

ANDHRA PRADESH POLLUTION CONTROL BOARD
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REGISTERED POST WITH ACK DUE
CONSENT ORDER FOR ESTABLISHMENT

Registered Post Ack. Due

Order No. APPCB/C.Est/RO-I SRD/2001 1073 -

Dt. 03.09.2001

DESPATCHED
ON 6/9/2001


Sub: M/s. Maridi Eco Industries Pvt. Ltd., Pallavi Enclave, Port Kalyana Mandapam, Akkayyapalem, 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 application Dt. 12.12.2000
 2. R.O's Inspection report vide Lr. Dt. 02.01.2000

- I. In the reference 1st cited, you have submitted an application seeking Consent for Establishment to set up a Bio-Medical Common Waste Treatment Facility with an investment of Rs.3 Crores.
- II. As per your application, you are locating the Bio-Medical Waste Common Treatment Facility at Kapuluppada area in Survey No.314, Visakhapatnam
- III. The above site was inspected by the Environmental Engineer, A.P. Pollution Control Board, Regional Office, Visakhapatnam on 30-11-2000 and found that it is surrounded by big hills on two sides and open lands on other two sides.
- IV. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues **CONSENT FOR ESTABLISHMENT** to your Common Bio Medical Waste Treatment 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 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.

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



MEMBER SECRETARY

Encl: Schedule 'A'
Schedule 'B'

To
M/s. Maridi Eco Industries Pvt. Ltd.,
Pallavi Enclave,
Port Kalyana Mandapam,
Akkayyapalem,
Visakhapatnam.

CC to RO - Visakhapatnam for information and necessary action.
~~ZO~~ - Visakhapatnam for information and necessary action

Commissioner,
Municipal Corporation of Visakhapatnam,
Visakhapatnam for kind information

O/C

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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 Common Waste Treatment Facility shall construct and commission the Effluent Treatment Plant (ETP) along with its commissioning. All the units of the ETP shall be impervious to prevent ground water pollution.
3. The Common Waste Treatment Facility shall treat the effluents to on land irrigation standards, stipulated under Environment (Protection) Rules, 1986, as amended upto date, notified and published by Ministry of Environment and Forests. Government of India as specified in Schedule VI vide G.S.R.422(E), dt.19.05.1993 as amended on 31.12.1993.
4. The Common Waste Treatment Facility shall discharge domestic effluents into septic tank followed by subsurface dispersion trenches.
5. Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.
 - a) Domestic purposes.
 - b) Processing, whereby water gets polluted and pollutants are easily bio-degradable.
 - c) Processing, whereby water gets polluted and the pollutants are not easily bio-degradable.
6. Floor washing 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 Hospital and in the premises. All pipe valves, sewers, and drains shall be leak proof.
7. All solid wastes arising in the premises shall be properly segregated and disposed off according to Bio-Medical Waste (Management & Handling) Rules, 1998.
8. The industry shall implement the following rules and regulation notified by MOE&F, GOI
 - a) Bio-Medical Waste (Management & Handling) Rules, 1998
 - b) Hazardous Waste (Management & Handling) Rules, 1989.
9. There shall not be any perceptible odour outside the Facility premises.

10. All the rules and regulations notified by Ministry of Environment and Forests, Govt. of India in respect of noise pollution control measures shall be followed to avoid nuisance to public.

11. A generator if any, 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.

12. The Common Waste Treatment 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.

13. The Common Waste Treatment Facility shall submit Annual Report to the Board in Form II by 31st January every year.

14. The Common Waste Treatment Facility shall report progress on implementation of the project to this office and Regional Office, A.P. Pollution Control Board regularly.

15. The applicant shall obtain Authorisation under Bio-Medical Waste (Management & Handling) Rules, 1998 from APPCB, as required under Schedule I, II & VI.

16. The applicant 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.

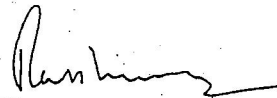
17. The applicant shall comply with and carry out conditions issued by the Board in this consent order scrupulously. The applicant is liable for legal action as per the provisions of the relevant Acts in case of non-compliance of any conditions of the Consent Order.

18. 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

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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.

19. 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.
20. The Common Waste Treatment Facility is liable to pay compensation for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.



MEMBER SECRETARY

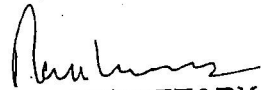
SCHEDULE - B

1. The capacity of incinerator should be 250 kg/hr. The proposal is for treating BMW from Visakhapatnam. The expected BMW is 5000 kg/day. The incinerable waste would be 750 kg/day. The incinerator shall have data-logging facility and print-out arrangements for temperature, flue-gas pressure etc. data. It shall comply with all specifications as per the notification and have a stack height of a minimum of 30 meters.
2. The incinerator shall meet the operating standards and emission standards as specified in Schedule-V of Bio-Medical Waste (Management & Handling) Rules, 1998.
3. The solid waste from the incinerator shall be disposed in a secured landfill designated to ensure non-contamination of the soil and ground water.
4. Alkaline scrubber shall be provided for the incinerator to control emissions and odour arising on burning of human anatomical parts.
5. Wet cloth mopping for floor washing should not be used, as the floor will infectious bags. Hence, washing is advised. The waste water from floor washings shall be disinfected before sending to ETP for treatment.
6. Microwave technology is being proposed for disinfection. Metals cannot normally be disinfected in the microwave. Moreover, it is highly power intensive. Hence common Autoclave with a shredder is suggested for

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disinfection and the autoclave shall comply with the standards as specified in Bio-Medical Waste (Management & Handling) Rules, 1998.

7. The segregated rubber and plastic components, disposable syringes shall be disinfected before disposal to the scrap merchants.
8. The loading point of the disinfected recyclable waste shall be separated from the incoming material.
9. The vehicles carrying the hospital waste shall be airtight and shall not cause odour nuisance enroute to the Common Waste Treatment Facility.


MEMBER SECRETARY