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ANDHRA PRADESH POLLUTION CONTROL BOARD
D.No.33-26-14D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamavari Street, Kasturibaipet, Vijayawada - 520 008
Phone. No.0866-2436217, Website : www.appcb.ap.nic.in

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CONSENT ORDER FOR ESTABLISHMENT

Order No. APPCB/BMW/CBMWTF/12/VSP/HO/2017-

Dated: 08.09.2017

Sub: APPCB - CFE - M/s. Vasishta Environ Care, Plot No 27A25, Denotified Area AP SEZ, Atchutapuram Rambilli (M), Visakhapatnam - 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 CFE application received at RO-Visakhapatnam on 17.07.2016.
2. R.O's inspection report dated 21.07.2016.
3. BMW Technical Committee meeting held on 05.08.2016
4. T.O.Lr.No.12/APPBCB/BMW/CBMWTF/CFE/VSP/2016, dated 09.08.2016
5. CFE Committee meeting held on 29.08.2017.
6. EC order No.SEIAA/AP/VSP/IND/11/2016/237, dated 01.09.2017

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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-200 kgs/hr. Total cost of the project is Rs. 3.25 Crores and to be established in an area of 8093.71 sq mts of land with built up area : 3186 sq mts and green belt area : 2750.50 sq mts.
- II. As per the application, the CBMWT Facility is to be located at Plot No 27A25, Denotified Area AP SEZ, Atchutapuram Rambilli (M), Visakhapatnam district.
- III. The above site was inspected by the AEE-II, R.O, Visakhapatnam, A.P. Pollution Control Board on 18.07.2016. The proposed site is surrounded by Road on North; APIIC proposed greenbelt on South; Open plot followed by Ialamkoduru tank on East and Open plot on west side.
- IV. The Board, after careful scrutiny of the application and verification report of Regional Officer-Visakhapatnam, 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.
- V. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

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

VII. The proponent shall complete the works in all aspects and commission the plant within 9 months from the date of this order. The bar chart for construction and commissioning of the facility shall reach Board Office-Vijayawada and Regional Office-Visakhapatnam within one month from the date of issue of the order. This CFE order will be deemed to be cancelled, if the facility is not commissioned in all aspects within 9 months from the date of issue of this consent order.

Sd/-
MEMBER SECRETARY

Encl: Schedule 'A'
Schedule 'B'

To
M/s. Vasishta Environ Care,
Plot No 27A25,
Denotified Area AP SEZ, Atchutapuram,
Rambilli (M),
Visakhapatnam

Copy to: The JCEE, ZO, Visakhapatnam for information and for necessary followup action.
The EE, R.O., Visakhapatnam for information and regular monitoring of the progress of the work with respect to bar chart of the facility and to submit the monthly progress report to Zonal Office, Visakhapatnam and Board Office, Vijayawada.

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

H.V.N. P | 8/9/17
for Joint Chief Environmental Engineer
Unit Head-IV

Scanned Digital Copy
K. Ajay Babu
9866419191

SCHEDULE - A 2.5 /

1. 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.
2. 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.
3. 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.

4. 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.
5. The applicant shall comply with carry out conditions issued by the Board in this consent order scrupulously. The applicant is liable for legal action as per the provisions of the relevant Acts in case of non-compliance of any conditions of the Consent Order.
6. Not withstanding 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.
7. 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.
8. 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.
9. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules, 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

SCHEDULE - B

1. The proponent shall collect the Bio-Medical waste from the Health Care Establishments (HCEs) authorized by the Board located in Visakhapatnam district only without interfering the coverage area of the existing CBMWTF and beds covered by the existing CBMWTF.
2. 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.

3. 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. Online stack analyzer with connectivity to websites of APPCB and CPCB shall be installed to monitor the parameters mentioned in this order before commissioning of the facility.
4. 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.
5. Separate energy meters shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed.
6. 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.
7. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm water drains or open areas. The applicant shall maintain good housekeeping both within the factory and in the premises. All pipe valves, sewers, and drains shall be leak proof.
8. 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.
9. The proponent shall supply non-halogenated bags to the HCEs for segregation of the Bio-Medical Waste.
10. No halogenated plastics should be incinerated in the incinerator.
11. A programmable logic control (PLC) based control system shall be installed to the incinerator.
12. 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, CO₂ and O₂ in gaseous emission through out duration of incineration cycle.
13. The incinerator shall meet the operating standards and emission standards as specified in schedule - II of Bio-Medical Waste Management Rules, 2016.
14. 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.
15. The auto-clave shall have data-logging and print out arrangements for temperature, pressure etc.
16. The solid waste from the incinerator shall be disposed in a secured landfill designated to ensure non-contamination of the soil and ground water.
17. 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.
18. There shall not be any perceptible odour outside the facility premises.
19. The transport vehicles carrying bio-medical wastes shall have compartments to maintain the segregation of the wastes and should be airtight and should not cause odour nuisance enroute to and from the facility.
20. The facility shall make adequate arrangements for scrubbing the emissions from the incinerator for control of odour.
21. The segregated rubber and plastic components, disposable syringes shall be disinfected before disposal.
22. The loading point of the disinfected recyclable waste shall be separated from the incoming material.
23. The proponent shall install a shredder to shred the disinfected plastics.
24. The proponent shall maintain the records for all operations carried out at the CBMWTF.
25. All activities like washing of vehicles, packing of shredded items, transferring or storage of any waste shall be done in the closed shed only.
26. The applicant shall obtain land conversion from agricultural to non- agricultural purpose for establishment of the CBMWTF before starting any construction activity.
27. A set back distance of minimum 100 m shall be maintained from the National Highway to the boundary of the facility.
28. The facility should have auto feeding system & Online continuous monitoring system to the incinerator.
29. The proponent shall apply to the Competent Authority to notify / declare the vacant lands, other than community land-use, as non-residential zone.

The following rules and regulations notified by the MOE&F, GOI shall be implemented.

- a) Bio Medical Waste Management Rules, 2016.
- b) Demolition & Destruction Waste Management Rules, 2016
- c) Solid Waste Management Rules, 2016
- d) Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016
- e) Batteries (Management & Handling) Amendment Rules, 2010.
- f) E-Waste Management Rules, 2016.
- g) Noise Rules, 2000.
- h) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.

1. The CBMWTF shall have the infrastructure and equipment specifications as per the guidelines of CBMWTF prepared by CPCB, December, 2016 to meet effluent discharge and emission standards stipulated in the BMW Rules, 2016.
2. The Project Proponent shall provide bar coding for the containers and bags used for collection, transportation & storage and processing of wastes and GPS to the vehicles transporting the bio medical waste as per BMW Rules 2016.
33. The proponent shall provide the Effluent Treatment Plant (ETP) of 6 KLD., the treated effluent which is proposed for recycle, the suitable disinfection system is to be provided in addition to the ETP.
34. Bio-medical waste segregated in color coded containers as per Biomedical Waste Management Rules, 2016 shall be collected from various Health Care Facilities located in the 75 km radius (covering 10,000 beds). The collected waste shall be transported in specially designed closed vehicle to the proposed CBWTF for treatment and disposal
35. Color coding for handling of waste be strictly followed as per BMW Rules, 2016.
36. The facility shall install continuous online monitoring system to monitor the emissions from the stack. Periodical air quality in and around the site shall be carried out. The parameters shall include Dioxin and furan.
37. The guidelines for "Design & Construction of Bio-medical Incinerators" prepared by CPCB shall be followed.
38. The proponent shall comply with all the directions issued by the Board from time to time.
39. The proponent shall report progress on implementation of the project to this office and Regional Office, A.P. Pollution Control Board regularly every month.
40. The facility shall submit Annual Report to the Board in Form IV of BMW Rules 2016 by 30th June every year.
41. The applicant shall obtain Authorisation from APPCB, as required under Rule - 10 of Bio-Medical Waste Management Rules, 2016 and Consent for Operation under Water & Air Acts before commissioning.
42. Indigenous species of plants shall be planted and maintained around the plant in an area atleast 33% of total area of the facility. Green belt development shall be started along with the construction activity.
43. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.
44. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order in the interest of environment protection.
45. The order is issued without prejudice to the rights and contentions of this Board in any court of law.

Sd/-
MEMBER SECRETARY

To
M/s. Vasishta Environ Care,
Plot No 27A25,
Denotified Area AP SEZ, Atchutapuram,
Rambilli (M),
Visakhapatnam

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

RENN. P. 8/9/17
for Joint Chief Environmental Engineer
Unit Head-IV