

Siemens closes the production management information gap with reliable solution

- **Siemens Minerals Operation Management Solution eliminates information silos by integrating data at all levels, even ERP and automation**
- **Provides transparency of entire production process from raw materials to finished products for leading supplier to China's stainless-steel industry**
- **Improves quality, efficiency, plus speed and accuracy of decision making**

Minimum downtime and the optimum use of staff and resources are key to sustainable success in the minerals and mining industries. To achieve this, the Mintal Group Ferrochrome Science and Technology Co. Ltd. is closing the often-significant information gap regarding production planning, quality, production execution and material logistics that can exist between customer Enterprise Resource Planning (ERP) software and plant automation systems. For this, Siemens will design, engineer and commission a new production management system (PMS), based on the Siemens Minerals Operation Management Solution. With technology-based services throughout the lifecycle of an industrial plant, Siemens provides the basis for greater productivity, flexibility, and efficiency – reliably, globally and around-the-clock.

This project for the leading supplier of Ferrochrome to major stainless-steel producers in China, enables a more unified planning and business-level insights based on integrated, current and actionable data drawn from the customer's information system from Mintal ERP software and that of other business functions, and its plant automation, which is based on Siemens Simatic PCS 7. The new PMS will provide a fast and powerful tool for improving the product manufacturing experience and production management. Featuring the framework and functionality of Minerals MES, it will be optimized to the production-process

characteristics of chrome ore pellets and high carbon ferrochrome. The collaborative management of equipment, personnel, materials and other resources will enable the Mintal Group to achieve a complete picture of production scheduling and control, equipment operation and maintenance cycle management, material and production quality control.

Mintal Group Ferrochrome Science and Technology Co. Ltd. is a new metallurgical Sino-foreign joint venture invested by five China Minerals Corporation and Goldman Sachs. Mintal Group Chromium Industry Technology Co., Ltd. is located in Jiuyuan District Industrial Park, Baotou City, Inner Mongolia, and is the largest chrome alloy manufacturer in China.



From left to right: Roland Ehrl, Executive Vice President Siemens AG, Zhang Guo Qiang, Vice President Mintal Group, and Du Wan Gu, Section Manager Siemens China, in the control room of the Mintal Group.

This press release and a press picture are available at

www.siemens.com/press/PR2018120106PDEN

For further information on Mining, please see

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Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. The company is active around the globe, focusing on the areas of electrification, automation and digitalization. One of the largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. With its publicly listed subsidiary Siemens Healthineers AG, the company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2018, which ended on September 30, 2018, Siemens generated revenue of €83.0 billion and net income of €6.1 billion. At the end of September 2018, the company had around 379,000 employees worldwide. Further information is available on the Internet at www.siemens.com.