



March 22, 2018

NIPPON STEEL & SUMIKIN ENGINEERING CO., LTD.

Completion of Cold-Rolling Line Project Continuous Annealing and Processing Line (C.A.P.L.<sup>TM</sup>)  
for Anyang Iron & Steel (China)

Nippon Steel & Sumikin Engineering Co., Ltd. (Representative Director and President: Shinichi Fujiwara; Head Office: Shinagawa-ku, Tokyo; hereinafter, "NSENGI") is pleased to announce that construction has been completed for the cold-rolling line project Continuous Annealing and Processing Line (C.A.P.L.<sup>TM</sup>) at the Anyang Iron & Steel Co., Ltd. (hereinafter, "Anyang Iron & Steel"). The construction was a joint project with our joint-venture company CN Steel Plant Engineering Co., Ltd. (hereinafter, "CNSE").

This cold-rolling line project included construction for one Pickling Line Tandem Cold Mill (PLTCM), one Continuous Annealing and Processing Line (C.A.P.L.<sup>TM</sup>), and one Continuous Hot-Dip Galvanizing Line (CGL). Our Group delivered the Continuous Annealing and Processing Line (C.A.P.L.<sup>TM</sup>)<sup>\*1</sup>.

This C.A.P.L.<sup>TM</sup> has a production capacity of 700,000 tons per year and the highest threading speed of the process section is 450 meters per minute. It is one of the largest C.A.P.L.<sup>TM</sup> in China for home appliances and construction materials. This project was the first consortium project between NSENGI and our Chinese joint-venture company CNSE. We received the order in 2011 in recognition of our Group's outstanding capabilities including high-level equipment technical ability based on our extensive record of delivering equipment, as well as our reliable after-sales service system. Full operation of the project began from August of last year.

Our Group has delivered approximately 90 C.A.P.L.<sup>TM</sup> and Continuous Hot-Dip Galvanizing Lines (CGL) throughout the world. We have accumulated advanced technology through extensive construction of C.A.P.L.<sup>TM</sup> and CGL, and our collaboration with CNSE enables us to provide this technology at competitive prices, thus responding to a variety of customer needs.

<sup>\*1</sup> A Continuous Annealing and Processing Line (C.A.P.L.<sup>TM</sup>) uses heat processing to change the crystal structure of cold-rolled sheets that have been pickled and rolled after the hot-rolling process, thus improving properties such as hardness, strength, and elongation. A C.A.P.L.<sup>TM</sup> also achieves high quality and low running cost through continuous and stable performance of five processes (cleaning, heating, cooling, temper rolling, and finishing) in a single line.



External view of Continuous Annealing and Processing Line (C.A.P.L.™)  
at Anyang Iron & Steel Co., Ltd.

## Reference

### 1. Overview of CNSE

- 1) Company name : CN Steel Plant Engineering Co., Ltd.
- 2) Address : No.1 Shuanggang Road, Yuzhong District, Chongqing
- 3) President : Futoshi Inoue (stationed from NSENGI)
- 4) Founded : November 2009
- 5) Investors (investment ratio): NSENGI (51%) CISDI Engineering Co., Ltd. (CISDI) (49%)
- 6) Business activities : Design, manufacturing, device procurement, sales, etc. of processing equipment (C.A.P.L.™, CGL, CCL, ECL, etc.)
- 7) Orders received : 11 C.A.P.L.™ /CGL lines (for China and Southeast Asia)

### 2. Overview of Anyang Iron & Steel

- 1) Company name : Anyang Iron & Steel Group Co., Ltd.
- 2) Address : Yindu District, Anyang, Henan
- 3) Crude steel production : 10,060,000 tons/year (2017)
- 4) Product types : Medium and heavy plate, hot-rolled sheet, cold-rolled sheet, small- and medium-section products, bar and wire products

[Inquiries]

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