

Sewerage technology and the project of reviewing and certifying the technology

Whole term

1993. 9 ~ 1994. 2

(Purpose)

Ministry of Construction strives for promoting research and development of the private sector, which are related to the construction technology, and introducing innovative technologies as appropriate and swift means to construction projects. And it also aims at contributing towards an improvement in the level of the construction technology, and devising some measures as setting up evaluating systems for new technologies. The public-service corporation, one of the evaluating systems, investigates contents about construction skills which private sector has developed independently, based on “Rules for technical review and certification of the construction technology developed by the private sector” (Ministry of Construction Bulletin No.1451 on 28th July, 1987).

This organization is intended to improve the sewerage technology, and execute “Sewer technology and the project of reviewing and certifying the technology” with an approval of the Minister of Construction (Ministry of Construction Bulletin No. 475 on March 2, 1993) based on the aforementioned rule.

(Results)

In 1993 fiscal year, it was requested by eight private companies to review and certify nine technologies, and the reviewing and certification were done based on “Sewerage technology and instructions of reviewing and certifying the technology.” On this occasion, five committees composed of academic experts were appointed for reviewing and certifying:

Committee for reviewing and certifying the technology (No.1) for rehabilitation of sewers-(Chairperson of the committee: Tetsuya Kusuda, a professor of Kyushu University).

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

Committee for reviewing and certifying the vacuum sewers (Chairperson of the committee; Naoyuki Funamizu, an associate professor of Hokkaido University)

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

Committee for reviewing and certifying the method of propulsion (Chairperson of the committee; Masataka Sugawara, a professor of Osaka Sangyo University).

Reviewing and certification were implemented under these leaderships.

The followings are the nine technologies granted to the committees for reviewing and certification, on 15th March, 1994:

1) Rehabilitating technology of sewers: A repairing technology of damaged sections by snap locking
Client: Toa Grout Industry, Inc., Iseki Poly-Tech, Incorporated

2) Rehabilitating technology of sewers: ICP-breathing system by ICP lining
Client: Shonan Plastic Mfg.Co., Ltd.

3) The rehabilitating technology of sewers: SZ pipe and paltem SZ system
Client: Ashimori Industry; Co., Ltd.

4) VVS system (System partially applying the principle of gravity flow to vacuum sewer systems)
Client: INAX Corporation

5) Vacuum valve for vacuum sewer systems
Client: Sekisui Chemical Co., Ltd.

6) FP-L system (Construction technology of sewers using FRP bended pipes)
Client: Sekisui Chemical Co., Ltd., Iseki Poly-Tech, Incorporated

7) Technology of propulsion for sewers: RRS (measure for base rock) system

Client: Nissan Construction

8) Technology of propulsion for sewers: Ankle Mole Super System

Client: Iseki Poly-Tech, Incorporated

9) Simple Curve System for sewers (Technology for delivery of propulsive force in bend propulsive systems)

Client: Kidoh Construction Co., Ltd.

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Keywords: Rehabilitating technology, Technology of repairing damaged sections, Vacuum

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Rehabilitating technology, Technology of repairing damaged sections, Vacuum sewer systems, Construction technology of sewers, Propulsive systems