Measuring the total volume of water used in the university that is taken from Ground.

In a year approximately GIAM University maximum water requirement works for 200 days in year (5-day week, semester and winter breaks, and national holidays and non - presence of students during the industry internships).
The college **campus population is 31911** and **daily water requirement** is **33,35,000 litres** (approx.,).

The college campus depends on ground water for all its needs and for gardening it uses the recycled water.

The sources of water:

1. For normal usage Ground water.
2. For gardening recycled water.

To compensate the mentioned daily need GITAM Deemed to be University has 17+10+9+15 = 44 number of bore well / open recharge systems to maintain the adequate ground water levels.

EAST CAMPUS

S.NO.	Location	Pump Make	Motor rating (hp)	Borewells Depth (m)	Delivery Pipe size (mm)	Water Yield (LPH)	Average running Hrs. Per day	Average Yield per day (LPD)
1	Shanti Sadan	KSB	5	89.91	50.8	12000	10	120000
2	Play Ground of North Side Middle	KSB	3	48.7	38.1	5000	10	50000
3	Mother Teresa statue	KSB	5	64	38.1	10000	5	50000
4	Bhatnagar Bhavan	KSB	5	59.43	38.1	10000	20	200000
5	Cotton Bhavan	KSB	3	115.8	38.1	5000	20	100000
6	Staff Quarters	KSB	3	60.9	38.1	5000	20	100000

7	Kokila Sadan -3	KSB	3	48.76	38.1	5000	20	100000
8	ICT Bhavan	KSB	3	54.8	38.1	5000	12	60000
9	Nirmala Sadan -3	KSB	3	60.9	38.1	5000	10	50000
10	Baba Temple	KSB	5	70.1	50.8	12000	10	140000
11	Baba Garden	KSB	5	115.8	38.1	10000	10	100000
12	GIFT Bhavan	KSB	3	121.9	38.1	5000	20	100000
13	GIFT Generator shed	KSB	3	112.7	38.1	5000	10	50000
14	New STP Back side	KSB	5	39.6	38.1	5000	20	100000
15	Durgabai Desmukh sadan	KSB	5	85.3	38.1	5000	20	100000
16	IE Bhavan back side	KSB	5	48.7	38.1	5000	20	100000
17	Dental Genarator shed	KSB	5	115.8	38.1	5000	20	100000
Total								**16,20,000**

GIMSR CAMPUS

S.NO.	Location	Pump Make	Motor rating	Borewells Depth (m)	Delivery Pipe size (mm)	Water Yield (LPH)	Average running Hrs. Per day	Average Yield per day (LPD)
1	Near Temple	KSB	2	150	40mm	3000	8	24,000
2	Settler north side	KSB	5	325	40mm	3000	8	24,000
3	Medical College North East	KSB	3	180	40mm	3000	8	24,000
4	GIMSR Canteen east side	KSB	3	190	40mm	3000	8	24,000
5	Hospital Soth side	KSB	3	300	40mm	3000	8	24,000
6	Medical College North Side	KSB	5	300	40mm	3000	8	24,000
7	Gimsr Nursing Hostel East	KSB	3	200	40mm	1500	8	12,000
8	Near RMC Plant	KSB	5	225	40mm	1500	8	12,000
9	Boys Hostel Tower East side	KSB	5	400	40mm	1500	8	12,000
10	Main gate south side	KSB	5	275	40mm	1500	8	12,000
TOTAL								**1,92,000**

Bengaluru Campus

Sl. no.	Location	Pump Make	Motor Rating (HP)	No. of Stages	Borewell Depth (M)	Delivery Pipe Size (mm)	Water Yield (LPH)	Avg. Runing Hrs. per Day	Average Yield per Day (LPD)
1	Guest House	LUBI	17.5	30	270	50	4,000	3	12,000
2	Kempegowda Park	KSB	10	75	355	50	3,000	5	15,000
3	AB2 NE Near Fashion Street	Texmo	7.5	75	310	32	3,000	5	15,000
4	AB1 SW corner	Crompton	7.5	75	355	50	3,000	5	15,000
5	Vinay Sadan East garden	KSB	7.5	75	315	50	3,000	5	15,000
6	Kokila Sadan West road side	Texmo	17.5	36	310	50	3,000	5	15,000
7	Opp. East Gate	Sugana	7.5	40	380	40	2,500	10	25,000
8	Near Nursery Sump	LUBI	10	75	325	50	3,000	5	15,000
9	Near Nursery South-East Corner	LUBI	10	75	378	40	3,200	5	16,000
	Total								**1,43,000**

Hyderabad Campus

SL. no.	Location	Pump Make	Motor Rating (HP)	Borewell Depth (M)	Delivery Pipe Size (mm)	Water Yield (LPH)	Avg. Runing Hrs. per Day	Average Yield per Day (LPD)
1	NW of GH	HP Pump	5	48	50.8	15000	12	1,80,000
2	West side of GH	HP Pump	7.5	150	50.8	15000	10	1,50,000
3	west to Nursery	HP Pump	5	48	38.1	10000	5	50,000
4	Middle of Nursery	HP Pump	5	48	38.1	10000	5	50,000
5	Middle of Nursery	HP Pump	7.5	130	38.1	10000	3	30,000
6	NE corner to Nursery	HP Pump	7.5	330	38.1	7500	5	37,500
7	South to Nursery	HP Pump	6.5	330	38.1	6000	5	30,000
8	Nirman Bhavan	HP Pump	7.5	150	50.8	12000	6	72,000
9	East Side of STP	HP Pump	7.5	75	50.8	24000	8	1,92,000
10	East of Coconut Garden	HP Pump	7.5	60	50.8	24000	5	1,20,000
11	South East of Labor camp	HP Pump	7.5	60	63.5	24000	8	1,92,000
12	South to Rose Garden	HP Pump	7.5	130	31.75	12000	5	60,000
13	Near GHTP Substation	HP Pump	7.5	130	50.8	12000	5	60,000
14	North to Canteen	HP Pump	7.5	135	38.1	10000	8	80,000
15	near L quarters	HP Pump	7.5	61	50.8	15000	5	75,000
TOTAL								13,78,500

The total water extracted would be 3333.5 m3. Per day

GITAM University harvests rain water through rain water harvesting pits to recharge the ground water. It has more than 50 rain water recharge pits in its campus.

The extracted water is stored in water tanks so as to cater to the needs of the inmates. The tanks are constructed some in underground and some on roof top. The water storage capacity of tanks 75,00,000liters (approximately) cater to the needs of the inmates for about 48 hours in case of power failures.

Water usage tracking

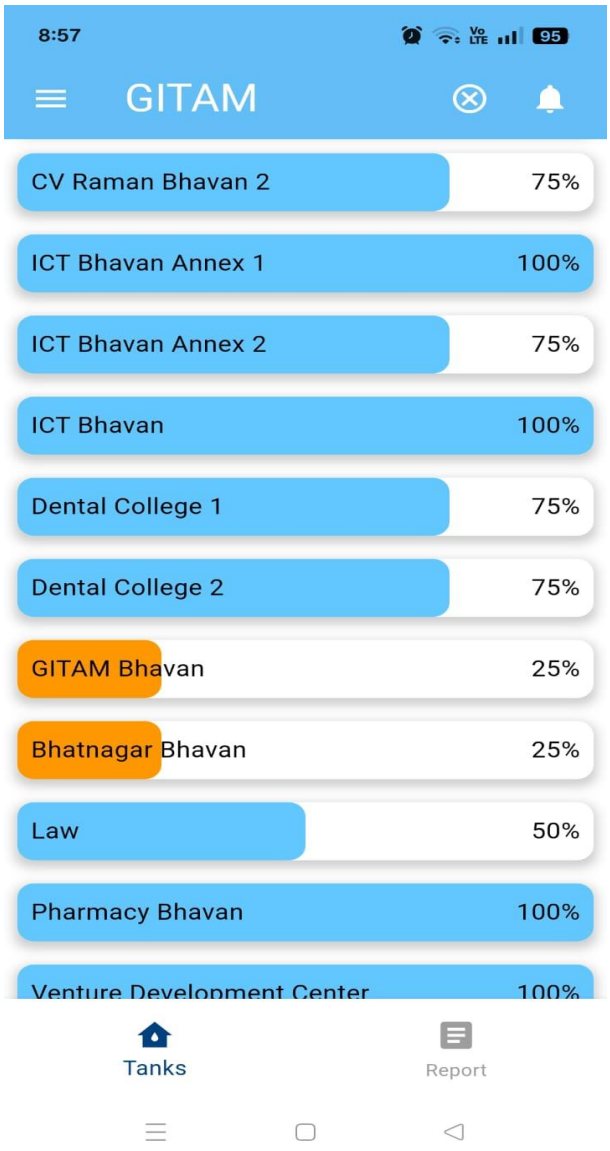
All the bore wells are used to fixed with water reading instruments.

The sample picture of the instrument with specifications

The water meter reading instrument is a KRANTI® water meter. It is a mechanical water meter commonly used for measuring the volume of water usage in residential, commercial, and institutional buildings. The specific type in the image is:

- Brand: KRANTI®
- Class: CLASS-B
- Standard: ISO 4064
- Max Pressure: PN 16 bar

All the water tanks are equipped with IOT tool to sensor the water level filled and auto terminate the inflow, which is monitored and controlled by using a App


8:57
GITAM
CV Raman Bhavan 2 75%
ICT Bhavan Annex 1 100%
ICT Bhavan Annex 2 75%
ICT Bhavan 100%
Dental College 1 75%
Dental College 2 75%
GITAM Bhavan 25%
Bhatnagar Bhavan 25%
Law 50%
Pharmacy Bhavan 100%
Venture Development Center 100%
Tanks
Report