TF–VE meeting

I am honored to attend the TF–VE meeting. I appreciate chairman and members.

Toshihiko Kuno

Doctor of Agriculture
- optimization of farm reservoir
Company Executive of Sanyu Consultants Int.
- firming program, participatory planning

VE in Japan

1. In 1997 Japanese Government implemented VE for cost reduction
2. In 1998 Ministry of Agriculture, Forestry, and Fishery of Japan started the VE Training Program and developed the VE implementation manual.
VE in Japan

1. Internal VE meeting
   - Information and intelligence sharing
   - By Individual organization
     - Collection of VE record is difficult.

2. VE with experts discussion
   - VE bring the better idea
     - Jiid has many VE records.

JIID: The Japanese Institute of Irrigation and Drainage

According to JIID VE Records

JIID has promoted 80 cases since 1998.
Subjects for VE are Dam, head works, pump station, canal works, pipeline, tunnel, farm pond, bridge, removal works, and other

JIID: The Japanese Institute of Irrigation and Drainage
According to JIID VE Records

Number of VE for

Basic Design < Detail Design

<table>
<thead>
<tr>
<th></th>
<th>Basic Design</th>
<th>Detail Design</th>
<th>Total</th>
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<tbody>
<tr>
<td>VE case number</td>
<td>20</td>
<td>60</td>
<td>80</td>
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<tr>
<td>Original Cost million yen</td>
<td>89,743</td>
<td>106,698</td>
<td>196,441</td>
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<tr>
<td>Cost Cut million yen</td>
<td>8,224</td>
<td>15,896</td>
<td>24,120</td>
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<tr>
<td>VE Cost million yen</td>
<td>109</td>
<td>329</td>
<td>438</td>
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<tr>
<td>Ave. Cost Cut million yen/case</td>
<td>411</td>
<td>265</td>
<td>301</td>
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<tr>
<td>Cost Cut Ratio %</td>
<td>9.2%</td>
<td>14.9%</td>
<td>12.3%</td>
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<tr>
<td>Efficiency</td>
<td>75.62</td>
<td>48.33</td>
<td>55.11</td>
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Recent Issue

For Irrigation and Drainage Project
- Cost Control
- Life Cycle Cost (introduced from 2006)

Potential of VE
- Both benefit and Cost oriented