

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent No: Format 1.0/ BO/CAC-Cell/EIC No:-PN-19799-13/23rd CAC/CAC-3925
Date-28/09/2014

To,
M/S. JOHN DEERE INDIA PRIVATE LTD.
GAT NO. 166,167, & 271 TO 291,
PUNE NAGAR ROAD, AT POST SANASWADI,
TAL.- SHIRUR, DIST PUNE- 412 208

Subject: Renewal of Consent with enhancement in production by capacity utilization under RED category.

Ref : 1. Earlier Consent granted vide no.BO/JD(APC)/EIC No. PN-12319
-11/O/CC-CAC -781 dated 18.01.2013 Valid up to 31/12/2013.
2. Minutes of CAC meeting held on 15.04.2014

Your application:CR1311000136
Dated: 01/11/2013.

For: Renewal of Consent with enhancement in production by capacity utilization 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:

- The consent is granted for a period from 01.01.2014 to 30.09.2016
- The actual capital investment of the industry is Rs.541.55 Crs. (As per C. A. Certificate submitted by the industry)
- The Consent is valid for the manufacture of:-

Sr. No.	Product Name	Maximum Quantity	UOM
1	Agricultural Tractors	75000	No/Year
2	Number of Aggregates	150000	No/Year
3	Painting of Tractor Parts	3600	Sq Mtr/Day
4	Testing of tractors and its components	--	--

- 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	312 M3 / Day	As per Schedule -I	e.g. land / Recycle
2.	Domestic effluent	228 M3 / Day	As per Schedule -I	e.g. land / Recycle

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.	DG set 6 Nos.	5	As per Schedule -II
2.	Paint Booth	12	As per Schedule -II
3.	Drying Oven	20	As per Schedule -II
4.	Washing/pretreatment/coolers/Flash off	43	As per Schedule -II
5.	Boiler (Hot water generator)	4	As per Schedule -II
6.	Fire Hydrant pumps	2	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	C.I. Boring (Machining Chips)	1254 MT/Month	Nil	Sale to authorized dealer
2	Wooden Scrap			Sale to authorized dealer
3	Waste Paper garbage/empty carton boxes			Sale to authorized dealer
4	Rejected Aluminum casting scrap			Sale to authorized dealer
5	Process Scrap (M.S.)			Sale to authorized dealer
6	Process Scrap (Plastic)			Sale to authorized dealer
7	MISC Scrap			Sale to authorized dealer
8	Air Filter Scrap (ACU)			Sale to authorized dealer
9	G.I.Ducting/G.I. Scrap			Sale to authorized dealer
10	Rejected Cast Iron Scrap			Sale to authorized dealer

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

Sr. No.	Type Of Waste	Catego y	Quanti y	UOM	Treatment In- house	Disposal
1	Used/Spent Oil	5.1	920	Kg/Day	NA	To Authorized Reprocessor/ CHWTSDF
2	Waste/residue containing oil (Waste oil/skimmed oil/coolant oil)	5.2	3146	Kg/Day	NA	To Authorized Reprocessor/ CHWTSDF
3	Oil soaked cotton waste & miscellaneous item's	5.2	870	Kg/Day	NA	To Authorized Reprocessor/ CHWTSDF
4	Phosphate sludge	12.5	160	Kg/Day	NA	To CHWTSDF

5	Contaminated Solvents (Spent thinner)	20.1	770	Kg/Day	NA	To Authorized Reprocessor/ CHWTSDF
6	Waste residues & paint sludge	21.1	2700	Kg/Day	NA	To CHWTSDF/ Authorized co-processor
7	Discarded containers /barrels/liners	33.3	570	No's/Day	NA	To Authorized Reprocessor/ CHWTSDF
8	Toxic metal-containing residue from water purification	34.2	240	Kg/Day	NA	To Authorized Reprocessor/ CHWTSDF
9	Chemical sludge from waste water treatment plant	34.3	1200	Kg/Day	NA	To CHWTSDF
10	Used scrap batteries	---	8	No's/Day	NA	To Authorized Reprocessor
11	E-waste	---	50	Kg/Day	NA	To Authorized Reprocessor

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. Industry shall submit affidavit that the operational area is more than 2.0 kms from average HFL of Vel River
10. This is issued as per the distance certificate issued by Executive Engineer, Irrigation Dept., dated 15.01.2014 that river Vel distance is 2.01 Km.
11. 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

(Rajeev Kumar Mital, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	Rs 32,99,660/-	410561	26.10.2013	SBI

The balance fees Rs. 270775, with the Board will be considered at the time of next renewal of consent.

Copy to:

1. Regional Officer -Pune and Sub-Regional Officer- Pune 2, MPCB - Pune 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 350 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 (If any)
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
01	pH	6.0-8.5
02	Oil & Grease	10
03	BOD (3 days 27oC)	30
04	Total Dissolved Solids	2100
06	Phosphate(as P)	5.0
07	Suspended Solids	100
08	COD	250
09	Chloride	600

C) The treated effluent shall be disposed on land of 33 acres for gardening/irrigation - 312CMD

2) A.] As per your consent application, you have provided the sewage treatment system with the design capacity of 300 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 27oC. | Not to exceed | 100 | mg/l. |

C] The treated sewage shall be disposed on land of 33 acres for gardening/irrigation- 288 CMD.

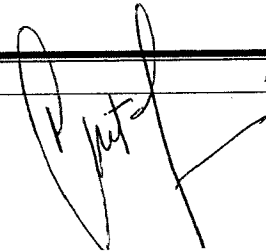
3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall 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	203
2.	Domestic purpose	306.5
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	479.5
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	NA
5.	Others (Agriculture)	288

- 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	S %	SO ₂ Kg/Day
1	Hot Water Generator	Stack Attached	29	LPG	25 Kg/hr	--	--
2	D.G.Set 500 KVA	Stack Attached	20	Diesel	53 Lit/ hrs	1%	16.8
3	D.G.Set 2 Nos. 1500 KVA	Stack Attached	23	Diesel	312 Lit/ hrs	1%	150
4	PPS Paint booth -2	Water scrubber & stack provided	20	NA	.....	--	--
5	D.G.Set 1800 KVA	Stack attached	30	Diesel	83 Lit/ hrs	1%	39.84
6	CPS Primer oven -02 doors	Water scrubber & stack provided	20	NA	.....	--	--
7	Component washing Machine-1	Fume extractor & stack provided	20	NA	.....	--	--
8	Paint Mix Room	Stack provided	20	NA	.....	--	--
9	Component washing Machine-2	Fume extractor & stack provided	20	NA	.....	--	--
10	Component washing Machine-3	Fume extractor & stack provided	20	NA	.....	--	--
11	Component washing Machine-4	Fume extractor & stack provided	20	NA	.....	--	--
12	Cylinder liner washing Machine	Fume extractor & stack provided	20	NA	.....	--	--
13	Component washing Machine-5	Fume extractor & stack provided	20	NA	.....	--	--
14	CPS Paint Booth -1	Water scrubber & stack provided	20	NA	.....	--	--
15	CPS Paint Booth -4TC	Water scrubber & stack provided	20	NA	.....	--	--
16	Engine Exhaust	Stack attached	20	Diesel	1000 lit/hr.	1%	480
17	Component Washing	Fume extractor & stack	20	NA	.....	--	--

	Machine – Near Column E-11	provided					
18	Component Washing Machine – Near Column E-15	Fume extractor & stack provided	20	NA	.....	--	--
19	Diesel Engine Pump Sprinkler	Stack attached	20	Diesel	50 lit/Hr.	1%	24
20	Diesel engine pump Hydrant	Stack attached	20	Diesel	50 lit/Hr.		21%4
21	CPS Dry Off oven	Stack attached	20	NA	.....	--	--
22	CPS Primer Cooler	Fume extractor & stack provided	20	NA	.....		--
23	Cylinder head intermediate washing machine	Stack attached	20	NA	.....	--	--
24	PV&V Lab Boiler	Stack attached	20	Diesel	500 lit./hr.	1%	240
25	Attila Paint Booth – 1(oven)	Water scrubber & stack provided	20	NA	.....	--	--
26	Attila Paint Booth – 2 (Blower FOZ)	Water scrubber & stack provided	20	NA	.....	--	--
27	Attila Paint Booth – 1 (Booth Blower - 1)	Water scrubber & stack provided	20	NA	.....	--	--
28	CPS – Top coat oven	Stack attached	20	LPG	42 Kg/hr	--	--
29	CPS – Top coat oven-2 Doors	Stack attached	20	LPG		--	--
30	Attila Paint Booth – 1 (Booth Blower - 2)	Water scrubber & stack provided	20	NA	.....	--	--
31	PV&V Lab Tractor Engine	Stack attached	30.5	Diesel	1000 lit./hr.	1%	480
32	CPS Pretreatment -1	Stack attached	20	NA	.....	--	--
33	PV&V Lab Hot water generation exhaust	Stack attached	14	Diesel	500 lit./hr	1%	240
34	PPS dry off oven	Stack attached	20	LPG	2 Kg/hr	--	--
35	PPS Primer Flash off	Stack attached	20	NA	--	--
36	CPS Pretreatment -2	Stack attached	20	NA	--	--

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37	CPS Dry off oven 1 door	Stack attached	20	LPG	30 Kg/hr	--	--
38	CPS Primer oven	Stack attached	20	LPG		--	--
39	CPS Dry off oven 2 door	Stack attached	20	LPG		--	--
40	Sanding Equipment	Dust collector & Stack attached	20	NA	.....	--	--
41	E-coat tank exhaust	Stack attached	20	NA	.....	--	--
42	Pretreatment stage-1	Stack attached	20	NA	.....	--	--
43	PPS Pretreatment-1	Stack attached	20	NA	.....	--	--
44	Pretreatment stage -2	Stack attached	20	NA	.....	--	--
45	Cylinder head final washing machine	Stack attached	20	NA	.....	--	--
46	Pretreatment stage -3	Stack attached	20	NA	.....	--	--
47	E-coat oven exhaust	Stack attached	20	LPG	17.5 Kg/hr	--	--
48	PPS Top coat flash off	Stack attached	20	NA	.....	--	--
49	E-coat oven exhaust	Stack attached	20	LPG	17.5 Kg/hr	--	--
50	E-coat oven cooler	Stack attached	20	NA	.....	--	--
51	Powder coating oven exhaust	Stack attached	9	LPG	20 Kg/hr	--	--
52	Engine Test Cell	Stack attached	21.1	Diesel	1000 lit./hr.	1%	480
53	Powder Coating oven hood exhaust	Stack attached	9	LPG	19 Kg/hr	--	--
54	CPS Printer Flash Off	Stack attached	20	NA	.....	--	--
55	Powder coating oven cooler	Stack attached	9	LPG	6 Kg/hr	--	--
56	CPS Paint Booth-3	Water scrubber & stack provided	20	NA	.....	--	--
57	Tag o rag	Stack attached	9	NA	.....	--	--
58	PPS Pretreatment-2	Stack attached	20	NA	.....	--	--
59	ED Sanding Exhaust	Dust collector & Stack attached	20	NA	.....	--	--
60	Pretreatment Stage-1 (Degreasing)	Stack attached	18	NA	.....	--	--
61	CPS Dry off cooler	Stack attached	20	NA	.....	--	--

62	Pretreatment stage -1 (Phosphating)	Stack attached	18	NA	.....	--	--
63	Dry off oven	Stack attached	18	LPG	6 Kg/hr	--	--
64	General washing machine	Fume extractor & stack provided	20	NA	.....	--	--
65	Dry off oven cooler	Stack attached	18	NA	.....	--	--
66	Primer booth	Water scrubber & stack provided	18	NA	.....	--	--
67	Cylinder block intermediate washing machine	Stack attached	20	NA	.....	--	--
68	Primer flash off	Stack attached	18	NA	.....	--	--
69	Top coat booth	Water scrubber & stack provided	18	NA	.....	--	--
70	CPS Top coat Flash off	Stack attached	20	NA	.....	--	--
71	Top coat flash off	Stack attached	20	NA	.....	--	--
72	PPS Primer oven	Stack attached	20	NA	.....	--	--
73	Top coat oven	Stack attached	20	LPG	35 Kg/hr	--	--
74	CPS Pain booth -2 TC	Water scrubber & stack provided	20	NA	.....	--	--
75	Hot water Generator	Stack attached	20	LPG	35 Kg/hr	--	--
76	CPS Primer oven-01 door	Stack attached	20	LPG	35 Kg/hr	--	--
77	Zig Cleaning Tank	Stack attached	20	NA	.....	--	--
78	CPS - Top coat oven -1 doors	Stack attached	20	NA	.....	--	--
79	DG Set 160 KVA	Stack attached	6	Diesel	9 Lit/ hrs	1%	4.32
80	DG Set 320 KVA	Stack attached	6	Diesel	30 Lit/ hrs	1%	14.4
81	Powder coating oven preheat zone	Stack attached	9	LPG	35 Kg/hr.	--	--
82	CPS Top coat cooler	Stack attached	20	NA	.....	--	--
83	PPS - Top coat cooler	Stack attached	20	NA	.....	--	--
84	PPS Paint booth -1	Water scrubber & stack provided	20	NA	.....	--	--

85	Connecting rod washing machine	Fume extractor & stack provided	20	NA	.....	--	--
86	Cylinder block final washing machine	Fume extractor & stack provided	20	NA	.....	--	--

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. (Concern section shall mention specific control equipments)

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:

SPM/TPM	Not to exceed	150 mg/Nm ³ .
Acid Mist	Not to exceed	35 mg/Nm ³

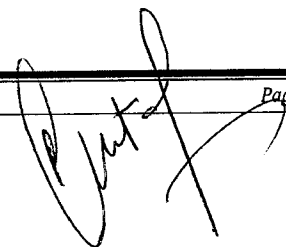
4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.

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 R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C To O (existing to be extended)	5 lakh	15 days	Operation & maintenance of Pollution Control System.	30.09.2016	31.01.2017

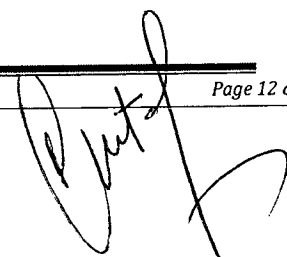
Maharashtra Pollution Control Board



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) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker if applicable.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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
- 9) /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.
- 10) 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 Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 11) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 12) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 13) 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).
- 14) 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.
- 15) 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.
- 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.



- 17) 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.
- 18) 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
- 19) The industry should not cause any nuisance in surrounding area.
- 20) 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.
- 21) The applicant shall maintain good housekeeping.
- 22) 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.
- 23) 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.
- 24) 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.
- 25) 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.
- 26) 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).
- 27) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 28) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.

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