

# MAHARASHTRA POLLUTION CONTROL BOARD

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Consent order No :- Formate1.0/ BO/AST/EIC No MU-6070-14/22ndCAC/ 12566

Date- 30/12/2014

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

Subject: Renewal of Consent to Operate and amalgamation of two consents under RED category.

- Ref : 1. Earlier Consent granted vide no. Formate1.0/BO/AST/EIC No MU-4882-13/4th CAC/7112 dated 26.08.2013  
2. Earlier Consent granted vide no. Formate1.0/BO/AST/EIC No MU-4882-13/4th CAC/7113 dated 26.08.2013  
3. Minutes of CAC meeting held on 09.12.2014

Your application CO1408000052  
Dated:03.07.2014

For: Renewal of Consent to Operate and amalgamation of two consents under Section 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 01.09.2014 to 31.08.2016.
2. The actual capital investment of the industry is Rs.6582 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 MT/D
1.	LPG, poly propylene feed stock	1764
2	Benzene, Toluene, Xytol	350
3	Special Naphtha(SBP 55/115 deg C), Hexane, (FGH 64/69 Deg C), Motor Spirit (BS III, BS IV), MTBE, Naphtha	8269
4	Superior kerosene, Mineral turpentine oil, Aviation turbine fuel	5217
5	High Speed Diesel, (BS-III, BS IV, Navy Grade), Light Diesel Oil,	15723
6	HS Furnace Oil, Low Sulfur Heavy stock, Bitumen, Sulfur	6140
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	5760 CMD from process	As per Schedule -I	100% recycled as make-up water into cooling water re-circulation system
		146319 as sea water blow down.	As per Schedule -I	The blowdown from the cooling water shall be discharged into the sea through separate channel.
2.	Domestic effluent	235	As per Schedule -I	Discharge to local bodies

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.	FGCU Charge Heater	1	As per Schedule -II
14.	FGCU CO Boiler	1	As per Schedule -II
15.	Aromatic Naphtha reboiler F101/F102	1	As per Schedule -II
16.	Aromatics hot oil heater F320	1	As per Schedule -II
17.	CCU CO Boiler	1	As per Schedule -II
18.	CCU regenerator Flue Gas without CO boiler	1	As per Schedule -II
19.	CPP HRSG-1	1	As per Schedule -II
20.	CPP HRSG-2	1	As per Schedule -II
21.	CPP HRSG-3	1	As per Schedule -II
22.	Gas Turbine-1 exhaust	1	As per Schedule -II
23.	Gas Turbine-2 exhaust	1	As per Schedule -II
24.	NB2A furnace in CDU	1	As per Schedule -II

25	CCU charge heater	1	As per Schedule -II
26	H-801	1	As per Schedule -II
27	HDS H-101/H102	1	As per Schedule -II
28	DHDS	1	As per Schedule -II
29	DHDS H2	1	As per Schedule -II
30	DHDS SRU incinerator	1	As per Schedule -II
31	RMP CDU & VDU	1	As per Schedule -II
32	RMP HCU (1 <sup>st</sup> & 2 <sup>nd</sup> stage)	1	As per Schedule -II
33	Hydrocracker (HCU) Fractionator	1	As per Schedule -II
34	RMP SRU	1	As per Schedule -II
35	RMP Hydrogen Unit	1	As per Schedule -II
36	Vacuum column feed heater ( LOBS)	1	As per Schedule -II
37	Reactor feed heater ( LOBS)	1	As per Schedule -II
38	Vacuum column feed heater ( LOBS)	1	As per Schedule -II
39	Gas Turbine-3 exhaust	1	As per Schedule -II
40	CCR	1	As per Schedule -II
41	CCR (NHT-1) & CCR (NHT-2)	1	As per Schedule -II

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

Sr. 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	1478	MT/A	In-house	Sale to authorized reprocessors

- The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
- Industry shall submit time-bound programme for improving the efficiency of Sulphur Recovery Unit by 31.01.2015 and implement accordingly & submit BG of Rs 5 lakhs for the compliance of the same.
- Industry shall install flowmeter to measure the discharge of effluent, cooling water by 31.03.2015 and submit BG of Rs 5 lakhs for the compliance of the same.

11. STP shall be commissioned by December 2014.

For and on behalf of the  
Maharashtra Pollution Control Board

(Rajeev Kumar Mital, IAS)  
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	26329673	446218	09.06.2014	SBI Bank

Copy to:

1. Regional Officer -Mumbai and Sub-Regional Officer-Mumbai MPCB, 3: 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.

Maharashtra Pollution Control Board

**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
		Limiting Concentration in mg/l, except for pH
01	pH	6.0 to 8.5
02	Oil & Grease	5.0
03	BOD (3 days 27°C)	15.0
04	COD	125.0
05	Suspended Solids	20.0
06	Phenols	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.

Sr No.	Parameters	Standards prescribed by Board
01	pH	6.0 to 8.5
02	Oil & Grease	20.0

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] As per your consent application, you have proposed to install the sewage treatment system with the design capacity of 250 CMD.

B] 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.

C] The treated sewage shall be discharged in Municipal sewer.

3) 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 (sea water)	153790
2.	Domestic purpose	1408
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

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 %	SO <sub>2</sub> Kg/Day
1	High Efficiency Boiler HEB-1	Stack	70	Gas: 14.4 LSHS: 56.6	MT/D	Nil 0.5	Refer Sr. No 3
2	High Efficiency Boiler HEB-2	Stack	70	Gas: 11.5 LSHS: 40.6	MT/D	Nil 0.5	
3	High Efficiency Boiler HEB-3	Stack	70	Gas: 15.3 LSHS: 52.8	MT/D	Nil 0.5	
4	CDU B1	Stack	75	Gas: 11.2 LSHS: 34.3	MT/D	Nil 0.5	
5	CDU B2	Stack	75	Gas: 10.8 LSHS: 37.8	MT/D	Nil 0.5	
6	FPU B1	Stack	60.96	Gas: 7.8 LSHS: 37.8	MT/D	Nil 0.5	
7	Reformer CRU B1	Stack	60.96	Gas: 47.6 LSHS: 41	MT/D	Nil 0.5	
8	Bitumen F1	Stack	33.53	Gas: 16.9 Oil: 0	MT/D	Nil 0.5	
9	New demountable Flare with 5 pipes	Stack	125		MT/D		
10	New Flare	Stack	100	Gas: 10	MT/D	Nil	
11	Crude Modification Unit (F01/F02)	Stack	64.6	Gas: 14.8 LSHS: 94.7	MT/D	Nil 0.5	
12	HVU Heater	Stack	67.8	Gas: 21.5 LSHS: 46	MT/D	Nil 0.5	
13	FCCU Charge Heater	Stack	60	Gas: 13.5 Oil: 0	MT/D	Nil 0.5	
14	FCCU CO Boiler	Stack	60	Gas: 19 Coke: 80	MT/D	Nil 0.5	
15	Aromatic Naphtha reboiler F101/F102	Stack	94	Gas: 13.3 LSHS: 13.4	MT/D	Nil 0.5	

*Put*

16	Aromatics hot oil heater F320	Stack	60	Gas: 7.6 LSHS: 14.4	MT/D	Nil 0.5
17	CCU CO Boiler	Stack	60	Gas: 0 Coke: 110	MT/D	Nil 0.2
18	CCU regenerator Flue Gas without CO boiler	Stack	60	Gas: 0 Coke: 110	MT/D	Nil 0.2
19	CPP HRSG-1	Stack	60	128 RLNG = 113+BHA G = 10+FG = 5 BHGO (=12)	MT/D	RLN G, BHA G, FG: Nil BHGO 0.12
20	CPP HRSG-2	Stack	60	120 (RLNG = 106 + BHAG = 10+FG = 4 BHGO (=20)	MT/D	RLN G, BHA G, FG: Nil BHGO 0.12
21	CPP HRSG-3	Stack	60	200 (RLNG = 189 + BHAG = 10+FG = 1)	MT/D	RLN G, BHA G, FG: Nil BHGO 0.12
22	Gas Turbine-1 exhaust	Stack	30	128 RLNG = 113+BHA G = 10+FG = 5 BHGO (=12)	MT/D	RLN G, BHA G, FG: Nil BHGO 0.12
23	Gas Turbine-2 exhaust	Stack	30	120 (RLNG = 106 + BHAG = 10+FG = 4 BHGO (=20)	MT/D	RLN G, BHA G, FG: Nil BHGO 0.12
24	NB2A furnace in CDU	Stack	60	Gas: 5 Oil: 67	MT/D	Nil 0.5



25	CCU charge heater	Stack	65	Gas: 4.8	MT/D	Nil
26	H-801	Stack	65	Gas: 5.3 Oil: 74.4	MT/D	Nil 0.5
27	HDS H-101/H102	Stack	60	Gas: 7.3	MT/D	Nil
28	DHDS	Stack	60	Gas: 19	MT/D	Nil
29	DHDS H2	Stack	60	LNG 43.8 Naphtha 25.4	MT/D	LNG Nil Naphtha 0.05
30	DHDS SRU incinerator	Stack	60	Fuel Gas 3 Acid Gas 90	MT/D	Nil 85% H2S
31	RMP CDU & VDU	Stack	75	Gas: 37.2 LSHS: 164.8	MT/D	Nil 0.5
32	RMP HCU (1 <sup>st</sup> & 2 <sup>nd</sup> stage)	Stack	60	Gas: 32.9 Oil: 0	MT/D	Nil 0.5
33	Hydrocracker (HCU) Fractionator	Stack	60	Gas: 22.7 Oil: 57	MT/D	Nil 0.5
34	RMP SRU	Stack	80	Fuel Gas 6 Acid Gas 140	MT/D	Nil 85% H2S
35	RMP Hydrogen Unit	Stack	60	LNG+PS A off gas: 320	MT/D	LNG, PSA off gas Nil
36	Vacuum column feed heater ( LOBS)	Stack	65	Gas: 10.3 LSHS: 15.5	MT/D	Nil 0.5
37	Reactor feed heater ( LOBS)	Stack	65	Gas: 4 Oil: 0	MT/D	Nil 0.5
38	Vacuum column feed heater ( LOBS)	Stack	65	Gas: 5 Oil: 0	MT/D	Nil 0.5
39	Gas Turbine-3 exhaust	Stack	30	200 (RLNG = 189 + BHAG = 10+FG = 1)	MT/D	LNG, PSA off gas, BHA G Nil BHG O 0.12
40	CCR (NHT-1) & CCR (NHT-2)	stack	75	LNG/Fuel = 300	MT/D	Nil
41	CCR	Stack	88.5			

2. 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.
3. 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> .
SO <sub>2</sub>	Not to exceed	1700 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	Not to exceed	150 mg/Nm <sup>3</sup>
Nickel and Vanadium (Ni + V)	Not to exceed	5 mg/Nm <sup>3</sup>
Sulphur content in liquid fuel, weight%	Not to exceed	1 %

#### 4. Storage of Volatile Liquids : General Petroleum Products

(1) Storage tanks with capacity between 4 to 75m<sup>3</sup> and total vapour Pressure (TVP) of more than 10 kpa should have Fixed Roof Tank (FRT) with pressure valve vent.

(2) Storage tank with the capacity between 75 to 500 m<sup>3</sup> and total vapour Pressure (TVP) of 10 to 76 kpa should have Internal Floating Root Tank (IFRT) of External Floating Root Tank (EFRT) or Fixed Roof Tank with vapour control or vapour balancing system.

(3) Storage tanks with the capacity of more than 500 m<sup>3</sup> and total vapour Pressure (TVP) of 10 to 76 kpa should have Internal Floating Roof Tank or External Floating Roof Tank or Fixed Roof Tank with vapour control system.

(4) The tanks with the capacity of more than 75 m<sup>3</sup> and total vapour Pressure (TVP) of more than 76 kpa should have Fixed Root Tank with vapour control system.

(5) Requirement for seals in Floating Roof Tanks:

(i) (a) IFRT and EFRT shall be provided with double seals with minimum vapour recovery of 96%.

(b) Primary seal shall be liquid or shoe mounted for EFRT and vapour mounted for IFRT. Maximum seal gap width will be 4 cm and maximum gap area will be 200 cm<sup>2</sup>/m of tank diameter. (c) Secondary seal shall be rim mounted. Maximum seal gap width will be 1.3 cm and maximum gap area will be 20 cm<sup>2</sup>/m of tank diameter. (d) Material of seal and construction shall ensure high performance and durability.

(ii) Fixed Roof Tanks shall have vapour control efficiency of 95% and vapour balancing efficiency of 90%

(iii) Inspection and maintenance of storage tanks shall be carried out under strict control. For the inspection, API RP 575 may be adopted, In-service inspection with regard seal gap should be carried out once in every six months and repair to be

implemented in short time. In future, possibility of on-stream repair of both seals shall be examined.

**5. Solvents for Lube-Base Oil production (Furfural, NMP, MEK, Toluene and MIBK)**

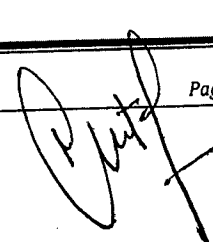
IFRT with double seals and inert gas blanketing with vapour removal efficiency of at least 97% shall be provided.

Emission control for Road tank truck/Rail tank wagon loading		
Loading of Volatile Products	Gasoline and Naphtha:	
	(i) VOC reduction, %	(i) 99.5
	(ii) Emission, gm/m <sup>3</sup>	(ii) 5
	Benzene:	
	(i) VOC reduction, %	(i) 99.99
	(ii) Emission, mg/m <sup>3</sup>	(ii) 20
	Toluene/Xylene:	
	(i) VOC reduction, %	(i) 99.98
	(ii) Emission, mg/m <sup>3</sup>	(ii) 150
<p>Note:</p> <p>(i) It shall be applicable for Gasoline, Naphtha, Benzene, Toluene and Xylene loading.</p> <p>(ii) Road tank Truck shall have Bottom loading and Roll tank wagon shall have Top submerged loading.</p> <p>(iii) Annual leak testing for vapour collection shall be done.</p>		

6. 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.
7. 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	10 lakhs	Submitted	O & M of PCS	31.08.2016	31.12.2016
2	C to R	5 lakhs	Within 15 days from the date of issue of consent.	Industry shall submit time-bound programme for improving the efficiency of Sulphur Recovery and Unit implement accordingly	31.01.2015	30.05.2015
3	C to R	5 lakhs	Within 15 days from the date of issue of consent.	Industry shall install flowmeter to measure the discharge of effluent, cooling water	31.03.2015	31.07.2015



#### 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) Industry shall monitor effluent quantity, stack emissions and ambient air quantity monthly.
- 3) 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.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- 11) 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)).
- 12) 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.
- 13) 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.
- 14) 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.

- 15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 16) 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.
- 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 31<sup>st</sup> 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 official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.
- 27) 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.
- 28) 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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