

ACTION PLAN FOR MANAGEMENT OF BIO-MEDICAL WASTE IN THE STATE OF BIHAR



बिहार सरकार

Department of Health, Government of Bihar

CONTENTS

SI. No.	Contents	Page No.
1	Background	3
2	Bihar: An Overview	4-5
3	Status of Healthcare Facilities in the State of Bihar & Bio-Medical Waste	6-10
4	Prescribed Authorities & their Duties	11-13
5	Treatment & Disposal Facilities in the State of Bihar	14-16
6	Awareness & Training	17
7	Comprehensive Action Plan for Management of Bio-Medical Waste in the State of Bihar	18-22
8	Monitoring Mechanism for Implementation	23

1. BACKGROUND

Ministry of Environment, Forest & Climate Change, Govt. of India has notified the Bio-Medical Waste Management, Rules, 2016 vide notification G.S.R 343 (E), dated-28.03.2016 in supersession of the Bio-Medical Waste (Management & Handling) Rules, 1998. Under the rules, "**Bio-Medical Waste**" is defined as the waste, which is generated during the diagnosis, treatment or immunization of human beings or animals or research activities pertaining there to or in the production or testing of biological or in health camps, including the categories mentioned in Schedule-I of the rules.

These rules apply to all persons who generate, collect, receive, store, transport, treat, dispose, or handle bio medical waste in any form including hospitals, nursing homes, clinics, dispensaries, veterinary institutions, animal houses, pathological laboratories, blood banks, AYUSH hospitals, clinical establishments, research or educational institutions, health camps, medical or surgical camps, vaccination camps, blood donation camps, first aid rooms of schools, forensic laboratories and research labs. "**Bio-medical waste treatment and disposal facility**" means any facility where in treatment, disposal of bio-medical waste or processes incidental to such treatment and disposal is carried out and includes common bio-medical waste treatment facilities. "**Handling**" in relation to bio-medical waste includes the generation, sorting, segregation, collection, use, storage, packaging, loading, transportation, unloading, processing, treatment, destruction, conversion, or offering for sale, transfer, disposal of such waste.

The person having administrative control over the institution and the premises generating bio-medical waste, which includes hospital, nursing home, clinic, dispensary, veterinary institution, animal house, pathological laboratory, blood bank, healthcare facility and clinical establishment, irrespective of their system of medicine and by whatever name they called are known as "**Occupiers**" and are responsible to take necessary steps to ensure that Bio-Medical Waste are handled without any adverse effect to human health and the environment, in accordance with aforesaid rules.

2. BIHAR: AN OVERVIEW

Bihar is bounded by Nepal in north, Jharkhand in the south, West Bengal in the east and Uttar Pradesh in the west. The Bihar plain is divided into two unequal halves by river Ganga which flows from west to east. It occupies a total geophysical area of 94,163km² and has a population of 10.41 Crores (10,40,99,452) as per census 2011. Out of total population of Bihar, 11.29% people live in urban areas and 88.71% in rural areas. The physical and administrative features of the State are presented as here under:-

Physical Features of the State of Bihar:-

Particulars	Census 2011	Census 2001
Approximate Population	10.41 Crores	8.3 Crores
Actual Population	104,099452	82,998,509
Population Growth	25.42 %	28.43 %
Percentage of total population of India	8.60%	8.07%
Rural Area (km ²)	92,257.51	92,257.51
Urban Area(km ²)	1095.49	1095.49
Total Area (km ²)	94163	94163
Density/km ²	1106	881
Rural Population	88.71% (92,341,436)	74,316,709
Urban Population	11.29% (11,758,016)	86,81,800

Administrative Units in the State of Bihar:-

Divisions	9
Districts	38
Sub-divisions	101
CD blocks	534
Panchayats	8471
Number of Revenue Villages	45103
Number of Towns	130

3. Status of Healthcare Facilities in the State of Bihar & Bio-Medical Waste

3.1 Status of Health Care Facilities under Health Department, Govt. of Bihar (District Wise)

Sl. No.	Name of District	No. of HCF	No. of Bedded HCF	No. of beds (If HCF is bedded)	No. of Non-Bedded HCF	BMW generated (In Kgs)	HCFs Attached to CBWTF	HCFs not attached to CBWTF
							(In Nos.)	(In Nos.)
1	Araria	238	26	487	212	159.30	238	0
2	Arwal	98	15	216	83	27.09	98	0
3	Aurangabad	326	57	471	269	118.76	326	0
4	Banka	307	42	276	265	70.00	307	0
5	Begusarai	333	19	378	314	98.07	333	0
6	Bhagalpur	376	48	929	328	552.71	376	0
7	Bhojpur	350	21	364	329	146.70	350	0
8	Buxar	203	40	322	163	133.46	203	0
9	Darbhanga	333	21	1343	312	628.91	333	0
10	East Champaran	516	39	424	477	532.05	516	0
11	Gaya	514	42	1327	472	287.10	514	0
12	Gopalganj	225	33	483	192	97.44	225	0
13	Jamui	314	21	353	293	137.33	314	0
14	Jehanabad	154	33	318	121	149.30	154	0
15	Kaimur	230	14	372	216	220.90	230	0
16	Katihar	408	61	565	347	221.56	408	0
17	Khagaria	205	15	246	190	174	205	0
18	Kishanganj	156	13	196	143	156.82	156	0
19	Lakhisarai	122	26	266	96	54.80	122	0
20	Madhepura	310	25	234	285	203.75	310	0
21	Madhubani	516	57	728	459	163.05	516	0
22	Munger	199	35	298	164	100.80	199	0
23	Muzaffarpur	615	16	1239	599	275.19	615	0
24	Nalanda	448	40	1211	408	480.28	448	0
25	Nawada	379	20	599	359	144.65	379	0
26	Patna	522	34	3816	488	1226.71	522	0
27	Purnia	389	47	664	342	434.50	389	0
28	Rohtas	317	25	328	292	309.20	317	0
29	Saharsa	198	21	426	177	209.35	198	0
30	Samastipur	440	31	572	409	322.89	440	0
31	Saran	483	67	876	416	172.76	483	0
32	Sheikhpura	110	12	170	98	58.85	110	0
33	Sheohar	110	6	153	104	82.65	110	0
34	Sitamarhi	269	24	343	245	90.19	269	0
35	Siwan	471	34	403	437	247.64	471	0
36	Supaul	212	18	264	194	101	212	0
37	Vaishali	395	56	549	339	311.6	395	0
38	West Champaran	424	19	644	405	548.83	424	0
	Total	12215	1173	22853	11042	9450.19	12215	0

3.2 Status of Health Care Facilities under Private Sector (District Wise)

Sl. No.	Name of District	No. of HCF	No. of Bedded HCF	No. of beds (If HCF is bedded)	No. of Non-Bedded HCF	BMW generated (In Kgs)	HCFs Attached to CBWTF	HCFs not attached to CBWTF
							(In Nos.)	(In Nos.)
1	Araria	118	21	193	97	264.90	55	63
2	Arwal	18	5	63	13	49.00	4	14
3	Aurangabad	69	48	583	21	329.50	50	19
4	Banka	80	8	84	72	144.00	24	56
5	Begusarai	308	119	1199	189	866.50	134	174
6	Bhagalpur	450	124	1885	326	1363.30	192	258
7	Bhojpur	292	78	80	214	611.50	20	272
8	Buxar	58	25	360	33	101.90	9	49
9	Darbhanga	359	155	2084	204	726.00	98	261
10	East Champaran	325	137	1891	188	714.30	69	256
11	Gaya	354	179	1717	175	1010.90	214	140
12	Gopalganj	212	95	1189	117	459.80	71	141
13	Jamui	68	26	282	42	200.20	22	46
14	Jehanabad	30	14	131	16	88.00	16	14
15	Kaimur	9	5	64	4	15.30	9	0
16	Katihar	191	60	1251	131	556.70	105	86
17	Khagaria	97	34	295	63	225.30	48	49
18	Kishanganj	169	48	1126	121	392.80	80	89
19	Lakhisarai	122	26	266	96	54.80	122	0
20	Madhepura	105	35	484	70	224.10	34	71
21	Madhubani	124	48	995	76	292.00	60	64
22	Munger	108	25	234	83	260.40	69	39
23	Muzaffarpur	532	213	3094	319	1331.00	152	380
24	Nalanda	392	124	1941	268	937.80	22	370
25	Nawada	133	46	372	87	283.20	73	60
26	Patna	3712	753	10661	2959	6644.40	490	3222
27	Purnia	296	87	1133	209	857.90	77	219
28	Rohtas	127	44	1147	83	274.20	0	127
29	Saharsa	182	51	1085	131	413.40	40	142
30	Samastipur	712	295	3158	417	1618.89	186	526
31	Saran	323	79	931	244	636.30	49	274
32	Sheikhpura	28	15	121	13	81.90	6	22
33	Sheohar	20	9	92	11	36.60	6	14
34	Sitamarhi	267	68	980	199	460.30	62	205
35	Siwan	295	157	1893	138	661.00	95	200
36	Supaul	195	48	486	147	329.50	32	163
37	Vaishali	592	259	2625	333	1274.00	188	404
38	West Champaran	119	60	745	59	279.20	20	99
	Total	11591	3623	46920	7968	25070.79	3003	8588

**3.3 Status of Health Care Facilities under Other Dept. of State
(Other than Health Dept., Govt. of Bihar- District Wise)**

Sl. No.	Name of District	No. of HCF	No. of Bedded HCF	No. of beds (If HCF is bedded)	No. of Non-Bedded HCF	BMW generated (In Kgs)	HCFs Attached to CBWTF	HCFs not attached to CBWTF
							(In Nos.)	(In Nos.)
1	Araria	23	0	0	23	5.6	0	23
2	Arwal	10	0	0	10	3.2	0	10
3	Aurangabad	35	0	0	35	2.31	0	35
4	Banka	30	0	0	30	1.92	0	30
5	Begusarai	30	1	25	29	17.18	0	30
6	Bhagalpur	36	0	0	36	10.94	0	36
7	Bhojpur	31	0	0	31	10.99	0	31
8	Buxar	24	1	80	23	16.46	0	24
9	Darbhanga	34	3	18	31	8.23	0	34
10	East Champaran	48	0	0	48	6.11	0	48
11	Gaya	60	4	88	56	18.42	2	58
12	Gopalganj	27	1	30	26	5.23	0	27
13	Jamui	25	0	0	25	11.08	0	25
14	Jehanabad	17	0	0	17	1.1	0	17
15	Kaimur	22	0	0	22	1.78	0	22
16	Katihar	28	0	0	28	4.38	0	28
17	Khagaria	24	1	20	23	13.34	0	24
18	Kishanganj	25	0	0	25	11.88	0	25
19	Lakhisarai	15	0	0	15	2.21	0	15
20	Madhepura	27	0	0	27	2.32	0	27
21	Madhubani	46	0	0	46	9.89	1	45
22	Munger	20	0	0	20	2.43	0	20
23	Muzaffarpur	38	0	0	38	5.28	0	38
24	Nalanda	42	4	38	38	6.54	0	42
25	Nawada	38	0	0	38	2.15	0	38
26	Patna	56	4	267	52	24.26	4	52
27	Purnia	36	0	0	36	5.24	0	36
28	Rohtas	37	0	0	37	4.86	0	37
29	Saharsa	26	0	0	26	7.18	0	26
30	Samastipur	42	2	150	40	29.78	0	42
31	Saran	43	0	0	43	1.19	0	43
32	Sheikhpura	17	0	0	17	1.53	0	17
33	Sheohar	8	0	0	8	2.24	0	8
34	Sitamarhi	32	0	0	32	4.44	0	32
35	Siwan	36	2	29	34	8.78	2	34
36	Supaul	31	0	0	31	8.53	0	31
37	Vaishali	27	1	35	26	10.64	0	27
38	West Champaran	44	1	10	43	2.28	0	44
	Total	1190	25	790	1165	291.92	9	1181

3.4 Consolidated Status of all Healthcare Facilities in the State of Bihar- District Wise)

Sl. No.	Name of District	No. of HCF	No. of Bedded HCF	No. of beds (If HCF is bedded)	No. of Non-Bedded HCF	BMW generated (In Kgs)	HCFs Attached to CBWTF	HCFs not attached to CBWTF
							(In Nos.)	(In Nos.)
1	Araria	379	47	680	332	429.8	293	86
2	Arwal	126	20	279	106	79.29	102	24
3	Aurangabad	430	105	1054	325	450.57	376	54
4	Banka	417	50	360	367	215.92	331	86
5	Begusarai	671	139	1602	532	981.75	467	204
6	Bhagalpur	862	172	2814	690	1926.95	568	294
7	Bhojpur	673	99	444	574	769.19	370	303
8	Buxar	285	66	762	219	251.82	212	73
9	Darbhanga	726	179	3445	547	1363.14	431	295
10	East Champaran	889	176	2315	713	1252.46	585	304
11	Gaya	928	225	3132	703	1316.42	730	198
12	Gopalganj	464	129	1702	335	562.47	296	168
13	Jamui	407	47	635	360	348.61	336	71
14	Jehanabad	201	47	449	154	238.4	170	31
15	Kaimur	261	19	436	242	237.98	239	22
16	Katihar	627	121	1816	506	782.64	513	114
17	Khagaria	326	50	561	276	412.64	253	73
18	Kishanganj	350	61	1322	289	561.5	236	114
19	Lakhisarai	259	52	532	207	111.81	244	15
20	Madhepura	442	60	718	382	430.17	344	98
21	Madhubani	686	105	1723	581	464.94	577	109
22	Munger	327	60	532	267	363.63	268	59
23	Muzaffarpur	1185	229	4333	956	1611.47	767	418
24	Nalanda	882	168	3190	714	1424.62	470	412
25	Nawada	550	66	971	484	430	452	98
26	Patna	4290	791	14744	3499	7895.37	1016	3274
27	Purnia	721	134	1797	587	1297.64	466	255
28	Rohtas	481	69	1475	412	588.26	317	164
29	Saharsa	406	72	1511	334	629.93	238	168
30	Samastipur	1194	328	3880	866	1971.56	626	568
31	Saran	849	146	1807	703	810.25	532	317
32	Sheikhpura	155	27	291	128	142.28	116	39
33	Sheohar	138	15	245	123	121.49	116	22
34	Sitamarhi	568	92	1323	476	554.93	331	237
35	Siwan	802	193	2325	609	917.42	568	234
36	Supaul	438	66	750	372	439.03	244	194
37	Vaishali	1014	316	3209	698	1596.24	583	431
38	West Champaran	587	80	1399	507	830.31	444	143
	Total	24996	4821	70563	20175	34812.9	15227	9769

A total number of 12,215 HCFs has been identified in the State which includes 1,173 bedded HCFs and 11,042 non-bedded HCFs under the department of Health, Govt. of Bihar. A number of 3,623 bedded and 7,968 non-bedded healthcare facilities are operating under private sector and other departments of State/Central Govt apart from Health Department, Government of Bihar. Furthermore, a total number of 1,190 HCFs has been identified running in the state of Bihar apart from Health Department, Govt. of Bihar and private HCFs which includes railway hospitals, bidi hospitals, armed force hospitals and jail hospitals, among others. All bedded government healthcare facilities are tied up with CBMWTF. However, a letter has been issued to all the districts further to tag all the remaining non-bedded government HCFs (HSC and APHC). 75% HCFs among all the private bedded healthcare facilities have been tied-up with CBMWTF (Common Bio-Medical Waste Treatment Facility) followed by tagging the remaining private healthcare facilities.

An estimated 34,812.9 Kg/day of Bio-Medical Waste is generated, for the treatment and disposal of which there are four Common Bio-Medical Waste Treatment Facilities located at Patna, Muzaffarpur, Bhagalpur, Gaya and three captive treatment facilities with a total capacity of 33,600 kg/day operating in the State of Bihar. In addition to these bio-medical treatment facilities two more common bio-medical waste treatment facilities are proposed to be established at Bhojpur and Madhepura.

4. Prescribed Authorities and their duty under rule-9 of the Bio-Medical Waste Management Rules, 2016

1. The prescribed authority for implementation of the provisions of these rules shall be the State Pollution Control Boards in respect of States and Pollution Control Committees with respect of Union territories.
2. The prescribed authorities shall comply with the responsibilities as stipulated in Schedule III of these rules as detailed below:-

Sl. No.	Authority	Corresponding Duties
1	Department of Health, State Government	<ol style="list-style-type: none">1. To ensure implementation of the rule in all health care facilities or occupiers.2. Allocation of adequate funds to Government healthcare facilities for bio-medical waste management.3. Procurement and allocation of treatment equipments and make provision for consumables for bio-medical waste management in Government health care facilities.4. Constitute State or District Level Advisory Committees under the District Magistrate or Additional District Magistrate to oversee the bio-medical waste management in the Districts.5. Advise State Pollution Control Boards or Pollution Control Committees on implementation of these Rules.6. Implementation of recommendations of the Advisory Committee in all the health care facilities.

2	State Pollution Control Board	<ol style="list-style-type: none"> 1. Inventorisation of Occupiers and data on bio-medical waste generation, treatment & disposal. 2. Compilation of data and submission of the same in annual report to Central Pollution Control Board within the stipulated time period. 3. Grant and renewal, suspension or refusal cancellation or of authorisation under these rules (Rule 7, 8 and 10). 4. Monitoring of compliance of various provisions and conditions of authorisation. 5. Action against health care facilities or common biomedical waste treatment facilities for violation of these rules (Rule 18). 6. Organizing training programmes to staff of healthcare facilities and common bio-medical waste treatment facilities and State Pollution Control Boards or Pollution Control Committees Staff on segregation, collection, storage, transportation, treatment and disposal of bio-medical wastes. 7. Undertake or support research or operational research regarding bio-medical waste management. 8. Any other function under these rules assigned by Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time. 9. Implementation of recommendations of the Advisory Committee. 10. Publish the list of Registered or Authorized (or give consent) Recyclers. 11. Undertake and support third party audits of the common bio-medical waste treatment facilities in their State.
---	--------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

3	Municipalities or Corporations, Urban Local Bodies and Gram Panchayats	<ol style="list-style-type: none"> 1. Provide or allocate suitable land for development of common bio-medical waste treatment facilities in their respective jurisdictions as per the guidelines of Central Pollution Control Board. 2. Collect other solid waste (other than the biomedical waste) from the health care facilities as per the Municipal Solid Waste (Management and handling) Rules, 2000 or as amended time to time. 3. Any other function stipulated under these Rules.
---	-------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

As per Rule 12(4) of the Bio-Medical Waste Management Rules, 2016 District Level Monitoring Committees have been constituted in the State to oversee and monitor the compliances of the provisions of the rules by the Occupiers of Health Care Facilities and Operators of the Common Treatment Facilities of the District. These Committees have been instructed by the State Level Advisory Committee to monitor and ensure compliances of provisions of the rules by all the Govt. and non-Govt. Health Care Facilities of the district.

5. Treatment & Disposal Facilities in the State:

In the State of Bihar four Common Bio-Medical Waste Treatment & Disposal Facilities (CBWTF) are presently operational for treatment and disposal of bio-medical wastes generated from different districts. These Common Bio-Medical Waste Treatment Facilities were selected by State Health Society, Bihar for collection, treatment and disposal of bio-medical wastes generated by all the government hospitals of the State upto primary health centers with specific districts allotted to each of them. These Common Bio-Medical Waste Treatment Facilities are authorized to collect, treat and dispose bio-medical waste generated from private healthcare facilities also. The CBWTFs with districts covered by them are detailed below:-

Sl. No.	Name/ Address of the CBWTF	Districts covered	Capacity	Tie-Up Status (No. of HCF tied-up with CBMWTF)
1	M/s Indira Gandhi Institute of Medical Science, Sheikhpura, Patna (Operated by: M/s Sangam Mediserve Pvt. Ltd.)	Patna, Bhojpur, Buxar, Nalanda, Rohtas and Bhabhua.	(i) Incinerator-250 kg/hr (ii)Autoclave-200 ltrs/batch (iii)Shredder-200 kg/hr	2,624
2	M/s Synergy Waste Management (P) Ltd., Hanuman Ghat Road, Jawaharlal Nehru Medical College Hospital, Bhagalpur.	Banka, Bhagalpur, Begusarai, Jamui, Khagaria, Lakhisarai, Munger, Katihar, Purnea, Araria and Kishanganj.	(i) Incinerator-300 kg/hr (ii)Autoclave-2200 ltrs/batch (iii)Shredder-300 kg/hr	3,975

3	M/s Medicare Environmental Management (P) Ltd., Muzaffarpur Industrial Area, P.O.-Bela, Muzaffarpur.	Muzaffarpur, Sitamarhi, Sheohar, Vaishali, East Champaran, West Champaran, Saran, Siwan, Gopalganj, Darbhanga, Madhubani, Samastipur, Sahrasa, Madhepura and Supaul.	(i) Incinerator-250 kg/hr (ii)Autoclave-648 ltrs/batch (iii)Shredder-100 kg/hr	6,682
4	M/s Synergy Waste Management (P) Ltd.,Anugrah Narayan Medical College, Gaya.	Arwal, Aurangabad, Gaya, Jehanabad, Nawada & Sheikhpura.	(i) Incinerator-300 kg/hr (ii)Autoclave-2200 ltrs/batch (iii)Shredder-300 kg/hr	1,946

In addition to above there are three captive treatment plants for disposal of Bio-Medical Waste generated by the respective units installed at Patna Medical College and Hospital, Patna; Katihar Medical College, Katihar and MGM Medical College and Hospital, Kishanganj the details of which are as mentioned below:

Status of Captive Treatment Facilities in the State of Bihar

Sl. No.	Name/ Address of Healthcare Facility	No. of Beds	Total installed capacity in kg/hrs		
			Incinerator	Autoclave	Shredder
1	Patna Medical College & Hospital, Ashok Raj Path, Patna-800004	1675	200/hr.	200L/hr.	50kg/hr.
2	M/s MGM Medical College and LSK Hospital, Dinajpur Road, Kishnganj-855107	666	50kg/hr.	200L/hr.	25kg/hr.
3	Katihar Medical College, Karim Bagh, Post Box-23, Katihar-854105	619	50kg/hr.	200L/hr.	25kg/hr.

6. Awareness & Training

In the state of Bihar, training and awareness programmes are being organized by State Health Society as well as State Pollution Control Board with the help of IMA. For instance, in 2018 one of the training was organized at the district level which includes participants (Incharges, Managers, Officers, and Representatives) across government healthcare facilities, private hospitals, nursing home, clinics, dispensaries, pathological laboratories, blood bank, AYUSH hospitals, clinical establishments, animal houses, veterinary hospitals, forensic laboratories and research laboratories, among others regarding the Bio-Medical Waste Rules, 2016. Furthermore, SHSB (State Health Society, Bihar) also organized TOT (Training of Trainers) on Infection Control and Bio-Medical Waste Management. Five representatives each from 36 District Hospitals and 7 Medical Colleges attended the TOT event. Through training, Bio-Medical Waste (Management & Handling) Rules, 2016 aimed to make them aware and informed regarding the issues and challenges relevant to health and environmental risk, bio-medical wastes, purpose of IMEP, policies, legislation and regulations, guidelines from Central Pollution Control Board and organizational arrangements, among others. Furthermore, training also aimed to explain about the handling, storage, segregation, collection and disposal of bio medical waste generated through bedded and non-bedded healthcare facilities. All the concerned agencies are looking forward to further implement and strengthen the regular comprehensive training programs even at the PHC level to speed up meeting the compliance and aforesaid rules as laid down by Bio-Medical Waste Rules, 2016.

7. Comprehensive Action Plan for Management of Bio-Medical Waste in the State of Bihar

Sl. No.	Action Plan	Implementing Agency	Implementation Period (Short/Mid/Long term)	Time Target for implementation	Status/Remarks
1	Inventorization of occupiers & data on Bio-Medical Waste generation, treatment & disposal.	BSPCB	Short	31.03.2019	Complied. Inventorization shall be updated every year.
2	Constitution of State Level Advisory Committee under Chairmanship of Principal Secretary, Health Department, Govt. of Bihar to oversee the implementation of the rules.	Department of Health	Short	31.03.2019	Complied. State Level Advisory Committee has been constituted by Department of Environment, Forest & Climate Change, Govt. of Bihar vide ref. no.630(E) dated 15.09.2016. Two meetings of the committee have been held on 06.07.2017 & 11.05.2018.

3	Constitution of District Level Monitoring Committee under Chairmanship of respective District Magistrate to monitor the compliance of the provisions of the rules.	Department of Health	Short	30.09.2019 Meetings at all the districts to be ensured by the target date	Complied. District Level Monitoring Committees have been constituted by Department of Environment, Forest & Climate Change, Govt. of Bihar vide ref. no.629(E) dated 15.09.2016 and revised vide ref. no. 21(E) dated 13.01.2017. Meetings are being conducted at district level.
4	Establishment of additional Common Bio-Medical Waste Treatment Facilities (CBWTFs).	Department of Health	Long	31.03.2020	State has decided to establish two more CBWTFs one each at Bhojpur and Madhepura.
5	To provide suitable land for establishment of additional CBWTFs	Local Authorities	Mid	31.12.2019	For additional CBWTFs as per the Guidelines notified by CPCB for the purpose.

6	Procurement and allocation of treatment equipments and make provision for consumables for bio-medical waste management in Government health care facilities.	SHSB	Short	30.09.2019	
7	Allocation of adequate funds to Government health care facilities for bio-medical waste management.	Department of Health	Mid	31.03.2020	ETP (Effluent Treatment Plant) are being installed at all Govt. HCF upto CHC/PHC level. Technical Approval and Cost Estimation from BMSICL (Bihar Medical Services & Infrastructure Corporation Limited) has been proposed.
8	Ensuring operation of HCFs with due authorization & compliances of the rule and implementation of recommendations of Advisory Committee in all the HCFs. a. Segregation of bio-medical wastes as per colour code specified in the rules. b. To ensure tie-up of all Govt./Non-Govt. bedded HCFs	BSPCB	Mid	31.12.2019	BSPCB has issued Proposed Closure Directions to 1318 defaulting units out of which 459 have been issued Closure Directions. Complaint cases have also been filed against 93 erring units.
		DLMC	Short	30.09.2019	
		Department of Health	Short	30.09.2019	

	c. To ensure tie-up of all Non-bedded HCFs	DLMC	Mid	31.12.2019	
	d. To obtain Authorization under the Rules.	DLMC/BSPCB	Mid	31.12.2019	
	e. Installation of ETP in all Bedded Govt. Hospitals	Department of Health/ SHSB	Long	31.03.2020	
	f. To obtain CTE/CTO under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981	Department of Health/ SHSB	Long	31.03.2020	
9	Establishment of bar coding system in CBWTFs	BSPCB	Mid	31.12.2019	Bar Coding System has been initiated by the operators of CBWTFs. All HCFs would be covered by the target date.
10	Implementation of the provisions of the rules in veterinary institutions- a. Tie up with CBWTFs. b. To obtain authorization from BSPCB.	Department of Animal & Fisheries Resources	Short	30.09.2019	
11	Third Party Audit of the CBWTFs of the State.	BSPCB	Mid	31.12.2019	

12	Organizing of training/awareness programme for management of bio-medical waste.	SHSB/ BSPCB	Regular		Training programmes have been organized by SHSB/BSPCB at all the commissionerary towns of the State & many districts. To be ensured that all the districts are covered by the target date.
----	---------------------------------------------------------------------------------	-------------	---------	--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

8. Monitoring mechanism for implementation: The aforesaid action plan shall be implemented by respective implementing agencies in coordination with Department of Health, Govt. of Bihar & Bihar State Pollution Control Board. It will be reviewed by the State Level Advisory Committee on Bio-Medical Waste Management in its meeting every six months.