



SPEED POST

F. No. B-11011/UPC-II/MSW(WtE)(Direction)/2018-19

19.03.2019

To,

Chairman,
All SPCBs/PCCs

Direction under Section 5 of the Environment (Protection) Act, 1986 for setting-up of Material Recovery Facility (MRF) prior to WtE Plants/Energy recovery system.

WHEREAS, the Central Government has notified the standards for discharge of environmental pollutants from various categories of industries under the Environment (Protection) Act, 1986 and the rules framed there under; and

WHEREAS, the Ministry of Environment, Forest & Climate Change has notified Plastic & Waste Management Rules, 2016, as amended time to time,, which inter-alia procedures for Plastic & Solid Waste Management.

WHEREAS, under Rule (5)(b), Local bodies shall encourage the use of plastic waste (preferably the plastic waste which cannot be further recycled) for road construction as per Indian Road Congress guidelines or energy recovery or waste to oil etc. The standards and pollution control norms specified by the prescribed authority for these technologies shall be complied.

WHEREAS, under Rule 21(1) of Solid Waste Management Rules. 2016, non recyclable waste having calorific value of 1500 K Cal/Kg or more shall not be disposed of on landfills and shall only be utilized for generating energy or through refuse derived fuel (RDF) or by giving away as feed stock for preparing refuse derived fuel.

WHEREAS, under Rule (6) Responsibility of local body –

- i. Every local body shall be responsible for development and setting up of infrastructure for segregation, collection, storage, transportation, processing and disposal of the plastic waste either on its own or by engaging agencies or producers. The local body.
- ii. shall be responsible for setting up, operationalization and co-ordination of the waste management system and for performing the associated functions namely:

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- a. Ensuring segregation, collection, storage, transportation, processing & disposal of plastic waste;
 - b. ensuring that no damage is caused to the environment during this process;
 - c. ensuring channelization of recyclable plastic waste fraction to recyclers;
 - d. ensuring processing and disposal on non-recyclable fraction of plastic waste in accordance with the guidelines issued by the Central Pollution Control Board;
 - e. creating awareness among all stake holders about their responsibilities;
 - f. engaging civil societies or groups working with waste pickers; and
 - g. Ensuring that open burning of plastic waste does not take place.
- iii. The local body for setting up of system for plastic waste management shall seek assistance of producers and such system shall be set up within one year from the date of final publication of these rules in the Official Gazette of India;

WHEREAS, under Rule (7) Responsibility of Gram Panchayat - Every Gram Panchayat either on its own or by engaging an agency shall set up, operationalize and co-ordinate for waste management in the rural area under their control and for performing the associated functions, namely, -

- a. ensuring segregation, collection, storage, transportation, plastic waste and channelization of recyclable plastic waste fraction to recyclers having valid registration; ensuring that no damage is caused to the environment during this process;
- b. creating awareness among all stakeholders about their responsibilities; and
- c. Ensuring that open burning of plastic waste does not take place.

WHEREAS, under Rule (9) (1 & 2) Responsibility of producers, Importers and Brand Owners. "The producers, within a period of six months from the date of publication of these rules, shall work out modalities for waste collection system based on Extended Producers Responsibility and involving State Urban Development Departments, either individually or collectively, through their own distribution channel or through the local body concerned" **and** "Primary responsibility for collection of used multi-layered plastic sachet or pouches or packaging is of Producers, Importers and Brand Owners who introduce the products in the market. ✓

WHEREAS, the concerned Authorities are not complying the provisions relating to implementation of PWM & SWM Rules, 2016, as amended time to time.

WHEREAS, Ministry of Environment & Forest, Govt. of India, vide notification S.O.157(E) of 27.02.1996 has delegated powers vested under Section 5 of the Environment (Protection) Act,1986 (29 of 1986) to the Chairman, Central Pollution Control Board (CPCB), to issue direction to any SPCBs/PCCs, industry, Municipal Corporation, Municipal Council, Cantonment Board to any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules,1986 & other standards & rules to hazardous chemicals, industrial solid waste, municipal solid waste including plastic waste notified under the Environment (Protection) Act, 1986.

WHEREAS, it has been observed that Waste to Energy Plants in Delhi or other cities are not running due to feeding of unsegregated mixed MSW leading to inefficient energy output & huge quantity of rejects, ultimately adding to legacy waste.

WHEREAS, Experts have made following suggestions for better efficiency,

1. An organised waste collection system should be in place.
2. Ensure segregation at source ie Wet & Dry in separate bins
3. Ensure segregated transport of wet & dry waste.
4. The minimum Net Calorific Value(NCV) of waste shall be maintained around 1450 kcal/kg(6MJ/kg)
5. Seasonal low NCV (during rainy season) may need drying process (e.g. Internal steam utilization).
6. The silt & C & D waste should not be mixed in the feed stock for WtE.

WHEREAS, it has been observed that several States/UTs have proposed or are in the process of installation of new WtE plants for disposal of mixed MSW.

WHEREAS, it is well established fact that without segregation of dry, wet, & silt waste, the efficiency of WtE cannot be increased. Besides, it will reduce quantity of rejects which is presently ranging from 40% to 50%. ✓

WHEREAS, it is necessary to set-up Material Recovery Facility (MRF) to segregate dry & wet waste and convert Mixed MSW to segregated combustible fraction (SCF) or refused derived fuel (RDF) having Calorific Value > 3000 K Cal/Kg.

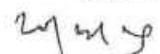
WHEREAS, the MSW legacy waste shall be disposed as per the guidelines evolved by CPCB.

NOW THEREFORE, in view of the above observations and in exercise of powers delegated to the Chairman, Central Pollution Control Board (CPCB) under Section 5 of the Environment (Protection) Act, 1986, the following directions are issued to Chairman, concerned State Pollution Control Board/Concerned UT Pollution Control Committee to ensure that the following directions are complied with through appropriate implementing agencies in State/UT;

- i. State Pollution Control Board/Committee shall ensure implementation of Solid Waste Management Rules, 2016 & Plastic Waste Management Rules, 2016, as amended 2018 in each municipal bodies.
- ii. SPCB/PCCs shall ensure segregation of dry & wet waste at source.
- iii. SPCBs/PCCs shall ensure segregated transport of dry & wet waste.
- iv. SPCBs/PCCs shall ensure setting-up of decentralised composting or biomethanization plants.
- v. SPCBs/PCCs shall ensure setting up Material Recovery Facility (MRF) prior to WtE plants or Co processing in cement plants so as to convert mixed solid waste into SCF or RDF for better efficiency of these plants.
- vi. SPCBs/PCCs shall allow & encourage interstate movement of SCF or RDF, for Co processing in Cement Kilns or WtE plants, as the case may be.

SPCBs/PCCs are hereby directed to submit action taken report (ATR) within 30 days from the receipt of these directions, failing which necessary legal action may be initiated. ✓


(S. P. Singh Parihar)
Chairman





Copy to:

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(Prashant Gargava)
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