

Trend of VE in Japan

- VE in planning phase ↓
- VE in contract phase ↑
- VE in construction phase ★

1. Experience of VE applied to Irrigation and Drainage Project in Japan

- VE has been applied to the irrigation and drainage projects executed by public sector since 1998.

20 years

- This public promotion was based on the action agenda of cost saving in 1997 by Japanese Government.

By Government

- The irrigation and drainage sector in Japan has been accumulated actual performance of VE for 20 years.
- Considering the progress of public project, VE is classified into three types, which are VE in planning, VE in contract, and VE in construction. Usually the VE in planning brings higher cost-saving ratio because it has less constraints than other VE. In this paper, VE in planning applied to Japanese public projects of irrigation and drainage is reported.

2. Considering the progress of public project, VE is applied to three phase

- VE is applied to three phase which are planning, contract, and construction phase.

Planning, Contract, and Construction

- VE in planning phase bring high cost-cut ration.
- VE in construction brings high cost-cut amount.

Ration and Amount

3. Trend of VE in Japan

- The number of VE in planning is decreased.

Knowledge has improved design criteria

- VE in contract phase has been usual method.

Proposal for bit

- VE in construction will be increased by efficient agenda.

Shared the benefit