MAHARASHTRA POLLUTION CONTROL BOARD

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MAHARASHTRA

Kalpataru Point, 3rd & 4th floor, Sion- Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near

Sion Circle, Sion (E),

Mumbai - 400 022

Consent order No:-Formate 1.0 / BO/CAC-Cell/ EIC No24616-15 / 3rd CAC/ 7768

Date-14/07/2015

To,

Fax

M/s. Serum Institute of India Ltd,

Off Soli Poonawalla road,

Plot No 212/2, Pune-Solapur Road,

Hadapsar, Tq. Haveli, Dist. Pune

Subject: Renewal of consent RED category.

Ref : 1. Earlier Consent granted vide no. BO/PAMS/R/EIC NO.PN-16264-12/CAC-814 dated 24/01/2013.

2. Existing BMW Authorization granted vide no MPCB/PSO/BMW/Pune-85 dated 29.01.2014.

3. Your application approved in CAC meeting held on 29.06.2015.

Your application: CR1503000317

Dated: 25.02.2015

For: Renewal of consent and amalgamation with existing valid BMW authorization. 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 01.01.2015 to 30.04.2016.

2. The actual capital investment of the industry is Rs. 1268.69 Crs. (As per C.A. Certificate).

3. The Consent is valid for the manufacture of

Sr. No.	Product Name	Maximum Quantity
1	Bacterial Vaccines	5.6 lac vials per day
2	Viral/hepatitis B Vaccines	5.6 lac vials per day
3	Loan License/Pharma Products	4.0 lac vials per day

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

Sr.	Description	Permitted quantity	Standards to	Disposal
no.		of discharge (CMD)	be achieved	
1.	Trade effluent	1204	As per	60% Recycle in the
			Schedule –I	process and
2.	Domestic	96	As per	remaining shall be
	effluent		Schedule –I	used for gardening
				purpose/ drained
				into local drainage

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	Boiler (8 nos)	8	As per Schedule -II
2	Incinerator	1	As per Schedule –II
3	DG set (17 nos)	8	As per Schedule –II

M/s Serum Institute of India SROPuneI/I/R/L/21137000

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6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Solid Waste Packaging	24 Ton/M	Nil	Sale
	Material			
2	ETP Bio sludge	75 Kg/day	Nil	Used as manure

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

Sr. No.	Type Of Waste	Categor y	Quantity	UOM	Treatment	Disposal
1	Incineration Ash	36.2	40	MT/M		CHWTSDF
2	Chemical Sludge	34.3	5	MT/M	_	CHWTSDF
3	Used/Spent Oil	5.1	5.50	KL/M	- 7	sale to authorized party
4	Date Expired, discarded and off specification drug/ medicines/chemicals.	28.4	500	Kg/M	-10	To CHWTSDF
5	Empty chemical paint containers/glass bottles	33.3	500	contai ners/M	_	To CHWTSDF
6	Lead Acid Battery		200	Nos/M	_	To authorized Party

- 8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- 9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
- 10. The consent is granted by overriding Bio-medical waste authorization no MPCB/PSO/BMW/Pune-85 dated 29.01.2014.

For and on behalf of the Maharashtra Pollution Control Board

> (Dr. P. Anbalagan, IAS) Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On	
1	2768294	131668	14.02.2015	Axis Bank	
2	230900	132405	04.04.2015	Axis Bank	
	Previous author	rization fees			
1	7500	045708	19.07.2013	Axis Bank	

Copy to:

- 1. Regional Officer Pune and Sub-Regional Officer- Pune-I, MPCB, Pune. They are directed to ensure the compliance of the consent conditions. The BG of Rs 2 lakhs towards submission of treatability study shall be returned back as industry has complied the same.
- 2. Chief Accounts Officer, MPCB, Mumbai.
- 3. 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 combined Effluent Treatment Plant (ETP) with the design capacity of 1500 CMD.
 - B] The Applicant shall operate the combined treatment system of effluent treatment plant (ETP) to treat the trade effluent & domestic 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 (If any)
		Limiting Concentration in mg/l, except for pH
01	рН	5.5 to 9.0
02	Oil & Grease	10
03	BOD (3 days 27°C)	100
04	COD	250
05	Suspended Solids	100
06	Total Dissolved Solids	2100
07	Chlorides	600
08	Sulphate	1000
09	Dissolved Phosphate	5
10	Sulphide	2
11	Phenolics	1

- C] The treated effluent shall be 60% recycled in the process and remaining shall be used for gardening/ plantation within own premises or shall be drained into local drainage in case of excess or during monsoon season.
- 2) A] As per your consent application, you have provided the septic tanks.
 - B] The overflow of septic tank shall be mixed along with trade effluent for further treatment
 - C] 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.
- 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.
- 4) 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.

5) 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	473
2.	Domestic purpose	120
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	1026
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	Nil
5	Any other and gardening	6

6) 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 stack (s) and to observe the following fuel pattern-

Sr. No	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Boiler (5T/Hr)	Stack	30.5	LDO	295.5 Kg/hr	1.8	225
2	Boiler (5T/Hr)	Stack	33.5	FO	295.5 Kg/hr	4.5	638
3	Boiler (5T/Hr)	Stack	30.5	FO	315 Kg/hr	4.5	680
4	Boiler (5T/Hr)	Stack	30.5	FO	316 Kg/hr	4.5	682
5	Boiler (5T/Hr)	Stack	30.5	FO	317 Kg/hr	4.5	684
6	Boiler (5T/Hr)	Stack	38.5	FO	318 Kg/hr	4.5	686
7	Boiler (10T/Hr)	Stack	47	FO	600 Kg/hr	4.5	1260
8	Bagasse Briquette Boiler	cyclone dust collector with bag filters provided	50	Briquette	160 MT/day	0.06	600
9	Incinerator (BMW purpose)	Wet scrubber provided	30	HSD	24 Lit/hr	1	11.13
10	DG set (1250 KVA 2 nos)	Stack	common stack of 22.5	HSD	420 lit/hr	1	201.6
11	DG set (380 KVA)	Stack	17.7	HSD	55 lit/hr	1	26.4
12	DG set (1250 KVA 2 nos)	Stack	common stack of 14.5	HSD	420 lit/hr	1	201.6
13	DG set (380 KVA)	Stack	14.5	HSD	55 lit/hr	1	26.4
14	DG set (2050 KVA 2 nos)	Stack	common stack of 31	HSD	750 Lit/hr	1	360
15	DG set (1250 KVA 6 nos)	Stack	common stack of 30	HSD	1260 Lit/hr	1	604
16	DG set (2050 KVA 2 nos)	Stack	common stack of 30	HSD	750 Lit/hr	1	360
17	DG set (380 KVA)	Stack	26	HSD	55 lit/hr	1	26.4

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.

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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	Not to exceed	150 mg/Nm ³ .
matter		

- 4. 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.
- 5. 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	Submissi on Period	Purpose of BG	Complian ce Period	Validity Date
1	C to R	Rs 10 lakh *	Submitted	Operation and maintenance of pollution control system	30.04.2016	30.08.2016
2	C to R	50000	Submitted	To Segregate and Handle BMW as per Rule	30.04.2016	31.07.2016
3	C to R	50000	Submitted	To achieve temperature of Primary and secondary chamber of incinerator	30.04.2016	31.07.2016
4	C to R	25000	Submitted	To conduct and meet sterilization validation test and temperature test for autoclave.	30.04.2016	31.07.2016
5	C to R	75000	Submitted	To Operate and maintain APCD to achieve prescribed stack emission and maintain records	30.04.2016	31.07.2016
6	C to R	50000	Submitted	Operation and maintenance of ETP to achieve prescribed discharged standards	30.04.2016	31.07.2016
7	C to R	25000	Submitted	To Maintain records of BMW and submission of annual Report in Form - II before 31st January	30.04.2016	31.07.2016
8	C to R	25000	Submitted	To Maintain records of BMW material received / delivered to authorized party CBMWTSDF (Transporter only)	30.04.2016	31.07.2016
9	C to R	50000	Submitted	To provide Automatic BMW feeding system	30.04.2016	31.07.2016
10	C to R	25000	Submitted	To provide Graphical Temperature pressure & Time recording system to Autoclave	30.04.2016	31.07.2016

* The existing BG of Rs 10 lakh towards & M of PCS shall be extended for a period upto 30.08.2016.

Schedule-IV

- I) Terms & Conditions for compliance of Biomedical Waste Management
- 1. The "authorized Person" Director-Technical M/s. Serum Institute of India Ltd,Off Soli Poonawalla road,Plot No 212/2,Pune-Solapur Road, Hadapsar, Tq. Haveli, Dist. Pune, shall comply with the provisions of the Environment (Protection) Act, 1986, and the Rules made there under.
- 2. The combined consent is granted for generation, storage, treatment, transportation and disposal of Bio-Medical Waste (BMW) in waste categories and quantities listed here in below:

Sr.	Category	Description	Quantity	Segregation	1/0/
No.		1,000	not to	Color coding	Treatment & Disposal
			exceed		
			(Kg/M)		
1	Cat -2	Animal waste	13000	Yellow	Incineration
2	Cat-3	Microbiology	6000	Yellow	Incineration
		&			100
		Biotechnology			
		Waste			
3	Cat-4	Waste Sharps	1000	Blue / white	Disinfection by chemical
				translucent	treatment) and
					shredding
4	Cat-9	Incineration	As per	Black	CHWTSDF
		waste	actuals		

- 3. (i) BMW shall not be mixed with other wastes or reused or sold in any form.
 - (ii) BMW shall be segregated into containers / bags at the point of generation in accordance with Schedule-II prior to storage, treatment and disposal. The containers shall be labeled according to Schedule III of BMW Rules 1998.
 - (iii) If a container containing BMW is to be transported from the premises where BMW is generated to any waste treatment facility outside the premises, the container shall, apart from the Label prescribed in Schedule III, also carry information prescribed in Schedule IV and shall be transported by authorized Transporter only.
 - (iv) Notwithstanding anything contained in the Motor Vehicles Act, 1988 or Rules there under, BMW shall be transported only in such vehicle as may be authorized for the purpose by the competent authority as specified by the Government.
 - (v) No untreated BMW shall be kept stored beyond a period of 48 hours.
 - (vi) Necessary protective gear for the waste handlers shall be provided by the firm Authority.
 - (vii) You shall ensure proper collection of mercury spillage arising mainly due to breakage of thermometers pressure gauges (Sphygmomanometers) other equipments used in health care facilities (HCFs) as well as its storage in

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accordance with the Hazardous waste (Management & Handling) Rules (presently these Rules has to be read as 'Hazardous Waste (Management & Handling and Trans boundary Movement) Rules, 2008) and returning it to the instrument manufacturers apart from necessary taking steps to ensure that the spilled mercury does not become a part of bio-medical or other solid wastes generated from the HCFs.

- (viii) Authorized person shall obtain prior permission from MPCB for generation & disposal, if Bio-Medical waste quantity of category specified exceed the limits authorized at condition No. 2. Above
- 4. (i) You shall submit an Annual Report to the prescribed authority in Form-II by 31st January every year including information about the categories and quantities of BMW handled during the preceding year.
 - (ii) You shall maintain records related to the generation, collection, reception, storage, transportation, treatment, disposal and/or any form of handling of BMW in accordance with these Rules and any guidelines issued.

(iii) All records shall be subject to inspection and verification by the prescribed authority at any time.

- 5. When any accident occurs at any institution or facility or any other site where BMW is handled or during transportation of such waste, the authorized person shall report the accident in Form III to the prescribed authority forthwith.
- 6. The Occupier will obey all the lawful instructions issued by the Board Officers from time to time.

STANDARDS FOR INCINERATORS:

All incinerators shall meet the following operating and emission standards

A. Operating Standards

- 1. Combustion efficiency (CE) shall be at least 99.00%.
- 2. The Combustion efficiency is computed as follows:

C.E. =
$$\frac{\%\text{CO}_2}{\text{CO}_2}$$
 X 100 $\%\text{CO}_2 + \%$ CO

- 3. The temperature of the primary chamber shall be 800 + 50 deg. C°.
- 4. The secondary chamber gas residence time shall be at least I (one) second at 1050 + 50 °C, with minimum 3% Oxygen in the stack gas.

B. Emission Standards

Sr.No	Parameters	Concentration correction)	mg/Nm ³	at	(12%	CO_2
1	Particulate matter	150				
2	Nitrogen Oxides	450	nenueris:			
3	HCI	50				

- (5) Minimum stack height shall be 30 metres above ground
- (6) Volatile organic compounds in ash shall not be more than 0.01%

Note:

- Suitably designed pollution control devices should be installed/retrofitted with the incinerator to achieve the above emission limits, if necessary.
- Wastes to be incinerated shall not be chemically treated with any chlorinated disinfectants.
- Chlorinated plastics shall not be incinerated.
- Toxic metals in incineration ash shall be limited within the regulatory quantities as defined under the Hazardous Waste (Management and Handling Rules,) 1989.
- Only low sulphur fuel like L.D.0dLS.H.S.1Diesel shall be used as fuel in the incinerator.

STANDARDS FOR WASTE AUTOCLAVING:

The autoclave should be dedicated for the purposes of disinfecting and treating biomedical waste,

- (I) When operating a gravity flow autoclave, medical waste shall be subjected to :
- (i) a temperature of not less than $121~C^{\circ}$ and pressure of 15 pounds per square inch (psi) for an autoclave residence time of not less than 60 minutes; or
- (ii) a temperature of not less than $135~C^{\circ}$ and a pressure of 31~psi for an autoclave residence time of not less than 45~minutes; or
- (iii) a temperature of not less than $149~C^{\circ}$ and a pressure of 52~psi for an autoclave residence time of not less than 30~minutes.
- (II) When operating a vacuum autoclave, medical waste shall be subjected to a minimum of one pre-vacuum pulse to purge the autoclave of all air. The waste shall be subjected to the following:
- (i) a temperature of not less than $121~{\rm C}^{\rm o}$ and pressure of 15 psi per an autoclave residence time of not less than $45~{\rm minutes};$ or
- (ii) a temperature of not less than $135~C^{\circ}$ and a pressure of 31~psi for an autoclave residence time of not less than 30~minutes;
- (III) Medical waste shall not be considered properly treated unless the time, temperature and pressure indicators indicate that the required time, temperature and pressure were reached during the autoclave process. If for any reasons, time temperature or pressure indicator indicates that the required temperature, pressure or residence time was not reached, the entire load of medical waste must be

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autoclaved again until the proper temperature, pressure and residence time were achieved.

(IV) Recording of operational parameters

Each autoclave shall have graphic or computer recording devices which will automatically and continuously monitor and record dates, time of day, load identification number and operating parameters throughout the entire length of the autoclave cycle.

(V) Validation test

Spore testing:

The autoclave should completely and consistently kill the approved biological indicator at the maximum design capacity of each autoclave unit. Biological indicator for autoclave shall be Bacillus stearothermophilus spores using vials or spore Strips; with at least $1X10^4$ spores per millilitre. Under no circumstances will an autoclave have minimum operating parameters less than a residence time of 30 minutes, regardless of temperature and pressure, a temperature less than 121 C or a pressure less than 15 psi.

(VI) Routine Test

A chemical indicator strip/tape the changes colour when a certain temperature is reached can be used to verify that a specific temperature has been achieved. It may be necessary to use more than one strip over the waste package at different location to ensure that the inner content of the package has been adequately autoclaved

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 30th 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).
- 11) 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.
- 12) 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.
- 13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 14) 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.

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15) 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 sitting 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
- 16) The industry should not cause any nuisance in surrounding area.
- 17) 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.
- 18) The applicant shall maintain good housekeeping.
- 19) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 20) 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.
- 21) 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.
- 22) 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.
- 23) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 24) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16, 12009 as amended.

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