Contents:
Existing paddy fields were not constructed in a day. They are the results of farmers’ efforts and struggles over a long period to construct canals for irrigation and drainage, farm roads and plots, and to level the land and suppress seepage, which we can express our pride in to the world. It is our duty to reclaim and consolidate these paddy fields on present farmers’ initiative.

I refer to paddy fields constructed like this as “well-constructed paddy fields”. Consolidation of farm foundations into well-constructed fields enables farmers to obtain fields that will endure disasters and give constantly high yields. Farmers maintain and improve soil fertility to produce food that is good for human health. Moreover, well-constructed fields conserve the environment by protecting farm villages, cities and ultimately the earth.

-Our Targets- Existing fertile farm lands are the fruits of agricultural engineering which has turned natural land into cultivated fields. “Irrigation, drainage and reclamation engineering” consolidates land into basic foundations for agricultural modernization, increases food self-sufficiency, improves people’s lives and their living environment by construction of dams, canals, farm roads, bridges and other related structures.

Now let’s consider the future. Coming ages are said to be those of irrigation, drainage and reclamation engineering. It has been stated that all the people on the earth need to extend the existing area of arable land. The Irrigation, drainage and reclamation engineering is an applied science for handling environmental conservation, irrigation and drainage; for improving existing arable land; for planning and consolidating agricultural villages; for devising and designing agricultural facilities and structures, as well as for reclaiming land farm.

My laboratory’s grad students emphasize “Farmland reclamation and consolidation” from the stand-point of farmers. The basic idea is to create “sustainable agriculture” by farmers themselves, which means farming to maintain and improve soil fertility, while not damaging the environment and to constantly provide food that is good for human health. Our study discuss how to construct farm foundations for that purpose.
• Describe how to reclaim and consolidate farmland.
• Describe farmland from the viewpoints of worldwide environmental conservation; air, water and soil.
• Discuss methods of farming to achieve ”sustainable agriculture.”
• Establish Sustainable Agriculture.

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