Jal Jeevan Mission - Water Quality Management Information System,

Department of Drinking Water & Sanitation, Government of India

Jal Jeevan Mission, is envisioned to provide safe and adequate drinking water through individual household tap connections by 2024 to all households in rural India. The programme will also implement source sustainability measures as mandatory elements, such as recharge and reuse through grey water management, water conservation, rain water harvesting. The Jal Jeevan Mission will be based on a community approach to water and will include extensive Information, Education and communication as a key component of the mission. The Jal Jeevan Mission will be based on a community approach to water and will include extensive Information, Education and communication as a key component of the mission. JJM looks to create a jan andolan for water, thereby making it everyone's priority.
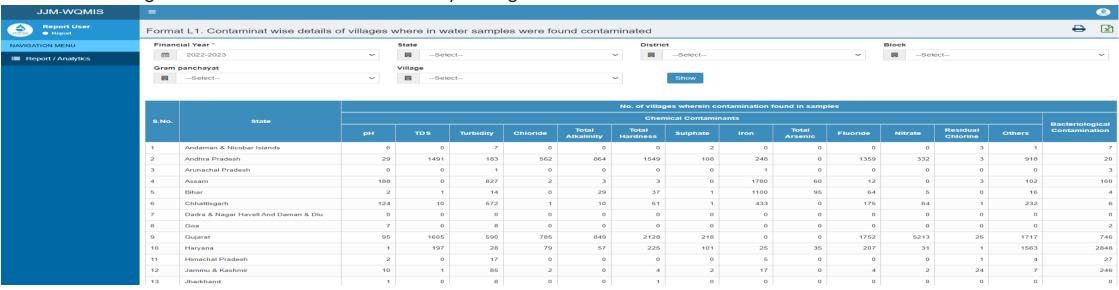
The objective of JJM-WQMIS is to enable states/UTs to test water samples for water quality, and for sample collection, reporting, monitoring and surveillance of drinking water sources. The WQMIS is designed to capture water quality test results by individuals, Governmental agencies and FTK tests conducted by the village community. All these test results are integrated into the system and shared with the relevant authorities and stakeholders. The results are accessible online for data and trend analysis. It is useful as advance alerts for timely remedial action.

WQMIS is an online tool created for water testing, maintained, and regularly monitored for investigating and tracking the quality of drinking water supplied. The data analytics used in WQMIS also aim to support the preventive measures to be taken for averting water-borne disease outbreaks.

There are various challenges faced before launch of WQMIS such as no tracking of water quality testing parameters on regular basis; credibility issue for water quality data, lack of awareness

among people about the water quality issues and challenges; stagnancy; risk management issues; no data sharing and least remedial actions against contaminated samples; lacking in online water quality monitoring system with respect to safe drinking water schemes at source and delivery points.

After the launch of WQMIS, the water quality testing data is captured and monitored regularly online by individuals, government agencies and field-testing kits tested are conducted by village community. All the water quality testing results are integrated into a system and shared with relevant authorities and stakeholders for trend analysis. This system is useful as advance alerts for timely remedial action for both chemical and bacteriological parameters. It has created accountability of concerned authorities to maintain water quality parameters within permissible limits to ensure access to safe drinking water and also, created ownership of the local community for regular testing of water quality.

JJM-WQMIS

Report User ● Report

NAVIGATION MENU

▤ Report / Analytics

Format L1. Contaminat wise details of villages where in water samples were found contaminated

| Financial Year * | State | District | Block |
| 📅 2022-2023 ˅ | ▤ --Select-- ˅ | ▤ --Select-- ˅ | ▤ --Select-- ˅ |

| Gram panchayat | Village |
| ▤ --Select-- ˅ | ▤ --Select-- ˅ | Show |

S.No.	State	No. of villages wherein contamination found in samples													
		Chemical Contaminants													Bacteriological Contamination
		pH	TDS	Turbidity	Chloride	Total Alkalinity	Total Hardness	Sulphate	Iron	Total Arsenic	Fluoride	Nitrate	Residual Chlorine	Others	
1	Andaman & Nicobar Islands	6	0	7	0	0	0	2	0	0	0	0	3	1	7
2	Andhra Pradesh	29	1491	183	562	864	1549	108	248	0	1359	332	3	918	20
3	Arunachal Pradesh	0	0	1	0	0	0	0	1	0	0	0	0	0	3
4	Assam	188	0	827	2	3	3	1	1780	60	12	0	3	102	160
5	Bihar	2	1	14	0	29	37	1	1100	95	64	5	0	16	4
6	Chhattisgarh	124	10	572	1	10	51	1	433	0	175	64	1	232	6
7	Dadra & Nagar Haveli And Daman & Diu	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Goa	7	0	8	0	0	0	0	0	0	0	0	0	0	2
9	Gujarat	95	1605	590	785	849	2128	218	0	0	1752	5213	25	1717	746
10	Haryana	1	197	28	79	57	225	101	25	35	207	31	1	1563	2848
11	Himachal Pradesh	2	0	17	0	0	0	0	5	0	0	0	1	4	27
12	Jammu & Kashmir	10	1	85	2	0	4	2	17	0	4	2	24	7	246
13	Jharkhand	1	0	8	0	0	1	0	0	0	0	0	0	0	

Salient Features:

- Access to nationwide data on quality of drinking water sources/ supply for each administrative unit. This can help in ensuring safe supply of drinking water for all. Initiate remedial action, if quality parameters of the samples tested are beyond prescribed values.
- Easy management of inventories, human resources and financial transaction of the laboratories. Online NABL accreditation.
- Access of all stakeholders to the nearest laboratories through online mode.
- Access to water sample test results and other details.
- Access to laboratory inventory, human resources, and fees collected by each laboratory. Auto alerts to concerned State/ UT PHED official to initiate remedial ac on, in case water sample is tested positive for contamination.
- Auto alerts to district health officer for initiating public health risk assessment in case of repeated/ severe contamination of test samples, etc.

Beneficiaries:

The beneficiaries of a Water Quality Monitoring Information System (WQMIS) include water management agencies, community, general public, and regulatory agencies. These groups can benefit from the data, analysis, and information provided by WQMIS to make informed decisions, advocate for safe drinking water and enforce water quality standards.

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