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Chennai's CSIR-SERC came up with an easy to assemble toilet that could solve all the problems regarding lack of toilets in the interior regions of India.



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(Representational image)

The Council for Scientific and Industrial Research and Structural Engineering Research Centre (CSIR-SERC) in Chennai has come up with an easy to assemble toilet that could reach interiors of India where there are a severe lack of toilets.

More about the easy to assemble toilets:

- The toilet can be assembled in less than 5 hours
- It will weigh less than 500kg
- The toilet is made with a textile reinforced concrete (TRC) panels developed by CSIR
- The life span of the toilet would be around 25-30 years
- These sheets vary in thickness from 15mm to 25mm and there is absolutely no need for moulds in order to prepare these sheets
- These sheets are corrosion free and are able to hold in rough winds; so, these sheets will withstand every kind of weather
- For now, each toilet costs between Rs 12,000 and Rs.15,000. With buildtex-the textile used in building applications--being manufactured in India, the cost is expected to come down.

As reported by The Hindu, on Saturday a memorandum of understanding was signed between CSIR-SERC and Smart Build Prefab Pvt. Ltd, Hyderabad for the transfer of manufacturing TRC panels required for the construction of such toilets.

The TRC panels can also be used as flooring, roofs, doors, walls, etc. The sheets are reinforced using a glass textile mesh along with a grained cementitious binder. It was in 2014 that the CSIR-SERC applied for a patent for this versatile piece of technology.

This memorandum is said to have been signed during the foundation day programme of CSIR-SERC, which was presided over by Santosh Kapuriya, Director, CSIR-SERC.

About CSIR:

CSIR is an autonomous body and India's premiere research and development (R&D) organisation. Its other activities include research in structural engineering, life sciences, chemicals, aerospace engineering, ocean sciences, mining, leather, food, petroleum and environment. The CSIR laboratories have achieved expertise in structural components, design and testing of structure and analysis. It's primarily funded by the Union Ministry of Science and Technology. The services are sought by the union, state as well as public and private sector undertakings.