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ANDHRA PRADESH POLLUTION CONTROL BOARD
Paryavaran Bhavan, A-III, Industrial Estate, Sanathnagar, Hyderabad-500 018

Phones : 23887500
Fax No: 23815631
Grams : "Kalushva Nivarana"
Website : www.appcb.org

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CONSENT ORDER FOR ESTABLISHMENT

Order No. APPCB/BMW/CBMWTF/VZN/2009 38

Date: 23-04-2010

Sub: PCB - CFE - M/s. Rainbow Industries (CBMWTF), Sy.No.21/1, Patha Kunkam (V), Laveru (M), Srikakulam District - Consent for Establishment of the Board under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 - Issued - Reg.

- Ref:
1. Your application dt. 11-09-2009
 2. R.O's inspection report Lr.No.PCB/ROVZ/Tech/S-244/2009-694 dt 24-09-09
 3. BMW T.C. Meeting held on 03-04-2010
 4. CFE clearance committee meeting held on 17.04.2010
 5. Your Lr. No. Nil, dt. 22-04-2010

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- I. In the reference 1st cited, an application was submitted to the Board seeking Consent for Establishment (CFE) to set up Common Bio-Medical Waste Treatment and Disposal Facility (CBMWTF) with installed capacities of Incinerator- 100 kgs/hr. The total cost of the project is Rs. 50 lakhs and will be situated in an area of 2.45 Acres land.
- II. As per the application, the treatment facility is to be located at Sy.No.21/1, Patha Kunkam (V), Laveru (M), Srikakulam District.
- III. The above site was inspected by the EE (FAC), R.O. Vizianagaram, A.P. Pollution Control Board on 15.09.2009. The proposed site is surrounded by Mango Gardens towards North & West, Metal Road towards East and Casuarinae plantation towards South.
- IV. The Board, after careful scrutiny of the application and verification report of Zonal Officer, hereby issues CONSENT FOR ESTABLISHMENT to your facility Under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. This order is issued for establishment of the Common Bio-Medical Waste Treatment Facility mentioned at para (I) only.

3.4

This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

This Consent Order now issued is subject to the conditions mentioned in Schedule 'A' and Schedule 'B'.

The proponent shall complete the works in all aspects and commission the plant within 9 months. The bar chart for construction and commission of the facility shall reach this office within one month from the date of issue of the order. The Board will be constrained to cancel the CFE Order without further notice, if the facility is not commissioned in all aspects within 9 months from the date of issue of this consent order.

Sd/-
MEMBER SECRETARY

Incl: Schedule 'A'
Schedule 'B'

To
M/s. Rainbow Industries
H.No. 12-222,
Adarsh Nagar, Opp: IDPL Colony,
Balanagar,
Hyderabad -37.

// T.C.F.B.O. //

ASLay
Joint Chief Environmental Engineer (CPC)

35

SCHEDULE - A

1. Indigenous species of plants shall be planted and maintained around the plant in an area atleast 4 times the built up area of the facility. Green belt development shall be started along with the construction activity.
2. The facility shall install and commission Air Pollution control equipment of cyclone separator, high pressure venturi scrubber, droplet separator and 30 mts height stack along with the commissioning of the facility.
3. Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.
 - a) Autoclave
 - b) Domestic purposes
 - c) Processing, whereby water gets polluted and pollutants are easily bio-degradable.
 - d) Processing, whereby water gets polluted and the pollutants are not easily bio-degradable.
 - e) Truck washings.
4. The facility shall provide a sampling port with removable dummy of not less than 15cm diameter in the stack at a distance of 8 times of diameter of the stack from the nearest constraint. The facility shall provide a platform with suitable ladder below 1 meter of sampling port to accommodate three persons with instruments. The facility shall also provide 5 AMP 250 V plug point on the platform.
5. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. The applicant shall maintain good house keeping both within the factory and in the premises. All pipe valves, sewers, and drains shall be leak proof.
6. All solid wastes arising in the premises shall be disposed in a secured landfill properly designed to ensure non-contamination of the soil and ground water.
7. The facility shall implement the following rules and regulations notified by the MOE&F, GOI.
 - a) Bio Medical Waste (Management & Handling) Rules, 1998.
 - b) Hazardous Waste (Management & Handling) Rules, 1989.
8. There shall not be any perceptible odour outside the facility premises.
9. All the rules and regulations notified by the Ministry of Environment and Forests, Govt. of India in respect of noise pollution control measures shall be followed to avoid nuisance to public.
10. A generator shall be installed in a closed area with a silencer and suitable noise absorption systems so as to comply with the ambient noise level standard as mentioned below.

The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.
11. The facility shall install minimum stack height to DG set as per CPCB guidelines. The minimum stack height shall be calculated based on the following formula.
$$H = h + 0.2 \sqrt{KVA}$$

H = height of stack in meters.
h = height of the building in meters, where DG set is installed.
KVA = Total generator capacity.
12. The facility shall submit Annual Report to the Board in Form II of BMW Rules 1998 by 31st January every year.
13. The facility shall report progress on implementation of the project to this office and Regional Office, A.P. Pollution Control Board regularly.

- 36 25
14. The applicant shall obtain Authorisation from APPCB, as required under Rule - 3 of Bio-Medical Waste (Management & Handling) Rules, 1998.
 15. The applicant shall obtain Consents for Operation regularly from APPCB, as required under Sec.25/26 of the Water (P&C of P) Act, 1974 and under Sec.21/22 of the Air (P&C of P) Act, 1981, for operation of the industry, before starting trial production. The consent for Operation will be accorded only after ensuring compliance of all the conditions stipulated in this order.
 16. The applicant shall comply with and carry out conditions issued by the Board in this consent order scrupulously. The applicant is liable for legal action as the provisions of the relevant Acts in case of non-compliance of any conditions of the Consent Order.
 17. Notwithstanding anything contained in the conditional letter or consent, the Board hereby reserves its right and power Under Sec.27(2) of Water (prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alteration as deemed fit and stipulate any additional conditions for the purpose of the Act by the Board.
 18. The applicant shall exhibit the Consent of the Board in the facility premises at a conspicuous place for the information of the inspecting officers of different departments.
 19. The facility is liable to pay compensation for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.

SCHEDULE - B

1. The proponent shall collect the Bio-Medical waste from the Health Care Establishments (HCEs) authorized by the Board, located in Vizianagaram & Srikakulam Districts.
2. The proponent shall apply to the Competent Authority to notify / declare the vacant lands, other than community land-use, as non-residential zone.
3. The CBMWTF shall have the infrastructure as per the guidelines for CBMWTF prepared by CPCB during August 2003.
4. The transport vehicles carrying bio-medical wastes shall have compartments to maintain the segregation of the wastes.
5. Vehicles carrying the hospital waste should be airtight and should not cause odour nuisance enroute to and from the facility.
6. The proponent shall supply non-halogenated bags to the HCEs for segregation of the Bio-Medical Waste.
7. The guidelines for "Design & Construction of Bio-medical incinerators" prepared by CPCB shall be followed for installing the incinerator.
8. No halogenated plastics should be incinerated in the incinerator.
9. A programmable logic control (PLC) based control system shall be installed to the incinerator.
10. The incineration system shall have graphic or computer recording devices which shall automatically and continuously monitor and record dates, time of the day, batch sequential number and operating parameters such as temperatures in both the chambers, CO and CO₂ and O₂ in gaseous emission through out duration of incineration cycle.

37

11. The incinerator shall meet the operating standards and emission standards as specified in schedule - V of Bio-Medical Waste (Management & Handling) Rules, 1998.
12. The incinerator system must have an emergency vent. The emergency vent shall remain closed (it shall not emit flue gases) during normal operation of the incinerator.
13. The auto-clave shall have data-logging and print out arrangements for temperature, pressure etc.
14. The solid waste from the incinerator shall be disposed in a secured landfill designated to ensure non-contamination of the soil and ground water.
15. The facility shall make adequate arrangements for scrubbing the emissions from the incinerator for control of odour.
16. A suitable Effluent Treatment Plant (ETP) shall be installed to treat the liquid effluents generated during the process of scrubbing, washing containers, vehicles, floors etc to the on land for irrigation standards. The domestic wastewater shall be treated in a septic tank and absorbed in a leach pit. The ETP shall be constructed above the ground level, under a top covered shed so as to avoid entry of rainwater into the ETP system.
17. The segregated rubber and plastic components, disposable syringes shall be disinfected before disposal.
18. The loading point of the disinfected recyclable waste shall be separated from the incoming material.
19. The proponent shall install a shredder to shred the disinfected plastics and automatic feeding system to the incinerator.
20. The proponent shall maintain the records for all operation carried out at the CBMWTF.
21. All activities like washing of vehicles, packing of shredded items, transferring or storage of any waste shall be done in the closed shed only.
22. The proponent shall provide a closed pipeline system for carrying the effluent from the generation point to the ETP in order to avoid the mixing with rainwater.
23. The applicant shall obtain land conversion from agricultural to non- agricultural purpose for establishment of the CBMWTF before starting any construction activity.

Sd/-
MEMBER SECRETARY

To
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Adersh Nagar, Opp: IDPL Colony,
Balanagar,
Hyderabad -37.

// T.C.F.B.O.//

M. S. R.

K. C.
P. J. Jadhav

Joint Chief Environmental Engineer (CDO)