



TELANGANA STATE POLLUTION CONTROL BOARD

Paryavarana Bhavan, A-III, Industrial Estate, Sanathnagar,
Hyderabad - 500018, Phones : 040-23887500 Fax: 040 - 23887519

o/c

Circular. No.TSPCB/HO/BMW/Chairman/2020- 1664

Date:21.12.2020

Sub : TSPCB - BMW - Implementation of Bio-Medical Waste Management Rules, 2016 - Categorization of HCFs as per CPCB New Categorization requirement for HCF Redesign of STP capacities by the HCFs - Instructions issued - Reg.

Ref :

1. Bio-Medical Waste Management Rules, 2016 & Amendments thereof.
2. CPCB order on revised categorization of Industrial sectors under Red, Orange, Green and White dt.07.03.2016.
3. National Building Code of India 2016.
4. BMW Technical committee meeting dated: 24.11.2020

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During the BMW Technical committee meeting held on 24.11.2020, Committee noted that, the capacities of STPs provided by the HCFs are not consistent with the number of Beds and not in line with quantities specified in the National Building Code of India 2016. The Committee also noted that most of the HCFs are not meeting the standards stipulated under the Rules. The committee recommended to rationalize the quantity of waste water generated from the HCFs in proportion to number of Beds, as per the National Building Code of India 2016 and to issue necessary Guidelines.

The MoEF&CC Govt. of India vide reference 1st cited, has notified "Bio-Medical Waste Management Rules, 2016" on 28.03.2016 in supersession of the Bio-Medical Waste (M & H) Rules, 1998 and also issued amendments on 16.03.2018 & 19.02.2019 under the provisions of Environment (Protection) Act, 1986. As per Rule 10 of these Rules, every HCF shall obtain authorization for Management of Bio-Medical Waste and the Validity of Authorization for bedded HCFs / operator shall be synchronized with the validity of their Consent.

The CPCB vide reference 2nd cited, issued modified directions on 07.03.2016 revising categorization of Industrial sectors under Red, Orange, Green and White under which the Health Care Establishment as defined in BMW Rules is categorized under Red at Sl. No.30 (Original Sl. No. 26) and needs to obtain consents under Air & Water Acts. However, in the remarks the following is mentioned:

1. Mainly water polluting.
2. The hospitals having total waste water generation greater than 100 KLD, the normalized water pollution score is normalized to 100 and is categorized as **Red category**.
3. The hospitals with incinerator will be **categorized as Red** irrespective of the quantity of waste water generation.
4. The hospitals having total waste water generation less than 100 KLD and without incinerator, the normalized water pollution score is 50 and will be categorized as **Orange category**.

Under the provisions of BMW Rule 4 - (J) & (k) of the BMW Rules, it is the duty of every occupier of HCF to (j) Ensure segregation of liquid chemical waste at source and ensure pre-treatment or neutralization prior to mixing with other effluent generated from health care facilities and (k) Ensure treatment & disposal of liquid waste in accordance with the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974). Further, all the HCFs shall meet the following stipulated Discharge Standards:

PARAMETERS	PERMISSIBLE LIMITS (Surface water Standards)
pH	6.5-9.0
Suspended solids	100 mg/l
Oil and grease	10 mg/l
BOD	30 mg/l
COD	250 mg/l
Bio-assay test effluent	90% survival of fish after 96 hours in 100%

Note:

- Above limits are applicable to the occupiers of Health Care Facilities (bedded) which are either connected with sewerage network without terminal sewage treatment plant or not connected to public sewers.
- For discharge into public sewers with terminal facilities, the general standards as notified under the Environment (Protection) Act, 1986 (29 of 1986) shall be

applicable.

- Health Care Facilities having less than 10 beds shall have to comply with the output discharge standard for liquid waste by 31st Dec, 2019.
- Non-bedded occupiers shall dispose infectious liquid wastes only after treatment by disinfection as per Schedule – II (6) of the principal rules”.

The National Building Code (NBC) of India, 2016 designed by the Bureau of Indian Standards (BIS) for regulating the building construction activities across the country. Under clause 4.1.2 of NBC, water supply for Buildings other than Residences specified quantity of minimum water supply (consumption) for Hospitals, based on number of beds, which is as follows (Copy of the NBC is attached for ready reference):

(iii) Hospitals (excluding laundry and kitchen)

- a. Number of beds not exceeding 100 - 340 litres per bed/day
- b. Number of beds exceeding 100 - 450 litres per bed/day.
- c. Outpatient department (OPD) - 15 litres per head/day.

In view of the above, the water consumption for bedded and non-bedded Hospitals shall be calculated based on the above criteria and waste water generation shall be calculated as 85 % of the water requirement. Accordingly capacities of STPs shall be designed (maintaining 20% buffer for effective functioning of the Treatment plant) to meet the standards prescribed under BMW Rules and also categorization of HCFs shall be done based on the waste water generation as Red (waste water >100 KLD) or Orange (waste water <100 KLD). It is also requested to enlighten the same to all the stake holders and the HCFs for necessary implementation and up-gradation of STPs.

The Regional Officers and Zonal Officers shall ensure for proper categorization of HCFs is done based on the waste water generation as per NBC and ensure for providing required capacities of STP/ waste water treatment plants by the HCFs while processing Authorizations under BMW Rules and Consents under Water (P&C) Act, 1974 & Air (P&C) Act, 1981. It shall be ensured for obtaining authorization and consents for all HCFs as required under BMW Rules, 2016.

Sd/-

MEMBER SECRETARY

To

1. The Environmental Engineer, Regional Office - Hyderabad / Rangareddy / Medchal / Kothagudem / Ramagundam / Warangal / Nalgonda / Nizamabad / Medak / Sangareddy.
2. The Joint Chief Environmental Engineer, TSPCB Zonal Office, Hyderabad & RC Puram.

Copy submitted to:

1. The Principal Secretary, Environment, Science & Technology, Aranya Bhavan, Hyderabad for favour of kind information and necessary action.
2. The Principal Secretary, Medical Health & Family Welfare, BRK Bhavan, Hyderabad for favour of kind information and necessary action.
3. The Secretary, Veterinary, Animal Husbandry & Fisheries Department, Hyderabad for kind information and necessary action.
4. The Commissioner of Health and Family Welfare, Koti, Hyderabad for information and necessary action.
5. The Commissioner, Department of Ayush, Hyderabad for information and necessary action.
6. The Director of Public Health and family welfare, Hyderabad for information and necessary action.
7. The Director of Medical Education, Hyderabad for information and necessary action.
8. The Commissioner, Telangana Vaidya Vidhana Parishad, Hyderabad for information and necessary action.
9. All the (33) District Collectors for information and necessary action.
10. District Medical & Health Officers of all the (33) District Collectors for information and necessary action.

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Joint Chief Environmental Engineer