

Update on the status of upgradation works for the Water Treatment Plant to supply good quality water on campus

2 messages

Chairperson Engineering Unit IITT <chairperson_eu@iittp.ac.in>

Fri, Aug 9, 2024 at 7:28 PM

To: Students IITT <students@iittp.ac.in>, Staff <staff@iittp.ac.in>, Faculty <faculty@iittp.ac.in>

Cc: "Asst. Executive Engineer E IITT" <aelectrical1_eu@iittp.ac.in>, Executive Engineer Civil IITT <eecivil1_eu@iittp.ac.in>, "Dean, Planning & Infrastructure IITT" <dean_pi@iittp.ac.in>, Assistant Registrar - General Admin 1 IITT <ar_genadmin1@iittp.ac.in>, Assistant Executive Engineer Civil IITT <aecivil1_eu@iittp.ac.in>, Engineering Unit <euteam@iittp.ac.in>

Dear All,

About the issues with the supply of quality drinking water, I would like to give you an update on the status of the upgrade works to improve the quality of water supply for use on the campus.

Due to the ongoing rainy season, the turbidity levels at our water source have increased beyond the treatment levels of the existing water treatment plant (WTP) plant.

To address this issue, the installation of an additional purification process comprising an agitator, clarifier, and multi-grade filter before the water treatment plant is in the process (please see the enclosed picture)

The installation process is nearing completion. Following completion, the system will be commissioned and has to be checked for all the water quality parameters through a series of laboratory testing.

In addition, it also requires a comprehensive cleaning of all tanks, starting from the Water Treatment Plant (WTP) tanks to the Overhead Tanks (OHTs).



We anticipate that all these processes will take approximately three more weeks and hence by the **end of August 2024**, we will be able to provide regular drinking water for use.

We request your cooperation and appreciate your understanding of the situation.

Thanks and regards,
Janaki Ramaiah

On Thu, Jul 25, 2024 at 12:10 PM <aelectrical1_eu@iittp.ac.in> wrote:

Dear all,

I am directed to inform you that due to a rise in water turbidity levels in the pond water, the 600kLD Water Treatment Plant (WTP) treated water currently exceeds acceptable limits. As a precautionary measure, we are closing the drinking water fountains and request that water not be consumed directly from water fountains at academic buildings, North Dining block, and hostel Malhar & Des until further notice. Additionally, portable water bubbles and cans will be provided in the North Dining block, hostels Malhar, and academic buildings for drinking purposes.

However, water fountains on the South campus remain safe for consumption.

Rest assured, we are working to resolve the WTP issues and will notify you once the water quality improves.

Thanks / Regards,

P. Mallikarjuna Reddy, M.Tech

Asst. Executive Engineer (Electrical)

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Let us work without desire for name and fame and rule over others. Let's be free from triple bonds of lust, greed of gain, and anger.

And this is with us! "Swamy Vivekananda"

Dr. B Janaki Ramaiah, PhD, MISSMGE, AMASCE, LMIGS, MSNSG

Chairman, Engineering Unit

Assistant Professor (Geotechnical Engineering)

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Chair, Council of Wardens IITT <ccw@iittp.ac.in>

Mon, Aug 26, 2024 at 1:30 PM

To: Students IITTP <students@iittp.ac.in>, Students' General Secretary <general_sec@iittp.ac.in>, Hostel Affairs Secretary IITT <has@iittp.ac.in>

Cc: Executive Engineer Civil IITT <eecivil1_eu@iittp.ac.in>, Dean of Students Affairs IITT <dean_sa@iittp.ac.in>, "Asst. Executive Engineer E IITT" <aelectrical1_eu@iittp.ac.in>, "Dean, Planning & Infrastructure IITT" <dean_pi@iittp.ac.in>, Assistant Registrar - General Admin 1 IITT <ar_genadmin1@iittp.ac.in>, Assistant Executive Engineer Civil IITT <aecivil1_eu@iittp.ac.in>, Engineering Unit <euteam@iittp.ac.in>, Chairperson Engineering Unit IITT <chairperson_eu@iittp.ac.in>, Hostel Management IITT <home@iittp.ac.in>, Wardens IITTP <wardens@iittp.ac.in>, Assistant Wardens <asstwardens@iittp.ac.in>, Srinivasulu P <srinivasulu@iittp.ac.in>, Kishore T <kishore@iittp.ac.in>, Thota Ganesh <ganesh@iittp.ac.in>, Asha T <asha@iittp.ac.in>

Dear students (particularly of north campus)

Please see trailing mail below for the temporary/long-term resolution of the water quality issues in the north campus. The summary of the proposed solution is as follows:

1. The EU is proposing to fill the water tanks with borewell water in both Malhar and Des hostels. Given the limitations of the borewell and pumping equipment, each hostel will get around 25,000 - 27,000 liters of water per day, which translates to around 60 liters of water per student per day. This means that students must use water cautiously to ensure that there is no shortage of water. Rest assured that 60 liters/person/day (excluding drinking water, flushing and cooking) is more than enough. I sincerely request students to restrict their baths to 1 bucket. This will ensure that we have no water shortages.
2. The drinking water cans will continue to be supplied in both hostels.. Please do not use this water for non-drinking purposes, as this results in shortage of drinking water.
3. Work on the Water treatment plant is progressing and should be complete by month-end as promised.

I am urging all students to cooperate during this time so that we can ensure the comfort and safety of all residents. Please let me know if there are any questions.

Regards,
Prasanna

On Sun, 25 Aug 2024 at 20:39, Chair, Council of Wardens IITT <ccw@iittp.ac.in> wrote:

Dear Chaitanya garu,

Thank you for the detailed message. I think this is an acceptable solution while we wait for the WTP to get ready. The pumping schedules need to be planned in such a way that the tanks are full in the early mornings (6 to 10 am) and again the evenings (6 to 10 pm).

I think we should not start the drinking water fountains immediately. They have been lying unused for a month or more, so we should flush them following the usual procedure. Also, I feel we should continue supplying the water cans, to avoid any shortage of drinking water. It is a matter of one more week, by that time the WTP will be ready hopefully.

Thank you once again for your team's hard work and perseverance.

Regards,
Prasanna

On Sun, 25 Aug 2024 at 20:07, Executive Engineer Civil IITT <eecivil1_eu@iittp.ac.in> wrote:

Subject: Update on Water Supply Arrangements for North Campus Hostels

Dear Sir,

In line with our recent communications regarding the water treatment issues, I would like to update you on the steps we have taken to address the turbidity concerns. We have initiated an action for a pre-treatment process before the Water Treatment Plant (WTP) to address these issues. The system is currently in the testing phase, and we will keep you informed as we work towards achieving the desired water quality parameters.

To address the immediate water turbidity issues at the North Campus Hostels, the Engineering Unit has made temporary arrangements to supply water from the borewell located near Hostel 01. This arrangement was put into effect last night as a trial run. We are pleased to inform you that initial tests of the borewell water indicate that it meets reasonable TDS and turbidity parameters, making it safe for both bathing and drinking. This also allows us to utilize the water fountains at both Hostels 01 and 02, eliminating the need for additional drinking water cans.



Quality of Bore Water

However, please note the following limitations regarding the use of this borewell water:

- The current water consumption for the North Campus Hostels is around 40,000 to 45,000 liters per day, which translates to

approximately 100 liters per student only for bathing and clothes washing, excluding flushing, cooking, and utensil cleaning.

- With the borewell water, we can supply only 25,000 to 27,000 liters per day per hostel, covering approximately 450 students with 60 liters per student, nearing in line with WHO norms.
- The borewell requires 6 to 7 hours to fill 25,000 liters in the overhead tank at each hostel. If we continue using this borewell water, we can extract 50,000 to 55,000 liters daily with 14 to 15 hours of pumping, under the close supervision of the Engineering Unit maintenance team.

If we can minimize water usage beyond the standard norms, we can continue using this borewell water for both washing and drinking purposes until the WTP and pond water turbidity issues are fully resolved.

We plan to commence the supply of 25,000 liters to 27,0000 liters per hostel **tomorrow evening, upon your approval**, as we are currently in the trial phase.

Please provide your confirmation to proceed with this proposal and guide us on the way forward.

Thank you for your attention and cooperation.

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With Best Regards

K R S K Chaitanya

Executive Engineer (Civil)

Engineering Unit

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