

RADHASOAMI DAYAL KI DAYA RADHASOAMI SAHAI

WATER QUALITY MONITORING REPORT
Most Probable Number (MPN) of Bacteria in Dayalbagh Wells

Date of Reporting : 26-Nov-2021

Date of Sampling : 24-Nov-2021

Permissible limit for MPN is <10 and for pH is 6.5 to 8.5

S.No.	Name of Well	MPN Of Bacteria in Sample (Per ml)		Is MPN Below Permissible Limit of 10?	KMnO ₄ Colour		pH
		Current Value	Previous Value		Current	Previous	
1	Gangavas	7.2	3.0	Yes	Light Pink	Light Pink	6.9
2	Dayal Nagar	7.2	7.4	"	"	"	7.2
3	Prem Nagar	3.0	7.2	"	"	"	7.1
4	Dunn Tubewell	6.1	7.2	"	"	"	6.9
5	Punjabi Farm	7.4	3.6	"	"	"	7.2
6	Dairy West	3.0	7.4	"	"	"	7.3
7	Pavan Kuan	6.1	3.6	"	"	"	7.1
8	DEI Dairy	6.1	7.2	"	"	"	7.0
9	Ganga Jal	7.4	3.6	"	"	"	7.2
10	Gaushala	3.0	3.0	"	"	"	7.2

Remarks of DAiWa QuMoG: Report will be shared with TFA-Water Supply Dept., requesting treatment of Gangavas, Punjabi Farm, Pavan Kuan and Ganga Jal as per the SOP-3(below).

Instructions Today: ~

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- 1) The study aims at continuous monitoring of potable well water to detect the presence of coliforms using the "multiple fermentation tube" or "most probable number" technique.
- 2) In this method measured portions of a water sample are placed in test-tubes containing a culture medium. The tubes are then incubated for a standard time at a standard temperature. It is customary to report the results of the multiple fermentation tube test for coliforms as a most probable number (MPN) index. This is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the test. **Note :** ↑ Denotes improvement in quality (↓ Inverse).
- 3) As a standard remedy, Potassium Permanganate is added in the ratio of 0.1 gm per litre to well water if MPN exceeds permissible limit. If the pH is less than permissible limits i.e., it is acidic, Hydrated Lime Powder i.e., **Ca(OH)₂** is added in the ratio of 0.037 gms per litre of water. The two remedial processes mentioned above are periodically repeated till the desired water quality is achieved.