



## **MEDIA RELEASE**

*For immediate release*

### **MEIDEN SINGAPORE awarded one of world's largest ceramic membrane bioreactor projects to treat and recycle used water at Singapore's Changi Water Reclamation Plant**

Singapore, 18 March 2015 - MEIDEN SINGAPORE (MSL)'s ceramic flat sheet membranes will be integral in achieving a clean, compact and effective way to recycle water at one of the world's largest ceramic membrane bioreactor (MBR) projects. This project is part of national water agency PUB Singapore's efforts to upgrade Changi Water Reclamation Plant in Singapore, and the retrofit construction is expected to complete by late 2016.

When completed, this will be the largest project of its kind in Singapore where the ceramic membranes will be used for the MBR process in a full-scale water reclamation plant. The ceramic MBR system has an expected treatment capacity of 3.3 million gallons (i.e. 15,000 cubic meters) of used water per day. The robust ceramic membranes have high resistance to chemical damage and thermal degradation, resulting in a longer lifespan than conventional polymeric membranes. The membrane is easy to maintain and compact.

MSL has been conducting verification tests for the ceramic MBR system in test-bedding projects at various water reclamation plants in Singapore following an MOU signed during the Singapore International Water Week (SIWW) in 2010. The subsequent establishment of the ceramic MSL demonstration plant and first Upflow Anaerobic Sludge Blanket (UASB)-Ceramic MBR Plant has successfully demonstrated MSL's solutions in effectively treating and recycling used water in greater volumes.

"R&D is key in ensuring a sustainable water supply, and we have been working with our partners to test-bed potential solutions to treat and produce water effectively. The use of the ceramic membranes in the MBR plant at Changi Water Reclamation Plant is an important step forward in our R&D to find new water solutions," said Mr Harry Seah, Chief Technology Officer, PUB Singapore.



Mr. Sugii Mamoru, Managing Director of Meiden Singapore, said, “We are very appreciative and thankful that MSL is able to be part of this project. It is recognition of the efficiency and effectiveness of our ceramic flat sheet membrane in producing consistently high-quality of recycled water with higher yield.”

He added, “MSL will establish an R&D center as well as an assembly unit for ceramic membranes in Singapore. It will also base the regional Headquarters for water businesses here. We believe our investments in this specialised technology will contribute to Singapore’s position as a global hydro hub for business and technology.”

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#### **About MEIDEN SINGAPORE**

Established in 1975, Meiden Singapore is a fully owned overseas subsidiary of Meidensha Corporation in Japan. It has been manufacturing transformers and switchgears primarily for the Asian market. It will soon be the home of Ceramic membranes assembly in Singapore by 2015.

The principal place of business is: 5 Jalan Pesawat Jurong Industrial Estate in Singapore.

The number of employee: 350 people. Capital: 25.4 million Singapore dollars. Annual Revenue of Fiscal Year 2014-: 161 million Singapore dollars.

Home Page: <http://www.meidensg.com.sg/index.htm>

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