

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
LOK SABHA

UNSTARRED QUESTION NO.2425
TO BE ANSWERED ON 09.03.2018

Chemical Contamination of Rivers

2425. SHRI MD. BADARUDDOZA KHAN:
SHRI MOHD. SALIM:

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE be pleased to state:

- (a) whether there are any report regarding the status of chemical contamination of the rivers, lakes and other fresh water bodies in the country; and
- (b) if so, the State-wise details of the major parameters of contamination of such water bodies thereof?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE (DR. MAHESH SHARMA)

(a) & (b) Central Pollution Control Board (CPCB) in association with the State Pollution Control Boards monitors the river water quality across the country through a network of monitoring stations under the National Water Quality Monitoring Programme. Water quality assessment for ascertaining the chemical contamination of rivers, lakes and other fresh water bodies has been carried out for 253 rivers, 133 lakes, 47 ponds and 79 tanks across the country. Chemical Oxygen Demand (COD) is a summary parameter to assess the chemical contamination of aquatic resources.

Based on the water quality monitoring carried out by CPCB over the period 2013- 2017, variable concentration of COD has been observed in rivers, lakes and other fresh water bodies, as per category-wise details given below:

| Category | Criteria (COD concentration) | Rivers | Lakes | Ponds | Tanks |
|--------------|------------------------------|------------|------------|-----------|-----------|
| I | > 250 mg/l | 38 | 27 | 3 | 18 |
| II | 170 - 250 mg/l | 17 | 20 | 11 | 14 |
| III | 85 - 170 mg/l | 53 | 31 | 10 | 25 |
| IV | 50 - 85 mg/l | 67 | 27 | 8 | 11 |
| V | 25- 50 mg/l | 78 | 28 | 15 | 11 |
| Total | | 253 | 133 | 47 | 79 |

There are 38 rivers, 27 lakes, 3 ponds and 18 tanks which are critically polluted having a COD concentration of more than 250 mg/l, which is the discharge standard for a polluting source such as sewage treatment plants and industrial effluent treatment plants. The State-wise list of these polluted rivers, lakes, ponds and tanks are given in Annexure.

Annexure referred to in reply to parts (a) & (b) of Lok Sabha Unstarred Question No. 2425 to be answered on Friday, the 9th March, 2018 on 'Chemical Contamination of Rivers'

State-wise details of critically polluted rivers, lakes, ponds and tanks based on COD concentration levels

| S.No. | State Name | Rivers | Water bodies (lakes, ponds & tanks) |
|-------|-----------------------------------|---|--|
| 1. | Assam | - | Elangabeel |
| 2. | Bihar | Sikrana | - |
| 3. | Chhattisgarh | - | Hitkasa Tailing Reservoir |
| 4. | Daman, Diu and Dadra Nagar Haveli | Damanganga | - |
| 5. | Delhi | Yamuna | - |
| 6. | Gujarat | Bhadar, Khari, Sabarmati | Moonsar |
| 7. | Haryana | Ghaggar | - |
| 8. | Himachal Pradesh | Giri, Sukhana | Khaziar |
| 9. | Jammu & Kashmir | Jhelum | - |
| 10. | Karnataka | Bhima | Arakere, Bellandur, Dalavai, Hebbal, Hulimavu, Karihobanahalli, Mulbhagal, Puttenahalli, Shettykere, Singasandra, Somasundrapalya, Ulsoor, Yedyur, Yennehole, Aianakere, Beenniganahalli, Dhorekere, Herekere, Madavara, Mavenakere, Melekote, Pavagada, Shivapura, Uttarhalli Doraikere, Veerapura, Vengaihnakere |
| 11. | Kerala | Chitrapuzha, Periyar, Pamba, Neeleswaram, Karamana, Korayar, Thirur | Kayamkula Kayal, Kodungalloor, Paravur, Punnamada Kayal, Vembanad, Vembanadu |
| 12. | Madhya Pradesh | Betwa, Gour, Khan, Narmada | - |
| 13. | Maharashtra | Mithi, Patalganga | - |
| 14. | Meghalaya | Umkhrah | - |
| 15. | Nagaland | Dhansiri | - |
| 16. | Punjab | Ghaggar, Satluj | - |
| 17. | Tamil Nadu | Cauvery, Sarabanga, Thirumanimuthar, Vasista | - |
| 18. | Telangana | Musi | Fox Sagar, Laxminarayana, Miralam, Noor Md. Kunta, Saroornagar, Asani Kunta, Sai Chivuru, Chinna Waddepally, Gandhigudum, Kajipally, Kistaraddy, Mallapur, Premajipet |
| 19. | Uttar Pradesh | Hindon, Kali (W), Kalinadi (E) | - |
| 20. | Uttarakhand | Bhalla, Dhela | - |
| 21. | West Bengal | Damodar | - |