

ASSAM STATE DISASTER MANAGEMENT AUTHORITY

ADVISORY ON DISPOSAL OF NON-COVID DEAD BODY DURING COVID-19 PANDEMIC PERIOD

OBJECTIVE:

It has been observed that during prevailing COVID-19 pandemic situation many families have been facing problem in cremation/burial of non-COVID-19 dead bodies due to home isolation protocol and hesitation of the neighbours. Sometimes local community organisations are also seen not supportive for the same reason.

Considering the fact, ASDMA has decided to issue a SOP for disposal of Non-COVID-19 dead bodies during COVID-19 pandemic period to support helpless families.

CHECKLIST FOR NON-COVID DEATH DURING PANDEMIC:

A. IN CASE OF NON-COVID DEATH:

- In case of home isolation the family members have to inform the Emergency Control Room of District administration or ASDMA in toll free no. 1077/1079/1070 for dead body disposal if the case of death is non-COVID and no one from the society is coming for help.
- In case the family members are in isolation at COVID Care Centre (CCC)/ home, the relatives or neighbour has to inform District administration or ASDMA in toll free no. 1077/1079/1070 and nearby police station for dead body disposal.

B. FIRST RESPONDER:

- 1. The family members will be the first responder for the last rites of the deceased body.
- 2. If, family members are in isolation/ live in other part of the country/ no family members then the **community/society/ PRI/local NGOs** has to be the responder for cremation or burial of the deceased body.
- 3. If, above two will not respond within 72 hours after death, the **local** administration/ district administration can respond and cremate/ burry the deceased body after receiving information from any end.

C. SITE FOR BURIAL/CREMATION

1. If, family member or Community or neighbour will do the last rites (maximum number as per SoP) of the deceased body then pre-identified burial or cremation

- ground will be used and follow the waste management guidelines of the Government.
- 2. If, NGOs/ PRI/Administration will carry out the last rites of the body, they have to identify the site for cremation/burial of the body.
- 3. The area for burial/cremation needs to be cordoned with heavy armed police personnel to discourage crowds from gathering.
- 4. Burial/arrangement of firewood to be done well in advance. Labour for the same be handled by the same community that may be locally arranged
- 5. Arranging for co-religious labour well in advance saves a lot of time.
- 6. Advance preparation of the burial ground is advisable.

D. MISCELLANEOUS:

- 1. Keep track of time stamps systematically for later record keeping
- 2. Waste management of post burial need to be disposed in a planned fashion ensuring safety measures
- 3. In case of cremation, mortal remains may be preserved for handing over to the family of the deceased person as the case maybe.
- 4. Proper disposal should be followed as per CPCB guidelines of Bio Medical Waste Management. (Annexure-A)
- 5. The supervising officers must be entrusted with clear cut responsibilities for certifying each and every process.
- If any belongings found with the body at his residence, that may be handed over to the family members or Gaon Buras or the Ward Member concerned with proper acknowledgement

E. FINANCIAL ASSISTANCE:

1. In case of cremation/burial of the body of Non-COVID death after 72 hours by the administration, the district administration can utilise the required amount to perform such cremation from the State Disaster Respond Fund (SDRF).

<u>Guidelines for Monitoring Compliance of Common Biomedical Waste Treatment Facilities by</u> <u>State Pollution Control Boards / Pollution Control Committees</u>

1. Background:

Common Biomedical Waste Treatment Facilities (CBWTFs) are required to function in compliance with standards notified under Biomedical Waste Management Rules, 2016 (BMWM Rules, 2016) and the guidelines issued by Central Pollution Control Board (CPCB). State Pollution Control Boards/Pollution Control Committees are the prescribed authority to ensure implementation of Rules as well as the compliance.

There have been several public complaints regarding open dumping of untreated biomedical waste, burning of waste etc. In one such case, Hon'ble NGT took suo-moto cognizance of illegal disposal of biomedical waste by CBWTFs, in Original Application No. 110 of 2020. In its Order dated 20.07.2020, Hon'ble NGT directed CPCB to prepare separate guidelines to improve monitoring system for Common Biomedical Waste Treatment Facilities. It was also directed that SPCBs shall initiate a special drive to monitor incidents of illegal BMW disposal by CBWTFs.

This guidance document will provide check-lists for monitoring CBWTFs specially to monitor illegal handling of biomedical waste.

2. Monitoring Compliance by CBWTFs

Apart from obtaining Consent to Operate and authorization under BMWM Rules, 2016, the CBWTFs are responsible for environmentally safe handling of biomedical waste in its coverage area. Monitoring of compliance by CBWTFs envisaged in following areas;

- (a) Operational Compliance
- (b) Adequacy of Infrastructure
- (c) Reporting of data
- (d) Inspections and Monitoring

2.1 Operational Compliance

Operational compliance by CBWTFs is related to safe collection, handling, transportation, reception, treatment, and disposal, that include compliance to following activities/aspects;

- (a) Collection
- (b) Use of Personal Protective Equipment (PPEs)
- (c) Transportation of BMW
- (d) Tracking of BMW
- (e) Handling at CBWTFs
- (f) Compliance to norms

Part-A of check-list for auditing performance monitoring operational compliance by SPCBs/PCCs is given at Annexure-I.

SPCBs shall maintain a separate operational check-list for each of the CBWTFs, which should be linked to authorization file. Operational check-list may be updated at the level of Regional Officers of SPCBs once every month.

2.2 Adequacy of Infrastructure

Adequate infrastructure at CBWTFs is essential for achieving compliance to standards and guidelines. Subsequent to notification of BMWM Rules, 2016, most of the CBWTFs in the country are required to upgrade their facilities so as to comply with revised standards. Target time given under the Rules to CPBWTFs has expired.

The following infrastructure is essential for auditing performance of CBWTFs.

- (a) Vehicles
- (b) Area of operations
- (c) Upgradation of Combustion Chamber
- (d) Upgraded APCDs
- (e) Waste reception
- (f) Treated waste handling

Part - B of check-list for auditing adequacy of CBWTFs based on available infrastructure is given at **Annexure-II**. SPCBs shall issue appropriate directions to CBWTFs for augmenting infrastructure in time bound manner and maintain records of progress made.

2.3 Data Submission

Data reporting is an essential requirement on part of CBWTFs to report compliance to Rules and service provided. Such data is essentials for SPCBs and other departments such as Health Department to monitor compliance by CBWTFs. The data is also essential to assess the gaps in waste generation and disposal, trends in generation, compliance monitoring, need for additional facilities or capacity enhancement, etc.

SPCBs shall ensure that records are maintained by CBWTFs as per Part - C check-list given at Annexure III.

2.4 Inspections and Monitoring by SPCBs/PCCs

Periodic inspection of CBWTFs by SPCBs/PCCs is necessary to monitor compliance. SPCBs/PCCs may evolve their own schedule of monitoring and compliance verification, by ensuring the following minimal requirement for inspection and monitoring:

S. No.	Type of inspection and Monitoring	Scope of inspection	Frequency of inspection	
1. Physical Inspection (field visit)		Verification of site conditions, fill-in formats Table-A to C given at Annexures I to Annexure III, logbook verification, OCEMS installation, etc. as per inspection format given at Annexure IV		
2.	Inspection cum Monitoring (field visit)	Physical verification as well as monitoring of incinerator stack, autoclave, shredder, ETP etc. Report outcome as per inspection format given at Annexure IV	4 400 000 000 000 000	

3	Inspection of dumpsites, illegal dumps, outside CBWTF premises, etc (field visit)		At least 4 random visits per Annum as well as when complaints are received.
4	Inspection of BMW collection and transport (field work in transit)		Random spot checks of vehicles and operations for 3 or 4 occasions in a year.
5	Monitoring of GPS Tracking	Desktop monitoring	Daily
6	Monitoring of COVID19BWM Tracking App	Desktop monitoring	Daily monitoring and reporting to CPCB on App
green a	Monitoring of Barcode Tracking	Desktop monitoring	Daily
7	OCEMS Data	Desktop monitoring	Daily
8	Inspection of specific complaints (field work)	Field investigation	As and when necessary

3. Mechanism to Monitor illegal activities pf CBWTFs

There have been several complaints against CBWTFs for improper handling of BMW. The type of complaints range from illegal transfer to informal recyclers, dumping, high emissions from incinerators, discharge of untreated wastewater, improper transport etc. It is important redress such complaints on priority since improper treatment or disposal may result into spread of diseases.

In view of the numerous incidents of violations, especially in COVID19 pandemic situation, SPCBs/PCCs may initiate special drive for monitoring activities of CBWTFs. SPCBs may also implement various measures, essentially including the following activities;

- (i) Develop complaint redressal mechanism through web portal as well as suitable mobile App like Sameer Platform
- (ii) Use social media platform to report incidents
- (iii) Collect local intelligence from field staff
- (iv) Conduct periodic random checks
- (v) Imposition of Environmental Compensation Charges

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Part A: Format for Operational Compliance Verification

Name of Facility:	Status for	(Month)

S.No	Operational Activity	Requirement	Status - Tick √ or X	Remarks/ Action Taken
1	BMW Collection			No.
	a.	Waste generated is collected and disposed within 48 hours.		
	b.	Separate compartments for color coded wastes		
2	Use of PPEs	Waste collectors are required to wear adequate PPEs –including three layer masks, splash proof aprons/gowns, gloves, gum boots and safety goggles. Does workers wearing adequate PPEs		
A distri	11.	?	Mary Control	and the second second
3	Transportation			
	а	Weather dedicated Vehicle used for collection of COVID19 waste?		
	b	Registration of vehicles with SPCBs		
	С	Use of separate dedicated vehicle for COVID19 waste		
4.	Tracking of BMW			
	a	Installation of GPS based devices in vehicles		
	b	GPS based tracking access to SPCBs/PCCs to monitor location or route of vehicles	To My	
	C	Use of COVID19 Tracking App at collection point		
5.	Handling at CBWTFs			
	а	. Separate spaces provided for reception of color coded wastes		
	b	. Space adequate for reception of waste		e j
	(. Space adequate for storage of treated waste	1000	
6.	Compliance to Standards		1	*

S.No	Operational Activity	Requirement	Status - Tick V or X	Remarks/ Action Taken
	a.	Compliance to emission Standards - sample collected by SPCB or its agency	Yes/ No/ Partial	
	b.	Compliance to emission Standards - as per NABL/ EPA accredited laboratory		2
	c.	Compliance to emission Standards - sample collected by SPCB or its agency	ed f	
	d.	Compliance to emission Standards - as per NABL/ EPA accredited laboratory		
	e.	Compliance to Temperature standards		
, 1727 1727 1845 - 25	f.	Compliance to disinfection standards (Autoclave / Microwave)		×

Part B: Format to Assess Adequacy of Infrastructure

Name of Facility:	Status for	(Month)

S.No.	Infrastructure	Requirement	Status - Tick V or X	Remarks/ Action Taken
1	Vehicles			
	a.	Whether the unit has adequate fleet to lift BMW daily from bedded HCFs		
	b.	Dedicated Vehicle provided for COVID19 waste		
2	Area available for CBWTF operations			X (1/2)
	a.	Area of operations is more than 0.5 acres?		
3	Upgradation of Combustion Chamber	and the second s		
	a.	Secondary Combustion Chamber upgraded to 2 sec Retention Time?		
4.	APCDs upgradation			
	a.	Whether APCDs upgraded to meet revised standards for PM?		
	b.	Control systems for Dioxins and Furans Installed?		
6.	Waste Reception		en saattaline	
	a.	Separate spaces provided for receipt of on untreated colour coded BMW		
	b.	Containers used to receive BMW prior to chagrining into incinerator		
7.	Facilities for treated Waste Handling			
	a.	Covered sheds provided for (i) all treatment/disposal equipment, (ii) handling treated/un-treated wastes, (iii) Ash storage, etc.		

Annexure III

Part C: Format to verify data submission by CBWTFs

Name of Facility: Status for (Mont	nth)
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S.No	Records	Requirement	Status - Tick √ or X	Remarks/ Action Taken
1	Daily COVID19 data upload			
		Usage of COVID19BWM Tracking App to report COVID19 waste collection and disposal		
2	Barcode based Tracking data			
	23.415	Implemented Barcode Labelling and tracking System as per BMWM Rules, 2016 – Provided Login and data access to SPOCBs/PCCs	6° 10	
3	Logbook on maintenance			
3		Logbook maintained and shown to SPCBs/PCCs, as when asked for.		
4	Web-site information			
		Displays details of authorization, treatment, annual report etc. on web-site		
5	Annual Report Submission			
18		Whether submitted for previous year?		
6	Reporting of incidents	Incidental reporting of fires, accidents during handling, spillages,		

Annexure IV

Part A - General Information

S.No.	Details		Particulars
1.	Name of CBWTF with contact details	:	
2.	Month / year of establishment and the Consents status	:	Establishment Month/Year :
3.	CBWTF operated by	:	
4.	Contact Details		Contact Person: E-Mail: Telephone: Mobile phone:
5.	Consent under Water (Prevention and Control of Pollution) Act, 1974	:	Consent is valid upto and issued bySPCB/PCC vide letter dated
6.	Consent under Air (Prevention and Control of Pollution) Act, 1981	:	Consent is valid upto and issued bySPCB/PCC vide letter dated
7.	Environmental Clearance (EC)		EC issued by MoEF vide letter dated
8.	Authorization Status	:	Authorisation is valid upto and issued bySPCB/PCC vide letter dated
9.	Area or plot size of CBWTF (in Sq. ft.)	:	
10.	Name of Districts/Cities / places being covered	:	
11.	Cost charged to the healthcare facilities	:	
12.	Separate space for treatment equipment room	:	. □ Yes □ No
13.	Separate space for treated and untreated waste	:	□ Yes □ No

Part-B: Operational Information

S.No.	Details		Particulars	S	
1.	Total number of healthcare	:	Total no. of HCFs :		
	facilities and beds covered		Bedded HCFs :		
	(as on date of visit)		Non-bedded HCFs :		
			No. of Beds :		
			No. of beds upto 75 KM radius	:	
			No. of beds more than 75 KM radiu	us, if any:	

2.	Total Bio-medical Waste Treatment Capacity of CBWTF (in kg / day)	:	Incineration : (in kg/day) Autoclave : (in kg/day) Any other treatment and disp Total: ETP Capacity	
3.	Daily operation schedule (timings)	:	Collection : Am/pm to Treatment through incinerato Treatment through autoclave	r (in hrs):
4.	Average quantity of bio- medical waste Collected As per records (if required, one moth data may be checked)		Non-COVID waste	COVID waste
	Yellow	:	Kg /day	Kg /day
	Red	:	Kg/day	Kg/day
	white	:	Kg/day	Kg/day
	Blue	:	Kg/day	Kg/day
5.	Average quantity of bio- medical waste treated		Non-COVID waste	COVID waste
	As per records (if required, one moth data may be checked)		Party and the state of the stat	
	Yellow	:	Kg /day	Kg /day
100	Red		Kg/day	Kg/day
- 5	white	:	Kg/day	Kg/day
	Blue	:	Kg/day	Kg/day
6.	Information related to Incinerator		Upgraded to 2 second residen Temperature in Primary Cham	ce time
			OCEMS installed: OCEMS connected with CPCB/	o No
	t engage of the control of		Also, daily record of operation checked through OCEMS serve	er for:
2			Temperature in combustion cl	
7.	Type of APCDs attached with incinerator		bed tower; flue gas cool injection (for activated carbon	; spray scrubber; packed ing system; dry chemical / lime / other chemicals) prior
	sur sur			crubber; bag filers; cooling cooling ramic scrubbers; copior to bag filter;
			If any other units please spe	ecify:
8.	Information related to red category waste		Operational parameters for Au	utoclave or Microwave:

hypochlorite) After Sterilization, facility for rinsing and washing of glacontainers Yes No Detergent waste: Yes No Residual chemicals collected: Yes No NA 11. Wastewater management ETP capacity: KLD Quantum of wastewater treated: KLD Final mode of disposal of treated water:				Temperatu	re:						
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category Waste Microwaving				Total quan	tity c	of wa	ste shar	ps tr	eated an	d disposed	d (in K
Hydroclaving By Chemical Disinfection (sodic hypochlorite)	10.	Information related blue		Mode of tr	eatm	nent					
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Analysis Result				FTD C	41.4			-	Here a	150,90	9 82
Result					tiet					7	
All values are in mg/l except ph							// 61/5	+ = ! !			4
				All values	are i	n mg	g/l excep	t pH		_ 4	

17.	No. of Vehicles used for : collection of waste from member HCFs	Number of vehicles used for non-COVID waste collection: Number of vehicles used for COVID-19 waste collection:
18.	Whether Bar code system is adopted or not?	□ Yes □ No

Part C - COVID-19 waste related Information

16.1	Member HCFs for COVID-	:	Isolation Centers
	19 generation)	HCFs
15		2000	quarantine camps/homes
- 16		2	sample collection center
	A		laboratories
16.2	Quantity of COVID waste		Collection:per day
	collection per day and		Disposal :per day
	COVID waste treatment		(Record of COVID waste collected and treated since
	per day.		March, 2020)
16.3	Whether COVID waste		□ Yes □ No
	collected is treated on		E. Verrina
	same day?		the straight and the straight and the straight and
16.4	Whether COVID and non-		□ Yes □ No
	COVID waste has been		
=	stored separately?		
16.5	Member HCFs registered in	:	Isolation Centers
	COVID19BWM App.		HCFs
-			quarantine camps/homes
			sample collection center
			laboratories
16.6	Whether CBWTF have		□ Yes □ No
A the said	registered on	1 500	
	COVID19BWM App	i are	
	developed by CPCB and		If yesnumber of vehicles dedicated for COVID waste
	register all the vehicles		generation
	dedicated for COVID waste		(record of usage of App for last one week)
	generation?		*
16.7	Whether sanitization of		□ Yes □ No
2	vehicles dedicated for		
	COVID waste collection has		Chemical used
	been done daily?		
16.8	Is PPEs used by workers		□ Yes □ No
	involved in handling and		
	collection of biomedical		
	waste is adequate?		