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CIRCULAR

Sub.: Technical and Operational Norms of Mechanized Road Sweeping Machines (MRSMs) for Controlling Road Dust - Reg.

Road dust is a dominant contributor to coarse particulate pollutant (PM₁₀), and remains significant contributor in fine particulate matter (PM_{2.5}) also, particularly during the drier months. Inadequate and non-uniform road sweeping practices contribute to elevated ambient particulate matter levels, thereby adversely impacting the overall air quality in the National Capital Region (NCR).

Effective mechanized road sweeping is an essential air pollution abatement intervention for the NCR, which has the measurable potential to reduce road dust and consequently lower PM₁₀ and PM_{2.5} levels. The study of CSIR-CRRI and CSIR-NEERI also recommended several actions to control the dust pollution which, inter-alia, included operation of mechanized road sweeping machines on the roads.

Roads in the NCR vary widely in Right of Way (RoW). Mechanized Road Sweeping Machines (MRSMs) should be deployed according to the road width for effectiveness of dust control efforts. A RoW-appropriate deployment strategy of MRSMs is necessary to ensure efficient removal of visible dust on roads.

In view of the above, to abate air pollution caused by dust from roads, the following technical and operational norms for deployment and utilization of Mechanized Road Sweeping Machines (MRSMs) for sweeping of roads may be followed by all road-owning and road-maintenance agencies in the NCR:

1. Technical Norms

- (i) Large-size MRSM with hopper capacity > 4 m³ and operating width of > 3 m for sweeping of roads with a RoW > 15 m.
- (ii) Medium-size MRSM with hopper capacity between 1 m³ and 4 m³ and operating width of 1.5 m - 3.0 m for sweeping of roads with a RoW of 10 m - 15 m.
- (iii) Small-size MRSM with hopper capacity < 1 m³ and operating width of < 2 m for sweeping of roads with a RoW < 10 m.
- (iv) There could be reasonable variations in the technical specifications of various categories of MRSMs based on actual requirements.
- (v) MRSMs should be equipped with an integrated water spraying system for effective dust suppression during sweeping operations.

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(vi) MRSMS should be equipped with an effective particulate matter (PM) dust filtration system to prevent re-entrainment of PM during sweeping operations.

(vii) Only CNG-fuelled/ Electric variant MRSMS should be inducted in the new fleet for the sweeping operations.

2. Operational Norms

(i) MRSMS should be able to operate for at least 8-hour on a shift basis. The day and shift schedule of sweeping of roads shall be declared in advance for convenience of the public.

(ii) Large-size and medium-size MRSMS should be able to cover a distance of approximately 40 running km during an 8-hour operational shift.

(iii) Small-size MRSMS should be able to cover a minimum distance of 20 running km during an 8-hour operational shift.

(iv) Newly inducted MRSMS may be operated and maintained under the OPEX mode.

(v) Number of MRSMS required may be calculated on the basis of requirement of sweeping of the roads on alternate days. As MRSMS must clean the side edges of the road, the calculation of running km will depend upon the number of edges of the road. For example, 1 km of carriageway without a median / divider corresponds to 2 running km, whereas 1 km of carriageway with a median / divider corresponds to 4 running km.

(vi) Actual deployment of MRSMS may, however, be done based on the presence of dust on the specific roads.

3. Handheld Vacuum Cleaning Machines / Litter Pickers may be provided to the sweeping staff for cleaning of roadsides / footpaths.

4. Road dust collected through mechanised sweeping of roads shall be disposed in a scientific manner to prevent re-entry of dust particles into the ambient air.



(Tarun Kumar Pithode)
Member Secretary

To

As per list enclosed

Copy to:

1. Chief Secretary, Government of NCT of Delhi (GNCTD)
2. Chief Secretary, Government of Haryana
3. Chief Secretary, Government of Uttar Pradesh
4. Chief Secretary, Government of Rajasthan
5. Secretary-in-charge, Environment and Forest, Government of NCT of Delhi (GNCTD)

6. Secretary-in-charge, Department of Environment and Climate Change, Govt. of Haryana
7. Secretary-in-charge, Environment, Forest and Climate Change Department, Govt. of Uttar Pradesh
8. Secretary-in-charge, Department of Environment, Forest and Climate Change, Govt. of Rajasthan
9. Chairman, Delhi Pollution Control Committee (DPCC)
10. Chairman, Haryana State Pollution Control Board (HSPCB)
11. Chairman, Uttar Pradesh Pollution Control Board (UPPCB)
12. Chairman, Rajasthan State Pollution Control Board (RSPSB)
13. Member Secretary, Delhi Pollution Control Committee (DPCC)
14. Member Secretary, Haryana State Pollution Control Board (HSPCB)
15. Member Secretary, Uttar Pradesh Pollution Control Board (UPPCB)
16. Member Secretary, Rajasthan State Pollution Control Board (RSPSB)

Tkp.

(Tarun Kumar Pithode)
Member Secretary

List of Dust Control and Management Cells (DCMCs) in the National Capital Region

1. Delhi

S. No.	Department / Agency
1.	Municipal Corporation of Delhi (MCD)
2.	Public Works Department (PWD)
3.	New Delhi Municipal Council (NDMC)
4.	National Highways Authority of India (NHAI)
5.	Delhi Development Authority (DDA)
6.	Delhi State Industrial and Infrastructure Development Corporation (DSIIDC)
7.	Central Public Works Department (CPWD)
8.	Delhi Cantonment Board (DCB)
9.	Delhi Jal Board (DJB)
10.	Irrigation and Food Control Department (IFCD)
11.	Delhi Metro Rail Corporation (DMRC)
12.	National Capital Region Transport Corporation (NCRTC)

2. Haryana (NCR)

S. No.	Department / Agency
1.	Municipal Corporation Gurugram
2.	Municipal Corporation Faridabad
3.	Municipal Corporation Sonipat
4.	Municipal Corporation Karnal
5.	Municipal Corporation Panipat
6.	Municipal Corporation Rohtak
7.	Municipal Corporation Manesar
8.	Gurugram Metropolitan Development Authority (GMDA)
9.	Faridabad Metropolitan Development Authority (FMDA)
10.	Sonipat Metropolitan Development Authority (SMDA)
11.	National Highways Authority of India (NHAI)
12.	Public Works Department (PWD) - Building and Roads
13.	Municipal Council Jhajjar
14.	Municipal Council Bhiwani
15.	Municipal Council Charkhi Dadri
16.	Municipal Council Palwal
17.	Municipal Council Nuh
18.	Municipal Council Rewari
19.	Municipal Council Jind
20.	Haryana Shehri Vikas Pradhikaran (HSVP)
21.	Haryana State Industrial and Infrastructure Development Corporation (HSIIDC)
22.	Municipal Committee Mahendragarh

3. Uttar Pradesh (NCR)

S. No.	Department / Agency
1.	Ghaziabad Nagar Nigam
2.	Meerut Nagar Nigam
3.	New Okhla Industrial Development Authority (NOIDA)
4.	Greater Noida Industrial Development Authority (GNIDA)
5.	National Highways Authority of India (NHAI)
6.	Ghaziabad Development Authority (GDA)
7.	Muzaffarnagar Development Authority
8.	Public Works Department (PWD) Bulandshahr
9.	Nagar Palika Parishad Baghpat
10.	Nagar Palika Parishad Dadri
11.	Nagar Palika Parishad Hapur
12.	Nagar Palika Parishad Loni
13.	Nagar Palika Parishad Modi Nagar
14.	Nagar Palika Parishad Shamli
15.	Nagar Palika Khurja
16.	Uttar Pradesh State Industrial Development Authority (UPSIDA)
17.	Yamuna Expressway Industrial Development Authority (YEIDA)
18.	National Capital Region Transport Corporation (NCRTC)

4. Rajasthan (NCR)

S. No.	Department / Agency
1.	Municipal Corporation Alwar
2.	Municipal Corporation Bharatpur
3.	Municipal Council Bhiwadi
4.	Public Works Department (PWD) Deeg
5.	Public Works Department (PWD) Behror
6.	Urban Improvement Trust (UIT) Alwar
7.	Public Works Department (PWD) Bharatpur
8.	Public Works Department (PWD) Alwar
9.	Public Works Department (PWD) Bhiwadi
10.	RIICO Ltd. Bhiwadi Unit-I
11.	RIICO Ltd. Bhiwadi Unit-II
12.	RIICO Ltd. Alwar
13.	RIICO Ltd. Bharatpur
14.	RIICO Ltd. Ghiloth
15.	RIICO Ltd. Neemrana
16.	Bharatpur Development Authority
17.	Bhiwadi Integrated Development Authority (BIDA)
18.	Rajasthan Housing Board Bhiwadi