## RADHASOAMI DAYAL KI DAYA RADHASOAMI SAHAI

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

Date of Reporting : <u>01-May-2022</u> Date of Sampling : <u>29-Apr-2022</u>

## 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	KMnO <sub>4</sub> Colour		рН	
		Current Value	Previous Value	Limit of 10?	Current	Previous	Current Value	Previous Value
1	Gangavas	3.6	3.6	Yes	Light Pink	Light Pink	7.3	7.4
2	Dayal Nagar	3.0	3.6	"	"	"	7.4	7.2
?3!	Prem Nagar	3.6	6.1	ű	"	"	7.4	7.2
4	Dunn Tubewell	3.6	3.0	u	"	"	7.2	7.3
5	Punjabi Farm	3.6	3.6	u	"	"	7.3	7.4
6	Dairy West	3.0	3.6	"	"	"	7.4	7.4
7	Pavan Kuan	3.6	6.1	<b>«</b>	"	"	7.4	7.4
8	DEI Dairy	6.1	3.6	<b>«</b>	"	"	7.4	7.2
9	Ganga Jal	3.6	3.6	u	"	"	7.3	7.3
10	Gaushala	6.1	7.2	<b>«</b>	"	"	7.4	7.3

Remarks of Water Quality Research Group: TFA-Water Supply Dept., will be requested for treating wells with Potassium Permanganate, where, in the current report, the Coliform Bacteria MPN has increased compared to the last report.

Remarks of Revered Chairman-ACE: Subject to item 3 for identifying any special reasons for considerable improvement in Coliform MPN value.

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Perused: Subject to Legalise / Legalese / "Laws of the Land".

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Sunday, 1 May 2022, 3:35 PM

- 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.
- 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)<sub>2</sub> 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.