Central Pollution Control Board

(Ministry of Environment, Forest and Climate Change, Gol)
Parivesh Bhawan, East Arjun Nagar, Delhi 110032

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

April 19, 2020

By E-mail 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 2 dated 18/04/2020– reg.

Issued by

(Prashant Gargava) Member Secretary

Encl.: As above

<u>List of Ministries/Departments</u>

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 No8, '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

 The Member Secretary Telangana Pollution Control Board Paryavaran Bhawan, A-III Institutional Estate, Sanathnagar Hyderabad - 500018. 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 The Member Secretary Arunachal Pradesh Pollution Control Board Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papu
Paryavaran Bhawan, A-III Institutional Estate, Sanathnagar Hyderabad - 500018. 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 The Member Secretary Arunachal Pradesh Pollution Control Board Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papu
Institutional Estate, Sanathnagar Hyderabad - 500018. 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 3. The Member Secretary Arunachal Pradesh Pollution Control Board Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papu
Hyderabad - 500018. 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 3. The Member Secretary Arunachal Pradesh Pollution Control Board Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papu
 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 The Member Secretary Arunachal Pradesh Pollution Control Board Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papu
Andhra Pradesh Pollution Control Board D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada - 520 010 3. The Member Secretary Arunachal Pradesh Pollution Control Board Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papu
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Hospital, Pushpa Hotel Centre, Chalamvari Street, Kasturibaipet, Vijayawada - 520 010 3. The Member Secretary Arunachal Pradesh Pollution Control Board Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papu
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Board Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papu
Department of Environment & Forests, Paryavaran Bhawan, Yupia Road, Papu
Paryavaran Bhawan, Yupia Road, Papu
Nalah, Naharlagun- 791110
4. The Member Secretary
Assam Pollution Control Board
Bamunimaiden, Guwahati - 781 021
5. The Member Secretary
Bihar Pollution Control Board
Parivesh Bhawan, Plot No. NS-B/2
Patliputra Industrial Area,
Patliputra, Patna (Bihar)-800023
6. The Member Secretary
Chhattisgarh Environment Conservation
Board Paryavas Bhawan, North Block
Sector-19, Naya Raipur (C.G.)- 492002
7.
The Member Secretary
Goa Pollution Control Board
Opp. Saligao Seminary,
Saligao - Bardez Goa - 403511
Suigus Suigus Sou Hossii
8. The Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhawan, Sector 10-A,
Gandhi Nagar - 382010
Gandin Hagai - 302010
9. The Member Secretary
Haryana Pollution Control Board
C-11, Sector-6 Panchkula
Haryana-134 109
10. The Member Secretary
Himachal Pradesh Pollution Control
Board
Paryavaran Bhawan, Phase-III, Below
BCS,
New Shimla - 171 009.

11.	The Member Secretary Shiekh-ul-Campus,
	behind Govt. Silk Factory, Raj Bagh, Srinagar(J&K)
12.	The Member Secretary Jharkhand State Pollution Control Board T.A. Building, HEC, P.O. Dhurwa, Ranchi-834 004
13.	The Member Secretary Karnataka State Pollution Control Board "Parisara Bhavan", #49, 4th & 5th Floor, Church Street, Bangalore-560001
14.	The Member Secretary Kerala Pollution Control Board Pattom Palace, P.O. Thiruvanathapuram - 695 004
15.	The Member Secretary Maharashtra Pollution Control Board Kalptaru Point, 2nd - 4thfloor, Opp. Cine Planet, Sion Circle, Sion (E), Mumbai - 400 022
16.	The Member Secretary Madhya Pradesh Pollution Control Board Paryavaran Parisar, Sector E-5, Arera Colony, Bhopal - 462 016
17.	The Member Secretary Manipur Pollution Control Board Near Imphal West D.C. Office Complex, Lamphelpat, Imphal - 795 004.
18.	The Member Secretary Meghalaya Pollution Control Board Arden, Lumpyngngad, Shillong - 793 014
19.	The Member Secretary Mizoram Pollution Control Board New Secretariat Complex, Khatla, Aizawl, Mizoram - 796001
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
27.	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
27.	
	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
	Paribesh Bhawan, 10A, Block- LA, Sector
	III, Salt Lake City, Calcutta- 700106
30.	The Member Secretary
30.	
	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
٫٫٫۰	
	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
ارد	Puducherry Pollution Control Committee
	Department of Science, Technology and
	Environment IIIrd floor, PHB Building, 5,
1	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 Director & CEO
5.	
	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
J .	Urban Development Department,
	Palika Bhavan, Talland, Shimla-171002
4.0	
10.	
	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,
	ran reser, risitresimulaturali lomeis,

	Dr BR Ambedkar Road-Bangaluru- 560001
13	Executive Director
13.	State Poverty Eradication Mission,
	2nd Floor, TRIDA Rehabilitation,
	Chalakuzhy
	Road, Thiruvananthapuram - 695011
14.	Commissioner/CEO Directorate of Urban Administration
	& Development
	Department, Paliika Bhavan,
	6 No. Bus Stop, Shivaji Nagar, Bhopal-
	462016
15.	'
	Directorate of Municipal
	Administration,
	Government Transport Service
	Building,
	Sir Pochakhanwala Road,
	Worli, Mumbai-400030
16.	, , , ,
	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.	
	Urban Development & Poverty
	Alleviation Department,
	Thakthing Tlang, Aizwal-796001
19.	
	Urban Development & Poverty
	Alleviation Department,
	Thakthing Tlang, Aizwal-796001
20.	
	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

	Chasial Cogretany
24.	Special Secretary
	Municipal Administration,
	6 Floor Ehilagam Annex Municipal
	Administration,
	Chepauk, Chennai-600005
25.	Mission Director
	MA & UD Department,3rd Floor,
	E N C Complex, A.C Guards,
26.	Lakdipool,Hyderabad-500004 Director
26.	
	Urban Development Department, 3rd Floor, Khadya Bhavan,Pandit
	Nehru Complex,
	Agartala-799001
27	Director
27.	Urban Development Directorate,
	43/6 Mata Mandir Marg, Dharampur,
	Dehradun-248001
28.	
20.	State Urban Development Agency,
	Nav Chetna Kendra, 10, Ashoka Marg,
	Lucknow-226001
29	Director
25.	State Urban Development Agency,
	H Block, Sector 3 Salt Lake,
	ILGUS Bhavan,Bidhan Nagar,Kolkata-
	700106
30.	
	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.	
	Urban Development Department,
	Administration of Dadra & Nagar
	Haveli,
	U.T.,Silvassa-396220
33.	
	Collectorae Dholar Modi
	Daman-396220
34.	
	Urban Development,
	A Wing, 10th Level Room 1004,
	Delhi Secretariat, IP Estate,New
	Delhi-110002
35.	
	Pondicherry Urban Development
	Agency,
	No.16 Suffren,Puducherry-605001

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

List of Health Department

1.	Principal Secretary (H&FW),
	Department of Health & family
	Wefare
	Government of Bihar,
	Vikas Bhawan, New Secretariat, Patna - 800 015 Bihar
2.	Secretary (H&FW)
2.	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,
	Bhubaneshwar -751 001, Odisha
7.	Shri Prashant Trivedi
	Principal Secretary (H&FW),
,	Department of Health & Family Welfare,
1	Government of Uttar Pradesh,
	5th floor, Room No. 516, Vikas
	Bhawan,
	Janpath Market, Vidhan Sabha
	Road, Hazrat Ganj Lucknow - 226
	, at bany machiners and

	001, Uttar Pradesh
	,
8.	Šecretary (Medical, H&FW),
٥.	Government of Uttarakhand
	Room No. 301, Vishawakarma
	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,
11.	Shimla- 171002, H.P Principal Secretary (H&FW)
11.	Department of Health & Family
	Welfare
	Govt. of Assam, C.M Block 3rd
	Floor
	Assam Secretariat, Dispur,
	Guwahati,
	Assam - 781006
12.	C (115 EV)
	Commissioner (H&FW)
	Government of Arunachal Pradesh, Civil Secretariat Building Block No
	2
	Unit No 5, 3rd Floor,
	District Papumpare, Ita Nagar-
	791111
	Arunachal Pradesh
13.	
	Principal Secretary (H&FW)
	Department of Health & Family
	Welfare,
	Room 233, Manipur Secretariat,
	South
14.	Block , Imphal - 795 001 . Manipur Addl. Chief Secretary (H&FW)
14.	Department of Health & Family
	Welfare,
	R.N. 201, Addational Building,
	Shillong- 793 001, Meghalaya
15.	Commissioner & Secretary (H&FW)

List of Health Department

	Department Health & Family
	Welfare, Government of Mizoram, Room
	No.205
	Mizoram New Secretariat,
	Aizawl - 796001 Mizoram
16.	Principal Secretary (H&FW)
10.	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)
18.	Commissioner-cum-Secretary
	(H&FW)
	Department of Health & Family
	Welfare,
	Government of Sikkim,
	Tashiling,
	Gangtok - 737101, Sikkim
19.	Special Chief Secretary (Medical
	H&FW) &
	Mission Director (NHM) incharge
	Mission Director (NHM) incharge Department of Medical Health &
	Department of Medical Health & Family Welfare Government of Andhra Pradesh,
	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor
	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate
	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP
20.	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW)
20.	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health &
20.	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare
20.	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana,
20.	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block
20.	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat,
	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat, Hyderabad-500022
20.	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat, Hyderabad-500022 Secretary (H&FW),
	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat, Hyderabad-500022 Secretary (H&FW), Department of Health & Family
	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat, Hyderabad-500022 Secretary (H&FW), Department of Health & Family Welfare
	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat, Hyderabad-500022 Secretary (H&FW), Department of Health & Family Welfare Government of Goa,
	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat, Hyderabad-500022 Secretary (H&FW), Department of Health & Family Welfare Government of Goa, Ministrial Block CM Office
	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat, Hyderabad-500022 Secretary (H&FW), Department of Health & Family Welfare Government of Goa, Ministrial Block CM Office Secretariat, Porvorim,
21.	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat, Hyderabad-500022 Secretary (H&FW), Department of Health & Family Welfare Government of Goa, Ministrial Block CM Office Secretariat, Porvorim, Goa - 403521
	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat, Hyderabad-500022 Secretary (H&FW), Department of Health & Family Welfare Government of Goa, Ministrial Block CM Office Secretariat, Porvorim, Goa - 403521 Commissioner & Principal Secretary
21.	Department of Medical Health & Family Welfare Government of Andhra Pradesh, 5th Bolck Ground Floor Room No. 157, AP Secretariate Velagapudi Amaravathi -522503 -AP Principal Secretary (Medical H&FW) Department of Medical Health & Family Welfare Government of Telangana, Room No. 315, D- Block Telangana Secretariat, Hyderabad-500022 Secretary (H&FW), Department of Health & Family Welfare Government of Goa, Ministrial Block CM Office Secretariat, Porvorim, Goa - 403521

	1 16
	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)
25.	Department of Health & Family
	Welfare,
	Government of Haryana,
	R.No. 41, 7th Floor,
	Haryana Secretariat Buildind,
	Sec-1, Chandigarh - 160001
24.	Principal Secretary (H&FW),
24.	Department Health and Family
	Welfare
	Government of Karnataka
	Room No. 104 Ist 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. Cheif 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. Cheif 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),
30.	Department of Health & Family
	Welfare,
	Government of Andaman & Nicobar
	Island Andaman & Nicobar
	Administration,
	Secretariat, Port Blair- 744101
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Revision 2:

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

18th April, 2020

[In suppression of earlier guidelines uploaded at CPCB website on 25/03/2020. Text pertaining to additional information is underlined]



Central Pollution Control Board

(Ministry of Environment, Forest & Climate Change)
Parivesh Bhawan, East Arjun Nagar
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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-2 of guidelines is mainly to incorporate specific requirements and responsibilities of persons operating sewage treatment plants at Healthcare Facilities and to clarify on management of general waste from quarantine homes and masks/gloves from other households.

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: (isolation wards are those where COVID-19 positive patients are being kept for treatment / diagnosis)

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.

- 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.
- Feces from COVID-19 confirmed patient, who is unable to use toilets and excreta is collected in diaper, must be treated as biomedical waste and should be placed in yellow bag/container.
 However, if a bedpan is used, then faeces to be washed into toilet and cleaned with a neutral detergent and water, disinfected with a 0.5% chlorine solution, then rinsed with clean water.
- Collect used PPEs such as goggles, face-shield, splash proof apron, Plastic Coverall, Hazmet suit, nitrile gloves into Red bag; a²
- Collect used masks (including triple layer mask, N95 mask, etc.), head cover/cap, shoe-cover, disposable linen Gown, non-plastic or semi-plastic coverall in Yellow bags. a³

[a1 to a3 Inserted in Rev. 2 of guidelines dated 18/04/2020]

(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. Pre-treat viral transport media, plastic vials, vacutainers, eppendorf tubes, plastic cryovials, pipette tips as per BMWM Rules, 2016 and collect in Red bags.^{b1}

[b1 Inserted in Rev. 2 of guidelines dated 18/04/2020]

(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.
- 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 are the places where suspected people or the contacts
 of suspected / confirmed cases who have been directed by authorized hospitals or local
 authorities to stay at home for at least 14 days or more for observation for any symptom of
 COVID-19, if any.
- Homecare Home care facility is a home where care is to be provided to a COVID-19 positive patient at home. ^{C1}
- Biomedical waste at Quarantine Camps / Home-care may also 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
- Used masks and gloves generated form home quarantine or other households should be kept in paper bag for a minimum of 72 hours prior to disposal of the same as general waste. It is advisable to cut the masks prior to disposal to prevent reuse.^{c2}

[*Amended in Rev. 1 of guidelines dated 25/03/2020] [c1 and c2 Amended in Rev. 2 of guidelines dated 18/04/2020]

[c2: Criteria for 72 hours is as per CDC guidelines for Decontamination and Reuse of Filtering Facepiece Respirators]

(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.
- 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 BMWM Rules, 2016 and these guidelines. This may include permitting use of deep burial pits for disposal of yellow category waste as per standards prescribed in Schedule II of Bio-medical Waste Management Rules, 2016.g1
- Coordinate with CBWTFs and ULBs in establishing adequate facilities for 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.

[e¹Amended in Rev. 2 of guidelines dated 18/04/2020]

(f) Duties of Urban Local Bodies +

Urban Local Bodies are responsible for ensuring safe collection and disposal of biomedical waste, if any, generated form 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.
- 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.
- Local agencies / ULBs may take additional measures considering prevailing ground situations and feasibility, however while implementing such measures requirements outlined in these guidelines should be complied.^{f1}

[+Inserted in Rev. 1 of guidelines dated 25/03/2020] [f1 Amended in Rev. 2 of guidelines dated 18/04/2020]

(g) Management of wastewater from HCFs / Isolation Wards **

As per the information available at CDC, the risk of transmission of virus that causes COVID-19 through sewerage systems is thought to be low. Transmission to operators may be possible during treatment of sewage treatment plants, however there is no evidence to date that this has occurred. Therefore, following guidance recommended for HCFs and the operators of STPs;

- Responsible agencies are Healthcare Facilities / Isolation Wards / operators of terminal sewage treatment plants (PHED/Jal Board/etc.).
- HCFs and the agencies operating Sewage Treatment Plants should continue to ensure disinfection of treated wastewater as per prevailing practices to inactivate coronaviruses.
- Operators of ETPs/STPs attached with discharge from Healthcare Facilities and isolation wards should adopt standard operational practices, practice basic hygiene precautions, and wear personal protective equipment (PPE) prescribed for operation of STPs. PPEs should include Goggles, face mask, liquid repellant coveralls, waterproof gloves and Rubber boots.
- During the period of COVID-19 pandemic, utilization of treated wastewater in utilities within HCFs may be avoided.

[++inserted in Rev. 2 of guidelines dated 18/04/2020]
