GOVERNMENT OF INDIA

MINISTRY OF JAL SHAKTI,

DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA

REJUVENATION

RAJYA SABHA

UNSTARRED QUESTION NO. 2973

ANSWERED ON 27.03.2023

GROUNDWATER CONTAMINATION IN DELHI-NCR REGION

2973. SHRI AKHILESH PRASAD SINGH

Will the Minister of JAL SHAKTI be pleased to state:

(a) the details of the groundwater contamination in the Delhi-NCR region, year-wise;

(b) whether it is a fact that the National Human Rights Commission (NHRC) has issued a notice to

Government regarding groundwater contamination in Delhi;

(c) if so, the details of the notice thereof;

(d) whether Government has taken any action pursuant to the notice;

(e) if so, the details thereof;

(f) if not, the reasons therefor; and

(g) the steps taken by Government to address the issue of groundwater contamination?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI BISHWESWAR TUDU)

(a) Central Ground Water Board (CGWB) generates ground water quality data of the country including Delhi - NCR on a regional scale as part of its ground water quality monitoring program and various scientific studies. These studies indicate the occurrence of contaminants such as fluoride, arsenic, nitrate, iron and heavy metals beyond permissible limits (as per BIS) for human consumption in isolated pockets in various States / UTs, inclduing Delhi NCR. The details of partly affected districts due to select contaminants in ground water in Delhi NCR for last four years are given at **Annexure**.

(b) & (c) As per the available information the National Human Rights Commission (NHRC) had issued a notice to the Government of NCT Delhi and the Department of Water Resources, River Development & Ganga Rejuvenation (DoWR, RD & GR), Ministry of Jal Shakti regarding the contamination of areas around landfill sites of Bhalaswa, Ghazipur, Bawana and Okhla as per report published in a newspaper.

(d) to (f) CGWB generates groundwater quality data of the country including 11 monitoring stations located in the vicinity of 5 km radius of landfill sites located in Delhi as part of its groundwater quality

monitoring program. The groundwater quality report has been shared with the NCT of Delhi. Further, DoWR, RD & GR is regularly monitoring status of sewage, industrial and solid waste management in Delhi through a Central Monitoring Committee. A report on the matter has been submitted to NHRC by DoWR, RD & GR.

(g) Water being a State subject, initiatives on water management, including its quality, is primarily States' responsibility; however, various steps have been taken by the Central Government for controlling water contamination in the country:

- i. Government of India is implementing Jal Jeevan Mission (JJM) Har Ghar Jal, since August, 2019, in partnership with States, to make provision of potable tap water supply in adequate quantity, of prescribed quality and on regular & long-term basis to every rural household by 2024. Under JJM, while allocating the funds to States/ UTs, 10% weightage is given to the population residing in habitations affected by chemical contaminants.
- ii. Since, planning, implementation and commissioning of piped water supply scheme based on a safe water source may take time, purely as an interim measure, States/UTs have been advised to install community water purification plants (CWPPs) especially in arsenic and fluoride affected habitations to provide potable water to every household at the rate of 8–10 litre per capita per day (lpcd) to meet their drinking and cooking requirements.
- iii. Central Pollution Control Board (CPCB), in association with State Pollution Control Boards/Pollution Control Committees (SPCBs/PCCs), is implementing the provisions of the Water (Prevention & Control) Act, 1974 and the Environment (Protection) Act, 1986 to prevent and control pollution in water.
- iv. DoWR, RD & GR has notified guidelines dated 24 Sep 2020 for control and regulation of groundwater extraction with pan-India applicability. The guidelines include clauses on measures to be adopted to ensure prevention from pollution in the plant premises of polluting industries/projects.
- In addition, the quality of groundwater can be improved to some extent if concerted efforts are v. made to improve the groundwater resources through appropriate groundwater recharge/rainwater harvesting. Central Government has taken a number of initiatives in this direction which https://jalshaktican be seen at dowr.gov.in/sites/default/files/Steps%20taken%20by%20the%20Central%20Govt%20for%20w ater depletion july2022.pdf

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 2973 TO BE ANSWERED IN RAJYA SABHA ON 27.03.2023 REGARDING "GROUNDWATER CONTAMINATION IN DELHI-NCR REGION".

The details of the name of districts partly affected due to select contaminants in ground water of

Delhi NCR for last four years

Delhi –	NCT
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Year	Electrical Conductivity (EC above 3000 micro mhos/ cm) at 25°C	Fluoride (above 1.5 mg/l)	Nitrate (above 45 mg/l)	Iron (above 1mg/l)	Arsenic (above 0.01 mg/l)	Uranium (above 0.03mg/l)
2018- 19	North, West, South West, North West	North, South West, North West, Central, West	North, South West, South, West, New Delhi, Central, North West, East, South East			
2019- 20	North, Shahdara, South, South West, North West, West	North west, west	New Delhi, Central, North West, South West, West, North	West	Nazulland	North, North West, South West, West
2020- 21	North, west, Shahdara, South West, South, North West, Nazulland	South West, North, North West, West	West, South, New Delhi, North West, South East	North, South East, South West	South East	North, West, South West, North West, Nazulland
2021- 22	North, New Delhi, North West, South West, Shahdara	North, New Delhi, South West, South, Nazulland, West, North West	North, New Delhi, Central, North West, South, South West, West	North, Central, South East, North West	South East, Nazulland, North East	North West

Delhi – NCR (part of Uttar Pradesh)

Year	Electrical Conductivity (EC above 3000 micro mhos/ cm) at 25°C	Fluoride (above 1.5 mg/l)	Nitrate (above 45 mg/l)	Iron (above 1mg/l)	Arsenic (above 0.01 mg/l)	Uranium (above 0.03mg/l)
2018-19		G.B. Nagar	Baghpat, Bulandshahr, Ghaziabad, Meerut, Muzaffarnagar	Samples	not collected for Heavy Meta	l analysis
2019-20		G.B. Nagar	Bulandshahr, Muzaffarnagar	Meerut, Muzaffarnaga, Shamli, Bulandshahr	Muzaffarnagar	Ghaziabad, Bulandshahr, G.B. Nagar
2020-21			Baghpat, Meerut, Muzaffarnagar	Samples not collected for Heavy Metal analysis due to Covid Pandemic.		e to Covid Pandemic.
2021-22		G.B. Nagar	Baghpat, Bulandshahr, G. B. Nagar, Meerut, Muzaffarnagar	Bulandshahr, Ghaziabad, Meerut, Muzaffarnagar	Muzaffarnagar	Baghpat, Bulandshahr, G. B. Nagar, Ghaziabad, Muzaffarnagar

Delhi – NCR (part of Rajasthan)

Year	Electrical Conductivity (EC above 3000 micro mhos/ cm) at 25°C	Fluoride (above 1.5 mg/l)	Nitrate (above 45 mg/l)	Iron (above 1mg/l)	Arsenic (above 0.01 mg/l)	Uranium (above 0.03mg/l)
2018-19	Alwar, Bharatpur	Bharatpur	Alwar, Bharatpur		Parameter not analysed	Parameter not analysed
2019-20	Alwar, Bharatpur	Alwar, Bharatpur	Alwar, Bharatpur	Parameter not analysed		Alwar
2020-21	Alwar, Bharatpur	Alwar, Bharatpur	Bharatpur	Parameter not analysed	Parameter not analysed	Parameter not analysed
2021-22	Alwar, Bharatpur	Alwar, Bharatpur	Alwar, Bharatpur	Parameter not analysed	Parameter not analysed	

Delhi – NCF	l (part of	'Haryana)
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Year	Electrical Conductivity (EC above 3000 micro mhos/ cm) at 25°C	Fluoride (above 1.5 mg/l)	Nitrate (above 45 mg/l)	Iron (above 1mg/l)	Arsenic (above 0.01 mg/l)	Uranium (above 0.03mg/l)
2018-19	Faridabad, Gurugram, Jhajjar, Mewat, Palwal, Panipat, Rewari, Rohtak, Sonipat	Faridabad, Jhajjar, Palwal, Panipat, Rohtak, Sonipat	Faridabad, Gurugram, Jhajjar, Mewat, Palwal, Panipat, Rohtak, Sonipat			
2019-20	Faridabad, Gurugram, Jhajjar, Mewat, Palwal, Panipat, Rewari, Rohtak, Sonipat	Jhajjar, Panipat, Rohtak, Sonipat	Sonipat, Rewari	Faridabad, Panipat, Rohtak, Sonipat	Sonipat	Faridabad, Gurugram, Jhajjar, Palwal, Panipat, Rohtak, Sonipat
2020-21	Faridabad, Gurugram, Jhajjar, Mewat, Palwal, Panipat, Rewari, Rohtak, Sonipat	Faridabad, Jhajjar, Mewat, Palwal, Panipat, Rewari,	Faridabad, Gurugram, Jhajjar, Mewat, Palwal, Panipat, Rewari, Rohtak, Sonipat	Faridabad, Panipat, Gurugram, Sonipat	Jhajjar, Rohtak	Faridabad, Jhajjar, Palwal, Panipat, Rewari, Rohtak, Sonipat
2021-22	Faridabad, Gurugram, Jhajjar, Mewat, Palwal, Panipat, Rewari, Rohtak, Sonipat	Faridabad, Gurugram, Jhajjar, Palwal, Panipat, Rewari, Rohtak, Sonipat	Faridabad, Jhajjar, Mewat, Palwal, Panipat, Rohtak, Sonipat	Panipat, Jhajjar	Rewari, Jhajjar, Panipat, Sonipat	Faridabad, Gurugram, Jhajjar, Palwal, Panipat, Rewari, Rohtak, Sonipat
