



## ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ Karnataka State Pollution Control Board

“ಪರಿಸರ ಭವನ”, 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ  
“Parisara Bhavan”, 1st to 5th Floor, # 49, Church Street, Bangalore - 560 001, Karnataka State, India

No. KSPCB/MS/BMW/2020/114

DATE:

24 AUG 2020

### CIRCULAR

**Sub:** Implementation of Central Pollution Control Board Revised Guidelines (Revision-4) for Handling, Treatment, and Disposal of Waste Generated during treatment/Diagnosis/ Quarantine of COVID-19 Patients-reg.

- Ref:-**
1. CPCB Guidelines on Handling and Disposal of COVID-19 BMW issued on 25.03.2020.
  2. CPCB Guidelines on Handling and Disposal of COVID-19 BMW issued on 18.04.2020-(Revision-2).
  3. CPCB Guidelines on Handling and Disposal of COVID-19 BMW issued on 10.06.2020-(Revision-3).
  4. CPCB Guidelines on Handling and Disposal of COVID-19 BMW issued on 17.07.2020-(Revision-4).
  5. Whatsapp message sent to DHO, BBMP.

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With reference to above subject, it is to be mentioned that the Central Pollution Control Board (CPCB) has issued guidelines vide ref (1) regarding scientific collection/handling of COVID-19, BMW generated from quarantine homes/centers and other treatment facilities. These guidelines have been partly revised subsequently vide ref (2) to (4). The guidelines, i.e., at ref (1) to ref(3) have already been circulated to all stake holders for implementation. Now the latest partly amended guidelines issued vide ref (4) have to be implemented along with earlier guidelines by stake holders like Sample Collection Centers/Laboratories, Isolation Centers, Health Care facilities/Establishments, local bodies and SPCB's(A copy of guideline is enclosed herewith). As such, the latest revision/amendments to the earlier guidelines issued by the CPCB vide ref (4), have been extracted and reproduced below under the heading of the respective implementation department/organization/stakeholders.

### **I. COVID-19 Isolation wards: (isolation wards are those where COVID-19 positive patients are being kept for treatment / diagnosis).**

- i. Keep separate color coded bins (with foot operated lids)2/bags/containers in wards and maintain proper segregation of waste as per BMW Rules, 2016 as amended and CPCB guidelines for implementation of BMW Management Rules.

- ii. As precaution double layered bags (using 2 bags) should be used for collection of waste from COVID-19 isolation wards so as to ensure adequate strength and no-leaks;
- iii. General solid waste comprising of wrappers of medicines/syringes, fruit peel offs, empty juice bottles or tetra packs, used water bottles, discarded papers, carton boxes of medicines, empty bottles of disinfectants, left-over food, disposable food plates etc., should be collected separately as per SWM Rules, 2016.
- iv. In order to minimize waste generation, as far as possible, non-disposable items must be used for serving food, which are to be handle with appropriate precautions and cleaned and disinfected as per hospital guidelines. If use of disposable items is inevitable, use bio-degradable cutlery. The wet and dry solid waste bags to be tied securely in leak-proof bags, sprayed with sodium hypo-chlorite solution and hand over to authorized waste collector of ULB's on daily basis. Yellow colored bags should not be used for collecting general solid waste.
- v. Used masks, tissues and toiletries, of COVID-19 patient shall become biomedical waste and shall be segregated in yellow bag.
- vi. Segregation of biomedical waste and general solid waste should be done at the point of generation in wards / isolation rooms. There should be no segregation of biomedical waste and solid waste at temporary waste collection / storage area of Healthcare Facility to ensure occupational safety.

## **II. Responsibilities of persons operating Quarantine Centers/Camps/Home Quarantine or Home-Care facilities.**

- i. General solid waste (household waste) generated from quarantine centers or camps should be collected in bags, securely tied and handed-over to municipal solid waste collector identified by Urban Local Bodies for final disposal
- ii. General solid waste should comprise of waste generated from kitchen, packaging material, waste food material, waste papers, waste plastics, floor cleaning dust, etc. including left-over food, disposable utensils, water bottles, tetra packs, used by suspected quarantined persons and COVID-19 patient at homecare or home quarantine.
- iii. Only the used masks, gloves and tissues or swabs contaminated with blood / body fluids of COVID-19 patients, including used syringes, medicines, etc., if any generated should be treated as biomedical waste.
- iv. General solid waste from Quarantine Camps / Quarantine-Home / Home-care shall be segregated separately and disposed as solid waste as per provisions under SWM Rules, 2016.
- v. Left-over food, empty juice bottles or tetra packs, empty water bottles, packaging material and any other items, generated or handled by COVID-19 patient should be collected along with other general solid waste in bags securely tied for handing over to waste collectors
- vi. Engaged by ULBs. Yellow colored bag should not be used for general solid waste.

- vii. Only the used masks, gloves and tissues or swabs contaminated with blood / body fluids of COVID-19 patients, including used syringes, medicines, etc., if any generated should be treated as biomedical waste and collect the same in yellow bag.
- viii. Masks and gloves used by persons other than COVID-19 patients should be kept in paper bag for a minimum of 72 hours prior to disposal of the same as general waste after cutting the same to prevent reuse.

### **III. Duties of Urban Local Bodies**

- i. Ensure that general solid waste and biomedical waste generated from quarantine camps/quarantine homes / Homecare is not mixed. The biomedical waste and general solid waste should be collected separately. Inform the persons responsible for operating isolation wards, quarantine centers and residents of homecare units to collect solid waste and biomedical waste in separate bags securely tied prior to hand over to authorized waste collectors of ULBs. ULBs should ensure that left-over food and general solid waste is not collected in yellow bags.
- ii. ULBs required to ensure daily collection of segregated general solid waste from quarantine centers, home-care and hospitals in securely tied bags (without opening to ensure waste collector safety and to avoid pilferage). As a precautionary measure, liquid disinfectant (1% sodium hypochlorite solution) may be sprayed over bags containing general wastes prior to collection or disposal. General solid waste may be disposed as per SWM Rules, 2016, which may include disposal in landfills, waste to energy plants, depending on available infrastructure.
- iii. Waste masks and gloves in general households should be kept in paper bag for a minimum of 72 hours prior to disposal of the same as dry general solid waste after cutting the same to prevent reuse.
- iv. Used masks from visitors to crematorium/ graveyards including crematorium staff should be collected in separate bins and stored for 72 hours prior to disposal as dry general solid waste through local bodies.

In view of the above revision/amendments to earlier guidelines and duty entrusted upon this board for ensuring proper segregation, collection and disposal of biomedical waste as per BMW Rules, 2016 and this guidance document, all stakeholders are informed to strictly implement earlier guidelines along with above amendments.

**Sd/-**

**MEMBER SECRETARY**

**To,**

1. The Additional Chief Secretary, Department of Health and Family Welfare, No. 104, 1<sup>st</sup> Floor, Vikasa Soudha, Bangalore.
2. Principal Secretary to Government, Urban Development Department, No. 434, 4<sup>th</sup> Floor, Vikasa Soudha

3. Principal Secretary to Government, Department of Ecology and Environment, M.S. Building, Bangalore
4. Principal Secretary to Government, Department of Rural Development & Panchayat Raj, 3<sup>rd</sup> Floor, 3<sup>rd</sup> Gate, M.S. Building, Bangalore.
5. The Director, Department of Health and Family Welfare, Government of Karnataka K.R. Circle, Bangalore.
6. The Director, Department of Medical Education, Government of Karnataka, Bangalore.
7. The Director, Department of Municipal Administration, VV Tower, Bangalore with a request to present the details of the draft state policy on solid waste Management before the meeting.
8. The Special Commissioner, Administration and Solid Waste Management, BBMP, N.R. Square, Bangalore.

**Copy to:**

1. The Technical Officer to the Chairman to ring to the kind attention of the Chairman.
- ✓ 2. SEO, E-Governance Cell for uploading the circular and CPCB guidelines in the Board Web Site.

  
**Member Secretary**  
**KSPCB**  
