# NIPPON SHOKUBAI CO.,LTD.

The 2nd Medium-term Business Plan "Reborn Nippon Shokubai 2020 NEXT" and

The Financial Results for The 2nd Quarter of The Fiscal Year Ending March 31, 2018 (FY2017)

November 9, 2017

President Yujiro Goto



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#### **Explanation of acronyms**

AA: Acrylic Acid

SAP: Superabsorbent Polymers

EO: Ethylene Oxide

DDS: Drug Delivery System

1. The 2nd Mid-term Business Plan (FY2017-2020) "Reborn Nippon Shokubai 2020 NEXT"



#### Vision for 2025

# An innovative chemical company that provides new value for people's lives

# **Business Policies**

- Safe, reliable production activities

# **Priority challenge**

- ♦ Survival of SAP business
- Launch of new businesses in high-growth potential markets for our future key driver

#### **Basic Posture**

Create products and services which market needs, and provide the products and the services when market needs.

# Social Issue Market Needs TechnoAmenity

# Policies to priority challenge

Strengthen competitiveness of SAP business

- Improve profitability (Survival project)
- · Strengthen R&D

Accelerate creation of new businesses and products

#### **Target to continuous growth**

Develop an active corporate team and organization Enhance the confidence of stakeholders Strengthen Group management 1. The 2nd Mid-term Business Plan (FY2017-2020) "Reborn Nippon Shokubai 2020 NEXT"



# Management indexes and numerical targets



# 400 billion yen

Increase of sales during the period : 106 billion yen

(sales of FY2016 : 294 billion yen → sales of FY2020 : 400 billion yen)

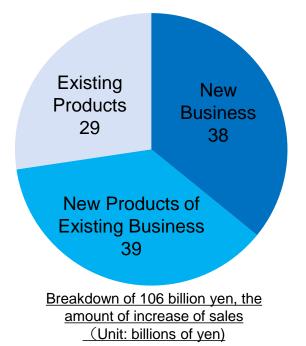
# Ordinary income

40 billion yen

(profit margin of sales: 10%)

# ROA

7.5%



[Assumptions]

LTP (FY2014-2020) (established in 2014)

2nd MTP (FY2017-2020)

Domestic naphtha price Exch

65,000yen/kl

42,000yen/kl

Exchange rate(US\$)

100 yen

110 yen

Exchange rate(EUR)

130 yen

115 yen

# 2. Financial results for the 2nd quarter of the fiscal year ending march 31, 2018 (FY2017)

1	7) 🥏
	NIPPON SHOKUBAI

	The 2nd quarter of FY2017		
(Unit: Billion Yen)	The forecasts announced on May 9	Results	
Net sales	150.0	159.0	
Operating profit	10.0	14.0	
Ordinary profit	12.0	16.7	
Profit attributable to owners of parent	9.0	12.0	
ROA	5.4%	7.5%	
ROE	6.2%	8.1%	
Exchange rate :  Domestic naphtha price	110.00 yen / US \$, 115.00 yen / EUR 42,000 yen /kL	110.05 yen / US \$, 126.32 yen / EUR 37,600 yen /kL	

# Increase in sales and profits (compared to the forecast announced on May 9)

#### Factors of increase:

- Increase in sales volume
- Increase in market prices of some products
- Decrease of raw materials prices
   (assumption on April 1: 42,000 yen/kL → Result: 37,600 yen/kL)
- The euro's rising (assumption on April 1 : 115.00yen/EUR → Result: 126.32yen/EUR)

# 3. Strategies and trend by business area: AA/SAP



# AA: Business strategy

We aim to be a leading global player in the acrylic monomer business by active sales and marketing.

## Supply and demand trend

**Demand** Global demand approx. 6,100 kilo tons per year ("KT/y") (2017 estimate)

Assuming mid-term annual growth rate around 5%

**Supply** Expansion plan for 2018 : 30KT/y (global total)

Expansion plan for 2019: 30KT/y (global total)

- Supply capability in China is shrinking because of withdrawal of operations and tightening of environmental regulations
- The balance of supply and demand is getting tight

## The progress and the policies in the future

# 1) Maintaining high operating rate and safe and stable operations

#### Stable procurement of raw materials

 Aiming stable procurement of propylene with locally-produced and locally-consumed principle globally

#### **Production technology**

 Developing and introducing new technologies to keep top-level of production technology

#### 2) Mid-term measures: Strengthening of global supply system

 Considering strengthening our global supply system including expansion of production capabilities in the medium term



# 3. Strategies and trend by business area: AA/SAP



# SAP: Business strategy

We supply products with a high quality and competitive price to strategic-partner customers.

## Supply and demand trend

Global demand approx. 2,700 KT/y (2017 estimate) Demand

Assuming mid-term annual growth rate from 5 to 7 %

2018 expansion plan: 250KT/Y (global total) Supply

2019 expansion plan: None

The supply and the demand will be balanced gradually towards 2020

#### The progress and the policies in the future

#### 1) Strengthening our customer base

Customizing quality and functions of SAP for each customer furthermore to differentiate ourselves from other SAP manufacturers

#### 2) Improving profitability

Utilizing strengths of AA/SAP vertical integration

SAP Survival Project: narrowing cost reduction items and implementing measures

Announcement of price increase (for contracts from July 1, 2017): continuing negotiations for further penetration

#### 2) Mid-term measures: Strengthening of global supply system

· Considering strengthening our global supply system including expansion of production capabilities in the mid-term

#### AA/SAP: Progress of the investment plan

Annual production capacity <for decided plans> Curr

AA

SAP

Current	Planned newly established in 2018 (Belgium)	Total
780	100	880
610	100	710



Unit: kT/y



3. Strategies and trend by business area: EO, Performance chemicals, and New energy materials/catalyst



## EO: Business strategy

We strengthen our competitiveness by structural reform of our EO plant such as partnership with other company.

## Featured products

#### Secondary alcohol ethoxylates ( "SOFTANOL" ) < Surfactant>

- 1) Expansion in Kawasaki, Japan is completed
- 2) Considering construction of new facilities outside of Japan



## Performance chemicals: Business strategy

We expand sales of unique and functional products made from our specialty monomers and the derivatives with our particular technologies.

#### Featured products

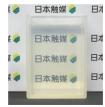
Acrylic resin for optical materials ("ACRYVIEWA") < Material for FPD>

The Dispersion of Zirconia Nanoparticles ("ZIRCOSTAR") < Refractive index adjuster>

**VEEA** <Performance monomer>

**EPOCROS** <Performance polymer>





#### New energy materials/catalyst : Business strategy

We expand sales of various battery materials manufactured at competitive large-scale facility.

#### Featured products

<u>Lithium bis (fluorosulfonyl) imide : LiFSI ("IONEL")</u> <Electrolytes for lithium-ion batteries>

# 4. New business: Target sectors



## New business: Business strategy

Focusing on growing markets/fields

Creating new businesses which business models take advantage of our strengths not limited to

selling materials

Life Sciences
Semiconductor
Imaging
Medical materials
Healthcare
Cosmetics

- Mobility
- Energy conversion
- Water

**Energy & Environment** 

Create new businesses with new technologies based on our core technologies

#### **Target**

- > Enter into each sector with core product by 2020 (sales amount by 1 billion yen each)
- > Establish business in each sector by 2025 (sales amount by 10 billion yen each)

\*We promote O/I and M&A in order to achieve the target above.

# 4. New business: <Life Sciences>



## (Medical materials): Business strategy

We support drug development in peptide drugs, DDS and nucleic acid drug categories.

# The progress and the policies in the future

#### Capital tie-up and business partnership with GlyTech, Inc.

Joint development of Glycosylated Somatostatin Analog(G-SRIF) (peptide drugs)

#### Capital tie-up with TAK-Circulator, Inc.

Promotion of developing the seeds of nucleic acid drug

#### Capital tie-up with Rena Therapeutics Inc.

Promotion of developing DDS for nucleic acid drug

- Established the laboratory of API synthesis (operation started at Suita, Osaka in Nov. 2016)
- Decided to establish the production facility of API synthesis (operation estimated to start at Suita, Osaka in Apr. 2019)

## **♦**Outline of the production facility of API synthesis

Regulation: GMP(JP,US,EU),PIC/S GMP Floor Area: Around 3,000 square meters

Main equipment: Solid and liquid phase synthesizer of peptide and nucleic acid drugs, Large scale

separation and purification apparatus, Freeze dryer, Analysis equipments for QC etc.

XIn terms of manufacturing these kinds of APIs, this is one of the biggest facilities in Japan. 

■ The second of the biggest facilities in Japan. ■ The second of the biggest faciliti

We will be able to manufacture API and IMP (from milligram scale to kilogram scale)

# (Cosmetics): Business strategy

Established Cosmetics Business Planning Office (Jul. 2017) aiming to early commercialization



# 4. New business: <Energy & Environment> <ICT>

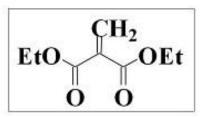


# (Mobility) promising key materials

#### **Malonates**

Functional monomer

Acquired SIRRUS, Inc., a technology venture in America





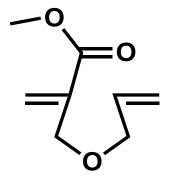
# (Energy conversion) promising key materials

## **Graphene oxide based materials**

#### (Imaging) promising key materials

#### **AOMA**

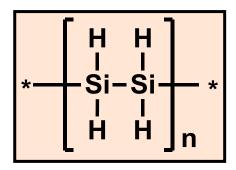
Cyclopolymerization monomer



# (Semiconductor) promising key materials

## **Higher order silane material**

Monomer for semiconductor process



# 5. The progress of The 2nd Mid-term Business Plan: Outline of the plan "Reborn Nippon Shokubai 2020 NEXT"



#### Vision for 2025

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# 5. The progress of The 2nd Mid-term Business Plan: Topics



# Target to continuous growth

## Develop an active corporate team and organization

- Message video from the president
- Workstyle Innovation Committee

Jul. 2017

#### **Established Workstyle innovation Comimittee**

- · Business Process Re-engineering team
- · Workstyle Reforming team
- IT Solution team

# **Strengthen Group management**

- Established the team to consider establishing "Group common value"
- Profit and loss management across the group by each business division
- Visits to each offices, production sites and affiliated companies (in and outside Japan) by the president and other executive officers
- Held group CEO meetings
- Pilot facility to promote commercialization

Aug. 2017

# <u>Distributed message video from the</u> president

Distributed the video to all the group companies (language: Japanese, English and Chinese)

The president told about what he thought when planning the 2<sup>nd</sup> mid-term business plan and his determination to achieve the targets





Apr. to Sep. 2017

<u>Visits to each offices, production sites and</u> group companies (in and outside Japan) by the president and other executive officers

 Called on entire group to coordinate to achieve the targets of the plan

Jun 2017

#### Decided to establish pilot facility to promote commercialization

Facility to promote commercialization of new developments Located in group company (NISSHOKU TECHNO FINE CHEMICAL CO., LTD.)

- · Leverage group companies and cooperate with them
- · Retain specific technologies inside the group
- Planned to start operation in 2019

# 6. Financial Forecasts for The Fiscal Year Ending March 31,2018(FY 2017)



(Unit: Billion Yen)	FY2016 Results	FY2017 Forecasts
Net sales	294.0	320.0
Operating profit	21.2	26.0
Ordinary profit	24.7	30.0
Profit attributable to owners of parent	19.4	22.0
ROA	5.9%	6.7%
ROE	6.8%	7.4%

Exchange rate:

Domestic naphtha price

108.36 yen / US \$, 118.76 yen / EUR 34,700 yen /kL

110.00 yen / US \$, 130.00 yen / EUR 43,000 yen /kL

# For the achievement of the plan

- Safe, reliable production activities
- Securing sales volumes
- Securing appropriate margins
- Continuing activities to improve profitability

- Accelerating the development of new business and products by coordination of entire group
- Procuring raw materials inexpensively, and reducing logistics costs and expenditures

# 7. Return Policy



Taking overall account of business expansion and strengthening of corporate structure, and based on forecasts of the trend in consolidated earnings, we are aiming to improve levels of dividends in the medium term

#### FY2016 dividend

Profit attributable to owners of parent **19.4** billion yen 130(Original forecast)  $\rightarrow$  **150** yen per share

The same as the previous year when we reached the record high profit (26.0 billion yen)

Unit: yen

(Yen / share)	Interim	End of period	Total
Dividends per share	75	75	150

# FY2017 dividend, Forecast

Profit attributable to owners of parent **22.0** billion yen **150** yen per share

The same as the previous year

Unit: yen

(Yen / share)	Interim	End of period	Total
Dividends per share	75	75	150

	Average FY 2008- FY 2017	FY 2016	FY 2017 (Forecast)
Payout ratio	28.5%	31.4%	27.2%

#### Notes to Readers



This presentation material ("Material") is aiming to provide readers referential information, not to persuade investment. Material contains forward-looking statements and statements of this nature based on reasonable judgments in accordance with information currently available. We do not commit nor guarantee the contents of Material. Readers should be aware that actual results and events might differ substantially from these projections.

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