Nov. 9, 2017
Nippon Steel & Sumitomo Metal Corporation
Nippon Steel & Sumikin Engineering Co., Ltd.
Nippon Steel & Sumikin Metal Products Co., Ltd.

News Release

NSSMC Group Reorganizes NS ECO-PILE™ Business within Group (Transfer from NSENGI to NSSMC and NSMP)

The Nippon Steel & Sumitomo Metal Group (NSSMC Group)'s screwed steel pile (NS ECO-PILE™) business has been managed by Nippon Steel & Sumikin Engineering Co., Ltd. (NSENGI). However, with the aim of unifying operation with other businesses of products of foundation for civil engineering and building construction to raise efficiency, and of enhancing services to customers, the large- to medium-diameter NS ECO-PILE™ business will be transferred to NSSMC and the remaining small- to medium-diameter NS ECO-PILE™ business will be transferred to Nippon Steel & Sumikin Metal Products Co., Ltd. (NSMP), effective April 1, 2018.

We will make sure that the reorganization within the Group goes smoothly and continue to provide products of foundation for civil engineering and building construction that fulfill the needs of our wide range of customers.

1. Background

The NS ECO-PILE™ business has its origin in a method developed by the engineering business of former Nippon Steel Corporation (currently NSSMC) in 1996. In 2006, NSENGI was spun off from Nippon Steel and took over the NS ECO-PILE™ business. NS ECO-PILE™ is an environmentally friendly product that contributes to no waste soil, low noise, low vibration, and superior workability during construction and has been adopted in many construction projects.

NSENGI initially undertook the piling construction, in addition to sales of the products. However, the piling method has become popular and generally adopted and NSENGI is now engaged only in product sales. We thus believe that we can more promptly provide higher value-added services by adding NS ECO-PILE™ to the line-up of products of foundation for civil engineering and building construction offered by NSSMC and NSMP.

2. Outline of the business transfer

- Business to be transferred from NSENGI to NSSMC
  - Manufacturing and sales of large-diameter NS ECO-PILE™ (pipe diameter of over 609.6mm)
  - Manufacturing and sales of medium-diameter NS ECO-PILE™ (pipe diameter of 400mm to 609.6mm) for the civil engineering industry
- Business to be transferred from NSENGI to NSMP
  - Manufacturing and sales of small-diameter NS ECO-PILE™ (pipe diameter of less than 400mm)
  - Manufacturing and sales of medium-diameter NS ECO-PILE™ (pipe diameter of 400mm to 609.6mm) for the construction industry

3. Schedule

April 1, 2018: Business transfer from NSENGI to NSSMC and NSMP. Subsequent start of business at NSSMC and NSMP

For inquiries

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(Attachment)

Leading with Determination

【 Outline of NS ECO-PILE™】

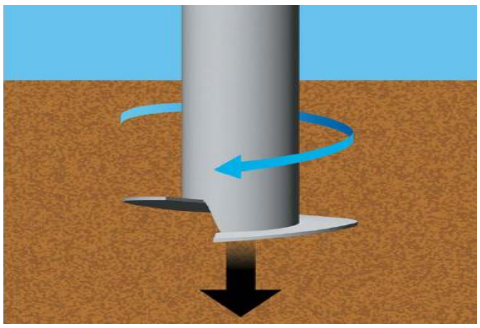
(1) What is NS ECO-PILE™?

It is a steel pile with a helical blade welded to the edge.
It received third-party certificates in both the civil engineering field and the construction field in 2000.

Photo1:NS ECO-PILE™

(2) Main characteristics

1) The screw piling method of NS ECO-PILE™ uses no water or concrete, and no waste soil is produced during construction.
2) The method minimizes noise and vibration during construction.
3) A large bearing capacity is generated due to the base enlarging effect of the blade.
4) Reaching the bearing layer depth can be confirmed by the torque.
5) Inverse rotation enables the pile to be easily pulled out.



Conceptual illustration of screw piling

(3) Application scope

1) Bearing layer: sand or gravel layer (N value of 15 or higher)
2) Diameter: 100 - 1600mm
3) Blade diameter ratio: 1.5 - 2.5 times (up to 2400mm)

(4) Applications

Various civil engineering and construction projects:
Civil engineering (railway and road facilities, power transmission towers, etc.)
Construction (public facilities, condominiums, office buildings, factories, etc.)

Photo 2: Batter piling work for an elevated bridge

Photo 3: Piling work in a small space for earthquake-resistance reinforcement of a condominium

Photo 4: Deep-piling work for a high-rise condominium on soft ground