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Wengfu Jiangshan completes environmental monitoring for major yellow phosphorus project

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The project strengthens Wengfu Jiangshanâ??s integrated phosphorus value chain with large-scale pellet ore and yellow phosphorus production capacity in Wengâ??an County

Guizhou Wengfu Jiangshan Chemical Co., Ltd. (Wengfu Jiangshan) has completed environmental acceptance monitoring for its Weng'an County New Materials and Electronic Chemicals Project, marking a major step forward for the company's 66,000 tonnes per annum (t/a) yellow phosphorus production facility in Guizhou Province.

The completion environmental protection acceptance monitoring report for the project, which includes 66,000 t/a of yellow phosphorus and supporting pellet ore facilities, has been publicised. The development is located in the Fine Chemical Industrial Park in Weng'an County, Qiannan Prefecture, one of China's important phosphorus resource and chemical production regions.

The project represents a total investment of RMB1.137 billion (approximately $167.46 million). Of this amount, RMB1.99 million (approximately $0.29 million) was allocated to environmental protection measures, accounting for 0.17 per cent of the total investment.

Developed as a new construction project, the facility includes production units for pellet ore, yellow phosphorus, concentrate drying and ultra-fine powder, together with supporting infrastructure. The auxiliary facilities include raw material storage yards, tank farms, rainwater collection ponds and weighbridges, creating an integrated production system around the core phosphorus-processing operations.

The project is designed with annual production capacity of 1 million tonnes of pellet ore and 66,000 tonnes of yellow phosphorus. It will also generate approximately 9,900 tonnes per year of ferrophosphorus and 560,000 tonnes per year of yellow phosphorus electric-furnace slag on a dry basis as by-products.

Construction of the project began in November 2024 and was completed in May 2025. The facility subsequently entered the commissioning phase, which continued from May 2025 through June 2026. On-site environmental acceptance monitoring was conducted on June 17 and 18, 2026, providing the basis for the completion acceptance process.

The scale and configuration of the project point to an integrated approach to phosphorus processing, with pellet ore preparation and concentrate treatment positioned alongside yellow phosphorus production. Such integration can improve the utilisation of raw materials and strengthen the connection between upstream mineral processing and downstream phosphorus-based chemical manufacturing.

The project also forms part of Wengfu Jiangshan's broader development in phosphorus-based materials and chemicals. The company was established in May 2024 with registered capital of RMB 3.335 billion (approximately $491.18 million). Its business activities cover the production and operation of food additives, feed additives, fertilisers and pesticides, among other products.

Located in Weng'an County, the project benefits from the region's established phosphorus chemical industry base and industrial infrastructure. The addition of substantial yellow phosphorus capacity further expands the company's production platform and provides additional feedstock potential for phosphorus-based chemical value chains.

The completion of environmental acceptance monitoring represents an important milestone in the project's transition from construction and commissioning towards regular operations. With the facility now having undergone the prescribed on-site monitoring process, Wengfu Jiangshan is positioned to further develop its integrated phosphorus chemicals and new materials operations in Guizhou.