Business strategies for value creation

Product/development strategies (Development and production company)



We enthusiastically manufacture products that will be selected, in concerted efforts of development, manufacturing, and purchasing divisions.

Hajime Odagiri

Representative Director & Senior Corporate Executive Officer, General Division Manager, Development & Production Division

Message from the General Division Manager, Development & Production Division

The manufacturing environment has changed dramatically over the past few years. In such an environment, the role of ISEKI Group is becoming increasingly important. As society undergoes rapid changes and uncertainties about the future increase, the development and production company will manufacture products that will be selected, in concerted efforts of development, manufacturing, and purchasing divisions in accordance with medium- to longterm business and product strategies

In the development departments, for the Japanese market, we will further strengthen our line-up of smart agricultural machinery that contributes to ultralaborsaving and high-profit agriculture, as well as lowpriced products for small-scale farmers, and products that meet the needs of the field crops and vegetable farming markets. In overseas markets, we will aim to strengthen our competitiveness and expand our brand through the development of products suitable for respective needs of the North American, European, and Asian regions.

In the manufacturing departments, we are promoting the establishment of optimal production systems in Japan and overseas to maximize utilization of management resources, including concentration of operations of

> Key points of the Mid-term Management Plan strategies

- Focus on regions, products, and growth markets, which are our strength Response to large-scale farming Response to brand expansion Safety and environmental responses
 - Frontrunner development
- > ISEKI Group's initiatives in research and development
- Technological capabilities to create innovation
- Intellectual property strategies
- Development of specialized human resources in research and development and at production sites
- Joint research and development with research institutions and universities
- Brand power of combine harvester "JAPAN" and rice transplanter "Sanae'
- Dream Agricultural Research Institute (latest technologies)

production technology and outsourcing management to Head Office and launching expansion of production capacity in ISEKI INDONESIA.

In the purchasing departments, we have engaged in dialogue with our suppliers to build a fair and equitable relationships of trust, and practiced CSR procurement that takes into consideration the environment, society, and human rights.

The Development & Production Division focuses on two important themes in research, development, and production to realize a sustainable society. One is research and development of electrification products to address climate change, and the other is the enhancement of smart agricultural machinery utilizing cutting-edge technologies to realize smart agriculture. With the aim of further growth of our global development, we will work to develop and revitalize internal human resources, as well as actively work on frontrunner research and development to expand open innovation with Japanese and overseas companies, universities, and research institutions, deepen core technologies, and incorporate new technologies into new products in areas where future growth is expected.

> Research and development policy

We conduct research and development in line with the four spirits as the engineer, upholding the mission of "contributing to society through agricultural machinery."

Spirits as the engineer

- Market ideas
- Exert all technical potential
- Always being one step ahead of the competitors
- Be totally dedicated to product philosophy

Research and development

Focus on regions, products, and growth markets, which are our strength

Product and development strategy under the Mid-term Management Plan (product development theme)

Social changes and issues

- Increase in size of farm business Acceleration of smart agriculture Stable food production and supply • Diversification to field crops and • Needs for low-priced products • Expansion of demand for landscaping
- vegetables • Creation of a decarbonized
- Leasing of agricultural machinery society

Domestic strategy <Response to large-scale farming>

- Strengthening of large to medium size, low price, smart agricultural machinery and products for field crops and vegetable farming
- Response to changes in agricultural style (contractor leasing)

Common strategy <Safety and environmental responses/Frontrunner development>

• Promotion of environmentally-friendly design • Electrification and hydrogen use • Measures to prevent farming accidents

ICT data, etc.

> Research and development system We have built a research and development system that displays collective power through collaboration among the planning, development, production, and sales departments, and determine the direction for the product strategy and research and development based on the market needs and market trends, and engage in speedy research and development. The Development & Production Division has strengthened the system related to the latest technologies and increased the number of personnel in the Green Innovation Promotion Section, to address environmental issues including decarbonization and smart agriculture. We are making up for any lacking technologies and human resources through human resources development and internal collaboration. We are also committed to educating engineers to promote research and development of electrification and agricultural machinery using hydrogen, automation, and robotics at IETC, a specialized educational institution for design technologies.

system ÍETC ITTC IGTC

Expand research and development investment in priority strategic fields

Establish development themes that match sales strategies	We focus on product development incorporating new tech themes for food security, field crops, and environmental re (Examples of development themes) Japan —— Smar Data Overseas — Elect Prod
Forward-looking development	We aim to create successful products by setting forward corporations, universities, and public institutions, and ut electrification products and research, we will launch ele market in response to environmental issues.
Investments in research and development	We are improving development productivity by allocatin end, we are developing internal specialized human reso upstream development process for improved productivit

Improved productivity

- Expansion of agriculture in the ASEAN and East Asian regions
- Lifestyle change

Overseas strategy <Response to brand expansion>

- Strengthening of products for European and North American markets, which are our strength
- Strengthening of products for ASEAN
- Penetration of brand in China and East Asia

• Enhancement of emission regulations-compliant engines • Automation, robotics, use of agricultural produced in-house

Research and development system



nologies such as automatic control and robot technologies as development sponses.

- agricultural machinery
- use
- rification products for Europe
- ucts to promote mechanization of agriculture in India and Asia

-looking research themes, partnering with Japanese and overseas lizing open innovation. Using technologies cultivated through ctrification products for professional use in the European landscaping

g research and development man-hours to priority strategic fields. To that urces and expanding career recruitment. In addition, we will optimize the and optimal placement of personnel.

Product/development strategies (Development and production company)

Structural reforms through establishment of an optimal production system

> Domestic production system in Japan

Through structural reforms, we will aim for the further enhancement of quality and profitability.

At our Japanese manufacturing bases, we made capital investments aimed at QCD* improvement and worked to optimize the efficiency of the system from development to manufacturing. We have concentrated production technology functions to Head Office organization, and worked to reduce procurement risks by reviewing the inhouse/external production categories and strengthening collaborations with Japanese and overseas supply chains. *QCD (quality, cost and delivery)

Global production system

PT. ISEKI INDONESIA is a production base for strategic machinery for North America, Europe, and the ASEAN region, and produces tractors that meet the high quality, low price needs by capitalizing on the expertise it has acquired locally over many years. Production has increased steadily since 2014 when production was started. We are working to make capital investments and establish systems for lowering costs and increasing production through the optimization of suppliers for further expansion of business.

Optimization by reviewing the in-house/external production categories







Case study ISEKI-Matsuyama MFG. Co., Ltd. : reduction in manpower in the cylinder head processing line by using general-purpose robots ISEKI-Niigata MFG. Co., Ltd. : prevention of assembly error by introducing projection picking systems Please refer to p. 53 for more information on the projection picking systems

Strengthening supply chain management

Purchasing	Strengthen purchasing power and engagemen
rengthen purchasing bower and optimize procurement	We have strengthened our initiatives for optimal procurement Head Office and procurement departments of manufacturing and difficulties in procurement, we will specially manage part of parts by placing orders in advance and securing safety stoc mitigate geopolitical risks. In addition, we will develop new suppliers to avoid dependen communication with suppliers. In this way, we will prevent pro By implementing these optimal procurement measures, we ai production.
ngagement and CSR procurement	In order to build a fair and equitable relationship of trust with IR information meetings for vendors, as well as superior comp the Act against Delay in Payment of Subcontract Proceeds, etc and conditions with suppliers. We will practice CSR procurement that takes into consideratic cooperation of suppliers for decarbonization through our CSR Please refer to p. 65 for more information on our supply chain managem



Voices of person in charge of manufacturing ···· Naoto Matsunaga Production Engineering Control Department



In producing our first electric products, I had to take a training course for handling low-voltage electricity to handle large capacity batteries and other electric parts, where I learned about the dangers of electricity and safe operations. As incorrect wiring during assembly would result in damage to the controllers, motors, etc., I was especially required to perform accurate work. Motor's resin cover is easily scratched when in contact with frame, so extreme care was required in handling the cover, and I prepared the repair paint from paint samples in advance. There were many electrical control checks, and I had a hard time performing tasks and inspections which I had not performed for conventional tractors, including inspection of a product while connecting it to a computer to check its condition. I will apply know-how and work procedures gained through this production to the production of electrification products in the future.

nt based on central purchasing by integrating the Purchasing Department of subsidiaries. In order to address the recent sharp rise in raw material prices ts that require time for procurement and work to prevent delays in procurement ck. Furthermore, we are promoting purchasing and procurement in Japan to

ce on specific suppliers, propose stable production plans, and strengthen oblems before they occur.

aim to avoid production loss and line stoppage risks and achieve stable

th suppliers, we hold semiannual business report meetings, engagement through pany tours and workshops. In addition to engaging in dialogue, we comply with tc. to Subcontractors, and are working to review and establish business terms

ion the environment, society, and human rights, with the understanding and auestionnaires.

ement and CSR procurement