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सदस्य सचिव



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

B-31011/BMW (94)/2020/WM-I

March 25, 2020

To,

MoEF&CC / MoH&FW / MoHUA / State Departments of Health
SPCBs/PCCs/ Association of CBWTFs/State Departments of Urban Development

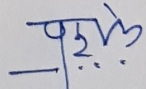
Sub: Guidelines for Handling, Treatment and Disposal of Waste Generated during Treatment/Diagnosis/ Quarantine of COVID-19 Patients – Revision I – reg.

Sir/Madam,

This has reference to CPCB letter dated 18.03.2020 regarding guidelines for “Handling, Treatment and Disposal of Waste Generated during Treatment/Diagnosis/Quarantine of COVID-19 patients”.

CPCB has been receiving queries from Urban Local Bodies regarding precautionary measures to be adopted by quarantine camps/ quarantine house/house care units and responsibilities of Urban Local Bodies while handling the waste generated from these units.

In view of the above, aforesaid CPCB guidelines for “Handling, Treatment and Disposal of Waste Generated during Treatment/Diagnosis/Quarantine of COVID-19 patients” has been revised wherein specific responsibilities of Urban Local Bodies, State Pollution Control Boards/Pollution Control Committees and persons operating quarantine camps/quarantine home/homecare units have been incorporated. This revision will help all the stakeholders in managing, handling, treating and disposing the waste (general solid waste and biomedical waste) in line with provisions under Solid Waste Management Rules, 2016 as amended thereof as well as Biomedical Waste Management Rules, 2016, as amended thereof. A copy of CPCB guidelines for “Revision 1-Handling, Treatment and Disposal of Waste Generated during Treatment/Diagnosis/Quarantine of COVID-19 patients” is enclosed herewith for ready reference.


(Prashant Gargava)

Encl.: As above



‘परिवेश भवन’, सी.बी.डी.-कम-ऑफिस कॉम्प्लेक्स, पूर्वी अर्जुन नगर, दिल्ली-110 032
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List of Ministries/Departments

1.	The Special Secretary, Ministry of Health & Family Welfare, Room No. 344-A, Nirman Bhawan, Near Udyog Bhawan Metro Station, Maulana Azad Road, New Delhi, Delhi -110011
2.	The Principle Secretary, Ministry of Urban Development, (NULM) Room No. 114-C, Nirman Bhawan, New Delhi.
3.	Joint Secretary, HSM Division, Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi-110 003
4.	Director General, Armed Force Medical Services, Room No. -8, 'M' Block, Ministry of Defence New Delhi -110001
5.	Sh. Vinod Kachhadia, CBWTF Association of India, 307-308, Century Centre, Near Gujarat Samachar Press, Kanta Stri Vikas Gurh Road, Rajkot -36002

List of all the State Pollution Control Boards (SPCBs) & Pollution Control Committees (PCCs)

1.	The Member Secretary Telangana Pollution Control Board Paryavaran Bhawan, A-III Institutional Estate, Sanathnagar Hyderabad - 500018.	11.	The Member Secretary Shiekh-ul-Campus, behind Govt. Silk Factory, Raj Bagh, Srinagar(J&K)
2.	The Member Secretary Andhra Pradesh Pollution Control Board D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada - 520 010	12.	The Member Secretary Jharkhand State Pollution Control Board T.A. Building, HEC, P.O. Dhurwa, Ranchi-834 004
3.	The Member Secretary Arunachal Pradesh Pollution Control Board Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papu Nalah, Naharlagun- 791110	13.	The Member Secretary Karnataka State Pollution Control Board "Parisara Bhavan", #49, 4th & 5th Floor, Church Street, Bangalore-560001
4.	The Member Secretary Assam Pollution Control Board Bamunimaiden, Guwahati - 781 021	14.	The Member Secretary Kerala Pollution Control Board Pattom Palace, P.O. Thiruvananthapuram - 695 004
5.	The Member Secretary Bihar Pollution Control Board Parivesh Bhawan, Plot No. NS-B/2 Patliputra Industrial Area, Patliputra, Patna (Bihar)-800023	15.	The Member Secretary Maharashtra Pollution Control Board Kalptaru Point, 2nd - 4th floor, Opp. Cine Planet, Sion Circle, Sion (E), Mumbai - 400 022
6.	The Member Secretary Chhattisgarh Environment Conservation Board Paryavas Bhawan, North Block Sector-19, Naya Raipur (C.G.)- 492002	16.	The Member Secretary Madhya Pradesh Pollution Control Board Paryavaran Parisar, Sector E-5, Arera Colony, Bhopal - 462 016
7.	The Member Secretary Goa Pollution Control Board Opp. Saligao Seminary, Saligao - Bardez Goa - 403511	17.	The Member Secretary Manipur Pollution Control Board Near Imphal West D.C. Office Complex, Lamphelpat, Imphal - 795 004.
8.	The Member Secretary Gujarat Pollution Control Board Paryavaran Bhawan, Sector 10-A, Gandhi Nagar - 382010	18.	The Member Secretary Meghalaya Pollution Control Board Arden, Lumpyngngad, Shillong - 793 014
9.	The Member Secretary Haryana Pollution Control Board C-11, Sector-6 Panchkula Haryana-134 109	19.	The Member Secretary Mizoram Pollution Control Board New Secretariat Complex, Khatla, Aizawl, Mizoram - 796001
10.	The Member Secretary Himachal Pradesh Pollution Control Board Paryavaran Bhawan, Phase-III, Below BCS, New Shimla - 171 009.	20.	The Member Secretary Nagaland Pollution Control Board Signal Point, Dimapur, Nagaland - 797112
		21.	The Member Secretary State Pollution Control Board, Odisha Paribesh Bhawan, A-118, Nilakantha Nagar, Unit-VIII, Bhubaneswar - 751 012.
		22.	The Member Secretary Punjab Pollution Control Board Vatavaran Bhawan, Nabha Road Patiala - 147 001
		23.	The Member Secretary Rajasthan Pollution Control Board 4, Institutional Area, Jhalana Doongri Jaipur - 302 004, Rajasthan.

24.	The Member Secretary State Pollution Control Board Forest, Environment Wildlife Management Department Government of Sikkim Forest Secretariat Annex I, Ground Floor, Deorali, Gangtok -737102 East Sikkim
25.	The Member Secretary Tamil Nadu Pollution Control Board No. 76, Mount Salai Guindy, Chennai - 600 032
26.	The Member Secretary Tripura Pollution Control Board, Parivesh Bhawan, Pandit Nehru Complex, Gorkhabasti P.O. Kunjaban, Agartala Tripura - 799 006,
27.	The Member Secretary Uttar Pradesh Pollution Control Board Building No TC-12V Vibhuti Khand, Gomti Nagar Lucknow - 226 010
28.	The Member Secretary Uttarakhand Environment Protection & Pollution Control Board 29/20, Nemi Road, Dehradun - 248001.
29.	The Member Secretary West Bengal Pollution Control Board Parivesh Bhawan, 10A, Block- LA, Sector III, Salt Lake City, Calcutta- 700106
30.	The Member Secretary Chandigarh Pollution Control Committee Paryavaran Bhawan, Ground Floor Madhya Marg, Sector C19-B, Chandigarh - 160 019
31.	The Member Secretary Delhi Pollution Control Committee 4th Floor, ISBT Building, Kashmere Gate, Delhi - 110006.
32.	The Member Secretary Daman, Diu & Dadra & Nagar Haveli Pollution Control Committee Fort Area, Court Compound, Moti Daman- 396220
33.	The Member Secretary Lakshadweep Pollution Control Committee Lakshadweep Administration, Dept. Of Sc. and Technology & Environment Kavaratti Island-682 555
34.	The Member Secretary Andaman & Nicobar Pollution Control Committee Dept. Of Sc. and Technology Dollygunj Van Sadan, Haddo P.O. Port Blair - 744 102
35.	The Member Secretary Puducherry Pollution Control Committee Department of Science, Technology and Environment IIIrd floor, PHB Building, 5, Anna Nagar, Puducherry - 605005

List of State Urban Development Department

1.	Mission Director Municipal Administration & Urban Development Department, 3rd Floor, E in C complex Kasana Building, AC Guards ,Lakdipool,Hyderabad-500004 Andhra Pradesh
2.	Tedir, CE-cum Director Urban Development & Housing Department, Mowb II,Itanagar-791111 Arunachal Pradesh
3.	Director Municipal Administration, Dispur,Guwahati-781006
4.	Deputy Director Urban Development & Housing Department, Room No 107 Vikash Bhavan Belly Road, New Secretariat,Patna-800015
5.	Director & CEO State Urban Development Agency, 4th Floor, Indravati Bhavan,HOD Building, Naya Raipur-492001 Chhattisgarh
6.	Mission Director Member-Secretary, GSUDA, 6th Floor, Shramashakti Bhavan ,Pattoo Plaza,Panaji-403001
7.	Mission Director Gujarat Urban Livelihood Mission, G.M.F.B Building Nigam Area, Sector 10 A,Gandhinagar-382010
8.	Special Secretary-cum-Mission Director State Urban Development Agency, SCO No.20, 1st Floor, Sector 7 C, Madhya Marg,Chandigarh-160019
9.	Director Urban Development Department, Palika Bhavan,Talland,Shimla-171002
10.	Director Housing & Urban Development Department, Room No 3/9,Civil Secretariat,Jammu-181001
11.	Mission Director Directorate of Municipal Administration Room No 342,HEC Project Building, Ranchi-834002
12.	Director Directorate of Municipal Administration, 9th Floor, Vishveshwaraiah Towers,

	Dr BR Ambedkar Road-Bangaluru-560001
13.	Executive Director State Poverty Eradication Mission, 2nd Floor, TRDA Rehabilitation, Chalakuzhy Road,Thiruvananthapuram-695011
14.	Commissioner/CEO Directorate of Urban Administration & Development Department,Palika Bhavan, 6 No. Bus Stop,Shivaji Nagar,Bhopal-462016
15.	Principal Secretary Directorate of Municipal Administration, Government Transport Service Building, Sir Pochakhanwala Road, Worli,Mumbai-400030
16.	State Mission Director (SULM), Deputy Secretary Manipur Urban Development Agency, PDA Complex,North of AOC,Imphal-795001
17.	Director Meghalaya Urban Development Agency, Raitong Building,Secretariat Hills, Shillong-793001
18.	Director Urban Development & Poverty Alleviation Department, Thakthing Tlang,Aizwal-796001
19.	Project Director (NULM) Urban Development & Poverty Alleviation Department, Thakthing Tlang,Aizwal-796001
20.	Joint Director State Urban Development Agency, Nagaland,Kohima-797004
21.	Mission Director Housing & UD Department, Odhisha Secretariat,Bhubaneswar-751001
22.	Director State Urban Development Agency, SCO 131-132,Sector 17C,Juneja Building, Chandigarh-160017
23.	Director Local Bodies Department, G3 Raj Mahal, Residency Palace Area, 2nd Godown,Near Civil Line Phatak, ,Jaipur-302015

List of State Urban Development Department

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26.	Director Urban Development Department, 3rd Floor, Khadya Bhavan, Pandit Nehru Complex, Agartala-799001
27.	Director Urban Development Directorate, 43/6 Mata Mandir Marg, Dharampur, Dehradun-248001
28.	Director State Urban Development Agency, Nav Chetna Kendra, 10, Ashoka Marg, Lucknow-226001
29.	Director State Urban Development Agency, H Block, Sector 3 Salt Lake, ILGUS Bhavan, Bidhan Nagar, Kolkata- 700106
30.	Joint Secretary Urban Development, A&N Administration, Port Blair-744101
31.	Joint Commissioner Municipal Corporation of Chandigarh, Room No.202, Sector 17, New Delux Building , Municipal Corporation, Chandigarh- 160017
32.	Joint Secretary Urban Development Department, Administration of Dadra & Nagar Haveli, U.T., Silvassa-396220
33.	Collector Collectorate Dholar Modi Daman-396220
34.	Special Secretary Urban Development, A Wing, 10th Level Room 1004, Delhi Secretariat, IP Estate, New Delhi-110002
35.	Project Director Pondicherry Urban Development Agency, No.16 Suffren, Puducherry-605001

36.	Collector- cum Development Commissioner Kavaratti-682555
37.	UD & Housing Department, Gangtok-737101 Sikkim

List of Health Department

1.	Principal Secretary (H&FW), Department of Health & family Welfare Government of Bihar, Vikas Bhawan, New Secretariat, Patna - 800 015 Bihar
2.	Secretary (H&FW) Department of Health & Family Welfare, Government of Chhattisgarh, R. N. S4-10, Maha Nadi Bhawan Mantralaya, Atal Nagar-492002 Chhattisgarh
3.	Secretary (H&FW) Department of Health & Family welfare Government of Jharkhand Nepal House, Doranda, Ranchi- 834002. Jharkhand.
4.	Principal Secretary (H&FW), Department of Health & Family welfare Government of Madhya Pradesh, 4th Floor, Annexe-III, New Mantralaya Arera Hills, Bhopal-462 004, Madhya Pradesh
5.	Addl. Chief Secretary (Medical H&FW), Department of Health&Family Welfare, Government of Rajasthan, Room No. 5208, Govt. Secretariat, Main Building, Jaipur-302005, Rajasthan
6.	Commissioner Cum Secretary (H&FW), Department of Health & Family Welfare, Government of Odisha, Secretariat Building, Bhubaneswar -751 001, Odisha
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	001, Uttar Pradesh
8.	Secretary (Medical, H&FW), Government of Uttarakhand Room No. 301, Vishwakarma Building Uttarakhand Secretariat, 4 B , Subhash Road, Dehradun, Uttarakhand -248001
9.	Secretary (Medical HFW) Department of Health & Family Welfare Govt. of Jammu & Kashmir, Room No. 108 Civil Secretariat Srinagar -180001
10.	Addl Chief Secretary (H&FW) Department of Health & Family Welfare, Govt of Himachal Pradesh Room No 419 HP secretariat, Govt of Himachal Pradesh, Shimla- 171002, H.P
11.	Principal Secretary (H&FW) Department of Health & Family Welfare Govt. of Assam, C.M Block 3rd Floor Assam Secretariat, Dispur, Guwahati, Assam - 781006
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13.	Principal Secretary (H&FW) Department of Health & Family Welfare, Room 233, Manipur Secretariat, South Block , Imphal - 795 001 . Manipur
14.	Addl. Chief Secretary (H&FW) Department of Health & Family Welfare, R.N. 201, Addatinal Building, Shillong- 793 001, Meghalaya
15.	Commissioner & Secretary (H&FW)

List of Health Department

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16.	Principal Secretary (H&FW) Department of Health & Family Welfare, Government of Nagaland, Nagaland Civil Secretariat Kohima- 797001, Nagaland
17.	Secretary (H&FW), Department of Health & Family Welfare, Government of Tripura, Secretariat, New Capital Complex, P.O- Kunjban , Agartala- 799006 (Tripura)
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19.	Special Chief Secretary (Medical H&FW) & Mission Director (NHM) incharge Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Block Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP
20.	Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat, Hyderabad-500022
21.	Secretary (H&FW), Department of Health & Family Welfare Government of Goa, Ministrial Block CM Office Secretariat, Porvorim, Goa - 403521
22.	Commissioner & Principal Secretary (Public H&FW) Department of Health & Family

	Welfare Government of Gujarat, Block No 5, 1st Floor old Sachiwalay. Dr. Jivraj Mehta Bhavan, Sector No.10, Gandhinagar-Gujarat 382010
23.	Addl. Chief Secretary (H&FW) Department of Health & Family Welfare, Government of Haryana, R.No. 41, 7th Floor, Haryana Secretariat Building, Sec-1, Chandigarh - 160001
24.	Principal Secretary (H&FW), Department Health and Family Welfare Government of Karnataka Room No. 104 1st Floor, Vikas Souda, Bangalore-560001, Karnataka
25.	Addl. Chief Secretary (H&FW) Department of Health & Family Welfare, Government of Kerala, Room No- 656, South Block, 6th Floor Government Secretariat Building, Thiruvananthapuram-695001, Kerala
26.	Principal Secretary, (Public H&FW) Department of Health & Family Welfare Government of Maharashtra, 10th Floor, B Wing GT Hospital Complex Building Mumbai - 400001, Maharashtra
27.	Addl. Chief Secretary (H&FW), Department of Health & Family Welfare Government of Punjab, R. No. 314, 3th Floor, Mini Secretariat Punjab, Sector 9, Chandigarh, Punjab- 160009
28.	Secretary (H&FW) Department of Health & Family Welfare Government of Tamilnadu, 4th Floor, Fort St. George,

List of Health Department

	Secretariat, Chennai - 600009, Tamil Nadu
29.	Addl. Chief Secretary (H&FW), Department of Health & Family Welfare Government of West Bengal, Swasthya Bhawan, 4th Floor, 'B' Wing, GN- 29, Sector- V, Bidhan Nagar, Kolkata - 700091, West Bengal.
30.	Principal Secretary (H&FW), Department of Health & Family Welfare, Government of Andaman & Nicobar Island Andaman & Nicobar Administration, Secretariat, Port Blair- 744101 Andaman & Nicobar Island
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32.	Secretary (H&FW) Department of Health & Family Welfare Government of Daman & Diu Dadar & Nagar Haveli Secretariat UT Daman & Diu Dadar & Nagar Haveli Silvassa - 396230,
33.	Secretary (H&FW), Department of Health & Family Welfare, Government of NCT of Delhi, Room No. A-907, A Wing, 9th Level, Delhi Secretariat, O.P. Estate, New Delhi - 110002
34.	Secretary (H&FW), Department of Health & Family Welfare Government of Lakshadweep, UT of Lakshadweep, Kavaratti - 682555, Lakshadweep
35.	Secretary (H&FW) Department of Health & Family Welfare Government of Puducherry, Chief Secretariat, Government of Puducherry

Puducherry - 605 001

Revision 1:

**Guidelines for Handling, Treatment and Disposal of Waste Generated during
Treatment/Diagnosis/ Quarantine of COVID-19 Patients**

25th March, 2020

(In suppression earlier guidelines upload at CPCB website on 19/03/2020)



Central Pollution Control Board

(Ministry of Environment, Forest & Climate Change)

Parivesh Bhawan, East Arjun Nagar

Delhi – 110032

Guidelines for Handling, Treatment, and Disposal of Waste Generated during Treatment/Diagnosis/ Quarantine of COVID-19 Patients – Rev. 1

In order to deal with COVID-19 pandemic, State and Central Governments have initiated various steps, which include setting up of quarantine centers/camps, Isolation wards, sample collection centers and laboratories.

Following specific guidelines for management of waste generated during diagnostics and treatment of COVID-19 suspected / confirmed patients, are required to be followed by all the stakeholders including isolation wards, quarantine centers, sample collection centers, laboratories, ULBs and common biomedical waste treatment and disposal facilities, in addition to existing practices under BMW Management Rules, 2016.

These guidelines are based on current knowledge on COVID-19 and existing practices in management of infectious waste generated in hospitals while treating viral and other contagious diseases like HIV, H1N1, etc. These guidelines will be updated if need arises. This Revision-1 of guidelines is done mainly to incorporate specific requirements and responsibilities of persons operating quarantine camps or caretakers of quarantine homes/home-care units and also the responsibilities of Urban Local Bodies (ULBs) at sections (c) and (f) respectively. Specific provisions are also incorporated for States not having common CBWTFs and for allowing hazardous waste incinerators to dispose COVID-19 waste.

Guidelines brought out by WHO, MoH&FW, ICMR, CDC and other concerned agencies from time to time may also be referred.

Guidelines for handling, treatment and disposal of COVID-19 waste at Healthcare Facilities, Quarantine Camps/ Quarantine-homes/ Home-care, Sample Collection Centers, Laboratories, SPCBs/PCCs, ULBs and CBWTFs is give below;

(a) COVID-19 Isolation wards:

Healthcare Facilities having isolation wards for COVID-19 patients need to follow these steps to ensure safe handling and disposal of biomedical waste generated during treatment;

- Keep separate color coded bins/bags/containers in wards and maintain proper segregation of waste as per BMWM Rules, 2016 as amended and CPCB guidelines for implementation of BMW Management Rules.
- 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;
- Collect and store biomedical waste separately prior to handing over the same CBWTF. Use a dedicated collection bin labelled as “COVID-19” to store COVID-19 waste and keep separately in temporary storage room prior to handing over to authorized staff of CBWTF. Biomedical waste collected in such isolation wards can also be lifted directly from ward into CBWTF collection van.
- In addition to mandatory labelling, bags/containers used for collecting biomedical waste from COVID-19 wards, should be labelled as “COVID-19 Waste”. This marking would enable CBWTFs to identify the waste easily for priority treatment and disposal immediately upon the receipt.
- General waste not having contamination should be disposed as solid waste as per SWM Rules, 2016;

Guidelines for Handling, Treatment, and Disposal of Waste Generated during Treatment/Diagnosis/ Quarantine of COVID-19 Patients – Rev. 1

- Maintain separate record of waste generated from COVID-19 isolation wards
- Use dedicated trolleys and collection bins in COVID-19 isolation wards. A label “COVID-19 Waste” to be pasted on these items also.
- The (inner and outer) surface of containers/bins/trolleys used for storage of COVID-19 waste should be disinfected with 1% sodium hypochlorite solution daily.
- Report opening or operation of COVID-19 ward and COVID ICU ward to SPCBs and respective CBWTF located in the area.
- Depute dedicated sanitation workers separately for biomedical waste and general solid waste so that waste can be collected and transferred timely to temporary waste storage area.

(b) Sample Collection Centers and Laboratories for COVID-19 suspected patients

Report opening or operation of COVID-19 sample collection centers and laboratories to concerned SPCB. Guidelines given at section (a) for isolation wards should be applied suitably in in case of test centers and laboratories also.

(c) Responsibilities of persons operating Quarantine Camps/Homes or Home-Care facilities*

Less quantity of biomedical waste is expected from quarantine Camps / Quarantine Home/ Home-care facilities. However, the persons responsible for operating quarantine camps/centers/home-care for suspected COVID-19 persons need to follow the below mentioned steps to ensure safe handling and disposal of waste;

- General solid waste (household waste) generated from quarantine centers or camps should be handed over to waste collector identified by Urban Local Bodies or as per the prevailing local method of disposing general solid waste.
- Biomedical waste if any generated from quarantine centers/camps should be collected separately in yellow colored bags (suitable for biomedical waste collection) provided by ULBs. These bags can be placed in separate and dedicated dust-bins of appropriate size.
- Persons operating Quarantine camps/centers should call the CBWTF operator to collect biomedical waste as and when it gets generated. Contact details of CBWTFs would be available with Local Authorities.
- Persons taking care of quarantine home / Home-care should deposit biomedical waste if any generated from suspected or recovered COVID-19 patients, by following any of the following methods as may be arranged by ULBs;
 - Hand over the yellow bags containing biomedical waste to authorized waste collectors at door steps engaged by local bodies; or
 - Deposit biomedical waste in yellow bags at designated deposition Centers established by ULBs. The bag again be stored in yellow bag or container; or
 - Handover the biomedical waste to waste collector engaged by CBWTF operator at the doorstep.

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- Persons operating Quarantine camps/centers or Quarantine-homes/Home-care should report to ULBs in case of any difficulty in getting the services for disposal of solid waste or biomedical waste.

Clarifications:

- Quarantine Camps / Quarantine-Home / Home-care are the places where suspected people or the contacts of suspected / confirmed cases who have been directed by authorised hospitals or local authorities to stay at home for at least 14 days for observation for any symptom of COVID-19, if any.
- Patients positive for COVID-19 will not be treated at Quarantine Camps / Quarantine-Home / Home-care unless such situation is notified by the State/Central Governments.
- Biomedical waste at Quarantine Camps / Home-care will comprise of used syringes, date expired or discarded medicines, used masks/gloves and in case of patients with other chronic diseases may also include drain bags, urine bags, body fluid or blood soaked tissues/cotton, empty ampules etc.
- Biomedical waste generated from Quarantine Camps / Quarantine-Home / Home-care would be treated as 'domestic hazardous waste' as defined under Solid Waste Management Rules, 2016, and shall be disposed as per provisions under Biomedical Waste Management Rules, 2016 and these guidelines.
- General waste from Quarantine Camps / Quarantine-Home / Home-care shall be disposed as Solid waste as per provisions under SWM Rules, 2016.

[*Amended in Rev. 1 of guidelines dated 24/03/2020]

(d) Duties of Common Biomedical Waste Treatment Facility (CBWTF):

- Report to SPCBs/PCCs about receiving of waste from COVID-19 isolation wards / Quarantine Camps / Quarantined homes / COVID-19 Testing Centers;
- Operator of CBWTF shall ensure regular sanitization of workers involved in handling and collection of biomedical waste;
- Workers shall be provided with adequate PPEs including three layer masks, splash proof aprons/gowns, nitrile gloves, gum boots and safety goggles;
- Use dedicated vehicle to collect COVID-19 ward waste. It is not necessary to place separate label on such vehicles;
- Vehicle should be sanitized with sodium hypochlorite or any appropriate chemical disinfectant after every trip.
- COVID-19 waste should be disposed-off immediately upon receipt at facility.
- In case it is required to treat and dispose more quantity of biomedical waste generated from COVID-19 treatment, CBWTF may operate their facilities for extra hours, by giving information to SPCBs/PCCs.
- Operator of CBWTF shall maintain separate record for collection, treatment and disposal of COVID-19 waste.

**Guidelines for Handling, Treatment, and Disposal of Waste Generated during
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- Do not allow any worker showing symptoms of illness to work at the facility. May provide adequate leave to such workers and by protecting their salary.

(e) Duties of SPCBs/PCCs

- Shall maintain records of COVID-19 treatment wards / quarantine centers / quarantines homes in respective States.
- Ensure proper collection and disposal of biomedical waste as per BMW Rules, 2016 and SoPS given in this guidance document;
- Allow CBWTFs to operate for extra hours as per requirement;
- May not insist on authorisation of quarantine camps as such facilities does not qualify as health facilities. However, may allow CBWTFs to collect biomedical waste as and when required;
- In case of States not having CBWTFs as well as rural or remote areas, not having access to CBWTFs, the existing captive facilities of any hospital may be identified for disposal of COVID-19 waste as per provisions under BMW Rules, 2016 and these guidelines.
- Coordinate with CBWTFs and ULBs in establishing adequate collection and disposal of COVID-19 waste.
- In case of generation of large volume of yellow color coded (incinerable) COVID-19 waste, permit HW incinerators at existing TSDFs to incinerate the same by ensuring separate arrangement for handling and waste feeding.

(f) Duties of Urban Local Bodies +

Urban Local Bodies are responsible for ensuring safe collection and disposal of biomedical waste, if any, generated from Quarantine Camps/ Quarantine Homes/ Home Care for COVID-19 suspected persons.

- Information on each Quarantine Camps/ Quarantine Homes/ Home-Care should be available with local administration and provide updated list to SPCBs from time to time;
- In case of quarantine camps, ensure that biomedical waste is collected directly by CBWTFs identified by ULB. Waste from quarantine camps to be lifted by CBWTFs on call basis as and when the biomedical waste gets generated. Provide contact details of CBWTF operator at Quarantine Camps;
- Provide necessary support, security including authorisation to staff of CBWTFs;
- ULB shall engage CBWTF operator for ultimate disposal of biomedical waste collected from quarantine home/home care or waste deposition centers or from door steps as may be required depending on local situation; ULB shall make agreement with CBWTF in this regard.
- ULBs envisage following options to facilitate safe collection and disposal of biomedical waste from quarantined homes/Home care;
 - a) Engage authorized waste collectors for door steps collection of biomedical waste and transfer to collection points for further pick-up by CBWTF; and/or
 - b) In case number of quarantined homes/Home-care units are less, ULBs may engage services of CBWTFs to collect the waste directly from door-steps.

**Guidelines for Handling, Treatment, and Disposal of Waste Generated during
Treatment/Diagnosis/ Quarantine of COVID-19 Patients – Rev. 1**

- Provide yellow colored bags (designated for BMW) to the persons responsible for operating Quarantine Camp or home-care. If required, such bags may be provided through CBWTF.
- ULBs shall ensure the following in engaging authorized waste collectors at door-steps or at waste deposition centers;
 - Create a separate team of workers who shall be engaged in door step waste collection at waste deposition centres or at quarantine homes or home care.
 - Ensure that only designated staff collects biomedical waste from quarantine homes or home care.
 - Training should be provided for sanitization, about collection of biomedical waste, precautionary measures to handle biomedical waste.
 - Impart training to waste collector in handling of biomedical waste including methods of sanitization. Training to waste collectors should be arranged through CBWTF operators;
 - The staff involved in handling and collection of waste from quarantine homes or home care centers shall be provided with adequate Personnel Protective Equipment such as three layer masks, splash proof aprons/gowns, heavy-duty gloves, gum boots and safety goggles. These PPEs are required to be worn all the time while collecting of waste from quarantine center/quarantine homes/home care/waste deposition centres.
 - Use dedicated carts / trolleys / vehicles for transport of biomedical waste. Ensure sanitization of vehicles with 1% hypochlorite after each trip.
 - Ensure that, waste collectors arriving at quarantine center or at home care shall spray the disinfectant (1% hypochlorite solution) on the bin used for yellow bag.
- Establish common waste deposition centers (as stipulated under SWM Rules, 2016) for receiving / collection of biomedical waste. For this purpose, existing Dhalaos if any may be converted suitably.
- The general solid waste collected from quarantine homes or home care shall be disposed off as per SWM Rules, 2016.
- Services of Common Biomedical Waste Treatment & Disposal Facilities (CBWTFs) and staff associated with CBWTFs for collection, transportation, treatment and disposal of biomedical waste generated from hospitals including COVID-19 isolation wards, Quarantine Camps, etc. may be considered an essential service as part of health infrastructure.
- Facilitate smooth operations of CBWTFs.

[* Inserted in Rev. 1 of guidelines dated 24/03/2020]
