Water and Sustainable Urban Development of Ulaanbaatar City

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Overview of Ulaanbaatar City

- Ulaanbaatar is Capital city, administrative, cultural, commercial and financial center of Mongolia
- Elevated at 1,310 m above sea level and lies in the Tuul River valley
- In recent years, Ulaanbaatar has undergone rapid expansion due to the high-level of rural-to-urban migration
- The population growth has exceeded the capacity planned urban core area
Overview of Ulaanbaatar City

- The in-migrants have settled in the Ger-areas located outside the conventional built-up area of the city with predominantly traditional Ger (felt-tent) housing and low-levels of infrastructure and service provision.
- Population: ~1.3 million people
  - About 40% of citizens live in Ger areas, where water is distributed by small water kiosks
  - Others live in built-up area with centralized water supply network
Water Supply and Sewerage Authority of Ulaanbaatar City

Our mission: To distribute the potable water to citizens of Ulaanbaatar City, that meets the standards and discharge the treated wastewater to the nature by keeping the ecological balance.”

Water production

Water distribution

Customer

Collection of wastewater

Wastewater treatment

Discharge Tuul river
Daily water consumption in Ger areas for one person

- In areas, where water distributed by kiosks connected to the water supply network: ~ 8.4 litres/day
- In areas, where water distributed by truck supplied kiosks: ~ 6.9 litres/day
Main Issue

According to the Action Plan of the City Mayor:

- The sustainable development of Ger areas into the urban areas with modern houses and infrastructure in coming 6 years is one of the critical development issues facing the city
Cooperation with Japan

By JICA’s grant aid in 2011-2014 we are implementing the project on developing the new water source in Gachuurt area to provide better water supply for the citizens in Ulaanbaatar city including the Ger areas.
Cooperation with Japan

By UN-HABITAT Regional Office for Asia and the Pacific - Fukuoka’s grant aid on August, 2010 the Water Supply and Sewerage Authority of Ulaanbaatar together with Fukuoka’s specialists placed 80 eco-bio floating blocks in the bio pond of the Gordok village in the Nalaikh District.

As a result, contamination in Gordok village was decreased.
Future Cooperation

Continuously expand our cooperation in the area of building soil treatment and decentralized wastewater treatment system in per urban Ger area of Ulaanbaatar City.
Thank you for your attention!