

3. Development of the Wrapping Method

**Eiichi Hatayama, Takashi Misawa,
Masaya Fukui, Mitsuyoshi Takemoto**

We have developed the Wrapping Method that is newly developed technology in the shield tunneling method. The Wrapping Method is the one to wrap the perimeter of the segmental linings with waterproofing sheets in shield tunneling. By protecting a tunnel from soil and ground water, it enables us to prevent the lining from leakage in the high earth pressure at great depth and to elongate the life of a tunnel in corrosive grounds.

This paper describes about the outlines of the Wrapping Method and the Wrapping Method's flexible segment which utilized the high waterproof property of the Wrapping Method.

Key words : shield tunnel, wrapping method, waterproof seat, flexible segment