

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI
DEPARTMENT OF DRINKING WATER AND SANITATION

LOK SABHA
UNSTARRED QUESTION NO. 637
ANSWERED ON. 06/02/2025

SETTING UP OF WATER TREATMENT AND DESALINATION PLANTS

637. SHRI APPALANAIDU KALISETTI:

Will the Minister of JAL SHAKTI be pleased to state:

- a) the number of water treatment and desalination plants set up during the last five years and the current year, State/UT-wise along with their locations;
- b) the total expenditure incurred in setting up of these plants, including a breakup of costs for water treatment and desalination plants along with the per-litre cost of treated fresh water and desalinated water;
- c) the number of people benefitted from these plants during the said period, including the details of areas with high water scarcity, State/UT-wise;
- d) whether the Government has allocated any funds for research and development in water treatment and desalination technologies and if so, the details thereof; and
- e) the details of the budget allocated for the said purpose during the last five years and the current year along with the outcomes achieved from these investments?

ANSWER

MINISTER OF STATE FOR JAL SHAKTI
(SHRI V. SOMANNA)

(a) to (c): Government of India is committed to make provision for safe & potable tap water supply in adequate quantity, of prescribed quality and on a regular & long-term basis to all rural households in the country. Towards this end, the Government of India launched the Jal Jeevan Mission (JJM), to be implemented in partnership with States, in August 2019. Under the Jal Jeevan Mission, as per existing guidelines, Bureau of Indian Standards' BIS:10500 standards are adopted as benchmarks for quality of water being supplied through the piped water supply schemes. Drinking Water being a State subject, the responsibility of planning, approval, implementation, operation, and maintenance of drinking water supply schemes, including those under the Jal Jeevan Mission, lies with State/UT Governments. The Government of India supports the States by providing technical and financial assistance. The choice of technology, best suited to the context in a State/UT, including use of desalination, for

making provision of potable water supply to households lies with the respective State/UT Governments. As such, project-wise details of individual projects/ schemes for rural water supply projects are not maintained at the Government of India level.

A Handbook on Drinking Water Treatment Technologies was released in March 2023 to disseminate information regarding new technologies available amongst all stakeholders to improve the performance and implementation of drinking water treatment plants using technologies that address local issues and challenges faced in water-quality affected villages. The States may take up appropriate water treatment system depending upon techno-economic feasibility. The details of Central fund allocated, drawn and utilization reported by the States/ UTs under JJM since 2019-20 to 2024-25 (as on 03.02.2025) for making provision of safe water through household tap water connection is at **Annex-I**.

As reported by State/ UT on JJM-IMIS, as on date, total of 35,699 Water Treatment Plants have been reported. State/ UT -wise details is at **Annex-II**.

(d) and (e): A ‘Technical Committee’ under the Chairmanship of Principal Scientific Advisor was reconstituted by DDWS for examination of Innovative technologies and Research and Development projects. The Technical Committee has approved eight Research & Development Projects. These R&D projects are undertaken by premier institutes like the Indian Institute of Technology (IIT), Council of Scientific and Industrial Research (CSIR), Institute of Minerals and Materials Technology (IIMT), and Centre for Water Resources Development & Management (CWRDM). The expenditure details on R&D projects are detailed below:

Financial Year	Expenditure
2019-20	Rs. 2.94 lakh
2020-21	Rs. 25.17 lakh
2021-22	Rs. 176.29 lakh
2022-23	Rs. 110.18 lakh
2023-24	Rs. 171.90 lakh

For FY 2024-25, the budget allocation is Rs. 5 cr and the expenditure made is Rs 15.36 lakh. Outcomes of the R&D work:

Development of/ study on:-

- Microfluidic Bottle Cap for Wastewater Treatment and Recovery Systems for Water Reuse;
- Remediating Community Well water contaminated with an emerging and endocrine disrupting micro pollutant Perchlorate;
- Point of use and in line water quality sensors for detection of coliforms;
- Eco restoration of abandoned quarries for water harvesting;
- Implementation of TERAFILE Water filtration system in iron contaminated areas of Jharkhand and Odisha; and
- Prototype development to treat pesticide residue in surface water bodies.

Annex-I referred in the reply to Lok Sabha unstarred Question No. 637 for reply on 06/02/2025

Jal Jeevan Mission: Allocation, Release, Expenditure in 2019-20 to 2024-25 (03.02.2025) (Rs. in Cr.)

Year	Opening Balance	Central	Central Share Release up to Month March	Expenditure Release Up to Month March				Bank Interest	Other deposits / Recoveries	Unspent Amount
	(Central Share)	Allocation		Total	Central	Expenditure in % age	State			(Central Share)
2019-20	2436.37	11139.21	9951.81	10074.28	5983.49	48.14	4090.79	40.73	1.95	6447.37
2020-21	6447.36	23033.02	10917.86	20449.96	12544.51	72.22	7905.45	5.23	0	4825.94
2021-22	4825.92	92308.77	40009.77	43551.85	25325.67	56.49	18226.18	0.01	0	19510.03
2022-23	19510.05	100789.77	54742.3	90795.87	50663.23	68.23	40132.64	0	0	23589.14
2023-24	23589.16	132936.83	69885.01	151386.94	82262.1	88.01	69124.84	0	0	11212.07
2024-25	11,180.11	69,926.68	21,918.94	53,865.56	26,532.30	80.16	27,333.26	0	0	6,566.75

Annex-II

Annex-II referred in the reply to Lok Sabha Unstarred Question No. 637 for reply on 06.02.2025

Details of Water Treatment Plant

(As on 03.02.2025)

S. No.	State Name	Water Treatment Plant (WTP)
1	Andaman & Nicobar Islands	-
2	Andhra Pradesh	277
3	Arunachal Pradesh	3,311
4	Assam	17,582
5	Bihar	-
6	Chhattisgarh	68
7	Dadra & Nagar Haveli And Daman & Diu	-
8	Goa	12
9	Gujarat	209
10	Haryana	1,059
11	Himachal Pradesh	660
12	Jammu & Kashmir	1,314
13	Jharkhand	348
14	Karnataka	2,219
15	Kerala	522
16	Ladakh	-
17	Lakshadweep	2
18	Madhya Pradesh	416
19	Maharashtra	907
20	Manipur	444
21	Meghalaya	1,456
22	Mizoram	295
23	Nagaland	635
24	Odisha	108
25	Puducherry	-
26	Punjab	763
27	Rajasthan	547
28	Sikkim	135
29	Tamil Nadu	252
30	Telangana	-
31	Tripura	445
32	Uttar Pradesh	639
33	Uttarakhand	531
34	West Bengal	543
Total		35,699

Source: JJM-IMI
