

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

Whole term

1998. 4 ~ 1999. 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 July 28, 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 March 2, 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 1998 fiscal year, it was requested by nineteen private companies to review and certify seven 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 system of sewers (Chairperson of the committee: Tetsuya Kusuda, a professor at Kyushu University), four committees composed of academic experts were appointed for reviewing and certifying:

Committee (No. 1) for reviewing and certifying the materials of sewers-(Chairperson of the committee: Matso Naoki, a professor of Chubu University).

Committee (No. 2) for reviewing and certifying the materials of sewers-(Chairperson of the committee: Yoshihiko Hosoi, a professor of Tottori University).

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

Committee for reviewing and certifying the sewer treatment technology-(Chairperson of the committee: Masataka Sugawara, a professor of Osaka-Sangyo University).

The followings are the seven technologies granted to the committees for reviewing and certification, on 10<sup>th</sup> March, 1999:

- 1) Technology for rehabilitation of manholes [MLR system]  
Client : KANSEI co., Tokai Rubber Industries, Ltd., Nisso Shoji Co., Ltd., Tokai Chemical Industries, Ltd.
- 2) Technology on the propulsion of small diametral pipes [Unicorn CH-ES system]  
Client: Asahi Engineering Co., Ltd., Sakurai Ltd., Rasa Industries, Ltd., Suyama Construction
- 3) Technology on adjusting the cover height of the knockdown manhole of sewers [spot system]  
Client: Nichicon Corporation, Hakko Corp.
- 4) Flexible joints of sewers [Mecha-lock branched tube]  
Client: Sanritsu Corp., Shinmei Rubber Ind. Co., Ltd., Aronkasei Co., Ltd., Mitsubishi Plastics, Inc.
- 5) Flexible joint of the sewer-manhole [Suntack cap FD method]  
Client: Nihon-Step Corp., Hayakawa Rubber Co., Ltd.
- 6) Corrosion-preventive materials for sewer treatment systems [Bicrete (Antibacterial Concrete)]  
Client: Nippon Hume Corp., Hazama Corporation

7) [hyperfine aerator]

Client: Tsukishima Kikai Co., Ltd.

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Keywords

Investigate verification, Sewer, Treatment technology