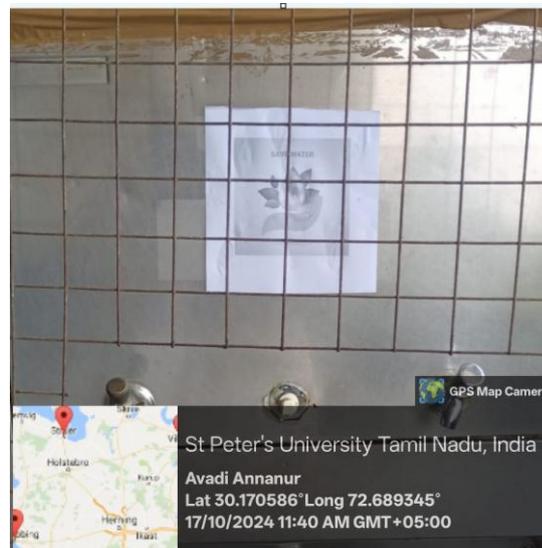
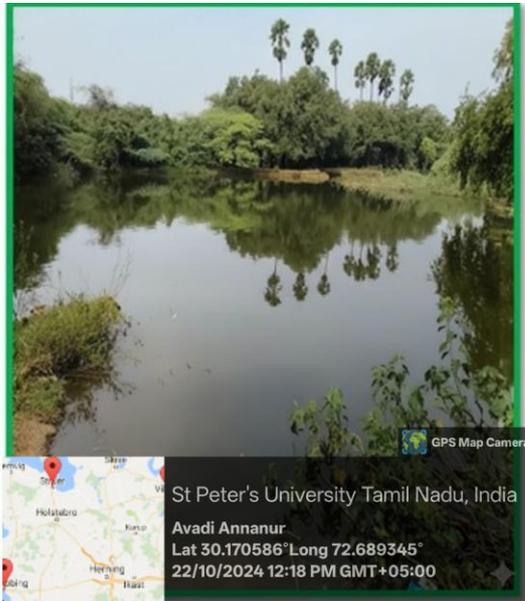




6.5.5 University's Commitment to Sustainable Water Extraction and Water Security Collaboration

SPIHER is strongly committed to responsible water stewardship, ensuring that any water extracted from natural sources such as aquifers, lakes, or rivers is managed through sustainable, efficient, and environmentally responsible technologies. On both campus and associated off-campus locations, the institution implements modern water extraction systems designed to minimise environmental impact and maintain long-term ecological balance. These

include energy-efficient borewell pumps, regulated groundwater extraction mechanisms, flow-control devices, and continuous monitoring systems that assess water levels, recharge capacity, and extraction patterns.



“At SPIHER, water is drawn from the lake, passed through borewells to the sump and storage tanks, ensuring clean water supply across the campus.”

To complement these technologies, the university practices rainwater harvesting and groundwater recharge on a large scale. Recharge pits, percolation ponds, and rooftop harvesting systems are integrated across campus infrastructure to replenish aquifers and reduce dependency on external freshwater sources. Periodic water audits and environmental

assessments are conducted to ensure that extraction does not exceed sustainable limits, reinforcing the institution's commitment to responsible and science-based water management.

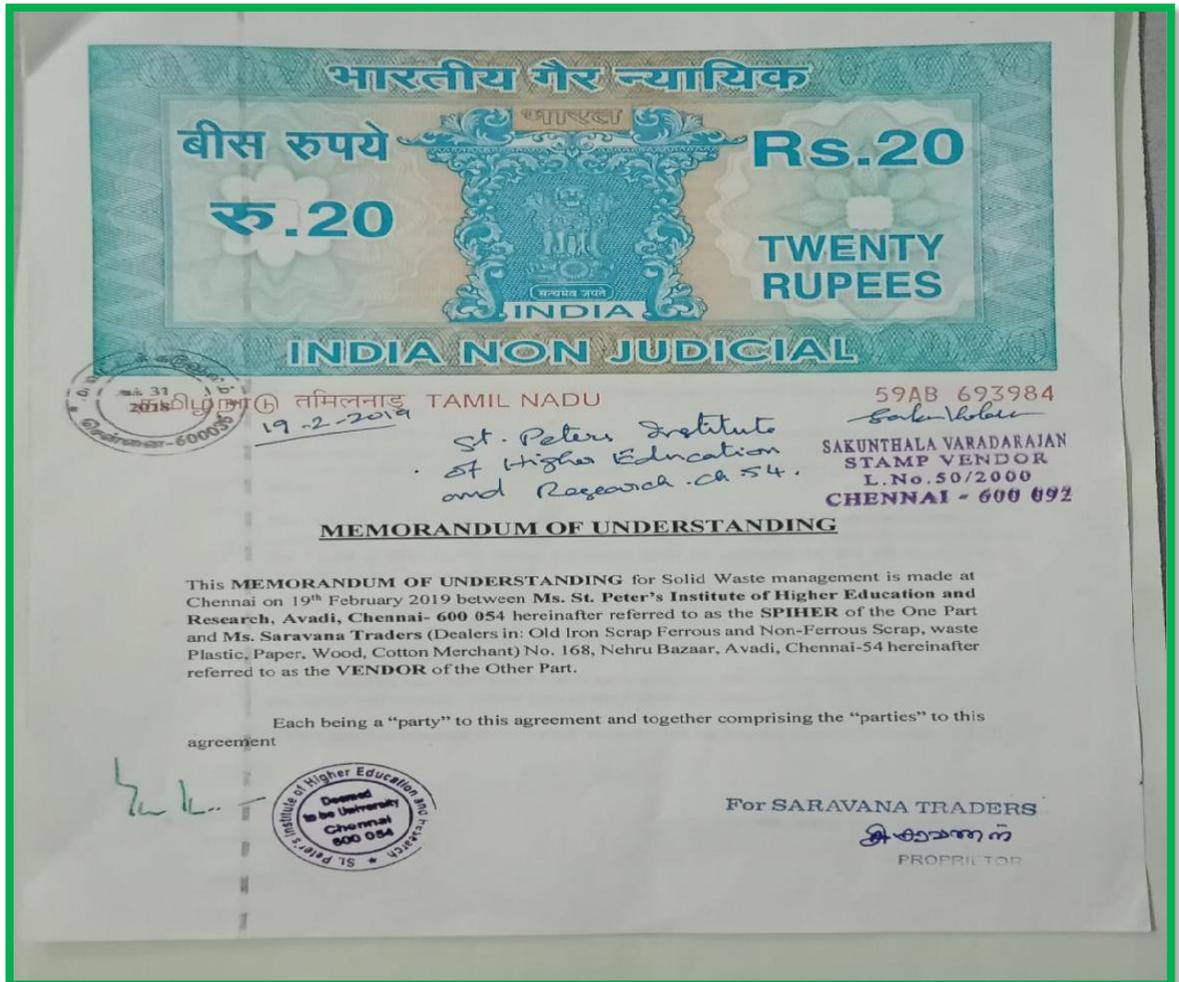
Beyond operational practices, the university actively collaborates with local, regional, national, and global bodies to address broader water security challenges. It maintains partnerships with municipal authorities, environmental agencies, research institutions, and government departments to contribute technical expertise, share data, and develop community-oriented solutions. Through joint workshops, policy consultations, research projects, and student-led outreach initiatives, the university supports efforts to strengthen water governance and improve access to clean and safe water resources.



MoU with External vendor to dispose solid waste

The institution also contributes to regional water conservation plans by offering academic knowledge, innovative technologies, and evidence-based recommendations. It participates in government-led campaigns on watershed protection, sustainable irrigation, water quality monitoring, and climate-resilient water management. Furthermore, faculty and

student researchers engage in interdisciplinary projects that explore water scarcity, pollution control, hydrological modelling, and sustainable usage practices.



MoU with External Vendor to dispose E-Waste



External Agency Vendor collecting E-Waste

Through these extensive measures combining sustainable extraction technologies with active cooperation at multiple levels the university demonstrates a holistic commitment to safeguarding water resources. Its efforts not only support campus needs but also advance long-term water resilience and security for the communities and ecosystems surrounding it.



Certificate of E-Waste Disposal

Conclusion:

Through the implementation of sustainable water extraction technologies, large-scale rainwater harvesting, and systematic groundwater recharge, SPIHER demonstrates a strong commitment to responsible water management. Coupled with periodic audits, environmental assessments, and collaborations with local, national, and global agencies, the university ensures that water resources are used efficiently and sustainably. By integrating operational best practices with research, community engagement, and interdisciplinary initiatives, SPIHER not only meets its campus water needs but also contributes to broader water security and environmental stewardship. These efforts reflect a holistic, science-driven approach to preserving water resources, fostering resilience, and promoting long-term ecological balance for both the university and the surrounding communities.