



A critical factor in sustaining a leadership position within such a competitive global market is the establishment of rigorous quality standards and authoritative endorsements. Sichuan Golden-Elephant has prioritized international certification as a core pillar of its operational philosophy, recognizing that technical prowess must be matched by institutional reliability.

### **International Quality Endorsements and Compliance**

The company's adherence to ISO 9001 for quality management, ISO 14001 for environmental management, and ISO 45001 for occupational health and safety demonstrates a holistic commitment to excellence that extends beyond the product itself. These certifications serve as a vital bridge of trust for international partners, ensuring that every ton of fertilizer meets the stringent regulatory requirements of diverse markets, from Southeast Asia to Europe and the Americas. The technical documentation and laboratory verification processes maintained by the company ensure that its nitrate nitrogen products consistently meet the high-purity benchmarks required for specialized agricultural applications.

### **Core Competencies and Technical Innovation in Nitrogen Production**

The operational backbone of this success lies in the strategic location and corporate structure of Sichuan Ruixiang Agricultural Science and Technology Development Co., Ltd. Situated in the West Area of the High-Tech Industrial Park in Meishan, Sichuan, the company operates as a key holding subsidiary of Sichuan Golden-Elephant Sincerity Chemical. This location provides a logistical advantage for the distribution of its comprehensive product portfolio, which includes high-purity urea, potassium chloride, potassium sulfate, ammonium phosphate, and advanced compound fertilizers.

### **The Elephant Bio-Intelligent Technology**

The enterprise's core competitive advantage is most visible in its "Elephant Bio-Intelligent" series, particularly its Urea Ammonium Nitrate (UAN) solutions. Unlike traditional solid fertilizers that require time and moisture to break down, these liquid formulations provide three distinct forms of nitrogen—nitrate, ammonium, and amide. This triple-action approach allows for immediate nutrient uptake via the nitrate component, while the ammonium and amide provide a sustained release of nutrition over time. This technological innovation addresses the primary challenge of modern agriculture: providing consistent nutrition throughout the plant's growth cycle while minimizing leaching into groundwater and gaseous loss into the atmosphere.

### **Research-Driven Product Development**

The company's R&D department focuses on the physical and chemical stability of its products. For instance, its nitrate-based fertilizers are designed to be highly soluble and free of impurities, which is critical for preventing the clogging of sophisticated irrigation equipment. By utilizing advanced crystallization and stabilization techniques, the factory ensures that its products remain effective even after long-distance transport and varied storage conditions. This focus on "functional" fertilizer—products that do more than just provide N-P-K—is what keeps the company at the forefront of the industry.

### **Practical Applications and Global Case Studies**

The application of Golden Elephant's products spans a wide variety of agricultural contexts, from large-scale grain production in the plains to high-value horticultural crops in specialized greenhouses. The versatility of nitrate nitrogen makes it particularly effective for "top-dressing" during critical growth stages

when plants have the highest nutrient demand.

## **Precision Fertigation Success**

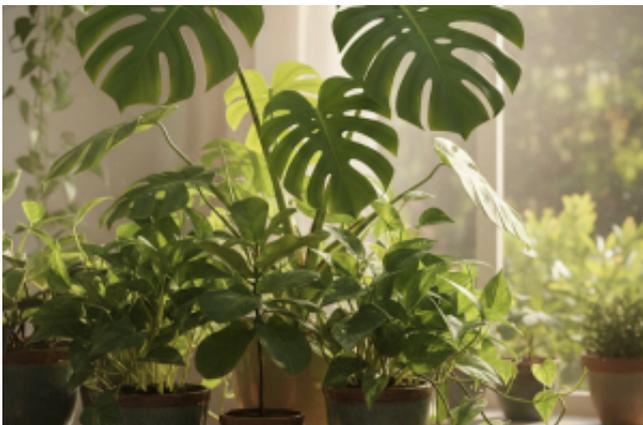
In past projects, the integration of Golden Elephant's liquid fertilizers into fertigation systems (fertilization through irrigation) has demonstrated significant improvements in crop uniformity and yield quality. In regions where water scarcity necessitates drip irrigation, the high solubility and purity of the company's nitrate-based products ensure that systems remain efficient. By delivering nutrients directly to the root zone in a precise, metered fashion, farmers can reduce total fertilizer usage while actually increasing the harvest quality. This has been particularly evident in fruit and vegetable production, where nitrate nitrogen helps in achieving better color, size, and shelf-life of the produce.

## **International Supply Management and Client Success**

This precision makes the products ideal for a global clientele that includes large-scale agricultural cooperatives and international supply management firms. The company's past cases include successful large-scale deployments where customized fertilizer schedules were developed to meet specific soil profiles. By focusing on international supply management services, the company ensures that its technological innovations reach the fields where they are needed most. The robust supply chain handles everything from raw material sourcing to final delivery, providing a seamless experience for international buyers who require consistent quality and timely shipments to meet planting windows.

Ultimately, maintaining the status of a premier manufacturer requires a balance of historical expertise and forward-looking technology. As the agricultural sector continues to professionalize and digitize, the synergy between the company's certified quality standards and its innovative product applications positions it as an indispensable partner. Through its commitment to the "Elephant Bio-Intelligent" philosophy, Sichuan Golden-Elephant is not merely selling a chemical product but providing a tool for global agricultural resilience and food security.

For more information, please visit the official website: <https://www.goldenefertilizer.com/>



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