### Objective/Outcome

**Objective**
Expertise on construction plans and execution management is shared with engineers in organizations implementing agricultural infrastructure improvement projects, and the consideration of the actual construction project is initiated.

1. Participants will be able to identify challenges in their own countries with regard to the legal system, processes up to the drafting of plans, project implementation systems, environmental considerations, etc.
2. Participants will be able to make judgments about the appropriateness of infrastructure improvement projects in terms of technical levels, economic efficiency, and environmental and social considerations.
3. Participants will be able to explain typical construction methods in agricultural infrastructure improvement projects as well as highly versatile expertise and techniques.
4. Participants will be able to explain expertise and techniques with regard to execution management and safety measures.

### Target Organization / Group

**Target Organization**
Governmental organizations and other relevant organizations which is involved in agricultural infrastructure project

**Target Group**
1. Leading civil engineers with experience in surveying, planning, construction management or infrastructure management for agricultural infrastructure improvement
2. Having 3 years more practical experience in relevant fields
3. Under 50 years old

### Contents
Following lectures, observations, practical exercises and discussions are provided. Classes mainly consist of a combination of lecture and observation.

1. PCM Workshop Underdrainage  
2. Drainage Channels and Pipelines  
3. Upland Field Irrigation Facilities  
4. Planning and Design of Irrigation Pipelines  
5. Planning and Design of Head Work  
6. Farmland Reclamation Project  
7. Farm Road Improvement Project  
8. Planning and Designing of Dam Engineering Materials  
9. Agricultural Land Disaster Prevention Project  
10. Property and Utilization of Engineering Materials  
11. Farming Program and Project Effect  
12. Construction Cost Estimating and Scheduling  
13. Project Implementation and Environmental Measures  
14. Construction Planning and Safety Measures  
15. Progress Control and Quality Control  
16. Overview of Agriculture in Tokachi Region  
17. Outline of Land Improvement District

### Implementing Partner
The Association of Small Business Entrepreneurs (Tokachi branch)