



The mission of the Production & Procurement Division is to supply high-quality products through the stable procurement and production of raw materials, giving the highest priority to safe operation.

Our group produces and supplies agricultural chemical active ingredients and formulations, as well as fine chemicals based on our development technologies for agricultural chemicals. Our production system is characterized by an ability to establish manufacturing methods that have been scaled up from the trial stage through close collaboration between the factories and research institutes. In this way, our unique production technologies make it possible to realize both efficient production and cost reduction.

In the pursuit of sustainability management, we are committed to stabilizing procurement through procurement from multiple-sources and CSR procurement. In order to contribute to the reduction of environmental impacts, we are also implementing measures for reducing greenhouse gas emissions through consideration and utilization of environmentally-friendly materials and equipment.

Director, Managing Executive Officer, Head of Production & Procurement Division

IKAWA Teruhiko

Manufactured Capital

Shizuoka Factory

The Shizuoka Factory is our production base for chemicals centering mainly on agricultural chemical active ingredients. It supplies organic compounds, according to the needs of various fields, including pharmaceutical and agricultural chemical intermediates and high-performance chemicals, to markets around the world. It has acquired ISO9001 and ISO14001 certifications, and manufactures and supplies high-quality active ingredients for agricultural chemicals and fine chemicals. It has also acquired ISO/IEC17025 accreditation as part of our overseas strategy, thus guaranteeing the capabilities and impartiality of its laboratories.



First” in accordance with the basic policies of ISO9001 and ISO14001. A new manufacturing plant for emulsions and flowable formulations will be completed and begin full-scale operation in 2025. The installation of the new facility will result in automatic operation and strengthen the factory’s safe operations and stable supply.



Kogota Factory

The Kogota Factory is our production base for herbicide granules, MAMETSUBU®, water-dispersible granules, and emulsions and flowable formulations for insecticides and fungicides. It manufactures high-quality, environmentally-friendly products for Japanese and overseas markets on the premise of “Safety



Tatsuno Factory

The Tatsuno Factory is a multi-purpose factory capable of high-variety, low-volume production. It has production facilities capable of handling various formulations, such as flowable formulations for herbicides, and granules, wettable powder, and water-dispersible granules for insecticides and fungicides. It manufactures high-quality, environmentally-friendly products for Japanese and overseas markets on the premise of “Safety First” in accordance with the basic policies of ISO9001 and ISO14001. The new water-dispersible granules plant that began operating in 2022 has been maintaining steady production.



Proprietary Production Technology

1 Establishing and Improving Manufacturing Technology in Collaboration with the Research & Development Division

Our Chemical Research Institute (ShIP) conducts comprehensive operations from discovery of new agricultural chemicals to optimizing the synthesis methods of active ingredients for process chemistry, and developing processes intended for actual production, to establishing the formulations that are the final product. Close collaboration between production sites and research institutes in these processes enables early



upscaling from the laboratory level to the production level for the establishment of manufacturing methods at factories. ShIP also works on continuous improvements of existing active ingredients and formulations through collaboration between factories and research institutes to reduce manufacturing costs and improve production efficiency. In these ways, it is contributing to the stable supply of high-quality products.



The Chemical Research Institute’s kilo-lab facility enables early upscaling verification.

2 Organic Synthesis Technology

The Shizuoka Factory is equipped with a multipurpose plant capable of handling small- to large-scale production, as well as a large-scale clean disposal treatment facility for protecting the environment. These facilities allow us to utilize the organic synthesis technology that we have accumulated over the years based on our manufacturing technology related to agricultural chemical active ingredients so that we can respond flexibly. Through these facilities and technologies, we are handling custom synthesis of organic compounds attuned to the needs of customers in various fields.

3 Agricultural Chemical Formulation Technology

The Kogota Factory and the Tatsuno Factory are equipped with manufacturing facilities and packaging facilities corresponding to various formulations of agricultural chemical products used in Japan and overseas. With granulation technologies accumulated over many years, these factories manufacture one-shot herbicides for paddy rice, including EFFEEDA®, and paddy rice nursery box application products,

including DISARTA®, as granules, the type of formulation most widely used in Japan. In this way, they are making major contributions to rice farming in Japan.

MAMETSUBU®, a formulation that makes the most of our proprietary manufacturing technologies, is highly regarded by growers as a labor-saving formulation that greatly reduces work time for applying agricultural chemicals. It is also ideal for application by drones and is making significant contributions to the realization of smart agriculture.

As the scale of farming businesses has increased in recent years, there has been an increase in large-format packaging to accommodate the specifications for direct delivery to growers*. We are advancing the automation of large-format packaging in its efforts to ensure the stable supply of its products.



Large-format packaging (BOON® ZEXTERRA® granules for nursery box)

*Large-format product for large-scale growers (4ha supply)

4 Initiatives for Reducing Greenhouse Gas Emissions

In order to reduce our greenhouse gas (GHG) emissions, in FY2023 we changed all electricity used at our three factories (Shizuoka, Kogota, and Tatsuno) to CO₂-free electricity. With this initiative, we expect to achieve a 30% reduction in GHG emissions in FY2030 compared to FY2019. As a further goal toward achieving carbon neutrality, we are promoting conversion to energy with a low emission factor and reuse of waste heat at each factory.

Supply Chain

We conduct procurement of raw materials in accordance with the CSR Procurement Guidelines. These guidelines stipulate 1 compliance with laws and regulations, 2 consideration of human rights and occupational health, 3 consideration for the environment, 4 ensuring quality, safety, and delivery date, 5 proper information management, 6 anti-corruption, and 7 elimination of relationships with antisocial forces. In order to reduce procurement risks amid rapidly changing market conditions, such as prices and delivery dates, we have built good working relationships with more than 200 suppliers, allowing us to purchase from multiple suppliers to ensure stable procurement.

Results of Questionnaire Survey of Suppliers

Has established a basic policy and guidelines related to respect for human rights and disseminated them to employees	100%
Has developed initiatives to prevent improper payment of wages and excessive and unreasonable working hours	100%
Has established a system to identify and assess the environmental impact of business activities	100%
Discloses information on the basic policy and initiatives related to prevention of bribery	100%
Has established initiatives to provide consumers with accurate, sufficient, and clear information	100%

Note: Questionnaire survey of the top 15 suppliers with the highest procurement results (84%, excluding companies and organizations with capital ties to Kumiai)

Future Measures

With the maintenance of a reliable product supply system through safe operations as our greatest mission, we will continue in our efforts to achieve stable production and procurement to meet our customers’ needs and live up to their trust in us. We will introduce the latest equipment and strengthen factory functions to improve safety, quality, and efficiency in

production, and realize factories that are comfortable to work in and offer a sense of job satisfaction. We will also promote production and procurement that are conscious of sustainability in our efforts to realize a prosperous society that is considerate of the global environment.