

# MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

**Consent order No :- Formate1.0/ BO/AST/ EIC No MU-4796-13/6th/CAC/ 7113**

**Date-26/08/2013**

To,  
M/s Bharat Petroleum Corporation Ltd  
Refinery, Mahul,  
Mumbai - 74

**Subject: Consent to Operate RED category.**

Ref : 1. Earlier Consent granted vide no.BO/JDPAMS/RO-MU/EIC-MU-3356-11/R/CAC-412 dtd 27.04.2012

2. Minutes of CAC meeting held on 05.07.2013

**Your application CR1302000197**

**Dated:12.02.2013**

**For: Renewal of Consent**

under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent is granted for a period from 01.05.2013 to 31.08.2014
2. The actual capital investment of the industry is Rs.4839.31 Crs. (As per C.A.Certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity in MTD
1.	Liquefied Petroleum Gas, Poly propylene feedstock	1617
2	Benzene, Toluene/Xytol	350
3	Special Naphtha (SBP55/115 Deg °C) Hexane (FGH64/69 Deg °C), Motor Spirit Euro II/Euro III/Euro IV/MTBE/Naphtha	7225
4	Superior Kerosene, Mineral Turpentine Oil, Aviation Turbine Fuel	5217
5	High Speed Diesel 0.05 % wt S, High Speed Diesel 0.035 % wt.S & 0.005 % wt S, Light Diesel Oil	13538
6	HS Furnace Oil, Low Sulphur Heavy Stock, Bitumen, Sulphur	6021
7	Lube Oil Base Stock	680

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	1,46,319 . In case of emergency ,(once through circulation)should not exceed 4,58,186 CMD.	As per Schedule -I	The blowdown from the cooling water shall be discharged into the sea

*[Handwritten Signature]*

				through separate channel
2.	Domestic effluent	235	As per Schedule -I	Industry shall treat the sewage in existing ETP having surplus capacity.

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	High Efficiency Boiler HEB-1	1	As per Schedule -II
2.	High Efficiency Boiler HEB-2	1	As per Schedule -II
3.	High Efficiency Boiler HEB-3	1	As per Schedule -II
4.	CDU B1	1	As per Schedule -II
5.	CDU B2	1	As per Schedule -II
6.	FPU B1	1	As per Schedule -II
7.	Reformer CRU B1	1	As per Schedule -II
8.	Bitumen F1	1	As per Schedule -II
9.	New demountable Flare	1	As per Schedule -II
10.	New Flare	1	As per Schedule -II
11.	Crude Modification Unit ( F01/02)	1	As per Schedule -II
12.	HVU Heater	1	As per Schedule -II
13.	FCCU Charge Heater	1	As per Schedule -II
14.	FCCU CO Boiler	1	As per Schedule -II
15.	FCCU regeneror flue gas without CO boiler	1	As per Schedule -II
16.	Aromatic Naphtha reboiler F10/F102	1	As per Schedule -II
17.	Aromatics hot oil heater F320	1	As per Schedule -II
18.	CCU CO Boiler	1	As per Schedule -II
19.	CCU regeneror Flue Gas without CO boiler	1	As per Schedule -II
20.	CPP HRSG-1	1	As per Schedule -II
21.	CPP HRSG-2	1	As per Schedule -II
22.	CPP HRSG-3	1	As per Schedule -II
23.	Gas Turbine-1 exhaust	1	As per Schedule -II
24.	Gas Turbine-2 exhaust	1	As per Schedule -II
25.	NB2A furnace in CDU	1	As per Schedule -II
26.	CCU charge heater	1	As per Schedule -II
27.	H-801	1	As per Schedule -II
28.	HDS H-101/H102	1	As per Schedule -II
29.	DHDS	1	As per Schedule -II
30.	DHDS H2	1	As per Schedule -II
31.	DHDS SRU incinerator	1	As per Schedule -II
32.	RMP CDU & VDU	1	As per Schedule -II
33.	RMP HCU (1 <sup>st</sup> & 2 <sup>nd</sup> )	1	As per Schedule -II

	stage)		
34	Hydrocracker (HCU) Fractionator	1	As per Schedule -II
35	RMP SRU	1	As per Schedule -II
36	RMP Hydrogen Unit	1	As per Schedule -II
37	Vacuum column feed heater ( LOBS)	1	As per Schedule -II
38	Reactor feed heater ( LOBS)	1	As per Schedule -II
39	Vacuum column feed heater ( LOBS)	1	As per Schedule -II
40	Gas Turbine-3 exhaust	1	As per Schedule -II

6. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sl. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Oily Sludge	4.1	8100	MT/A	Mechanical oil recovery whenever feasible followed by bioremediation	Sale to authorized reprocessors
2	Spent Catalyst	4.2	1308	MT/A	In-house	Sale to authorized reprocessors or should be sent to CHWTSDF

7. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
8. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

For and on behalf of the  
Maharashtra Pollution Control Board

(V.M.Motghare)  
Member Secretary

Received Consent fee of -

Sl. No.	Amount (RS)	DD No.	Date	Drawn On
1	9678620	243923	07/02/2013	SBI Bank
2	3276206	437788	12/08/2013	SBI Bank

Copy to:

1. Regional Officer -Mumbai and Sub-Regional Officer-Mumbai MPCB, III: They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

**Schedule-I**

**Terms & conditions for compliance of Water Pollution Control:**

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 5760 CMD.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board
	<b>I. Compulsory Parameters</b>	<b>Limiting Concentration in mg/l, except for pH</b>
01	pH	6.0 to 8.5
02	Oil & Grease	5.0
03	BOD (3 days 27oC )	15.0
04	COD	125.0
05	Suspended Solids	20.0
06	<b>Phenols</b>	0.35
07	Sulphides	0.5
08	CN	0.20
09	Ammonia as N	15.0
10	TKN	40.0
11	P	3.0
12	Cr (Hexavalent)	0.1
13	Cr (Total)	2.0
14	Pb	0.1
15	Hg	0.01
16	Zn	5.0
17	Ni	1.0
18	Cu	1.0
19	V	0.2
20	Benzene	0.1
21	Benzo(a)-Pyrene	0.2

C ) The treated effluent shall be 100% recycled in the cooling water system. The blowdown from the cooling system shall be discharged into the sea through a separate channel:

Quality of sea water outlet/discharge to sea:

Sr No.	Parameters	Standards prescribed by Board
01	pH	6.0 to 8.5
02	Oil & Grease	20

Concentration limits shall be complied with at the outlet discharging effluent (excluding discharge from sea water cooling systems) to receiving environment (surface water bodies, marine systems or public sewers). In case of reuse of treated effluent directly for irrigation/horticulture purposes (within the premises of refinery) and/or make-up water for cooling systems, the concentration limits shall also be complied at the outlet before taking the effluent for such application. However, any use in the process such as use of sour water in desalter is excluded for the purpose of compliance.

In case of circulating seawater cooling, the blowdown from cooling systems shall be monitored for pH and oil & grease (also hexavalent & total chromium, if chromate

treatment is given to cooling water) and shall conform to the concentration limits for these parameters. In case of reuse of treated effluent as cooling water makeup, all parameters (as applicable for treated effluent) shall be monitored and conform to the prescribed standards.

In case once through cooling with seawater, the oil & grease content in the effluent shall not exceed 1.0mg/l.

- 2) A.] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

- 1) Suspended solids Not to exceed 100 mg/ l
- 2) BOD 3 days 27°C Not to exceed 100 mg/l

- B] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule-I shall be applicable.

The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.

- 3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

- 4) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	153790
2.	Domestic purpose	1400
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	20405
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00

- 5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.

**Schedule-II**

**Terms & conditions for compliance of Air Pollution Control:**

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stacks and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %Wt	SO <sub>2</sub> mg/Nm <sup>3</sup>
1	High Efficiency Boiler HEB-1	Stack	70	Gas: 14.4 LSHS: 56.6	MT/day	Nil 0.5	* please refer Sr. No 3 of Schedule II
2	High Efficiency Boiler HEB-2	Stack	70	Gas: 11.5 LSHS: 40.6	MT/day	Nil 0.5	
3	High Efficiency Boiler HEB-3	Stack	70	Gas: 15.3 LSHS: 52.8	MT/day	Nil 0.5	
4	CDU B1	Stack	75	Gas: 11.2 LSHS: 34.3	MT/day	Nil 0.5	
5	CDU B2	Stack	75	Gas: 10.8 LSHS: 37.8	MT/day	Nil 0.5	
6	FPU B1	Stack	60.96	Gas: 7.8 LSHS: 37.8	MT/day	Nil 0.5	
7	Reformer CRU B1	Stack	60.96	Gas: 47.6 LSHS: 41	MT/day	Nil 0.5	
8	Bitumen F1	Stack	33.53	Gas: 16.9 Oil: 0	MT/day	Nil 0.5	
9	New demountable Flare	Stack	125	----	MT/day		
10	New Flare	Stack	100	Gas: 10	MT/day	Nil	
11	Crude Modification Unit ( F01/02)	Stack	64.6	Gas: 14.8 LSHS: 94.7	MT/day	Nil 0.5	
12	HVU Heater	Stack	67.8	Gas: 21.5 LSHS: 46	MT/day	Nil 0.5	
13	FCCU Charge Heater	Stack	60	Gas: 13.5 Oil: 0	MT/day	Nil 0.5	
14	FCCU CO Boiler	Stack	60	Gas: 19 Coke: 80	MT/day	Nil 0.5	
15	FCCU regenerator	Stack	94-60	Gas: 19 Coke: 80	MT/day	Nil 0.5	

	flue gas without CO					
16	Aromatic Naphtha reboiler F101/F102	Stack	94	Gas: 13.3 LSHS: 13.4	MT/day	Nil 0.5
17	Aromatics hot oil heater F320	Stack	60	Gas: 7.6 LSHS: 14.4	MT/day	Nil 0.5
18	CCU CO Boiler	Stack	60	Gas: 0 Coke: 110	MT/day	Nil 0.2
19	CCU regenerator Flue Gas without CO boiler	Stack	60	Gas: 0 Coke: 110	MT/day	Nil 0.2
20	CPP HRSG-1	Stack	60	128 RLNG = 113+BHAG = 10+FG = 5 BHGO = 12)	MT/day	RLN G, BHA G, FG: Nil BHG O 0.12
21	CPP HRSG-2	Stack	60	120 (RLNG = 106 + BHAG = 10+FG = 4 BHGO = 20)	MT/day	RLN G, BHA G, FG: Nil BHG O 0.12
22	CPP HRSG-3	Stack	60	200 (RLNG = 189 + BHAG = 10+FG = 1)	MT/day	RLN G, BHA G, FG: Nil BHG O 0.12
23	Gas Turbine-1 exhaust	Stack	30	128 RLNG = 113+BHAG = 10+FG = 5 BHGO = 12)	MT/day	RLN G, BHA G, FG: Nil BHG O 0.12
24	Gas Turbine-2 exhaust	Stack	30	120 (RLNG = 106 + BHAG = 10+FG = 4	MT/day	RLN G, BHA G,

				BHGO =20)		FG: Nil BHG O 0.12
25	NB2A furnace in CDU	Stack	60	Gas: 5 Oil: 67	MT/day	Nil 0.5
26	CCU charge heater	Stack	65	Gas: 4.8	MT/day	Nil
27	H-801	Stack	65	Gas: 5.3 Oil: 74.4	MT/day	Nil 0.5
28	HDS H-101/H102	Stack	60	Gas: 7.3	MT/day	Nil
29	DHDS	Stack	60	Gas: 19	MT/day	Nil
30	DHDS H2	Stack	60	LNG 43.8 Naphtha 25.4	MT/day	LNG Nil Naphtha 0.05
31	DHDS SRU incinerator	Stack	60	Fuel Gas 3 Acid Gas 90	MT/day	Nil 85% H2S in fees
32	RMP CDU & VDU	Stack	75	Gas: 37.2 LSHS: 164.8	MT/day	Nil 0.5
33	RMP HCU (1 <sup>st</sup> & 2 <sup>nd</sup> stage)	Stack	60	Gas: 32.9 Oil: 0	MT/day	Nil 0.5
34	Hydrocracker (HCU) Fractionator	Stack	60	Gas: 22.7 Oil: 57	MT/day	Nil 0.5
35	RMP SRU	Stack	80	Fuel Gas 6 Acid Gas 140	MT/day	Nil 85% H2S in fees
36	RMP Hydrogen Unit	Stack	60	LNG+PSA off gas: 320	MT/day	LNG , PSA off gas Nil
37	Vacuum column feed heater ( LOBS)	Stack	65	Gas: 10.3 LSHS: 15.5	MT/day	Nil 0.5
38	Reactor feed heater ( LOBS)	Stack	65	Gas: 4 Oil: 0	MT/day	Nil 0.5
39	Vacuum column feed	Stack	65	Gas: 5 Oil: 0	MT/day	Nil 0.5



	heater (LOBS)						
40	Gas Turbine-3 exhaust	Stack	30	200 (RLNG = 189 + BHAG = 10+FG = 1)	MT/day	LNG PSA off gas, BHA G Nil BHG O 0.12	

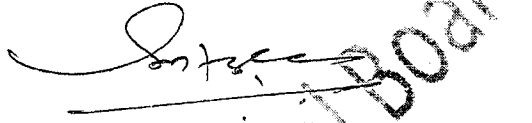
- The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.
- The applicant shall operate and maintain above mentioned air pollution control system; so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	100 mg/Nm <sup>3</sup> .
NO <sub>x</sub>	Not to exceed	450 mg/Nm <sup>3</sup>
CO	Not to exceed	200 mg/Nm <sup>3</sup>
H <sub>2</sub> S in fuel gas	Not to exceed	150 mg/Nm <sup>3</sup>
SO <sub>2</sub>	Not to exceed	1700 mg/Nm <sup>3</sup>

- The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

**Schedule-III**  
**Details of Bank Guarantees**

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	5 lakhs	With 15 days	Towards O & M of Pollution Control Systems and with the condition to treat sewage in the existing ETP having surplus capacity	31.08.2014	31.12.2014



Maharashtra Pollution Control Board

## Schedule-IV

### General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 3) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 4) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 5) The firm shall submit to this office, the 30th day of September every year , the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 6) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 7) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30<sup>th</sup> June of every year.
- 8) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 9) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- 10) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website([www.mpcb.gov.in](http://www.mpcb.gov.in)).
- 11) The industry should comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Wastes (M,H &TM) Rules, 2008 for the preceding year April to March in Form-IV by 30<sup>th</sup> June of every year.
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the

- pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
  - 15) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
  - 16) Conditions for D.G. Set
    - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
    - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
    - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
    - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
    - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use
    - f) D.G. Set shall be operated only in case of power failure.
    - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
    - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
  - 17) The industry should not cause any nuisance in surrounding area.
  - 18) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
  - 19) The applicant shall maintain good housekeeping.
  - 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
  - 21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
  - 22) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
  - 23) The industry should monitor major stack emissions once a quarter and ambient air quality regularly.
  - 24) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises. Fugitive emission survey shall be done twice in a year ( one for monitoring and other for checking after repair of leaks)

- 25) The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 26) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 27) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.
- 28) The applicant shall install online continuous monitoring system for process stack emission analysis & same shall be directly connected to MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office within 3 months period and operate the same regularly.
- 29) The applicant shall install three continuous automatic ambient air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost measure SO<sub>2</sub>, NO<sub>x</sub> and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

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