MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Red/L.S.I

Date:09/10/2012

Consent No: BO/JD-PAMS/EIC-No. TN-3428-12/R/CC/MPCB/2012/10/0144

Consent to Operate 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 / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Trans boundary Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

.....

CONSENT is hereby granted to

M/S. Aarti Industries Ltd
E-50, MIDC Industrial Area, Tal. Palghar,
Dist. Thane.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. **The Consent to Operate is granted for a period up to: 30/11/2015.**

2. **The Consent is valid for the manufacture of –**

Sr. No.	Product Name	Maximum Quantity (MT/M)
1	Quinapril Hydrochloride	1.00
2	Bambuterol Hydrochloride	0.05
3	Venlafaxine Hydrochloride	4.00
4	Ramipril	1.50
5	Capecitabine	0.25
6	Benazepril Hydrochloride	0.50
7	Perindopril Erbumine	0.30
8	Budesonide	0.10
9	Bicalutamide	0.30
10	Fluticasone Propionate	0.05
11	Gemcitabine Hydrochloride	0.10
12	Mometasone Furoate	0.15
13	Triamcinolone Acetonide	0.18
14	Ifosmide	0.10
15	Irinotecan Hydrochloride Trihydrate	0.01
16	Mercaptopurine	0.20
17	Mesna	0.10

18	Ranolazine	0.50
19	Lacidipine	0.10
20	R-Salbutamol Sulphate	0.05
21	Levalbuteral Hydrochloride	0.05
22	Salmeterol Xinafoate	0.01
23	Ipratropium Bromide	0.05
24	Quetiapine Fumarate	1.20
25	Oxcarbamazepine	0.10
26	Adapalene	0.05
27	Bupropion Hydrochloride	0.75
28	Temozolomide	0.02
29	Aminophylline Hydrate	0.50
30	Azathioprine	0.50
31	Benazapril Hydrochloride polymorph B.	0.23
32	Ciclesonide	0.01
33	Cyclophosphamide	0.20
34	Diflunisal	0.23
35	Loteprednol Etabonate	0.05
36	Mometasone Furoate Monohydrate	0.01
37	Perindopril Arginine	0.10
38	Other Bulk Drugs	0.50
	Total:-	**14.10 MT/M**

3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from the factory shall not exceed **16 M³.**

(ii) The daily quantity of sewage effluent from the factory shall not exceed **11 M³.**

(iii) **Trade Effluent :**

Treatment: The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

1	pH	Between	5.5 to 9.0
2	BOD 3 days 27 Deg. C.	Not to exceed	100 mg/l
3	Oil & Grease	Not to exceed	10 mg/l
4	Suspended Solids	Not to exceed	100 mg/l.
5	COD	Not to exceed	250g/l.
6	Total Dissolved Solids	Not to exceed	2100 mg/l.
7	Sulphates	Not to exceed	1000 mg/l.
8	Chlorides	Not to exceed	600 mg/l.
9	TAN	Not to exceed	50 mg/l

(iv) **Trade Effluent Disposal:** High TDS effluent should be burnt in the existing incinerator equipped with wet scrubber. Low TDS effluent should be treated in the effluent Treatment plant. The treated industrial effluent after conforming to the prescribed standards should be reused/recycled to the maximum extent, and remaining should be connected to sewerage system provided by MIDC for treatment at CETP for further treatment.

(v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

(1)	Suspended Solids	Not to exceed	100	mg/l.
(2)	BOD 3 days 27o C.	Not to exceed	100	mg/l.

(vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

(vii) Non-Hazardous Solid Wastes:

Sr. No.	Type Waste	Quantity	UOM	Treatment	Disposal
----	--	NIL	-	-	---

(viii)**Other Conditions:** Industry should monitor effluent quality regularly.

4. **The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under**

The daily water consumption for the following categories is as under:

(i) Domestic purpose	...	11.0 CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	20.0 CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	0.00 CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed	...	71.0CMD
Gardening	....	2.0 CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

5. **CONDITIONS UNDER AIR ACT :**

(i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

a. **Control Equipment:**

1.Industry shall provide scrubber and dust collector of adequate capacity to control the emissions.

2. Wet scrubber of sufficient capacity should be provided to incinerator.

b. **Standards for Emissions of Air Pollutants :**

(i)	SPM	Not to exceed	150.0 mg/Nm^3
(ii)	SO2	Not to exceed	123 Kg/Day.
(iii)	SO2 from process	Not to exceed	50 ppm
(iv)	Acid mist	Not to exceed	35 mg/Nm^3

c.. 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. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
d. 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.
e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
f. 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
g. D.G. Set shall be operated only in case of power failure
h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set

(i) **The applicant shall observe the following fuel pattern:-**

Sr. No.	Type Of Fuel	Quantity	UOM
1	FO	1365	Ltr/day
2	HSD	85	Ltr/day

(ii) **The applicant shall erect the chimney(s) of the following specifications:-**

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler-1	30
2	Incinerator	30
3	DG Set – 600 KVA- 2 Nos.	09 each, above the roof.

(iii) 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.

(iv) 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.

(vi) **Other Conditions:**

1) The industry should not cause any nuisance in surrounding area.
2) The industry should monitor stack emissions and ambient air quality Regularly.

6. Standards for incinerator :-

Applicant should operate Two-Stage existing incinerator so as to comply the following standards and conditions

[A] Emission limit of incineration while operating properly at 100% rated capacity should have an emission limit form the discharge stack to atmosphere of less than or equal to

Parameter	Emission limit (mg/Nm3)
Particulates	50
HCI	50
SO_2	200
CO	100
Total Organic Carbon	20
HF	4
NOx	400

All values corrected to 10% oxygen on dry basis.

B] Hydrocarbons : 10 ppm over an hourly rolling average dry basis measured as propane.

C] opacity : While operating properly at 100% rated capacity, the system should be have a visible emission rate of less than or equal to 10% except for condensed water vapor, form the discharge stack to atmosphere (one hour rolling average).

D] Dioxin /furans : while operating properly at 100% rated capacity; the system dhould be am emission of dioxins and furans of less than of equal to 0.1ng TEQ/Nm3 corrected to 10% oxygen. Sampling period should be minimum 6 hours and maximum 8 hours. Analysis of dioxin and furans as well as reference measurement methods to calibrate automated measurement systems should be carried out as given by CEN - standards are not available, ISO standards, National or International Standards which will ensure the provision of data of an equivalent scientific quality should apply.

E] Metal :While operating properly at rated capacity, the system should have an emission rate from the discharge of stack to atmosphere less than or equal to :

METAL	MG/Nm3
Cd + Th (and its compounds)	0.05
Hg (and its compounds)	0.05
Sb+ As+ Pb+Cr+Co+Cu+Mn+Ni + V (and their compounds)	0.5

All values corrected to 10 % oxygen on a dry volume basis.

F] Operating standards

1. Combustion efficiency (CE) should be at least 99.9% and should be computed as follows:
   CE = % CO2/[CO2 + % CO] x 100
2. Temperature of the primary chamber should be at least 850^0 c
3. Secondary chamber gas residence time should be at least 2 (two) second at 1000^{0}c, will minimum 3 % oxygen in the stack gas.
4. Destruction and Removal efficiency (DRE) for each principal organic hazardous constituent (POHC) in the waste lead should be at least 99.99%.
5. DRE for hazardous waste containing PCBs, PCT and other chlorinated compounds should be 99.9999%

G] Air pollution control devices : The emission control system should be installed for cleaning and removal of air pollutants. The system should comprise of following equipments. Singly or in combination with design efficiencies to meet the emission norms :

i. Waste heat boiler/heat exchange/quench.
ii. Bag filters/ESP/Cyclone.
iii. Dry/wet scrubber with hydrated lime or sodium hydroxide injection.
iv. Chimney/Stack of minimum 30 m height or as per formula H = 14 (Q) 0.3 [where Q is emission rate of SO2 in kg hr] which ever is more and designed as per GEP.

Operating should incineration plants should be operated "area" to achieve a level of incineration such that the stag and bottom ashes Total organic Carbon (TOC) content is less than 3% or their loss on ignition is less than 5% of the dry weight of the material if necessary appropriate techniques of waste pre treatment should be used incineration plants should be designed, equipped built and operated in such a way that the gas resulting from the process is raised after the last injection of combustion air in a controlled and homogeneous fashion and even under the most unfavorable conditions to a temperature of 850^{0}c as measured near the inner wall or at another representative point of the combustion chamber as authorized by the competent authority for two seconds. If hazardous wastes with a content of more than 1 % of halogenated organic substance expressed as chorine of more than 1% of halogenated organic substances expressed as chorine are incinerated the temperature has to be raised to 1200^0 c +/- 100 for at least two seconds.
Each line of the incineration plant should be equipped with at least one auxiliary burner. This burner must be switched on automatically when the temperature of the combustion gaes after the last injection of combustion air falls below 850^{0}c or 1100^{0}c as the case may be is maintained at all times during these operations and as long as unburned wastes is in the combustion chamber.
During the start up and shut down or when temperature of the combustion gas falls below 850^{0}c or 1100^{0}c as line the case may be the auxiliary burner should not be fed with fuels emissions than those permitted.

I] Monitoring requirements continuous monitoring and recording systems for capacity CO, SO2 and NOx should be installed and reported should be sent to the state Pollution Control Boards on regular basis interlocking arrangements for CO and temperature controls (in primary and secondary chamber) with feeding devices should also be provided .Waste feed has also to be terminated on loss of ignition in the after burner safety valve in case of high pressure development in the furnace.

J] Notification of compliance : The operator of the incinerator should undertake comprehensive performance test within 90 day of completion of comprehensive

performance test. The operator should issue a notification of compliance documenting compliance or non compliance as the case may be for public information.

Note : Regular periodical monitoring i.e. Once in a quarter shall be carry out for Halogenated Organic Waste (which is to be incinerated) & report shall be submitted to this office, RO Thane & SRO Tarapur - I

6. **CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:**

(i) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1]	28.1	Residues an Waste	10 Kg/day	CHWTSDF
2]	28.2	Spent Catalyst spent carbon	20 kg/day	
3]	36.2	Ash from incineration	50kg/day	
4]	33.3	Plastic bags & fibre drums	60 nos/M	Sale to authorized party after decontamination
5]		Concentrated sturry from ETP	300 kg/M	Incineration

(ii) Treatment: - NIL

a. 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.

b. The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6'x4' display board in the manner and the report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/ Sub Regional Office.

c. It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the Hazardous Waste (Management & Handling) Rules, 2008.

7. **Industry shall comply with following additional conditions:**

i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.

ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.

iii. Solid waste – 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 to dumping ground.

iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant 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 & conditions of this consent regarding pollution levels.

v. The applicant shall not change or alter 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.

vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.

viii. 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 pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.

ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.

x. The applicant shall install a separate electric 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.

Xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.

xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

8. **The consent shall not be construed as any exemption from obtaining necessary NOC form other Govt. Agencies as may deemed fir necessary.**

9. **If CEPT doesn't operate efficiently for achieving standards and problem of pollution occurs, industry shall voluntarily stop the production or total effluent shall be reused.**

10. The industry shall submit analysis reports for concentration of halogenated organic. Waste which is to be incinerated within one month period.

11. **Industry shall comply with the EIA notification,2006 and clarification issued regarding change in product mix dated 14.12.2006.**

12. **This consent is issued pursuant to the decision of Consent Committee meeting of the Board dated 17.09.2012.**

13. The Capital investment of the industry is Rs. 72.82/- Crs.

(Rajeev Kumar Mital)
Member Secretary

To,
M/S. Aarti Industries Ltd
E-50, MIDC Industrial Area, Tal. Palghar, Dist. Thane.

Copy to: 1. RO Thane/SRO Tarapur- They are directed to ensure the compliances of consent conditions.
2. CAO./ Cess Branch/ Master file.

Received Consent fee of –

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	375000	027987	15.11. 2011	Axis Bank
2	175000	081757	01 .09. 2012	Axis Bank