

COME celebrate with us the 2019 NSTW!

17-21 July 2019, Wednesday-Sunday

World Trade Center, Pasay City

Theme: "Science for the People: Enabling Technologies for Sustainable Development"

Rainwater harvesting made safe, easy

Pila-balde or lining up for hours to get water is now a thing of the past.

The Industrial Technology Development Institute (DOST-ITDI) has made safe and easy rainwater harvesting and storage for reuse on-site.

Rather than allowing it to run off, one can collect rainwater from rivers or roofs and in other places, and redirect it to a modular rainwater collection system made from nanocomposite thermoplastic geomembrane.

Developed by DOST-ITDI, the technology addresses water scarcity for non-potable domestic use in the metropolis. Easy to install, deploy, and store when not needed, the system can fit into most individual homes.

The collection system is fashioned from a geomembrane or liner made by compounding high-density plastic with nano calcium carbonate.

Unlike your metal or plastic tanks, ITDI's system in an "as is state"

- Displays thick and compact sheets;
- Has high melt flow index such that it can easily be formed, but low enough such that its mechanical strength is sufficient for its purpose; and
- Does not allow water or solvent migration.



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Further, adopters of the system are assured that the materials used has passed the mechanical performance tests for

- Tensile strength and elongation;
- Tear resistance;
- Impact resistance;
- Puncture resistance;
- Interface shear strength;
- Anchorage strength; and
- Stress cracking.

The modular rainwater collection system is one of 21 ITDI-developed technologies selected to be featured in Cluster 1 - Food Security, Energy, and Environment of the 2019 National S&T Week (NSTW) Exhibits slated on July 17-21, 2019 at the World Trade Center-Metro Manila. Admission to the exhibits is FREE. It is open to the public from 8:00 AM to 5:00 PM.

NSTW is celebrated every third week of July through Proclamation No. 169 of 1993 to highlight significant contributions of S&T to national development. (AMGuevarra\ ITDI S&T Media Service)

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