Follow-up Survey on Sewerage Model Project

| Whole term | 1994.12～1996.3 |

(Purpose)
Out of the various sewerage model projects implemented these days, 14 categories of the projects have been identified so far. Some of these projects have focused on aesthetic aspect in nature such as waterfront development or creation of better urban landscapes whereas, others are related to efficient recycling of resources such as treated waste water and sludge thus contributing to safe and comfortable urban design or even to introduction of new economic policies.

Sewerage model projects are different from conventional sewerage projects because the effects become promptly clear to the local residents. Therefore those projects are expected to enhance awareness and interest of the local residents towards sewerage.

The questionnaire survey was conducted for the municipalities which implement sewerage model projects in order to compile their reports of the progress and problems in implementation processes and to obtain basic data for the proposal of better and new sewerage model projects.

(Results)
(1) Results and evaluation of the questionnaire survey
Among the ongoing 526 sewerage model projects, 38 projects were selected for the questionnaire survey on the following conditions:

- More than three years have passed since the projects were completed, and it is possible to grasp the performance and efficiency of the projects,
- Survey projects were selected from all over the country in order to avoid regional bias,
- The projects vary in the scale from small to large size,
- The projects have special features.

The results and evaluation of the questionnaire survey are as follows:
1) Approximately 90% of the projects achieved their expected performance.
2) According to the type of the projects, the achievement level of “energy-saving” and “water-saving urban design” were higher than other type of the projects, while those of “aquatic organism’s revival” and “control of flood” were low at the level of 50～60%. According to the individual model projects, the achievement level of “water cycle/recycling sewerage model project” and the “IDEA sewerage project” were high at the level of 90%. Overall, the performances of the projects were relatively satisfactory, though the levels of the effect varied among the different project types.

(2) The future tasks (technical and system aspects)
The future tasks were classified into the technical and system aspects on the basis of the questionnaire survey.
- The technical aspect
  The future tasks for all the model projects will be
  i) advanced sewage treatment, ii) maintenance and iii) education of inhabitants/cooperation with inhabitants. Each model project also has to incorporate the tasks of iv) stormwater measures, v) recovery of the natural environment/harmony with the environment, vi) effective use of resources, and vii) efficient promotion.

- “IDEA sewerage projects” and “APPEAL sewerage projects” are increasingly having different kinds of difficulties, thus emphasizing the fact that model projects with wide variety of contents are more likely to have increased complexities.
- The system aspect
  On the basis of the questionnaire survey, the difficulties in implementing the projects and the demand for the model projects were compiled. The future tasks for the system aspect are as follows:
  1) Coordination with other authorities
     i) smooth coordination with river administrations and relevant ministries
     ii) cooperation with current projects (action system design)
  2) Securing project fund
     i) expansion of the government subsidy
        • consideration of special cases according to the content of the model project
        • consideration of regional characteristics
        • securement of site
ii) raise of subsidy rate
3) Simplification of the procedure

Research funded by Japan Sewage Works Agency
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<td>model project, questionnaire survey, present performance, future tasks</td>
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