous emission from the plant is very negligible. Non-recovery type ovens work on negative pressure and leakages in the system is insignificant.
iv	The prescribed emission standards for coke oven plants, as notified vide notification no. GSR 46 (E) dated 3 rd February 2006 and subsequently amended shall be complied with.	The said rules are for 'Recovery type' Coke Ovens and hence not applicable.
v	In-plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant and coke sorting plant of coke oven plant. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control dust emissions. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.	Adequate pollution control devices are installed at all required locations. Details are enclosed as Annexure-1.
vi	Secondary fugitive emissions shall be controlled within the prescribed limits, regularly monitored and records maintained. Guidelines / code of Practice issued by the CPCB in this regard shall be followed.	Secondary fugitive emissions are monitored regularly and steps are taken to maintain emissions within prescribed limits. Work zone monitoring is done at regular intervals and records maintained. In matters of compliance, the rules and guidelines of statutory bodies are strictly followed.
vii	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall be made to control dust emissions during loading and unloading of the raw material and finished product. Efforts shall also be made to reduce impact of the transport of	Fugitive emissions due to movement of vehicles are controlled through water spraying. Fixed and mobile sprinklers are deployed at strategic locations to maintain fugitive dust levels within limits. Dust extraction system is installed in conveyor belts for control of dust during material transfer. Material carrying vehicles are

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	the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions shall be regularly monitored and records kept.	closely monitored to prevent any overloading. Vehicular exhaust emission checks are done at periodic intervals.
viii	Total requirement of the water for the proposed expansion shall not exceed 3,440 m ³ /day. All the treated wastewater shall be recycled for dust suppression and green belt development. Domestic wastewater shall be treated in septic tank followed by soak pit and used for green belt development. Zero effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.	Water consumed for the project is well within the permitted quantity. Waste water is collected, treated and re-used back in the plant for variety of purposes including dust suppression and green belt development. Domestic waste water is treated through septic tank - soak pit arrangement.
ix	Efforts shall be made to make use of rain water harvesting. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Rainwater harvesting structures are created within the premises to harvest rain water. Open reservoirs within the plant also act as sink for rain water during rainy season the water of which is used in the plant.
x	Waste from the hard coke unit, shall be used as fuel in the captive power plant or sold. The iron ore sludge shall be sold to the bricks manufacturing units. Coal and coke fines shall be recycled and reused in the process. The waste oil shall be properly disposed off as per the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008.	Coke breeze from Coke Oven Plant is 100% re-used internally in Sinter Plant. Waste Oil generated within the plant is disposed of periodically to JSPCB authorized agencies.
xi	As proposed, green belt shall be developed in 33% of the plant area within and around the project site to mitigate the impact of fugitive emissions as per the CPCB guidelines in consultation with local DFO.	Continuous efforts are made to plant more trees within the plant area. Plan is drawn and executed every year during monsoon for plantation of saplings of different species viz. Gulmohar, Karanj, Peltiform, Mohagini, Kadamb, Mango etc. During the period April-2017 to Sept-2017, over 1112 sapling were planted at different locations within the plant premises.
xii	The recommendations made in the Charter	The recommendation of CREP applicable to

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	on Corporate Responsibility for Environment Protection (CREP) for the Coke Oven Plant shall be implemented.	Coke Oven is implemented and reviewed regularly.
xiii	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within 3 months of issue of environmental clearance letter.	Risk & disaster management plan has been prepared & submitted to JSPCB.
xiv	At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner. The action plan shall include major items like school, vocational training etc.	Social welfare activity of the company is executed through its sister concern - 'Kissan Gram Vikas Kendra' (KGVK). KGVK is a NGO involved in community welfare measures such as vocational training & education to locals, livelihood programmes, animal welfare & agroforestry, women empowerment etc. Funds are earmarked after year for CSR spending.
xv	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Required infrastructure for habitation and health were provided to construction labour during the erection and commissioning of the project.
xvi	The company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/procedure to being into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance/violation environmental norms to the Board of Board of Directors of	The company has formulated an 'Environment Policy' and copy of the latest policy has already been submitted. Standard Operating Procedure (SOP)/ Work Instruction (WI) are prepared for all key environment activities. An environment management cell with structured hierarchy and reporting system has been established to execute various environment management functions. Periodic review is done at the level of Unit head to assess the progress on various compliances and environment improvement projects.

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	the company and/or stakeholders or shareholders.	
B	General Conditions:	
i	The project authorities shall strictly adhere to the stipulations made by the Jharkhand Pollution Control Board (JSPCB) and State Govt.	Stipulations of JSPCB are strictly adhered.
ii	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Measures are taken to maintain emissions within permitted norms. The performance of pollution control equipment is constantly evaluated through scheduled O & M practices. Preventive maintenance schedules are drawn for equipment to reduce unforeseen break-downs or failures.
iii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Further expansion or modification in the plant shall be carried out with prior approval of MoEF & CC only.
iv	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 th May, 1993 and standards prescribed from time to time. The state Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	These features are taken care of in Design & Engineering of the project. Efforts are made to maintain emissions within permitted norms.
v	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January 2000. Authorization from JSPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	The provisions of Hazardous Chemicals Rules 1989 and its amendment are strictly followed. Handling and disposal of hazardous waste is also done as per Hazardous and Other Wastes Rules, 2016.
vi	The project authorities must strictly comply	Responsibilities applicable under Hazardous

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	with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008. Authorization from Jharkhand Pollution Control Board must be obtained for collection/treatment/storage/disposal of hazardous wastes.	Wastes (Management, Handling & Transboundary movement) Rules, 2008 and its last amendment in 2016 i.e Hazardous and Other Wastes Rules, 2016 are strictly complied. Hazardous wastes generated in the plant are disposed to authorized recycler as stipulated in law.
vii	The overall noise levels in and around the plant area shall be kept well within the standards 85 dB(A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dB(A) (day time) and 70 dB(A) (night time).	Acoustic hoods, Silencers, Mufflers and enclosures are provided at high noise generation areas for control of noise pollution. Noise level in and around the plant is maintained within the prescribed norms.
viii	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain water harvesting structures are created within the plant for harvesting rain water. Open reservoirs within the plant act serve as catchment pits and the collected water is re-used in the plant.
ix	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Health checkup of workers is done at regular intervals & records are maintained.
x	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Measures proposed in the EIA/EMP of the project are systematically implemented.
xi	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.	A multi-disciplinary team of engineers and environmental scientists is set-up to oversee the environment management function of the plant. An environmental laboratory is also established to conduct various physico-chemical analysis of air and water.
xii	As proposed, Rs. 50 Crores and Rs. 2.5 Crores shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures	Being Complied. The funds provided for EMP are not diverted for any other purpose. At frequent intervals actions taken for improvement of environment is communicated to the state

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	and judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. A time bound implementation schedule shall be submitted to the Ministry and its Regional Office at Bhubaneswar to implement all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	pollution control board.
xiii	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Copy of clearance letter was sent to local NGO namely Krishi Gram Vikas Kendra (KGVK).
xiv	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF, the respective Zonal Office of CPCB and the PCB. The criteria pollutant levels namely; RSPM (PM2.5 and PM10), SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Status of compliance of the EC conditions is being uploaded in the website of the company. The status of the same is periodically updated and updated compliance status is sent to various government bodies including MoEF & CC, CPCB and JSPCB twice in a year. The monitored data of stack emissions and ambient air quality is displayed near the main gate of the company.
xv	The Project Proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to Regional Office of MoEF, the respective Zonal Office of CPCB and JPCB.	Compliance and monitoring reports are sent to statutory bodies once in every six months. Monitoring report is attached as Annexure-2.

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	The Regional Office of this Ministry/CPCB/JSPCB shall monitor the stipulated conditions.	
xvi	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by e-mail.	Environmental Statement for each financial year is submitted to JSPCB before 30 th of September that year. Environment Statement for the financial year 2016 – 2017 was submitted to JSPCB on 29.09.2016.
xvii	The Project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the JSPCB and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office.	The issuance of environmental clearance was advertised in local newspaper - Prabhat Khabar & Avenue Mail dated 01.07.2012.
xviii	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Date of financial closure: 01.02.12. NOC issue date by JSPCB: 18.01.12. Land development job started on: 15.02.12

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List of major Air Pollution Control (APC) Systems installed

Sl. No	Unit	Area	Pollution Control System
1	Sinter Plant	Process	Electrostatic Precipitator
2		Raw Material Handling	Electrostatic Precipitator
3		Flux Crushing	Bag filter
4		Flux screening	Bag filter
5	DRI	DRI#1 Cooler discharge	Bag filter
6		Coal Circuit	Bag filter
7		DRI#4&5 Cooler discharge	Bag filter
8		Product House Bldg.DRI#4&5	Bag filter
9		DRI#3 Cooler discharge	Bag filter
10		DRI#2 Cooler discharge	Bag filter
11		Surge Bin Area.DRI#1,2 &3	Bag filter
12		Product House Bldg.DRI#1,2 &3	Bag filter
13	MBF - I	Ground Hopper	Bag filter
14		Stock House	Bag filter
15		Cast House	Bag filter
16	MBF – II	Stock House	Bag filter
17		Raw Material circuit	Bag filter
18		Cast House	Bag filter
19		BF Gas cleaning	DRY GCP
20	Pellet Plant	Mixing House	Bag filter
21		Proportioning	Bag filter
22		Environmental De-dusting	Bag filter
23		Concentrate Drying De-dusting	Bag filter
24		Pellet Handling De-dusting	Bag filter
25		Process	Electrostatic Precipitator
26	SMS- I & II	FAF & LRF - II	Bag Filter
27		LRF – I & III	Bag filter
28		RMH	Bag filter
29	SMS – III	EAF & LRF – IV	Bag filter
30		LRF – V & RMH	Bag filter
31	CPP	WHRB – I	Electrostatic Precipitator
32		WHRB- II	Electrostatic Precipitator
33		WHRB – III	Electrostatic Precipitator
34		WHRB – IV	Electrostatic Precipitator
35		WHRB – V	Electrostatic Precipitator
36		40 TPH	Electrostatic Precipitator
37		30 MW	Electrostatic Precipitator
38		25 MW	Electrostatic Precipitator

STACK EMISSION MONITORING REPORT

APRIL-2017 to SEPT. - 2017

S/N	Unit / Plant	Location	Month	Report No.	Sampling on	Temp. of Emission (DegC)	Velocity of Gas (m/s)	Quantity of Gas Flow (Nm ³ /hr)	SO ₂ (mg/Nm ³)	NO ₂ (mg/Nm ³)	PM (mg/Nm ³)
1	WHRB - 1 (DRI-1) & 40 TPH	WHRB - 1 (DRI-1) & 40 TPH	Apr-17	MEERL/MAY0024/2016-17	03.04.2017	113	7.00	153506	143.5	126.0	72.9
2			May-17	MEERL/JUNE0005/2017-18	08.05.2017	119	7.25	156554	135.1	124.0	77.2
3			Jun-17	MEERL/JULY0022/2017-18	08.06.2017	130	6.50	136316	120.0	96.0	32.0
4	WHRB - 2 & 3 (DRI-2&3)	WHRB - 2 & 3 (DRI-2&3)	Jul-17	MEERL/AUG0104/2017-18	03.07.2017	132	6.80	141187	127.0	99.0	40.0
5			Aug-17	MEERL/SEP0004/2017-18	22.08.2017	133	6.90	143859	122.0	102.0	43.0
6			Sep-17	MEERL/OCT0024/2017-18	04-09-2017	142	6.20	127073	131.0	115.0	47.0
7	WHRB - 4 & 5 (DRI-4&5)	WHRB - 4 & 5 (DRI-4&5)	Apr-17	MEERL/MAY0025/2016-17	04.04.2017	122	7.85	172672	130.4	119.0	76.8
8			May-17	MEERL/JUNE0006/2017-18	04.05.2017	127	7.49	158502	136.8	122.0	73.7
9			Jun-17	MEERL/JULY0023/2017-18	10.06.2017	106	5.80	130148	115.0	107.0	50.0
10	WHRB - 1 (DRI-1) & 40 TPH	WHRB - 1 (DRI-1) & 40 TPH	Jul-17	MEERL/AUG0105/2017-18	06.07.2017	132	5.80	120565	112.0	110.0	28.0
11			Aug-17	MEERL/SEP0005/2017-18	22.08.2017	114	6.00	131236	109.0	114.0	31.0
12			Sep-17	MEERL/OCT0025/2017-18	04-09-2017	126	6.60	139806	117.0	120.0	53.0
13	WHRB - 2 & 3 (DRI-2&3)	WHRB - 2 & 3 (DRI-2&3)	Apr-17	MEERL/MAY0026/2016-17	13.04.2017	139	7.61	159809	128.9	108.3	69.6
14			May-17	MEERL/JUNE0007/2017-18	02.05.2017	146	7.88	158980	130.7	112.2	72.6
15			Jun-17	MEERL/JULY0024/2017-18	16.06.2017	151	6.80	135393	122.0	97.0	44.0
16	WHRB - 4 & 5 (DRI-4&5)	WHRB - 4 & 5 (DRI-4&5)	Jul-17	MEERL/AUG0106/2017-18	04.07.2017	149	6.70	133499	118.0	92.0	37.0
17			Aug-17	MEERL/SEP0006/2017-18	04.08.2017	148	7.10	142563	123.0	98.0	40.0
18			Sep-17	MEERL/OCT0026/2017-18	05-09-2017	159	6.30	123279	130.0	106.0	49.0
19	25 MW CPP	25 MW CPP	Apr-17	MEERL/MAY0027/2016-17	06.04.2017	110	8.14	227690	112.6	100.7	81.3
20			May-17	MEERL/JUNE0008/2017-18	15.05.2017	117	8.32	228548	118.1	105.0	78.5
21			Jun-17	MEERL/JULY0025/2017-18	21.06.2017	110	6.40	179887	194.0	42.0	31.0
22	30 MW CPP	30 MW CPP	Jul-17	MEERL/AUG0107/2017-18	08.07.2017	119	6.10	165809	189.0	45.0	30.0
23			Aug-17	MEERL/SEP0007/2017-18	19.08.2017	106	6.70	189389	196.0	50.0	34.0
24			Sep-17	MEERL/OCT0027/2017-18	20-09-2017	120	7.00	190002	185.0	56.0	72.0
25	30 MW CPP	30 MW CPP	Apr-17	MEERL/MAY0028/2016-17	07.04.2017	113	8.00	419785	124.9	117.2	77.1
26			May-17	MEERL/JUNE0009/2017-18	15.05.2017	125	8.17	415779	129.3	120.0	72.5
27			Jun-17	MEERL/JULY0026/2017-18	27.06.2017	109	6.30	334946	123.0	136.0	28.0
28	30 MW CPP	30 MW CPP	Jul-17	MEERL/AUG0108/2017-18	18.07.2017	108	6.60	351385	116.0	129.0	47.0
29			Aug-17	S/D							
30			Sep-17	S/D							

31			Apr-17	MEEP/L/MAY0029/2016-17	17.04.2017	164	9.10	107156	48.3	34.5	28.6
32			May-17	MEEP/L/JUNE0010/2017-18	09.05.2017	172	9.30	107398	52.0	37.8	31.1
33	Coke Oven WHRB - 1	Coke Oven WHRB - 1	Jun-17	MEEP/L/JULY0027/2017-18	24.06.2017	120	7.80	101403	47.5	31.8	21.0
34			Jul-17	MEEP/L/AUG0109/2017-18	13.07.2017	143	8.50	104962	50.3	38.6	24.0
35			Aug-17	MEEP/L/SEP0008/2017-18	25.08.2017	131	8.00	101761	55.0	41.5	29.0
36			Sep-17	MEEP/L/OCT0028/2017-18	13-09-2017	127	8.10	104449	61.6	48.3	42.0
37			Apr-17	MEEP/L/MAY0030/2016-17	10.04.2017	152	8.63	104490	51.8	37.4	25.9
38			May-17	MEEP/L/JUNE0011/2017-18	16.05.2017	155	8.59	103139	47.5	34.1	28.8
39	Coke Oven WHRB - 2	Coke Oven WHRB - 2	Jun-17	MEEP/L/JULY0028/2017-18	15.06.2017	149	8.20	100358	42.0	33.5	27.0
40			Jul-17	MEEP/L/AUG0110/2017-18	05.07.2017	152	8.80	106293	38.3	30.7	24.0
41			Aug-17	MEEP/L/SEP0009/2017-18	25.08.2017	143	8.30	102531	41.8	63.1	30.0
42			Sep-17	MEEP/L/OCT0029/2017-18	13-09-2017	146	7.90	96646	49.5	41.0	37.0
43			Apr-17	MEEP/L/MAY0031/2016-17	11.04.2017	247	9.31	37888	19.6	26.5	37.4
44			May-17	MEEP/L/JUNE0012/2017-18	18.05.2017	260	9.51	37758	18.9	24.2	40.0
45	MBF - 1	Stoves	Jun-17	MEEP/L/JULY0029/2017-18	29.06.2017	253	8.50	33996	16.1	22.0	18.0
46			Jul-17	MEEP/L/AUG0111/2017-18	27.07.2017	261	8.70	34316	13.6	19.3	12.0
47			Aug-17	MEEP/L/SEP0010/2017-18	26.08.2017	284	8.40	31914	12.3	20.1	16.0
48			Sep-17	MEEP/L/OCT0030/2017-18	08-09-2017	267	8.20	32291	18.0	29.5	36.0
49			Apr-17	MEEP/L/MAY0032/2016-17	15.04.2017	125	7.45	81745	38.8	31.9	52.2
50			May-17	MEEP/L/JUNE0013/2017-18	19.05.2017	129	7.37	80062	34.4	35.9	56.2
51	MBF - 2	Stoves	Jun-17	MEEP/L/JULY0030/2017-18	23.06.2017	83	3.70	45667	24.0	10.0	11.0
52			Jul-17	MEEP/L/AUG0112/2017-18	06.07.2017	80	3.90	48656	26.1	13.5	15.0
53			Aug-17	MEEP/L/SEP0011/2017-18	28.08.2017	111	5.60	63686	29.5	17.8	21.0
54			Sep-17	MEEP/L/OCT0031/2017-18	14-09-2017	83	4.90	60108	32.8	24.5	40.0
55			Apr-17	MEEP/L/MAY0033/2016-17	13.04.2017	72	4.19	250985	28.3	24.7	70.4
56			May-17	MEEP/L/JUNE0014/2017-18	03.05.2017	79	4.26	249769	26.3	28.9	66.0
57	SMS - 1 & 2	FES of SMS - 1 & 2	Jun-17	MEEP/L/JULY0031/2017-18	09.06.2017	81	4.60	268900	22.1	25.0	29.0
58			Jul-17	MEEP/L/AUG0113/2017-18	07.07.2017	71	4.70	281004	20.1	27.4	30.0
59			Aug-17	MEEP/L/SEP0012/2017-18	27.08.2017	80	4.00	233860	22.9	26.1	33.0
60			Sep-17	MEEP/L/OCT0032/2017-18	08.09.2017	72	4.10	246462	27.7	30.3	48.0
61			Apr-17	MEEP/L/MAY0034/2016-17	21.04.2017	81	5.60	326918	27.6	41.1	62.3
62			May-17	MEEP/L/JUNE0015/2017-18	13.05.2017	85	5.53	319224	24.9	38.5	60.1
63	SMS - 3	FES of SMS - 3	Jun-17	MEEP/L/JULY0032/2017-18	12.06.2017	98	5.30	297113	28.5	30.6	36.0
64			Jul-17	MEEP/L/AUG0114/2017-18	15.07.2017	89	5.80	328650	30.2	32.9	46.0
65			Aug-17	MEEP/L/SEP0013/2017-18	28.08.2017	91	5.20	295227	33.7	38.0	50.3
66			Sep-17	MEEP/L/OCT0033/2017-18	07-09-2017	84	4.90	283070	39.1	46.5	45.0

67			Apr-17	S/D															
68	Pellet Plant	Kiln	May-17	MEEPL/JUNE0016/2017-18	25.05.2017	125	5.80	433672	41.8	39.5	33.0								
69			Jun-17	MEEPL/JULY0033/2017-18	06.06.2017	121	5.90	442840	40.3	33.6	36.0								
70			Jul-17	MEEPL/AUG0115/2017-18	12.07.2017	124	6.10	457670	42.1	36.3	40.0								
71			Aug-17	MEEPL/SEP0014/2017-18	28.08.2017	127	6.40	476142	41.6	37.0	42.0								
72			Sep-17	MEEPL/OCT0034/2017-18	19-09-2017	135	6.70	488687	46.1	41.8	33.0								
73			Apr-17	MEEPL/MAY0035/2016-17	20.04.2017	382	7.52	37911	42.3	35.5	31.6								
74	Blooming Mill	Reheating Furnace	May-17	MEEPL/JUNE0017/2017-18	10.05.2017	390	7.80	38848	48.2	34.1	31.9								
75			Jun-17	MEEPL/JULY0034/2017-18	13.06.2017	417	6.40	30454	44.0	30.6	25.0								
76			Jul-17	MEEPL/AUG0116/2017-18	11.07.2017	397	6.90	33803	46.8	34.6	42.0								
77			Aug-17	MEEPL/SEP0015/2017-18	24.08.2017	322	7.10	39403	50.2	39.7	47.0								
78			Sep-17	MEEPL/OCT0035/2017-18	06-09-2017	269	6.97	42464	58.0	45.2	39.0								
79	Wire Rod Mill	Reheating Furnace	Apr-17	MEEPL/MAY0036/2016-17	24.04.2017	350	8.31	24809	48.9	37.6	33.5								
80			May-17	MEEPL/JUNE0018/2017-18	18.05.2017	344	8.74	26346	45.7	34.2	37.5								
81			Jun-17	MEEPL/JULY0035/2017-18	14.06.2017	283	7.00	23427	41.3	36.2	26.0								
82			Jul-17	MEEPL/AUG0117/2017-18	14.07.2017	281	6.80	22937	37.5	34.7	24.0								
83			Aug-17	MEEPL/SEP0016/2017-18	23.08.2017	240	7.40	26829	41.9	36.3	31.3								
84			Sep-17	MEEPL/OCT0036/2017-18	06-09-2017	276	7.78	26357	49.3	44.8	39.0								
85	Sinter Plant	Process ESP	Apr-17	MEEPL/MAY0037/2016-17	14.04.2017	122	8.24	941744	41.5	53.7	82.2								
86			May-17	MEEPL/JUNE0019/2017-18	19.05.2017	131	8.43	941995	44.1	50.5	78.1								
87			Jun-17	MEEPL/JULY0036/2017-18	22.06.2017	131	7.10	794718	40.7	44.9	43.0								
88			Jul-17	MEEPL/AUG0118/2017-18	10.07.2017	135	7.10	790813	36.9	40.5	31.0								
89			Aug-17	MEEPL/SEP0017/2017-18	21.08.2017	124	7.30	830109	41.6	47.2	38.0								
90			Sep-17	MEEPL/OCT0037/2017-18	15-09-2017	131	6.90	691795	46.3	53.0	72.0								
91	Sinter Plant	Tail ESP	Apr-17	MEEPL/MAY0038/2016-17	14.04.2017	69	7.23	453360	39.8	48.1	67.5								
92			May-17	MEEPL/JUNE0020/2017-18	23.05.2017	75	7.38	454787	42.5	40.0	62.3								
93			Jun-17	MEEPL/JULY0037/2017-18	22.06.2017	55	5.10	330405	40.5	37.0	37.0								
94			Jul-17	MEEPL/AUG0119/2017-18	10.07.2017	73	4.70	288906	39.8	35.4	29.0								
95			Aug-17	MEEPL/SEP0018/2017-18	21.08.2017	61	5.70	365982	42.9	38.1	33.0								
96			Sep-17	MEEPL/OCT0038/2017-18	12-09-2017	73	5.10	316100	38.7	32.5	44.0								

AMBIENT AIR QUALITY MONITORING REPORT
FOR THE MONTH OF APRIL-2017

S/N	Location	Report No.	Sampling on	PM 10 (ug/m ³)	PM2.5 (ug/m ³)	SO2 (ug/m ³)	NO2 (ug/m ³)	NH3 (ug/m ³)	O3 (ug/m ³)	CO (mg/m ³)	Pb (ug/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (ug/m ³)	Benzo (a) Pyrene(ng/m ³)
1	Plant East Side Boundary	MEEPL/MAY0001/2016-17	05.04.2017	75.7	38.9	8.9	13.6	5.8	12.2	0.46	0.04	2.8	<1	<2	<0.40
2		MEEPL/MAY0006/2016-17	12.04.2017	84.2	35.6	9.3	8.7	7.8	11.5	0.38	0.08	3.4	<1	<2	<0.40
3		MEEPL/MAY0011/2016-17	19.04.2017	67.4	40.0	6.9	8.2	5.5	11.7	0.38	0.06	3.6	<1	<2	<0.40
4		MEEPL/MAY0016/2016-17	26.04.2017	92.2	53.1	8.8	9.3	11.4	12.1	0.44	0.08	2.6	<1	<2	<0.40
5	Plant West Side Boundary	MEEPL/MAY0002/2016-17	05.04.2017	88.5	46.4	6.5	8.7	7.5	10.4	0.52	0.06	3.0	<1	<2	<0.40
6		MEEPL/MAY0007/2016-17	12.04.2017	76.8	41.7	8.8	9.4	10.2	12.0	0.47	0.05	3.7	<1	<2	<0.40
7		MEEPL/MAY0012/2016-17	19.04.2017	94.1	50.1	7.6	10.2	8.8	12.0	0.31	0.04	3.1	<1	<2	<0.40
8		MEEPL/MAY0017/2016-17	26.04.2017	83.8	39.2	6.7	8.5	12.5	10.9	0.31	0.06	2.9	<1	<2	<0.40
9	Plant North Side Boundary	MEEPL/MAY0003/2016-17	05.04.2017	89.3	44.6	7.6	9.5	4.9	11.2	0.70	0.03	3.2	<1	<2	<0.40
10		MEEPL/MAY0008/2016-17	12.04.2017	64.5	39.0	7.4	8.0	10.3	11.9	0.37	0.04	2.5	<1	<2	<0.40
11		MEEPL/MAY0013/2016-17	19.04.2017	91.1	48.5	9.9	8.3	11.2	12.3	0.34	0.02	2.8	<1	<2	<0.40
12		MEEPL/MAY0018/2016-17	26.04.2017	62.8	34.5	11.3	9.8	8.6	11.6	0.28	0.05	3.3	<1	<2	<0.40
13	Plant South Side Boundary	MEEPL/MAY0004/2016-17	05.04.2017	71.4	47.2	9.3	10.1	8.6	11.8	0.81	0.05	3.3	<1	<2	<0.40
14		MEEPL/MAY0009/2016-17	12.04.2017	82.6	41.5	6.7	9.2	11.3	12.3	0.39	0.05	2.9	<1	<2	<0.40
15		MEEPL/MAY0014/2016-17	19.04.2017	63.3	34.9	12.4	10.9	8.6	11.8	0.20	0.05	3.0	<1	<2	<0.40
16		MEEPL/MAY0019/2016-17	26.04.2017	85.4	41.7	6.9	10.7	12.9	13.2	0.35	0.02	3.0	<1	<2	<0.40
<i>Limits as per NAAQM</i>				100	60	80	80	400	180	2	1	20	6	5	1

AMBIENT AIR QUALITY MONITORING REPORT
FOR THE MONTH OF MAY-2017

S/N	Location	Report No.	Sampling on	PM 10 (ug/m ³)	PM2.5 (ug/m ³)	SO2 (ug/m ³)	NO2 (ug/m ³)	NH3 (ug/m ³)	O3 (ug/m ³)	CO (mg/m ³)	Pb (ug/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (ug/m ³)	Benzo (a) Pyrene(ng/m ³)
1	Plant East Side Boundary	MEEP/JUNE0024/2016-17	04.05.2017	83.5	41.6	10.4	13.2	7.8	12.5	0.63	0.05	3.1	<1	<2	<0.40
2		MEEP/JUNE0029/2016-17	10.05.2017	58.4	18.2	8.8	5.2	5.4	12.1	0.18	0.06	2.7	<1	<2	<0.40
3		MEEP/JUNE0034/2016-17	18.05.2017	45.6	17.2	11.4	5.2	3.3	11.8	0.21	0.05	2.9	<1	<2	<0.40
4		MEEP/JUNE0039/2016-17	25.05.2017	67.8	30.7	12.3	9.8	5.7	12.7	0.15	0.03	3.4	<1	<2	<0.40
5	Plant West Side Boundary	MEEP/JUNE0025/2016-17	04.05.2017	90.3	45.7	8.5	6.8	5.6	13.0	0.47	0.08	3.9	<1	<2	<0.40
6		MEEP/JUNE0030/2016-17	10.05.2017	39.4	12.4	30.1	6.4	4.7	11.6	0.51	0.04	3.3	<1	<2	<0.40
7		MEEP/JUNE0035/2016-17	18.05.2017	34.6	19.3	25.4	3.9	5.8	12.2	0.79	0.07	3.5	<1	<2	<0.40
8		MEEP/JUNE0040/2016-17	25.05.2017	27.4	15.0	22.4	4.8	4.6	13.0	0.47	0.04	2.9	<1	<2	<0.40
9	Plant North Side Boundary	MEEP/JUNE0026/2016-17	04.05.2017	69.4	37.2	7.7	9.6	6.8	12.8	0.51	0.04	2.8	<1	<2	<0.40
10		MEEP/JUNE0031/2016-17	10.05.2017	36.9	15.2	7.6	12.4	6.0	12.6	0.36	0.03	3.2	<1	<2	<0.40
11		MEEP/JUNE0036/2016-17	18.05.2017	42.1	14.2	12.2	6.1	6.0	12.8	0.53	0.04	3.1	<1	<2	<0.40
12		MEEP/JUNE0041/2016-17	25.05.2017	90.5	26.3	9.3	4.0	6.0	12.5	0.48	0.06	4.0	<1	<2	<0.40
13	Plant South Side Boundary	MEEP/JUNE0027/2016-17	04.05.2017	30.1	10.4	7.9	11.9	8.0	12.2	0.25	0.07	4.0	<1	<2	<0.40
14		MEEP/JUNE0032/2016-17	10.05.2017	28.3	11.5	9.1	10.6	6.5	13.3	0.26	0.05	3.5	<1	<2	<0.40
15		MEEP/JUNE0037/2016-17	18.05.2017	37.2	13.4	7.2	10.5	4.4	11.6	0.36	0.05	3.0	<1	<2	<0.40
16		MEEP/JUNE0042/2016-17	25.05.2017	53.6	18.2	8.8	7.3	5.0	12.3	0.27	0.05	3.2	<1	<2	<0.40
<i>Limits as per NAAQM</i>				100	60	80	80	400	180	2	1	20	6	5	1

AMBIENT AIR QUALITY MONITORING REPORT
FOR THE MONTH OF JUNE-2017

S/N	Location	Report No.	Sampling on	PM 10 (ug/m ³)	PM2.5 (ug/m ³)	SO2 (ug/m ³)	NO2 (ug/m ³)	NH3 (ug/m ³)	O3 (ug/m ³)	CO (mg/m ³)	Pb (ug/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (ug/m ³)	Benzo (a) Pyrene(ng/m ³)
1	Plant East Side Boundary	MEEP/JULY001/2017-18	06.06.2017	69.0	35.6	9.0	11.5	7.0	11.9	0.58	0.03	2.8	<1	<2	<0.40
2		MEEP/JULY006/2017-18	13.06.2017	52.7	26.2	9.7	5.9	5.0	11.5	0.25	0.03	2.5	<1	<2	<0.40
3		MEEP/JULY011/2017-18	20.06.2017	41.9	16.7	10.1	5.8	3.8	11.5	0.19	0.05	2.5	<1	<2	<0.40
4	Plant West Side Boundary	MEEP/JULY016/2017-18	27.06.2017	59.1	25.0	13.8	10.5	6.1	11.9	0.21	0.03	3.1	<1	<2	<0.40
5		MEEP/JULY002/2017-18	06.06.2017	76.9	38.0	7.7	6.1	5.2	11.9	0.42	0.05	3.6	<1	<2	<0.40
6		MEEP/JULY007/2017-18	13.06.2017	42.1	22.7	14.6	6.1	4.1	11.9	0.44	0.02	3.0	<1	<2	<0.40
7	Plant North Side Boundary	MEEP/JULY012/2017-18	20.06.2017	39.6	17.2	13.0	6.8	6.0	11.8	0.65	0.04	3.2	<1	<2	<0.40
8		MEEP/JULY017/2017-18	27.06.2017	32.9	17.4	14.1	6.8	4.9	12.6	0.40	0.02	2.5	<1	<2	<0.40
9		MEEP/JULY003/2017-18	06.06.2017	57.9	31.4	6.3	9.0	6.2	12.1	0.47	0.02	2.2	<1	<2	<0.40
10	Plant South Side Boundary	MEEP/JULY008/2017-18	13.06.2017	32.9	20.3	6.9	10.4	5.7	12.2	0.32	0.03	3.0	<1	<2	<0.40
11		MEEP/JULY013/2017-18	20.06.2017	40.1	20.5	9.2	7.5	6.0	12.1	0.50	0.02	3.0	<1	<2	<0.40
12		MEEP/JULY018/2017-18	27.06.2017	77.0	30.2	10.5	7.9	5.7	12.9	0.53	0.04	3.8	<1	<2	<0.40
13	Limits as per MAAGM	MEEP/JULY004/2017-18	06.06.2017	37.3	19.8	8.0	11.2	7.5	12.5	0.28	0.06	3.5	<1	<2	<0.40
14		MEEP/JULY009/2017-18	13.06.2017	32.7	15.5	7.8	9.5	6.9	12.6	0.30	0.03	3.1	<1	<2	<0.40
15		MEEP/JULY014/2017-18	20.06.2017	32.0	23.6	7.1	8.9	4.7	11.9	0.39	0.03	2.7	<1	<2	<0.40
16		MEEP/JULY019/2017-18	27.06.2017	48.5	22.1	7.2	6.6	5.5	12.9	0.24	0.03	3.0	<1	<2	<0.40
				100	60	80	80	400	180	2	1	20	6	5	1

AMBIENT AIR QUALITY MONITORING REPORT
FOR THE MONTH OF JULY-2017

S/N	Location	Report No.	Sampling on	PM 10 (ug/m ³)	PM2.5 (ug/m ³)	SO2 (ug/m ³)	NO2 (ug/m ³)	NH3 (ug/m ³)	O3 (ug/m ³)	CO (mg/m ³)	Pb (ug/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (ug/m ³)	Benzo (a) Pyrene(ng/m ³)
1	Plant East Side Boundary	MEEP/L/AUG0084/2017-18	05.07.2017	28.0	16.8	7.2	4.5	5.3	9.4	0.16	0.02	1.4	<1	<2	<0.40
2		MEEP/L/AUG0089/2017-18	12.07.2017	17.4	13.0	5.2	3.8	4.7	8.0	0.20	0.03	1.3	<1	<2	<0.40
3		MEEP/L/AUG0094/2017-18	19.07.2017	33.6	15.0	5.9	4.7	6.8	9.2	0.13	0.04	2.6	<1	<2	<0.40
4	Plant West Side Boundary	MEEP/L/AUG0099/2017-18	26.07.2017	9.5	5.6	3.1	1.7	4.2	8.7	0.19	0.02	1.8	<1	<2	<0.40
5		MEEP/L/AUG0085/2017-18	05.07.2017	19.2	12.5	4.9	3.3	4.0	8.6	0.28	0.01	1.2	<1	<2	<0.40
6		MEEP/L/AUG0090/2017-18	12.07.2017	12.9	9.6	3.9	2.9	3.6	8.3	0.19	0.02	1.0	<1	<2	<0.40
7	Plant North Side Boundary	MEEP/L/AUG0095/2017-18	19.07.2017	27.5	19.6	4.2	6.2	3.5	10.0	0.13	0.02	1.1	<1	<2	<0.40
8		MEEP/L/AUG00100/2017-18	26.07.2017	13.6	9.0	2.8	2.0	3.7	8.1	0.26	0.04	2.3	<1	<2	<0.40
9		MEEP/L/AUG0086/2017-18	05.07.2017	31.0	18.4	5.7	2.5	3.7	9.7	0.22	0.04	1.3	<1	<2	<0.40
10	Plant South Side Boundary	MEEP/L/AUG0091/2017-18	12.07.2017	21.0	15.5	4.7	2.3	3.0	8.7	0.21	0.03	1.4	<1	<2	<0.40
11		MEEP/L/AUG0096/2017-18	19.07.2017	18.8	10.9	6.7	7.0	4.5	9.6	0.21	0.03	2.8	<1	<2	<0.40
12		MEEP/L/AUG0101/2017-18	26.07.2017	17.7	11.2	4.3	1.9	4.8	8.0	0.29	0.01	1.5	<1	<2	<0.40
13	Limits as per NAAQM	MEEP/L/AUG0087/2017-18	05.07.2017	38.5	20.6	9.3	6.4	6.8	8.5	0.52	0.03	2.0	<1	<2	<0.40
14		MEEP/L/AUG0092/2017-18	12.07.2017	27.6	18.9	6.8	5.1	4.6	7.9	0.44	0.05	2.1	<1	<2	<0.40
15		MEEP/L/AUG0097/2017-18	19.07.2017	45.1	22.3	7.4	5.2	6.2	8.6	0.29	0.04	3.0	<1	<2	<0.40
16		MEEP/L/AUG0102/2017-18	26.07.2017	24.9	13.8	3.7	3.3	5.2	9.2	0.30	0.03	2.4	<1	<2	<0.40
				100	60	80	80	400	180	2	1	20	6	5	1

AMBIENT AIR QUALITY MONITORING REPORT
FOR THE MONTH OF AUG-2017

S/N	Location	Report No.	Sampling on	PM 10 (ug/m ³)	PM2.5 (ug/m ³)	SO2 (ug/m ³)	NO2 (ug/m ³)	NH3 (ug/m ³)	O3 (ug/m ³)	CO (mg/m ³)	Pb (ug/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (ug/m ³)	Benzo (a) Pyrene(ng/m ³)
1	Plant East Side Boundary	MEEPL/SEP0045/2017-18	04.08.2017	25.8	15.1	6.9	4.2	5.8	10.1	0.15	0.02	1.3	< 1	< 2	< 0.40
2		MEEPL/SEP0089/2017-18	11.08.2017	17.9	11.7	5.7	3.2	4.5	8.8	0.26	0.03	1.8	< 1	< 2	< 0.40
3		MEEPL/SEP0054/2017-18	18.08.2017	38.0	16.9	6.9	4.5	6.2	9.8	0.19	0.03	3.1	< 1	< 2	< 0.40
4		MEEPL/SEP0059/2017-18	25.08.2017	11.0	6.3	4.0	2.2	5.0	8.5	0.24	0.02	2.7	< 1	< 2	< 0.40
5	Plant West Side Boundary	MEEPL/SEP0046/2017-18	04.08.2017	18.0	12.1	4.5	3.0	4.4	8.9	0.25	0.01	1.2	< 1	< 2	< 0.40
6		MEEPL/SEP0050/2017-18	11.08.2017	15.6	10.3	4.2	3.5	4.3	8.5	0.22	0.02	1.7	< 1	< 2	< 0.40
7		MEEPL/SEP0055/2017-18	18.08.2017	30.3	18.0	4.9	6.0	3.9	10.6	0.17	0.02	1.5	< 1	< 2	< 0.40
8		MEEPL/SEP0060/2017-18	25.08.2017	16.1	10.3	2.6	3.9	3.1	8.8	0.25	0.04	2.7	< 1	< 2	< 0.40
9	Plant North Side Boundary	MEEPL/SEP0047/2017-18	04.08.2017	34.0	18.0	5.1	2.2	4.3	10.5	0.24	0.03	1.5	< 1	< 2	< 0.40
10		MEEPL/SEP0051/2017-18	11.08.2017	24.1	13.9	4.9	2.7	3.2	9.3	0.24	0.03	1.2	< 1	< 2	< 0.40
11		MEEPL/SEP0056/2017-18	18.08.2017	23.0	11.9	7.0	9.3	4.1	11.2	0.25	0.03	2.6	< 1	< 2	< 0.40
12		MEEPL/SEP0061/2017-18	25.08.2017	20.2	11.9	4.6	2.0	4.9	10.6	0.37	0.01	1.9	< 1	< 2	< 0.40
13	Plant South Side Boundary	MEEPL/SEP0048/2017-18	04.08.2017	40.1	18.0	9.7	7.0	6.5	8.9	0.58	0.03	2.3	< 1	< 2	< 0.40
14		MEEPL/SEP0052/2017-18	11.08.2017	30.2	17.5	7.2	5.6	4.1	9.0	0.40	0.04	2.5	< 1	< 2	< 0.40
15		MEEPL/SEP0057/2017-18	18.08.2017	41.5	27.9	7.9	6.5	6.9	10.6	0.33	0.03	3.5	< 1	< 2	< 0.40
16		MEEPL/SEP0062/2017-18	25.08.2017	28.0	14.4	3.9	4.0	5.7	9.9	0.38	0.03	2.7	< 1	< 2	< 0.40
<i>Limits as per NAAQM</i>				100	60	80	80	400	180	2	1	20	6	5	1

AMBIENT AIR QUALITY MONITORING REPORT
FOR THE MONTH OF SEPT-2017

S/N	Location	Report No.	Sampling on	PM 10 (ug/m ³)	PM2.5 (ug/m ³)	SO2 (ug/m ³)	NO2 (ug/m ³)	NH3 (ug/m ³)	O3 (ug/m ³)	CO (mg/m ³)	Pb (ug/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (ug/m ³)	Benzo (a) Pyrene(ng/m ³)
1	Plant East Side Boundary	MEEPL/OCT0001/2017-18	05-09-2017	31.1	17.5	6.4	3.5	5.1	12.3	0.18	0.02	1.5	<1	<2	<0.40
2		MEEPL/OCT0006/2017-18	12-09-2017	20.7	10.2	5.0	3.8	5.5	9.2	0.30	0.03	1.5	<1	<2	<0.40
3		MEEPL/OCT0011/2017-18	19-09-2017	40.8	22.0	7.3	5.1	6.0	10.4	0.24	0.03	3.6	<1	<2	<0.40
4	Plant West Side Boundary	MEEPL/OCT0016/2017-18	26-09-2017	18.5	9.2	4.3	2.8	5.0	9.8	0.28	0.02	2.4	<1	<2	<0.40
5		MEEPL/OCT0002/2017-18	05-09-2017	24.5	14.0	6.0	4.8	5.5	8.0	0.21	0.02	1.7	<1	<2	<0.40
6		MEEPL/OCT0007/2017-18	12-09-2017	18.9	12.4	5.3	4.1	4.9	8.0	0.28	0.02	1.5	<1	<2	<0.40
7	Plant North Side Boundary	MEEPL/OCT0012/2017-18	19-09-2017	38.1	20.4	5.3	6.7	4.6	10.1	0.21	0.02	1.9	<1	<2	<0.40
8		MEEPL/OCT0017/2017-18	26-09-2017	24.0	13.7	2.9	3.5	3.9	9.3	0.28	0.04	2.9	<1	<2	<0.40
9		MEEPL/OCT0003/2017-18	05-09-2017	53.0	29.1	5.2	2.9	4.9	11.3	0.24	0.03	1.9	<1	<2	<0.40
10	Plant South Side Boundary	MEEPL/OCT0008/2017-18	12-09-2017	58.0	29.2	4.8	3.3	3.9	10.6	0.36	0.03	1.9	<1	<2	<0.40
11		MEEPL/OCT0013/2017-18	13-09-2017	29.1	16.0	7.5	9.1	4.8	11.7	0.32	0.03	3.0	<1	<2	<0.40
12		MEEPL/OCT0018/2017-18	26-09-2017	48.2	23.4	4.0	3.7	4.3	10.0	0.35	0.02	2.4	<1	<2	<0.40
13	Limits as per NAAQM	MEEPL/OCT0004/2017-18	05-09-2017	47.4	22.0	8.2	6.5	6.1	9.7	0.50	0.02	2.0	<1	<2	<0.40
14		MEEPL/OCT0009/2017-18	12-09-2017	38.5	20.1	6.8	5.0	4.9	11.4	0.37	0.04	2.3	<1	<2	<0.40
15		MEEPL/OCT0014/2017-18	19-09-2017	47.0	25.2	7.5	6.2	7.2	9.7	0.30	0.02	3.3	<1	<2	<0.40
16		MEEPL/OCT0019/2017-18	26-09-2017	33.8	17.0	4.3	4.8	5.2	11.5	0.46	0.03	2.9	<1	<2	<0.40
				100	60	80	80	400	180	2	1	20	6	5	1

NOISE MONITORING REPORT Apr- 2017 to Sept 2017

(Day Time Leg dB(A))

Month	Plant East Side Boundary	Plant West Side Boundary	Plant North Side Boundary	Plant South Side Boundary
Apr-17	67.9	62.5	71.3	64.0
May-17	70.2	64.1	71.9	64.4
Jun-17	68.6	66.3	70.3	64.9
Jul-17	69.3	64.5	72.7	67.4
Aug-17	69.7	65.1	72.0	67.2
Sep-17	67.5	64.9	73.0	67.8

NOISE MONITORING REPORT Apr 2017 to Sept 2017

(Night Time Leg dB(A))

Month	Plant East Side Boundary	Plant West Side Boundary	Plant North Side Boundary	Plant South Side Boundary
Apr-17	60.1	55.7	64.2	59.4
May-17	60.7	58.4	66.5	58.2
Jun-17	62.5	59.1	63.8	57.0
Jul-17	61.7	57.2	65.1	59.8
Aug-17	62.4	59.3	65.8	60.0
Sep-17	60.0	58.1	69.4	62.1

Limit - Day Time = 75 dB(A), Night Time = 70 dB(A)

EFFLUENT ANALYSIS REPORT

Location - ETP Outlet

S/n	Month	Parameters				
		pH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)	Oil & Grease (mg/l)
1	Apr-17	7.60	68	26	7	< 3.0
2	May-17	8.10	79	25	6.3	< 3.0
3	Jun-17	8.20	72	45	6	< 3.0
4	Jul-17	8.00	27	44	5	< 3.0
5	Aug-17	7.90	35	49	7	< 3.0
6	Sep-17	8.30	39	44	8.7	< 3.0