

# MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781  
/4037124/4035273  
Fax : 24044532/4024068 /4023516  
Email : enquiry@mpcb.gov.in  
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga  
Scheme Road No. 8, Opp. Cine Planet Cinema, Near  
Sion Circle, Sion (E),  
Mumbai - 400 022

Red/L.S.I

Date: 14/2/2012

Consent No: BO/JDPAMS/EIC no.RD-1977-11/E/CAC- 293

Consent to Establish under Section 25 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 & Transboundary Movement) Rules 2008

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

CONSENT is hereby granted to

M/s. HiTech Carbon (A Unit of Aditya Birla Nuvo Ltd.)  
Sr. No. 36/2, 30/3, 37/k, 29A/9, 37/A-20, 37A/36, 37A/36, 44/10, 44/12,  
44/13, 44/14B, Village Talvali, Adjacent to MIDC Patalganga,  
Tal- Khalapur, Dist- Raigad, -410207

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 Establish is granted for a period up to: Commissioning of the unit or 5 years whichever is earlier.  
"Consent to Establish will be operational only after obtaining Environmental Clearance from competent authority by the applicant and subject to the compliance of conditions stipulated in an Environmental Clearance including conditions which may be more stringent, if stipulated by /in the Environmental Clearance."
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Caustic Soda Lye	350	MT/D
2	Chlorine Gas-Total	315	MT/M
3	Hydrogen	98000	m3/day
4	Polyalumnium Chloride Liquid	200	MT/D
5	Stable Bleaching Powder	75	MT/D
6	Chlorinated Paraffin	50	MT/D

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 200.00 m<sup>3</sup>.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 60.00 m<sup>3</sup>.

(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
3	Oil & Grease	Not to exceed	10 mg/l
4	Suspended Solids	Not to exceed	100 mg/l.
5	BOD 3 Days 27 degree C	Not to exceed	100 mg/l.
6	COD	Not to exceed	250 mg/l.
7	TDS	Not to exceed	2100 mg/l.
8	Sulphates	Not to exceed	1000 mg/l.
9	Chlorides	Not to exceed	600 mg/l
10	Total residual chlorine (as Cl <sub>2</sub> )	Not to exceed	1.0 mg/l
11	Mercury	Not to exceed	0.01 mg/l

(iv) **Trade Effluent Disposal:** The treated trade effluent shall be 100% recycled/reused in the process only. The treated effluent shall not be used for plantation/gardening and also there shall not be any discharge outside the factory premises.

(v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to effluent 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 Of Waste	Quantity	UOM	Disposal
1	Canteen	0.90	MT/M	As Manure
2	Colony GH	0.20	MT/M	As Manure
3	STP Sludge	0.50	MT/M	As Manure
4	Office waste	0.40	MT/M	Sale
5	Packaging waste	0.60	MT/M	sale

(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	...	135.00	CMD
(ii)	Water gets Polluted & Pollutants are Biodegradable	...	0.00	CMD

(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic ...	1000.00 CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed ...	850.00CMD
(v) Gardening -----	125.00CMD

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. Scrubbers, bag filters of sufficient capacity should be provided to limit the emissions.
2. There shall not be any secondary (fugitive) emissions.

##### B. Standards for Emissions of Air Pollutants:

(i) Chlorine	Not to exceed	15 mg/Nm <sup>3</sup>
(ii) HCL	Not to exceed	35 Kg/day
(iii) Mercury	Not to exceed	0.2 Kg/day
(iv) SPM/TPM	Not to exceed	150 mg/Nm <sup>3</sup>

##### 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 55 dB(A) during day time and 45 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 siting 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

**Standards for Stack Emissions:**

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

Sr. No.	Type Of Fuel	Quantity	UOM
		-NA-	

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Chlorine Stack	35.00
2	HCl Stack	35.00

- (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.
- (v) **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. 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	5.1 Used /spent oil	30.0	KL/A	Sold to CPCB auth. Party
2	35.1 Exhaust membrane	As per generation		CHWTSDF
3	16.2 Residue/sludges and filter cakes	0.01	MT	CHWTSDF
4	16.3 Brine sludge	10.0	MT/D	CHWTSDF
5	34.3 Chemical sludge from waste water treatment	5.0	MT /A	CHWTSDF
6	35.3 Spent carbon*	0.10	MT/A	CHWTSDF

- (ii) Treatment: - NIL

1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
2. The industry should comply with the Hazardous Waste (M&H) Rules, 2003.

7. 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.

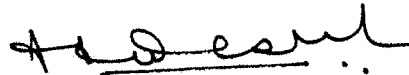
**8. Industry shall comply with following additional conditions:**

- 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 the 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 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. An 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.

9. Industry shall provide adequate effluent collection and minimum one day storage facility for any emergency condition, resulting into

discharge of effluent. Under no circumstances, effluent shall be discharged outside premises.

10. Industry shall provide three ambient air quality monitoring stations including chlorine as special parameter with necessary alarm system.
11. Industry shall prepare onsite and offsite disaster management plan and get it approved from the competent authorities.
12. Industry shall submit the consent copy to Environmental Clearance Authority at the time of obtaining Environmental Clearance.
13. Industry shall obtain Environmental Clearance as per EIA Notification, 2006 and amendments thereof.
14. Industry shall obtain necessary permissions from DISH for storage of Chlorine.
15. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
16. Industry shall obtain consent to operate before commissioning of the unit.
17. This consent is issued as per the distance certificate produced by industry from Executive Engineer, Irrigation Dept. Kolad, Raigad, vide letter no.7848, dated-17/11/2011, the location of the said site is 3.01 KM from Patalganga River
18. This consent is issued pursuant to the decision taken in the meeting of Consent Appraisal Committee of the Board held on 31/01/2012.
19. **The Capital investment of the industry is Rs. 330.00 Crore.**

  
(Ajay A. Deshpande)  
Joint Director, PAMS

To,  
M/s. HiTech Carbon (A Unit of Aditya Birla Nuvo Ltd.)  
Sr. No. 29,30,32, Village Talvali,  
Adjacent to MIDC Patalganga,  
Tal. Khalapur, Dist. Raigad-410207

Copy to:  
Regional Officer, MPCB, Raigad/SRO Raigad-II

They are directed to ensure the compliance of consent conditions.

Chief Accounts Officer/ Cess Branch, MPCB/Master file

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	330100	010697	7/8/2010	HDFC Bank
2	330000	709185	18/11/2011	SBI