

Homosep Atom

Source: PIB

Homosep Atom, developed by the startup named **Solinas**, is India's **first** <u>septic tank/manhole</u> cleaning <u>robot</u>, is revolutionising sanitation efforts nationwide, replacing <u>manual scavenging</u> with a comprehensive robotic solution, bolstering the <u>Swachh Bharat Campaign</u>.

- It streamlines sewer cleaning with multifunctional capabilities, curbing costs and fostering robotic sanitation while mitigating blockages in congested areas.
 - Extending its reach to large complexes and individual residences, it has enhanced municipal waste management, prioritising worker safety and efficiency.
- Solinas, a <u>deep-tech startup</u> from IIT Madras, pioneers <u>miniature robots</u> for water-sewer pipelines, aided by the <u>Department of Science and Technology -Technology Business</u> Incubator (DST-TBI), addressing contamination challenges, climate tech solutions, and <u>Al-based pipeline</u> diagnostics for sustainable water management.
- DST's Technology Business Incubators (TBIs) in academic, technical, and R&D institutions under the <u>NIDHI program</u> support innovative startups, encouraging youth to create knowledgebased enterprises, solve societal challenges, and contribute to national growth.



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