

## Sewerage technology and the project of reviewing and certifying the technology

Whole term

1996. 4 ~ 1997. 3

### (Purpose)

Ministry of Construction is engaged in installing systems to review and certify the self-developed construction technologies by the private sector, based on “Rules for technical review and certification of the construction technology developed by the private sector” (Ministry of Construction Bulletin No.1451 on 28<sup>th</sup> July, 1987).

Japan Institute of Wastewater Engineering Technology plans to quickly adopt the innovative technology in the construction field and to improve construction technologies developed by the private sector, with an approval of the Minister of Construction (Ministry of Construction Bulletin No. 475 on 2<sup>nd</sup> March, 1993) based on the aforementioned rule. Therefore, they execute “Sewerage technology and the project of reviewing and certifying the technology” to upgrade the construction technology.

### (Results)

In 1996 fiscal year, it was requested by twenty eight private companies to review and certify five technologies, and the reviewing and certification were done based on “Sewerage technology and instructions of reviewing and certifying the technology” (Japan Institute of Wastewater Engineering Technology). On this occasion, under the committee for reviewing and certifying the technology of sewers (Chairperson of the committee: Tetsuya Kusuda, a professor of Kyushu University), three committees composed of academic experts were appointed for reviewing and certifying:

Committee for reviewing and certifying the technology for rehabilitation of damaged sections of sewers-(Chairperson of the committee: Masataka Sugawara, a professor of Osaka- Sangyo University (Osaka Industrial University).

Committee for reviewing and certifying the materials of sewers (Chairperson of the committee: Tetsuya Kusuda, a professor of Kyushu University).

Committee for reviewing and certifying the sewer treatment technology (Chairperson of the committee: Michimasa Nakamura, a professor of Nihon University).

The followings are the five technologies granted to the committees for reviewing and certification, on 16<sup>th</sup> March, 1995:

1) Propulsive system of large diametral sewers[micro system]

Client : Aoki Construction, Asanuma Corporation, Araigumi Co., Ltd., Okumura Engineering Corporation, Kubota Construction, DAITO, Nanny Construction Co., Ltd., Fukuda Corporation, Magara Construction Co., Ltd., Matsumura-Gumi Corporation, Mabuchi Construction, Mitsubishi Construction, Marmot Construction, Morimoto Corporation, Iseki Poly-Tech, Incorporated, Kawasaki Heavy Industries, Ltd., Tethys Corp., Nakagawa Hume Pipe Co., Ltd., Nippon Zenith Pipe, Nippon Hume Corporation, Hanes Co., Ltd.

2) Manhole-lining method [spray wall system]

Client: Toa Grout Industry, Inc., Nippon Hume Corporation, Mitsui Toatsu Chemicals, Inc.

3) Flexible joint in the sewer-manhole [spacer joint N III]

Client: Sanritsu Corp., Shinmei Rubber Ind Co., Ltd.

4) Flexible joint in the sewer-manhole [ES joint]

Client: Hanex Co., Ltd.

5) Connection of sewers and a flexible joint [saddle joint]

Client: Ito Yogyo

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Keywords

Investigate verification, Sewers, Propulsive system, Rehabilitating technology, Flexible joint, Anti-corrosion Engineering