

**GOVERNMENT OF INDIA  
MINISTRY OF HEALTH AND FAMILY WELFARE  
DEPARTMENT OF HEALTH AND FAMILY WELFARE**

**LOK SABHA  
UNSTARRED QUESTION NO. 3680  
TO BE ANSWERED ON 16<sup>TH</sup> MARCH, 2018**

**BIO-MEDICAL WASTE**

**3680. SHRI ASHOK MAHADEORAO NETE:**

Will the Minister of **HEALTH AND FAMILY WELFARE** be pleased to state:

(a) the quantum of bio-medical waste generated in the country during each of the last three years and the current year, State/ UT-wise;

(b) whether any mechanism has been put in place by the Government for safe disposal of bio-medical waste in all the Government hospitals in the country and if so, the details thereof, State/UT-wise; and

(c) the measures taken/being taken by the Government to strictly implement the bio-medical waste procedure in the country?

**ANSWER**

**THE MINISTER OF STATE IN THE MINISTRY OF HEALTH AND  
FAMILY WELFARE  
(SMT. ANUPRIYA PATEL)**

(a): As per information submitted by State Pollution Control Board (SPCB) / Pollution Control Committees (PCCs) and Director General of Armed Force Medical Services (DGAFMS), detailed state-wise quantum of Bio-medical waste generation for three years i.e, 2014 to 2016 is given in **Annexure-I**.

(b): As informed by Central Pollution Control Board (CPCB), in terms of Rule 7 of Bio-medical Waste Management Rules, 2016, bio-medical waste shall be treated and disposed of in accordance with Schedule I, and in compliance with the standards provided in Schedule-II of the said Bio-Medical Waste Management (BMWM) Rules, 2016 by the health care facilities and common bio-medical waste treatment facility. Further details of Captive treatment facility installed by Health Care Facility (HCF) and Common Bio-medical Waste Treatment Facility (CBWTF) provided for the treatment of biomedical waste for the year 2016 is given at **Annexure-II**.

(c): In Bio-medical Waste Management Rules, 2016, treatment & disposal options have been given for different kind of bio-medical waste. Schedule-I stipulates treatment & disposal options for different categories i.e., Yellow, Red, Blue & White which needs to be followed for treatment & disposal of bio-medical waste in compliance to the standards as stipulated under Schedule-II. Further, CPCB has prepared following guidelines which help in implementation of BMWM Rules, 2016:

- i) Draft Guidelines for management of healthcare waste in healthcare facilities as per Bio-medical Waste Management Rules, 2016.
- ii) Draft Guidelines for Bar Code System to be adopted by the Occupier or Operator of a CBWTF for ensuring compliance to the BMWM Rules, 2016
- iii) Revised Guidelines for Common Bio-medical Waste Treatment and Disposal Facilities.
- iv) Guidelines on Management of BMW Generated during UIP.
- v) Environmentally Sound Management of Mercury Waste Generated from Health Care facilities.

**Annexure-I**

| Sl. No. | States/UTs                             | Total BMW Generated (kg/day) |          |          |
|---------|--|------------------------------|----------|----------|
|         |  | 2014                         | 2015     | 2016     |
| 1       | Andaman Nicobar*                       | 312                          | 287.5    | 287.5    |
| 2       | Andhra Pradesh                         | 8184                         | 8415     | 9898     |
| 3       | Arunachal Pradesh                      | 58                           | 63       | 577.4    |
| 4       | Assam                                  | 6329.5                       | 6885.25  | 7925.8   |
| 5       | Bihar                                  | 1280.66                      | 1390.18  | 8827.69  |
| 6       | Chandigarh                             | 2169.05                      | 2134.68  | 1994     |
| 7       | Chhatisgarh                            | 387.63                       | 9263.76  | 1988.85  |
| 8       | Daman &Diu and Dadra & Nagar<br>Haveli | 192.27                       | 251.64   | 251.64   |
| 9       | Delhi                                  | 14941.07                     | 14644.71 | 24996.44 |
| 10      | Goa                                    | 9586                         | 7922.4   | 7922.4   |
| 11      | Gujarat                                | 29900                        | 32700    | 30296    |
| 12      | Haryana                                | 6953.73                      | 10109    | 11171.02 |
| 13      | Himachal Pradesh                       | 1472.9                       | 2049.5   | 1717.7   |
| 14      | Jharkhand                              | 5703.26                      | 9222.22  | 12829.98 |
| 15      | J & K                                  | 4682                         | 4794.34  | 885.94   |
| 16      | Karnataka                              | 82123                        | 51560    | 66468    |
| 17      | Kerala                                 | 52794.42                     | 53169.1  | 37773.45 |
| 18      | Lakshadweep                            | 70                           | 70       | 55       |
| 19      | Madhya Pradesh                         | 9409                         | 10714    | 12810    |
| 20      | Maharashtra                            | 53385.5                      | 62470    | 71511.5  |
| 21      | Manipur                                | 372.55                       | 372.55   | 365.99   |
| 22      | Meghalaya                              | 1068.78                      | 1157.54  | 972.97   |
| 23      | Mizoram                                | 2978.94                      | 5378.58  | 440.09   |
| 24      | Nagaland                               | 675                          | 595      | 595      |
| 25      | Orissa                                 | 11029.16                     | 12920.9  | 13795.34 |
| 26      | Puducherry                             | 12982.1                      | 12863.6  | 5849.8   |
| 27      | Punjab                                 | 12810.8                      | 13148.1  | 14668    |
| 28      | Rajasthan                              | 16749.02                     | 19480.13 | 21722.84 |
| 29      | Sikkim                                 | 455.4                        | 423      | 388.44   |
| 30      | Tamil Nadu                             | 43284                        | 43880    | 40552.24 |
| 31      | Telengana                              | 8733                         | 8733.4   | 13220    |
| 32      | Tripura                                | 1336.5                       | 1378.5   | 1607     |
| 33      | Uttarakhand                            | 2565.32                      | 2597     | 2557.32  |
| 34      | Uttar Pradesh                          | 29133                        | 37498    | 37655    |
| 35      | West Bengal                            | 42236.99                     | 32823    | 26858.76 |
| 36      | DGAFMS                                 | 18980                        | 20213    | 27995.26 |
|         | <b>Total</b>                           | 495324.6                     | 501578.6 | 519432.4 |

2016

| S.No | State/UT                            | Common Bio-medical Waste Treatment Facilities (CBWTFs) |                    | No. of Health Care Facilities (HCFs) having Captive Treatment Facilities |
|------|-------------------------------------|--|--------------------|--|
|      |                                     | operational  | Under Construction |  |
| 1    | Andaman Nicobar                     | Nil  | Nil                | 30   |
| 2    | Andhra Pradesh                      | 11   | Nil                | 01   |
| 3    | Arunachal Pradesh                   | Nil  | Nil                | 06   |
| 4    | Assam                               | 01   | ..                 | 149  |
| 5    | Bihar                               | 03   | 01                 | 03   |
| 6    | Chandigarh                          | 01   | Nil                | 03   |
| 7    | Chhattisgarh                        | 04   | 01                 | 554  |
| 8    | Daman &Diu and Dadra & Nagar Haveli | Nil  | Nil                | Nil  |
| 9    | Delhi                               | 02   | Nil                | 8<br>(only autoclave)  |
| 10   | Goa                                 | Nil  | Nil                | 541  |
| 11   | Gujarat                             | 19   | Nil                | Nil  |
| 12   | Haryana                             | 11   | NIL                | 01   |
| 13   | Himachal Pradesh                    | 03   | 01                 | 296  |
| 14   | Jharkhand                           | 01   | Nil                | INP  |
| 15   | J & K                               | 1  | 0                  | 76   |
| 16   | Karnataka                           | 25   | 05                 | 5061   |
| 17   | Kerala                              | 1  | Nil                | 88   |
| 18   | Lakshadweep                         | INP  | INP                | 80   |
| 19   | Madhya Pradesh                      | 13   | 01                 | 181  |
| 20   | Maharashtra                         | 34   | 0                  | 310  |
| 21   | Manipur                             | 01   | Nil                | 532  |
| 22   | Meghalaya                           | 01   | Nil                | 90   |
| 23   | Mizoram                             | Nil  | Nil                | Nil  |
| 24   | Nagaland                            |  |                    | 81   |
| 25   | Odisha                              | 05   | Nil                | 1597   |
| 26   | Puducherry                          | 01   | Nil                | 01   |
| 27   | Punjab                              | 04   | 01                 | Nil  |
| 28   | Rajasthan                           | 10   | 7                  | 1282   |
| 29   | Sikkim                              | Nil  | Nil                | Nil  |
| 30   | Tamil Nadu                          | INP  | INP                | INP  |
| 31   | Telengana                           | 11   | Nil                | Nil  |
| 32   | Tripura                             | 01   | NIL                | 04   |
| 33   | Uttrakhand                          | 01   | Nil                | 237  |
| 34   | Uttar Pradesh                       | 17   | Nil                | 28   |
| 35   | West Bengal                         | 6  | 3                  | 2  |
| 36   | DGAFMS                              | -  | -                  | 470  |

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