

Water Management Cell

The list of activities/events organized during 2021-2022

Sl No.	Activity	Date
1.	Determination of water depth at different sources	March, April, May 2022
2.	Water Quality Testing	February, March and April 2022
3.	Webinar on “Ground water- Making the invisible visible”	22 March 2021

Activities conducted during 2021-2022

1. Determination of water depth at different sources

Available water depth of the various sources are taken for three consecutive months, March, April, and May of 2022. The water bodies are designated as A, B, C and D (Refer Fig. 1).

Table 1. Determination of Water Depth

No	Designation	Source	Water Depth (m)		
			March 2022	April 2022	May 2022
1	A	MBCET	2.23	4.1	4.3
2	B	Seminary	2.25	5.0	5.25
3	C	Sarvodaya Vidyalaya	3.40	3.1	3.5
4	D	Mar Ivanios College	4.76	4.34	5.4

2. Water Quality Testing

Water samples from 10 different locations namely, Seminary, Sarvodaya, MBCET, Ivanios, were taken directly from the source. Then samples from the Girls and Boys hostel before filtration and after filtration from cooler were taken. For MBCET campus, samples after filtration were taken from coolers from G- block and A- block. The samples were tested for 16 parameters and the values were compared against the permissible limits from IS-10500. The 10 sampling locations and the test results are given in Table-2 below.

Table 2 Test Results February 2022

No	Parameter	Source Designation									
		Seminary	Sarvodaya	MBCET	Ivanos	Girls Hostel source	Girls Hostel - Cooler	Boys Hostel - Source	Boys Hostel - Cooler	G-Block Cooler	A Block Cooler
1	pH (6.5-8.5)	6.28	6.10	6.98	5.60	6.94	7.80	7.32	7.49	7.63	7.98
2	Conductivity (2500µS/m)	283	274	150	151	197	670	169	177	169	161
3	Turbidity (1NTU)	0	0	0	0	0	0	0	0	0	0
4	TDS (500mg/l)	0.43	0.43	0.43	0.43	0.49	0.44	0.44	0.44	0.44	0.44
5	Hardness (200mg/l)	25	28	22	23	10	11.1	11	13	9	12.5
6	Acidity (200mg/l)	0	0	0	0	0	0	0	0	0	0
7	Alkalinity (200mg/l)	0	0	0	0	0	0	0	0	0	0
8	Chloride (250mg/l)	9.5	9.4	9.6	15	9.3	9.4	9.8	9.7	9.6	9.2
9	Residual chlorine (0.2 mg/l)	0	0	0	0	0	0	0	0	0	0
10	Sulphide (0.05 mg/l)	0	0	0	0	0	0	0	0	0	0
11	*Fluoride (1 mg/l)	1	1	1	1	1	1	1	1	1	1
12	*Chlorine (mg/l)	0	0	0	0	0	0	0	0	0	0
13	*Nitrate (45mg/l)	0	0	0	0	0	0	0	0	0	0
14	*Nitrite (3mg/l)	0	0	0	0	0	0.5	0	0.5	0.5	0.5
15	*Ammonium (0.5mg/l)	0	0	0	0	0	0.6	0	0	0	0
16	*Bacteriological analysis (0 CFU/100ml)	Y	N	Y	N	N	N	N	N	N	N

It is observed that the samples from Seminary and the MBCET had presence of E.coli for February 2022. It is to be noted that both samples are taken directly from source and the samples from outlets for MBCET did not have any presence of E.coli, which indicates the proper working of the existing

From the test conducted in April 2022, it is seen that all the parameters of all samples are found to be within the permissible limits as per Indian standards.

3. Webinar on “Water Resources of Kerala – Development, Issues and Strategies”

On ‘World Water Day’, the Water Management Cell, in association with Environmental and Water Resources Engineering Research group, Department of Civil Engineering conducted a webinar on “Groundwater- Making the invisible visible” on 22nd march 2022 at 7.00 pm. The session was handled by **Dr. Dineshan V. P**, Retd. Senior Principal Scientist, CWRDM, Kunnamangalam. The event was coordinated by Dr. Elizabeth C. Kuruvilla, Professor, (Dept. of CE) and Dr. Jaya S Pillai.

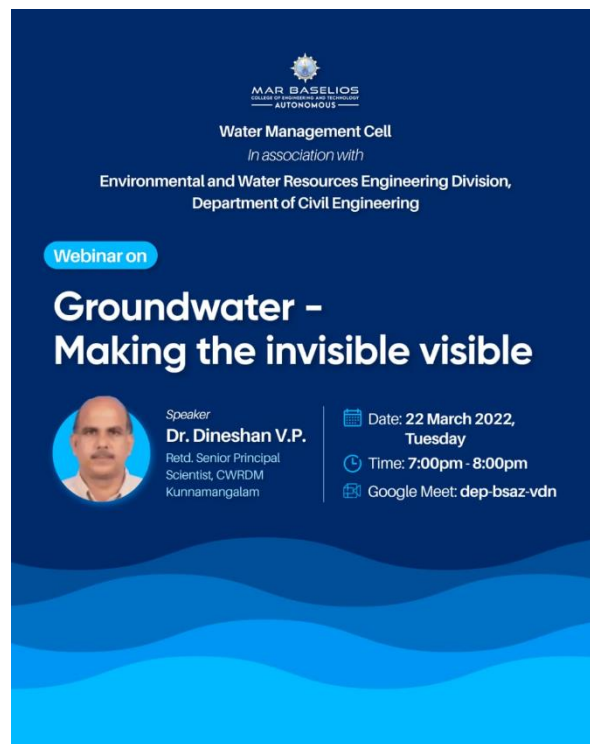


Fig. 8 Flyer of webinar

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