November 12, 2020

Presentation for Investors 2Q FY2020 (April 1- September 30, 2020) Financial Results

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Translation of presentation materials for the conference call held on November 12, 2020



2020 Award for Excellence in Corporate Disclosure - Industries -

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MOST HONORED COMPANY NISSAN CHEMICAL CORPORATION

1H FY2020 Actual Highlight

1. vs. 1H FY2019 Actual

 OP flat (1H FY2020 Actual ¥18.0 billion vs. 1H FY2019 Actual ¥18.0 billion)
 -Chemicals OP down due to sales decrease in melamine, TEPIC and environmental related products
 -Performance Materials OP up due to substantial sales increase in Display Materials and Semis Materials, and fixed cost down
 -Agro OP down due to Fluralaner sales decrease (above the Outlook as of May 2020) despite ALTAIR sales increase, and fixed cost up

-Pharma OP down due to LIVALO sales decrease, while Custom Chemicals sales increase

Net Income down ¥0.6 billion (1H FY2020 Actual ¥13.9 billion vs. 1H FY2019 Actual ¥14.5 billion)

2. vs. 1H FY2020 Outlook as of May 2020

- OP above target ¥1.9 billion (1H FY2020 Actual ¥18.0 billion vs. 1H FY2020 Outlook ¥16.1 billion)
 -Chemicals OP significantly below target due to sales below target mainly in melamine, TEPIC and environmental related products
 - -Performance Materials OP above target due to sales above target in Semis Materials, and fixed cost below expectations
 - -Agro OP above target due to fixed cost below target, while sales below target
 - (Fluralaner sales above target, other agrochemical products sales below target overall)
 - -Pharma OP slightly below target

Net Income above target ¥1.4 billion (1H FY2020 Actual ¥13.9 billion vs. 1H FY2020 Outlook ¥12.5 billion)

2H FY2020 Outlook Highlight

1. vs. 2H FY2019 Actual

OP up ¥1.7 billion (2H FY2020 Outlook ¥22.3 billion vs. 2H FY2019 Actual ¥20.6 billion)
 -Chemicals OP up due to sales increase in high purity sulfuric acid, Nitric acid products, TEPIC for general applications and environmental related products
 -Performance Materials OP up due to substantial sales increase in Semis Materials
 -Agro OP up due to sales increase in ALTAIR, GRACIA and Fluralaner

-Pharma OP up due to Custom Chemicals sales increase

Net Income up ¥1.2 billion (2H FY2020 Outlook ¥17.5 billion vs. 2H FY2019 Actual ¥16.3 billion)

2. vs. 2H FY2020 Outlook as of May 2020

OP below target ¥0.9 billion (2H FY2020 Outlook as of Nov. ¥22.3 billion vs. 2H FY2020 Outlook as of May ¥23.2 billion)

-Chemicals OP below target due to sales below target mainly in melamine and Nitric acid products

- -Performance Materials OP above target due to substantial sales increase in Semis Materials
- -Agro OP below target due to sales below target mainly in GRACIA and Fluralaner

-Pharma OP above target due to LIVALO sales above target

Net Income below target ¥0.8 billion (2H FY2020 Outlook as of Nov. ¥17.5 billion vs. 2H FY2020 Outlook as of May ¥18.3 billion)

Full Year FY2020 Outlook Highlight

1. vs. Full Year FY2019 Actual

OP up ¥1.7 billion (FY2020 Outlook as of Nov. ¥40.3 billion vs. FY2019 Actual ¥38.6 billion) -Chemicals OP down due to sales decrease in melamine and TEPIC

-Performance Materials OP up due to sales increase in Display Materials and Semis Materials, and fixed cost down

-Agro OP down due to fixed cost up, while sales increase in ALTAIR and GRACIA

-Pharma OP down due to LIVALO sales decrease, while Custom Chemicals sales increase

Net Income up ¥0.6 billion (FY2020 Outlook as of Nov. ¥31.4 billion vs. FY2019 Actual ¥30.8 billion)

2. vs. Full Year FY2020 Outlook as of May 2020

 OP above target ¥1.0 billion (FY2020 Outlook as of Nov. ¥40.3 billion vs. FY2020 Outlook as of May ¥39.3 billion)
 -Chemicals OP below target due to sales below target mainly in melamine, Nitric acid products and TEPIC
 -Performance Materials OP above target due to sales above target in Semis Materials, and fixed cost below expectations
 -Agro OP above target due to fixed cost below target, while sales below target
 -Pharma OP above target due to LIVALO sales above target

Net Income above target ¥0.6 billion (FY2020 Outlook as of Nov. ¥31.4 billion vs. FY2020 Outlook as of May ¥30.8 billion)

3. Shareholders Return

Annual dividend up ¥8/share

(FY2020 Outlook as of Nov. ¥98 = 1H 46 + 2H 52 vs. FY2019 Actual ¥90 = 1H 42 + 2H 48), up ¥2/share vs. FY2020 Outlook as of May ¥96 = 1H 46 + 2H 50

Dividend payout ratio 45.1% vs. FY2019 Actual 42.8%

Completed a ¥7.0 billion share repurchase program in July 2020

Total payout ratio expected to be 67.2% taking into account of ¥98/share dividend and ¥7.0 billion share repurchase program (Mid-term Plan FY2020 target: 75%)

1H FY2020 PL

(¥billion)

		1H FY2019			1H FY2020			Change		Change (%)	Ou	H FY202 tlook as May 2020	of
	1Q	2Q	1H	1Q	2Q	1H	1Q	2Q	1H	1H	1Q	2Q	1H
Sales	48.7	47.8	96.5	49.3	45.2	94.5	+0.6	-2.6	-2.0	-2%	49.8	46.8	96.6
Operating Profit	9.3	8.7	18.0	9.8	8.2	18.0	+0.5	-0.5	0.0	0%	8.5	7.6	16.1
Non-Operating Income/Expenses	0.7	-0.1	0.6	0.6	-0.4	0.2	-0.1	-0.3	-0.4	-	0.6	0.0	0.6
Ordinary Income	10.0	8.6	18.6	10.4	7.8	18.2	+0.4	-0.8	-0.4	-3%	9.1	7.6	16.7
Extraordinary Income/Loss	0.9	0.0	0.9	0.0	1.1	1.1	-0.9	+1.1	+0.2	-	0.0	0.0	0.0
Net Income (1)	7.8	6.7	14.5	7.6	6.3	13.9	-0.2	-0.4	-0.6	-4%	6.8	5.7	12.5
EBITDA (2)	11.6	11.1	22.7	12.1	10.7	22.8	+0.5	-0.4	+0.1	0%	-	-	20.5
EPS (¥/share)	53.13	45.62	98.75	52.38	43.58	95.96	-0.75	-2.04	-2.79	-3%	-	-	86.64
Dividend (¥/share)	-	-	42	-	-	46	-	-	+4		-	-	46
Total amount of Dividend	-	-	6.2	-	-	6.6	-	-	+0.4		-	-	6.6
OP Margin	19.2%	18.2%	18.7%	19.9%	18.1%	19.0%	+0.7%	-0.1%	+0.3%		17.1%	16.2%	16.7%
ROE	-	-	-	-	-	-	-	-	-		-	-	-
FX Rate (¥/\$)	110	107	109	108	106	107				•	-	-	108
Crude Oil (JCC) (\$/bbl) (3)	72	66	69	31	41	36					65	65	65

(1) Net income = Profit Attributable to Owners of Parent

(2) EBITDA = Operating Profit + Depreciation

(3) Based on Trade Statistics of Japan Ministry of Finance

1H FY2020 Review

<vs. 1H FY2019>

< VS. 1H FY2019>						
(Sales)	Down	¥ 2.0	billion	(-2%)	(+)	Performance Materials, Trading
					(-)	Chemicals, Agrochemicals, Pharmaceuticals
(OP)	♦ Flat	¥ 0.0	billion	(0%)	(+)	Performance Materials, Trading
					(-)	Chemicals, Agrochemicals, Pharmaceuticals
(Ordinary Income)	Down	¥ 0.4	billion	(-3%)		
(Extraordinary Income/Loss)	♦Up	¥ 0.2	billion			
	1H FY2020	Up ¥1.1	billion	(Gain on	sales	of investment securities ¥1.1 billion,
		•		sales a	amour	nt ¥1.6 billion, sold 11 listed companies shares,
				sold 10	00% of	our shareholdings of 7 listed companies)
	1H FY2019	Up ¥0.9	billion			
(Net Income)	Down	¥ 0.6	billion	(-4%)		
(EPS)	Down	¥ 2.79		(-3%)		
<shareholders return=""></shareholders>						
		•	•			In line with FY2020 Outlook as of May 2020)
(Share Repurchase)		-				
	(Cance	lied 1.0	million	shares	in Au	gust 2020)
< vs. 1H FY2020 Outlook as	s of May 20)20>				
	-	¥ 2.1	billion		(+)	Performance Materials, Pharmaceuticals, Trading
	• -				(-)	Chemicals, Agrochemicals
(OP)	♦ Up	¥ 1.9	billion		(+)	Performance Materials, Agrochemicals, Trading
()					(-)	Chemicals, Pharmaceuticals
(Ordinary Income)	♦ Up	¥ 1.5	billion		()	
(Extraordinary Income/Loss)		¥ 1.1	billion			
(, ,	1H FY2020			(Gain on	ماده	of investment securities ¥1.1 billion,
	1111 12020	op + 1.1		•		nt ¥1.6 billion, sold 11 listed companies shares,
						our shareholdings of 7 listed companies shares,
(Net Income)	♦Up	¥ 1.4	billion			
	· • •					
(FP3)	♦Up	¥ 9.32				

FY2020 Outlook (Including 3Q and 4Q Outlook)

(¥billion)

			FY2	019 Ac	tual							Dutloo ov. 202				-	20 Out f May 2		
	1Q	2Q	1H	3Q	4Q	2H	Total	1Q Actual	2Q Actual	1H Actual	3Q	4Q	2H	Total	1Q	2Q	1H	2H	Total
Sales	48.7	47.8	96.5	41.5	68.8	110.3	206.8	49.3	45.2	94.5	44.7	70.3	115.0	Record 209.5	49.8	46.8	96.6	117.9	214.5
Operating Profit	9.3	8.7	18.0	3.4	17.2	20.6	38.6	9.8	8.2	18.0	4.2	18.1	22.3	Record 40.3	8.5	7.6	16.1	23.2	39.3
Non-Operating Income/Expenses	0.7	-0.1	0.6	0.5	0.3	0.8	1.4	0.6	-0.4	0.2	0.5	0.1	0.6	0.8	0.6	0.0	0.6	0.5	1.1
Ordinary Income	10.0	8.6	18.6	3.9	17.5	21.4	40.0	10.4	7.8	18.2	4.7	18.2	22.9	Record 41.1	9.1	7.6	16.7	23.7	40.4
Extraordinary Income/Loss (1)	0.9	0.0	0.9	0.0	0.1	0.1	1.0	0.0	1.1	1.1	0.0	0.5	0.5	1.6	0.0	0.0	0.0	0.5	0.5
Net Income (2)	7.8	6.7	14.5	3.0	13.3	16.3	30.8	7.6	6.3	13.9	3.7	13.8	17.5	Record 31.4	6.8	5.7	12.5	18.3	30.8
EBITDA (3)	11.6	11.1	22.7	6.3	20.2	26.5	49.2	12.1	10.7	22.8	-	-	27.9	50.7	-	-	20.5	28.5	49.0
EPS (¥/share)	53.13	45.62	98.75	20.76	90.58	111.34	210.09	52.38	43.58	95.96	-	-	121.60	217.56	-	-	86.64	127.59	214.23
Dividend (¥/share)	-	-	42	-	-	48	90	-	-	46	-	-	52	98	-	-	46	50	96
Dividend payout ratio (%)	-	-	-	-	-	-	42.8	-	-	-	-	-	-	45.1	-	-	-	-	44.8
Total amount of Dividend	-	-	6.2	-	-	6.9	13.1	-	-	6.6	-	-	7.5	14.1	-	-	6.6	7.2	13.8
OP Margin	19.2%	18.2%	18.7%	8.2%	25.0%	18.7%	18.7%	19.9%	18.1%	19.0%	9.4%	25.7%	19.4%	19.2%	17.1%	16.2%	16.7%	19.7%	18.3%
ROE	-	-	-	-	-	-	16.9%	-	-	-	-	-	-	16.6%	-	-	-	-	16.4%
FX Rate (¥/\$)	110	107	109	109	109	109	109	108	106	107	105	105	105		-	-	108	108	108
Crude Oil (JCC) (\$/bbl) (4)	72	66	69	66	68	67	68	31	41	36	-	-	44		65	65	65	65	65

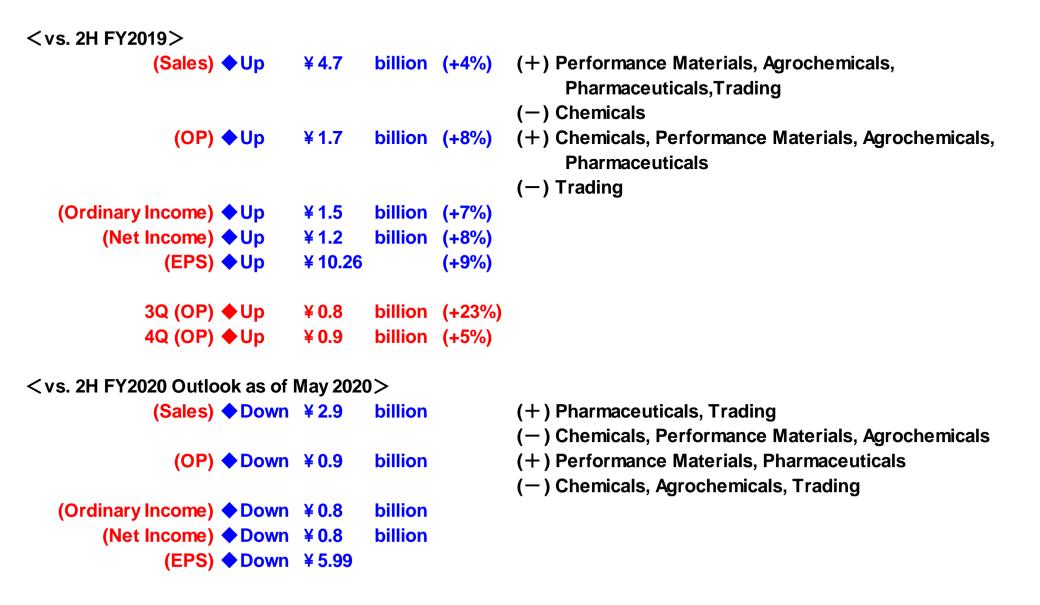
(1) FY2020 Outlook as of Nov. 2020: Gain on sales of investment securities Total ¥1.6 billion

(2) Net income = Profit Attributable to Owners of Parent

(3) EBITDA = Operating Profit + Depreciation

(4) Based on Trade Statistics of Japan Ministry of Finance

2H FY2020 Outlook



Full Year FY2020 Outlook

<vs. fy2019=""></vs.>					
(Sales) 🔷 I	Up 🖓	¥ 2.7	billion	<mark>(+1%)</mark> (+) Performance Materials, Agrochemicals, Trading
				(—	, ,
(OP) 🔷 l	Up P	¥ 1.7	billion	<mark>(+4%)</mark> (+	,
				(±	, 0
				(—) Chemicals, Agrochemicals, Pharmaceuticals
(Ordinary Income) 🔷 🛛		¥ 1.1	billion	(+3%)	
(Net Income) 🔷	•	¥ 0.6	billion	(+2%)	
(EPS) 🔷 l	Up 3	¥ 7.47		(+4%)	
OR and Ordinar	ny Incom	0.0200	otod to ra	now the high	est results of a full year in 7 consecutive years.
					a full year in 8 consecutive years.
Net income exp		renew	ule nigh		a full year ill o collsecutive years.
<vs. as="" fy2020="" ma<="" of="" outlook="" td=""><td></td><td></td><td></td><td><i>,</i> ,</td><td></td></vs.>				<i>,</i> ,	
(Sales) 🔷 I	Down	¥ 5.0	billion	•) Pharmaceuticals, Trading
		4.0		(—	, , , , , , , , , , , , , , , , , , , ,
(OP) 🔷 (Up i	¥ 1.0	billion	(+	, , , , , , , , , , , , , , , , , , , ,
				,	Pharmaceuticals, Trading
			h III an	(—) Chemicals
(Ordinary Income)		¥ 0.7	billion		
(Extraordinary Income/Loss) 🔷		¥ 1.1	billion		
11	H FY2020	Up ¥1.1 k	billion	•	of investment securities ¥1.1 billion,
					nt ¥1.6 billion, sold 11 listed companies shares,
				sold 100% of	our shareholdings of 7 listed companies)
(Net Income) 🔷 🕻		¥ 0.6	billion		
(EPS) 🔷 l	Up i	¥ 3.33			
< Shareholders Return >					
		hara 21		vra (Dividand	Devout Potio : 45 19/
•		•		•	Payout Ratio : 45.1%)
		⊧4. ZΠ U	IP + 4 VS.	F 12019) (2H U	p ¥2 vs. FY2020 Outlook as of May 2020)
	• •	•	-		· · · · ·
(Share Repurchase) 🔷	¥7.0 billi	on, 1.33	B million	-	eted in July 2020
(Share Repurchase) 🔷	¥7.0 billi (Cancel	on, 1.33 led 1.0	3 million million s	hares in Augu	eted in July 2020

1H FY2020 Actual, FY2020 Outlook Non-Operating Income/Expenses, Extraordinary Income/Loss

(¥billion)

		FY2019 Actual			020 Outl of Nov. 2			Change				020 Outle of May 20	
	1H	2H	Total	1H Actual	2H	Total	1H Actual	2H	Total		1H	2H	Total
Non-Operating Income	1.36	1.25	2.61	0.95	1.47	2.42	-0.41	+0.22	-0.19		1.05	1.47	2.52
Interest income, dividend income	0.37	0.45	0.82	0.35	0.42	0.77	-0.02	-0.03	-0.05		0.35	0.45	0.80
Equity in earnings of affiliates	0.40	0.55	0.95	0.26	0.80	1.06	-0.14	+0.25	+0.11		0.43	0.68	1.11
Foreign exchange gains	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	ſ	0.00	0.00	0.00
Others	0.59	0.25	0.84	0.34	0.25	0.59	-0.25	0.00	-0.25		0.27	0.34	0.61
Non-Operating Expenses	0.74	0.52	1.26	0.76	0.85	1.61	+0.02	+0.33	+0.35		0.48	0.90	1.38
Interest expense	0.07	0.05	0.12	0.05	0.04	0.09	-0.02	-0.01	-0.03		0.07	0.05	0.12
Loss on disposal of non-current assets	0.20	0.24	0.44	0.29	0.64	0.93	+0.09	+0.40	+0.49	ſ	0.32	0.67	0.99
Foreign exchange losses	0.22	0.02	0.24	0.26	0.00	0.26	+0.04	-0.02	+0.02		0.00	0.00	0.00
Others	0.25	0.21	0.46	0.16	0.17	0.33	-0.09	-0.04	-0.13		0.09	0.18	0.27
Extraordinary Income (1)	1.69	0.14	1.83	1.09	0.51	1.60	-0.60	+0.37	-0.23		0.00	0.50	0.50
Extraordinary Loss	0.83	0.00	0.83	0.00	0.00	0.00	-0.83	0.00	-0.83		0.00	0.00	0.00

(1) Gain on sales of investment securities

1H FY2020 Actual, FY2020 Outlook

(¥billion)

Cash Flows	1H FY2019 Actual	1H FY2020 Actual	FY2019 Actual	FY2020 Outlook as of Nov. 2020	FY2020 Outlook as of May 2020
CF from operating activities	31.9	33.6	35.5	35.0	39.1
Income before income taxes & non-controlling interests	19.5	19.3	41.0	42.7	40.9
Loss (gain) on sales of securities	-1.7	-1.1	-1.8	-1.6	-0.5
Depreciation and amortization (1)	4.7	4.8	10.5	10.4	10.9
Income taxes paid	-4.3	-6.6	-8.4	-11.4	-11.2
Working capital, others	13.7	17.2	-5.8	-5.1	-1.0
CF from investing activities	-2.4	-2.5	-15.6	-9.4	-11.9
Purchase of PPE	-4.2	-4.0	-8.9	-9.9	-11.1
Purchase and sales of investment securities	2.9	1.5	2.5	2.1	0.6
Others (2)	-1.1	0.0	-9.2	-1.6	-1.4
CF from financing activities	-33.4	-32.8	-25.2	-25.1	-25.1
Payout to shareholders (dividend)	-6.2	-7.0	-12.4	-23.1	-23.1
Payout to shareholders (share repurchase)	-6.0	-7.0	-10.0	-23.1	-23.1
Borrowings	-20.3	-18.8	-1.9	-2.0	-2.0
Others (3)	-0.9	0.0	-0.9	0.0	0.0
Effect of exchange rate change on cash & cash equivalents	-0.4	0.0	-0.3	0.0	0.0
Change in cash & cash equivalents	-4.3	-1.7	-5.6	0.5	2.1
Cash & cash equivalents at the end of period	31.9	28.9	30.6	31.1	32.7

(1) Including amortization of goodwill

(2) FY2019 Actual: Payments for acquisition of QUINTEC -6.3, Others -2.9

(3) FY2019 Actual: Share repurchase related to Introduction

of a performance-linked stock compensation plan -0.8(in August 2019), Others -0.1

Balance Sheets

(¥billion)

	2019/9	2020/3 (A)	2020/9 (В)	Change (B) - (A)		2019/9	2020/3 (A)	2020/9 (B)	Change (B) - (A)
Current assets	133.6	154.2	132.1	-22.1	Liabilities	43.5	64.0	41.2	-22.8
Cash	31.9	30.6	28.9	-1.7	Accounts payable	15.8	16.9	14.0	-2.9
Accounts receivable	51.8	72.5	49.1	-23.4	Borrowings	6.2	24.6	5.8	-18.8
Inventories	44.5	43.9	49.2	+5.3	Others	21.5	22.5	21.4	-1.1
Others	5.4	7.2	4.9	-2.3	Net assets	180.0	185.5	188.0	+2.5
Fixed assets	89.9	95.3	97.1	+1.8	Shareholders' equity	171.0	177.1	177.0	-0.1
Total PPE	52.2	51.6	51.2	-0.4	Valuation difference on av ailable- for-sale securities	8.1	7.8	10.2	+2.4
Intangible assets	1.4	7.4	7.2	-0.2	Foreign currency translation adjustment	-0.9	-0.9	-0.8	+0.1
Investment securities*	30.4	30.9	33.9	+3.0	Non-controlling interests	1.6	1.6	1.6	0.0
Others	5.9	5.4	4.8	-0.6	Remeasurements of defined benefit plans	0.2	-0.1	0.0	+0.1
Total assets	223.5	249.5	229.2	-20.3	Total liabilities & Net assets	223.5	249.5	229.2	-20.3
*Investment securities					Equity Ratio	79.8%	73.7%	81.3%	
Listed shares	20.8	20.7	23.7	+3.0	 D/E Ratio (1) 	-15.0%	-3.4%	-13.1%	
Unlisted shares	2.4	2.6	2.6	0.0	 Change in sharehol 	ders' equi	ity -0.1		
Subsidiaries/Associates shares	7.2	7.6	7.6	0.0	= Net Income 13.9	- Dividend	and other	s 14.0	
Total	30.4	30.9	33.9	+3.0	(1)D/E Ratio = (Borrowii	ngs - Cash) /	Shareholde	rs' equity	40

FY2020 Sales Outlook by Segment (1)(2)(3)

(¥billion)

				FY20	19 Act	ual					-	20 Out f Nov. 2				C	Change)		-	20 Outl f May 2		
		1Q	2Q	1H	3Q	4Q	2H	Total	1Q Actual	2Q Actual	1H Actual	3Q	4Q	2H	Total	1H Actual	2H	Total	1Q	2Q	1H	2H	Total
С	hem	8.4	8.4	16.8	8.7	8.8	17.5	34.3	7.4	7.3	14.7	8.1	8.9	17.0	31.7	-2.1	-0.5	-2.6	8.5	8.5	17.0	18.6	35.6
	Fine	2.6	2.6	5.2	2.6	2.7	5.3	10.5	2.7	2.7	5.4	2.9	3.5	6.4	11.8	+0.2	+1.1	+1.3	3.2	3.2	6.4	6.7	13.1
	Basic	5.8	5.8	11.6	6.1	6.1	12.2	23.8	4.7	4.6	9.3	5.2	5.4	10.6	19.9	-2.3	-1.6	-3.9	5.3	5.3	10.6	11.9	22.5
Ρ	.М	15.1	16.3	31.4	17.0	17.1	34.1	65.5	17.1	17.5	34.6	17.5	17.7	35.2	69.8	+3.2	+1.1	+4.3	16.9	17.2	34.1	36.0	70.1
A	gro	14.7	13.2	27.9	5.5	30.6	36.1	64.0	14.6	11.1	25.7	8.2	30.7	38.9	64.6	-2.2	+2.8	+0.6	15.2	10.8	26.0	39.5	65.5
Ρ	harma	1.9	1.5	3.4	1.6	2.0	3.6	7.0	1.5	1.5	3.0	1.6	2.2	3.8	6.8	-0.4	+0.2	-0.2	1.2	1.6	2.8	3.6	6.4
	D.D	1.4	0.7	2.1	0.9	1.0	1.9	4.1	0.7	0.8	1.5	0.6	0.9	1.5	3.0	-0.6	-0.4	-1.1	0.7	0.8	1.5	1.3	2.8
	C.C	0.5	0.8	1.3	0.6	1.0	1.6	2.9	0.8	0.7	1.5	1.0	1.3	2.3	3.8	+0.2	+0.7	+0.9	0.5	0.8	1.3	2.2	3.6
т	rading	17.5	15.8	33.3	17.5	17.1	34.6	67.9	18.2	15.5	33.7	17.9	17.5	35.4	69.1	+0.4	+0.8	+1.2	17.1	15.9	33.0	35.2	68.2
0	thers	4.9	4.9	9.8	5.1	7.5	12.6	22.4	4.8	4.6	9.4	6.4	7.6	14.0	23.4	-0.4	+1.4	+1.0	5.5	5.1	10.6	14.4	25.0
A	djust	-13.8	-12.3	-26.1	-13.9	-14.3	-28.2	-54.3	-14.3	-12.3	-26.6	-15.0	-14.3	-29.3	-55.9	-0.5	-1.1	-1.6	-14.6	-12.3	-26.9	-29.4	-56.3
т	otal	48.7	47.8	96.5	41.5	68.8	110.3	206.8	49.3	45.2	94.5	44.7	70.3	115.0	209.5	-2.0	+4.7	+2.7	49.8	46.8	96.6	117.9	214.5

(1) Including inter-segment sales/transfers

(2) In the Pharmaceuticals segment, figures are rounded to the nearest 100 million yen. Accordingly, some discrepancies may occur among totals.

(3) In FY2020, FINEOXOCOL (FO, cosmetic raw materials) was transferred from Basic Chemicals to Fine Chemicals

FY2020 OP Outlook by Segment (1)(2)

(¥billion)

				FY20	19 Act	ual						20 Out				C	Change)			20 Out f May 2		
		1Q	2Q	1H	3Q	4Q	2H	Total	1Q Actual	2Q Actual	1H Actual	3Q	4Q	2H	Total	1H Actual	2H	Total	1Q	2Q	1H	2H	Total
С	hem	0.9	-0.6	0.3	0.5	0.5	1.0	1.3	0.7	-0.8	-0.1	0.7	0.6	1.3	1.2	-0.4	+0.3	-0.1	1.2	0.0	1.2	1.5	2.7
	erformance laterials	4.0	4.4	8.4	4.7	3.9	8.6	17.0	5.3	5.4	10.7	4.9	5.0	9.9	20.6	+2.3	+1.3	+3.6	4.2	4.5	8.7	9.4	18.1
	gro	4.5	4.9	9.4	-1.8	11.7	9.9	19.3	4.0	3.8	7.8	-0.7	11.6	10.9	18.7	-1.6	+1.0	-0.6	3.6	3.1	6.7	11.7	18.4
Ρ	harma	0.4	0.1	0.5	0.1	0.3	0.4	0.9	-0.1	0.1	0.0	0.1	0.5	0.6	0.6	-0.5	+0.2	-0.3	-0.1	0.2	0.1	0.3	0.4
	D.D	0.2	-0.2	0.0	-0.2	0.0	-0.2	-0.1	-0.2	-0.1	-0.4	-0.4	-0.1	-0.5	-0.9	-0.4	-0.3	-0.7	-0.3	-0.1	-0.3	-0.6	-1.0
	C.C	0.2	0.3	0.5	0.2	0.4	0.6	1.1	0.2	0.2	0.4	0.4	0.6	1.0	1.4	-0.1	+0.5	+0.4	0.1	0.3	0.4	1.0	1.4
Т	rading	0.5	0.5	1.0	0.6	0.5	1.1	2.1	0.7	0.5	1.2	0.5	0.4	0.9	2.1	+0.2	-0.2	0.0	0.5	0.5	1.0	1.0	2.0
0	others	0.1	0.0	0.1	0.1	0.5	0.6	0.7	0.0	0.0	0.0	0.1	0.5	0.6	0.6	-0.1	0.0	-0.1	0.0	0.1	0.1	0.6	0.7
A	djustment	-1.1	-0.6	-1.7	-0.8	-0.2	-1.0	-2.7	-0.8	-0.8	-1.6	-1.4	-0.5	-1.9	-3.5	+0.1	-0.9	-0.8	-0.9	-0.8	-1.7	-1.3	-3.0
Т	otal	9.3	8.7	18.0	3.4	17.2	20.6	38.6	9.8	8.2	18.0	4.2	18.1	22.3	40.3	0.0	+1.7	+1.7	8.5	7.6	16.1	23.2	39.3

(1) OP is calculated by new method

- 1. Applied from FY2020 (no change for sales segmentation)
- 2. FY2019 restated based on new methods
- 3. Consolidation items
 - (such as unrealized gain on inventories)
 - (Old method) Included in each segment
 - (New method) Excluded from each segment and included in "Adjustment"
- (2) In the Pharmaceuticals segment, figures are rounded to the nearest 100 million yen. Accordingly, some discrepancies may occur among totals.

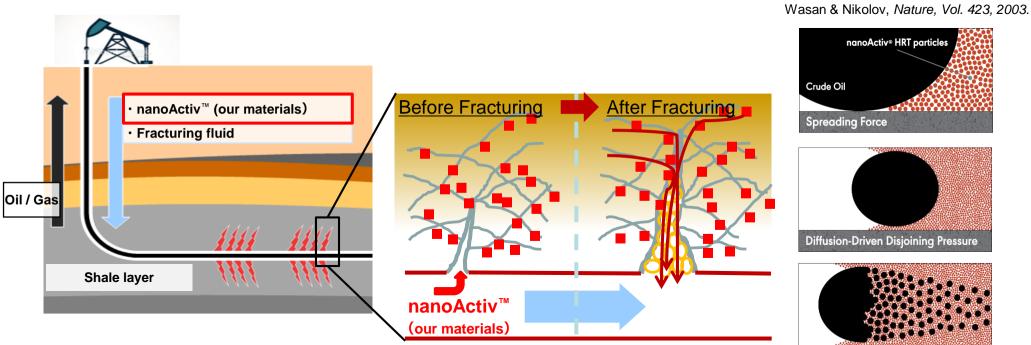
FY2020 Sales Outlook of Future Growth Engines

(Announced in May 2020)

(1)Including R&D costs deduction due to the sample shipments

FY2020 Sales Outlook Level (1)	Below ¥0.3 billion	¥0.3 to ¥0.6 billion	Above ¥0.6 billion	Total
Chem	New TEPIC (Liquid type) (Fine Chemicals) Venus® Oilclean (Fine Chemicals)			¥0.0 billion
Performance Materials	Flexible hard coating materials (Display)Light control film materials (Display)Hole injection layer materials (Display)Repellant bank layer materials (Display)Alignment materials for LC retarder (Display)Alignment materials for TV (Display)3D packaging process materials (Semis)Monomersol (3D-printing) (Inorganic)Organosol (Insulation CTE) (Inorganic)Monomersol (1norganic)New high refractive materials (IM layer film) (Inorganic)	CMOS image sensor materials (Semis) Oilfield materials (Inorganic)	EUV under layer (Semis)	¥3.1 billion
Agro Pharma, Others	NEXTER (Licensed-in) CLARE (In-house) ALEILE (In-house) New GE API product (Custom Chemicals) New GE API product (Custom Chemicals) Cell culture medium	TRANSFORM™/ EXCEED™/ VIRESCO™ (Licensed-in)	ROUNDUP AL I/II (In-house) GRACIA (In-house) Eldecalcitol (Custom Chemicals)	¥9.1 billion ¥1.2 billion
	Τ	otal ¥13.4 billion	1	15

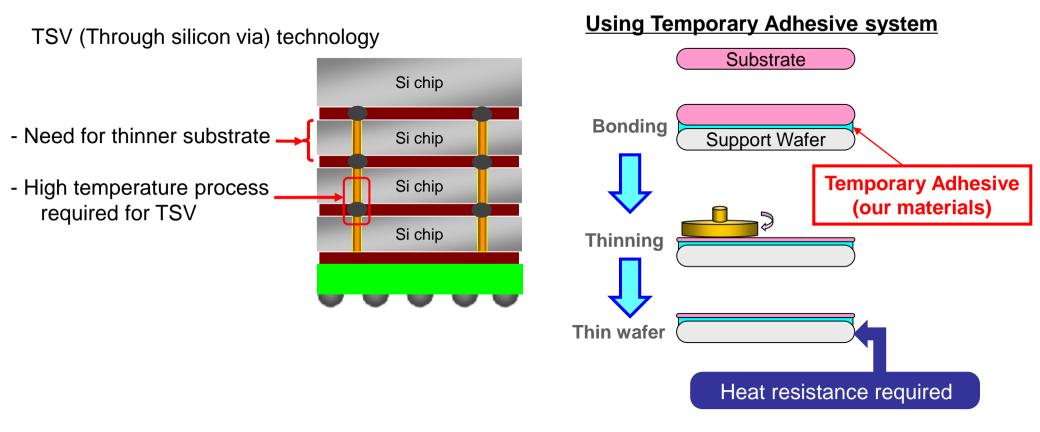
Oilfield Materials



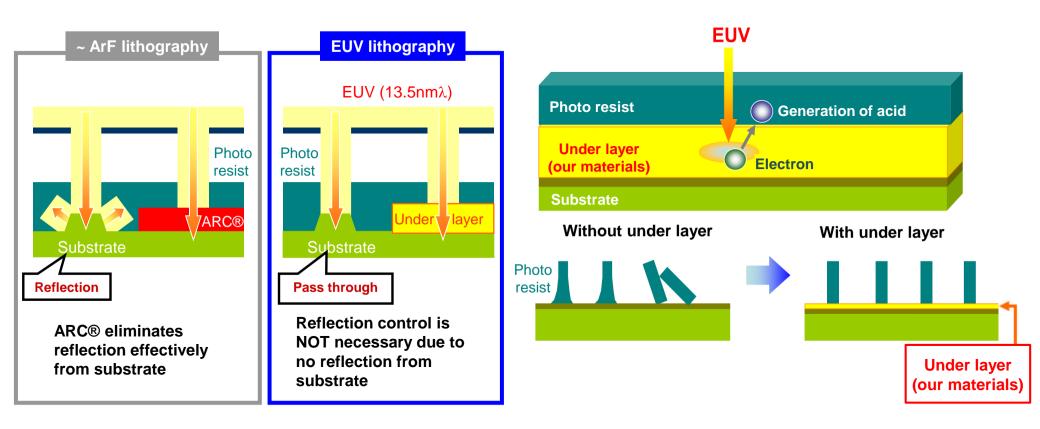
Brownian Motion/Diffusion Spreading Force \Rightarrow

Fragmentation

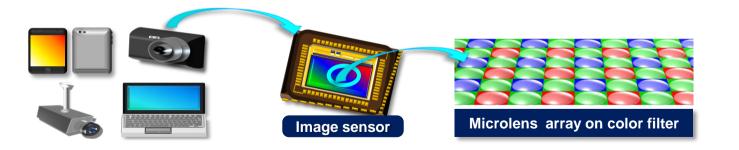
3D Packaging Process Materials



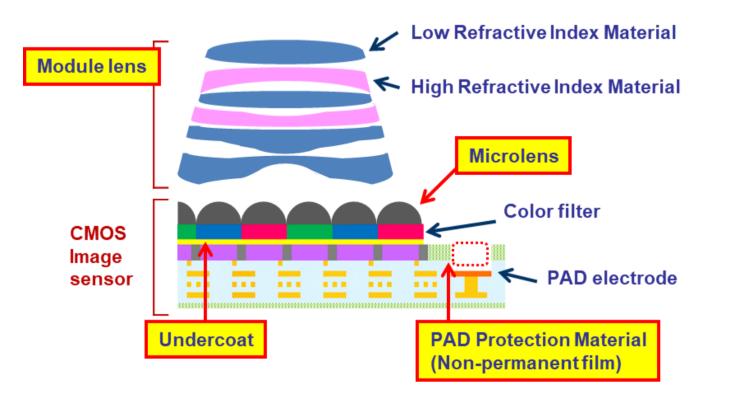
EUV Under Layer



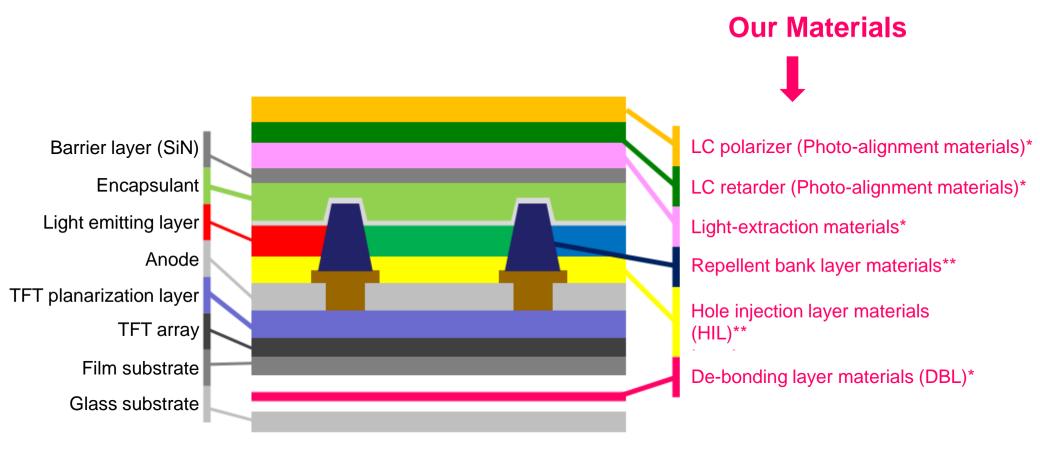
CMOS Image Sensor Materials



Our Materials



OLED-related Materials



OLED type:

- * Vapor deposition and Printing
- ** Printing

Cell Culture Medium

Conventional 2D method

New 3D method FCeM[®]

for cultivating large amounts of cells

Image: Constraint of the second s

- •Our material is used for cultivating large amounts of iPS/ES cells, Mesenchymal stem cell (MSC) and so on.
- •Cells are dispersed uniformly and floated by the used of our products.

FCeM® Preparation Kit



FCeM® 3D Culture Kit

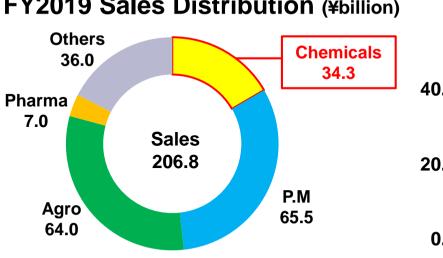
Cellhesion®

for MSC Suspension Culture

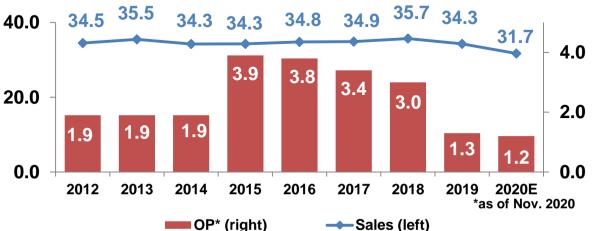


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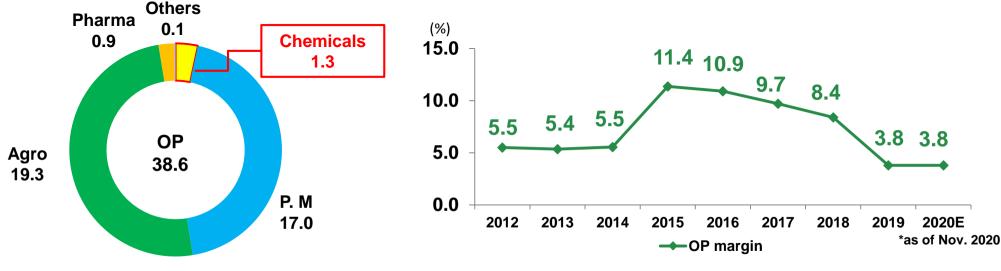
Chemicals – (A) Recent Financial Performance



1. FY2019 Sales Distribution (¥billion) 3. Recent Financial Performance (¥billion)



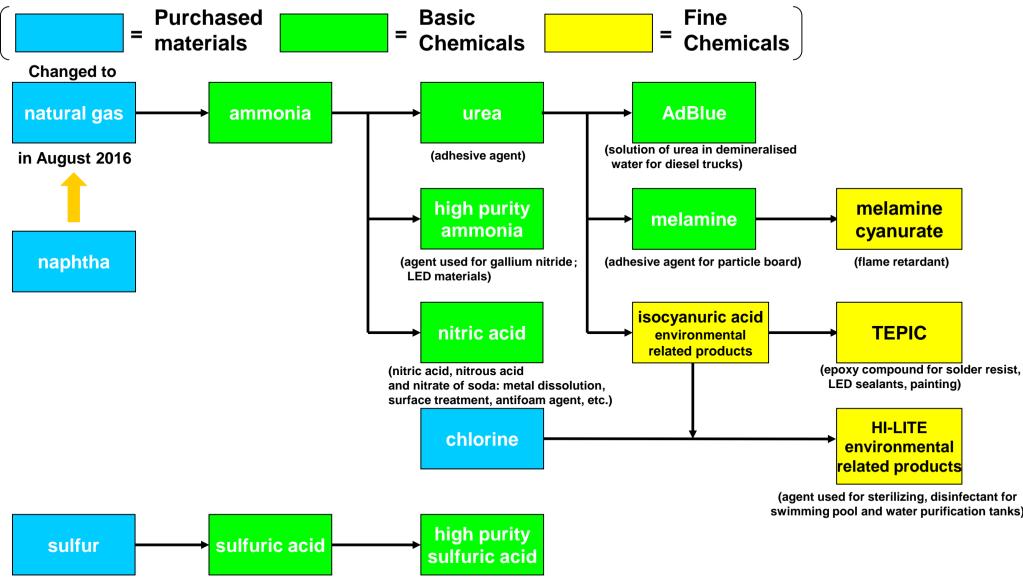
2. FY2019 OP Distribution (New method*) (¥billion)



*OP is calculated by new method (see p14)

Chemicals – (B) Flow Chart of Selected Basic and Fine Chemicals Products

Core products of Basic Chemicals : Ammonia related products and sulfuric acid related products
 FY2019 ammonia domestic production capacity share 11%, high percentage of self-consumption of ammonia



⁽agent used for cleaning Semicon)

Chemicals – (C) Sales YOY Change

				;	Sales Y	ΌY Cha	ange(1))		
	Main Products	FY2	019 Ac	ctual		20 Ou f May 2		-	20 Ou Nov.	
		1H	2H	Total	1H	2H	Total	1H Actual	2H	Total
TEPIC	 Epoxy compound for : (A) electronic materials (solder resist, LED materials), (B) general applications such as powder coating agent for paint World largest producer 	+5%	+3%	+4%	+5%	+7%	+6%	-10%	+1%	-4%
Environmental related products	 HI-LITE : made from chlorinated isocyanuric acid, used for sterilizing, disinfectant for swimming pool as well as water purification tank 	+2%	-6%	-2%	+1%	+20%	+9%	-9%	+22%	+4%
Two products account	Total Fine Chemicals for 83% of total consolidated subsegment sales (FY2019)	+3%	-1%	+1%	+20%	+28%	+24%	+3%	+21%	+12%
Melamine	 Mainly used as adhesive agent for particle board, medium density fiberboard, plywood 	0%	-22%	-12%	-34%	-26%	-30%	-55%	-49%	-52%
Urea including <i>A</i> dBlue	 Urea: mainly used for urea formaldehyde resin, adhesiv e agent AdBlue: solution of urea in demineralised water for diesel trucks to reduce Nox 	+7%	+5%	+6%	+7%	+6%	+6%	-5%	-1%	-3%
High purity sulfuric acid	 ♦ Used to clean semiconductors ♦ Largest in domestic market 	-2%	+12%	+5%	+19%	+15%	+17%	+14%	+19%	+17%
Nitric acid products	 Nitric acid, nitrous acid and nitrate of soda: Metal dissolution, surface treatment, antifoam agent 	-4%	-10%	-7%	+14%	+19%	+17%	-2%	+7%	+3%
	Total Basic Chemicals for 53% of total consolidated subsegment sales (FY2019)	-2%	-8%	-6%	-8%	-4%	-6%	-20%	-13%	-16%

(1) In FY2020, FINEOXOCOL (cosmetic raw materials, FY2019 sales about ¥1.5 billion) was transferred from Basic Chemicals to Fine Chemicals

(Blank)

Chemicals – (D-1) Profit Overview

-																							
				FY201	9 Actu	al (A)					20 Outl f May 2					FY2020 as o)Outlo fNov.2	• •				Change (B)-(A)	
		1Q	2Q	1H	3Q	4Q	2H	Total	1Q	2Q	1H	2H	Total	1Q Actual	2Q Actual	1H Actual	3Q	4Q	2H	Total	1H Actual	2H	Total
Sal	es	8.4	8.4	16.8	8.7	8.8	17.5	34.3	8.5	8.5	17.0	18.6	35.6	7.4	7.3	14.7	8.1	8.9	17.0	31.7	-2.1	-0.5	-2.6
Fin	е	2.6	2.6	5.2	2.6	2.7	5.3	10.5	3.2	3.2	6.4	6.7	13.1	2.7	2.7	5.4	2.9	3.5	6.4	11.8	+0.2	+1.1	+1.3
Bas	sic	5.8	5.8	11.6	6.1	6.1	12.2	23.8	5.3	5.3	10.6	11.9	22.5	4.7	4.6	9.3	5.2	5.4	10.6	19.9	-2.3	-1.6	-3.9
Ο	Ρ	0.9	-0.6	0.3	0.5	0.5	1.0	1.3	1.2	0.0	1.2	1.5	2.7	0.7	-0.8	-0.1	0.7	0.6	1.3	1.2	-0.4	+0.3	-0.1

*In FY2020, FINEOXOCOL (FO, cosmetic raw materials) was transferred from Basic Chemicals to Fine Chemicals

1Q FY2020 Review <vs. 1Q FY2019>

(Fine)

 Sales down: TEPIC for general applications (export), TEPIC for electronic materials (sluggish demand for cars), environmental related products (sluggish demand for pools)

Inventory adjustment cost down

 Sales up (including ¥0.3 billion FO* transferred from BC), OP up (Basic)

- Sales up: high purity sulfuric acid (for semis)
- Sales down: domestic melamine (sluggish demand for housing), export melamine(due to reduction of low margin deals) urea including AdBlue, nitric acid products

Sales down (including ¥0.3 billion FO* transferred to FC), OP down (Total)

Sales down ¥1.0 billion, OP down ¥0.2 billion

<vs. 1Q FY2020 Outlook as of May 2020>

(Fine)

 Sales below target: TEPIC for general applications, TEPIC for electronic materials, environmental related products

♦ Sales below target, OP below target

(Basic)

- Sales below target: melamine (both domestic and export), urea including AdBlue, high purity sulfuric acid, nitric acid products
- Sales below target, OP below target

(Total)

Sales down ¥1.1 billion, OP down ¥0.5 billion

2Q FY2020 Review

(Fine)

- Sales down: TEPIC for general applications (export),
 - TEPIC for electronic materials (sluggish demand for cars),
 - environmental related products (export up, sluggish demand for domestic pools)
- Inventory adjustment cost up

◆ Sales up (including ¥0.3 billion FO* transferred from BC), OP down

- (Basic)
 - Sales up: high purity sulfuric acid (for semis)
 - Sales down: domestic melamine (sluggish demand for housing), export melamine (due to reduction of low margin deals, sluggish demand) nitric acid products (for capacitors), urea including AdBlue (sluggish demand for trucks)
 - Inventory adjustment cost up
 - Sales down (including ¥0.3 billion FO* transferred to FC), OP down
- (Total)

(Fine)

Sales down ¥1.1 billion, OP down ¥0.2 billion

<vs. 2Q FY2020 Outlook as of May 2020>

- Sales above target: TEPIC for general applications (export)
- Sales below target: TEPIC for electronic materials (sluggish demand for cars), environmental related products (export up, sluggish demand for domestic pools)
- Inventory adjustment cost above expectations
- Sales below target, OP below target
- (Basic)
 - Sales below target: urea including AdBlue (sluggish demand for trucks), melamine (sluggish demand for domestic, export in line with target), high purity sulfuric acid, nitric acid products (decline in demand)
 - Inventory adjustment cost above expectations
 - Sales below target, OP below target
- (Total)
- Sales down ¥1.2 billion, OP down ¥0.8 billion

(¥hillion)

Chemicals – (D-2) Profit Overview

1H FY2020 Review <vs. 1H FY2019>

(Fine)

- Sales down: TEPIC for general applications (export),
 - TEPIC for electronic materials (sluggish demand for cars), environmental related products (export up,
 - sluggish demand for domestic pools)
- Sales up (including ¥0.6 billion FO* transferred from BC), OP down (Basic)
- Sales up: high purity sulfuric acid (for semis)
- Sales down: domestic melamine (sluggish demand for housing), export melamine (due to reduction of low margin deals,

sluggish demand)

nitric acid products (for capacitors),

urea including AdBlue (sluggish demand for trucks)

 Sales down (including ¥0.6 billion FO* transferred to FC), OP down (Total)

Sales down ¥2.1 billion, OP down ¥0.4 billion

<vs. 1H FY2020 Outlook as of May 2020>

(Fine)

 Sales below target: TEPIC for general applications (export), TEPIC for electronic materials (sluggish demand for cars), environmental related products (export up,

sluggish demand for domestic pools)

♦ Sales below target, OP below target

(Basic)

- Sales below target: urea including AdBlue,
 - melamine (sluggish demand for domestic and export), high purity sulfuric acid,
 - nitric acid products (decline in demand, failure to increase prices)
- Inventory adjustment cost above expectations
- Sales below target, OP below target

(Total)

Sales down ¥2.3 billion, OP down ¥1.3 billion

2H FY2020 Outlook

(Fine)

- Sales up: TEPIC for general applications (export), environmental related products (export up, isocyanuric acid capacity expansion completed)
- Sales flat: TEPIC for electronic materials (decline for automotive applications, increase for others),
- Fixed cost up, feedstock and raw materials cost down
- Sales up (including ¥0.8 billion FO* transferred from BC), OP up (Basic)
- Sales up: high purity sulfuric acid (for semis), nitric acid products (a competitor's withdrawal from the market)
- Sales down: domestic melamine (sluggish demand for housing), export melamine (due to reduction of low margin deals, sluggish demand) urea including AdBlue (urea sales weak despite AdBlue recovery)
- Inventory adjustment cost down, feedstock and raw materials cost down
- Sales down (including ¥0.8 billion FO* transferred to FC), OP up

(Total)

Sales down ¥0.5 billion, OP up ¥0.3 billion

<vs. 2H FY2020 Outlook as of May 2020>

(Fine)

- Sales above target: TEPIC for general applications (export), environmental related products (export up, sluggish demand for domestic pools)
- Sales below target: TEPIC for electronic materials (sluggish demand for cars),
- Inventory adjustment cost above expectations, feedstock and raw materials cost below expectations
- Sales below target, OP below target

(Basic)

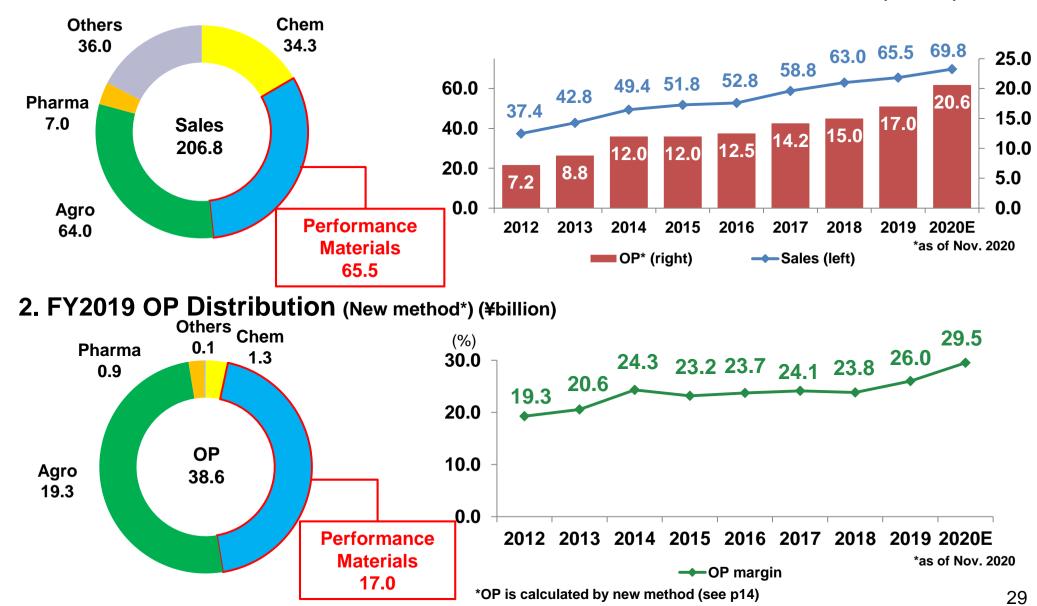
- Sales above target: high purity sulfuric acid (for semis)
- Sales below target: melamine (sluggish demand for domestic and export), urea including AdBlue (sluggish recovery),
 - nitric acid products (decline in demand, failure to increase prices)
- Inventory adjustment cost below expectations, feedstock and raw materials cost below expectations
- ◆ Sales below target, OP above target

(Total)

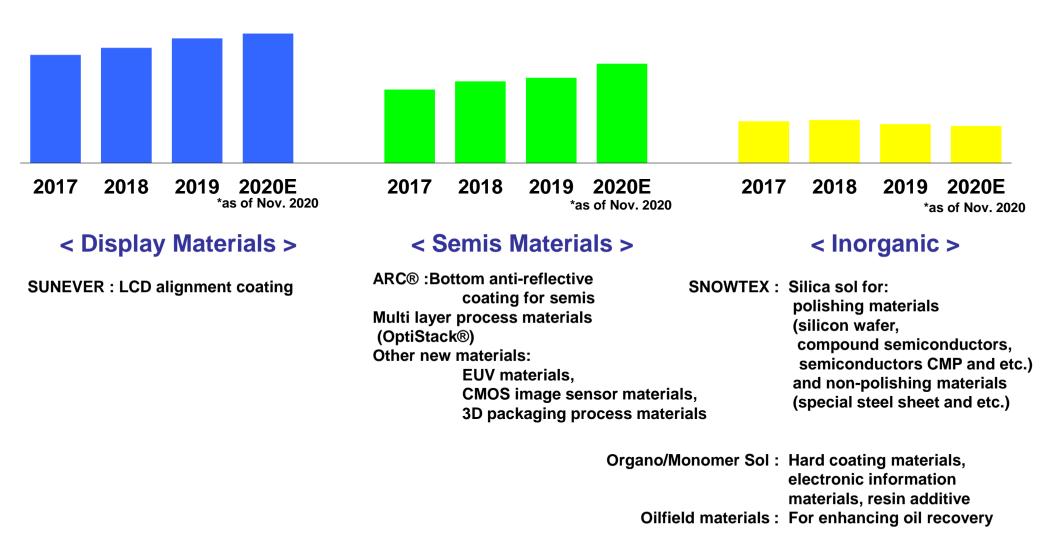
Sales down ¥1.6 billion, OP down ¥0.2 billion

Performance Materials – (A) Recent Financial Performance

1. FY2019 Sales Distribution (¥billion) 3. Recent Financial Performance (¥billion)



Performance Materials – (B) FY2017-2020E Sales Distribution



Performance Materials – (C) Sales YOY Change

	Sales YOY Change										
Main Products	FY2	2019 Act	tual		020 Out of May 2		FY2020 Outlook as of Nov. 2020				
	1H	2H	Total	1H	2H	Total	1H Actual	2H	Total		
SUNEVER	+3%	+14%	+9%	+7%	+1%	+4%	+7%	0%	+3%		
Total Display Materials	+3%	+14%	+8%	+7%	+3%	+5%	+7%	+1%	+4%		
KrF (ARC®)	-5%	+12%	+3%	+1%	-4%	-2%	+14%	-3%	+5%		
ArF (ARC®)	-3%	+5%	+1%	+6%	+5%	+6%	+16%	+10%	+13%		
Total ARC®	-3%	+9%	+3%	+5%	+2%	+3%	+16%	+6%	+11%		
Other Semis Materials (1)	-8%	+25%	+8%	+45%	+28%	+35%	+51%	+17%	+31%		
Total Semis Materials	-4%	+13%	+4%	+15%	+9%	+12%	+25%	+9%	+16%		
SNOWTEX	-2%	-2%	-2%	+6%	+7%	+7%	+2%	0%	+1%		
Organo/Monomer Sol	-11%	-14%	-13%	-5%	+2%	-1%	-15%	-3%	-9%		
Oilfield Materials	-64%	-29%	-52%	+29%	+70%	+50%	-91%	-15%	-52%		
Total Inorganic Materials Three products account for 82% of total consolidated subsegment sales (FY2019)	-11%	-8%	-9%	+1%	+7%	+4%	-8%	-2%	-5%		

(1) Multi layer process materials (OptiStack®), EUV materials, CMOS image sensor materials, 3D packaging process materials etc.

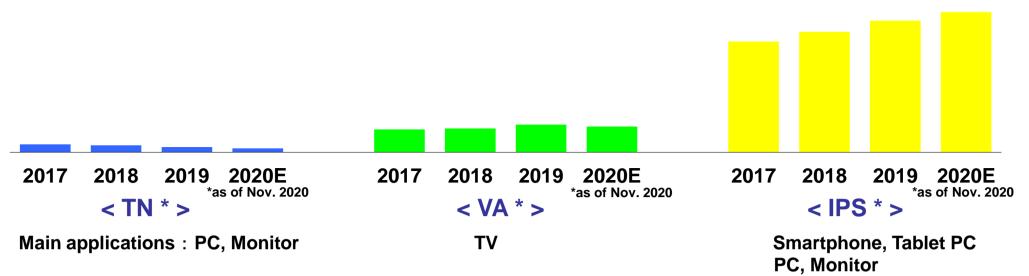
• Semiconductor capex plan to capture long-term future business:

Main capex :	FY2014	Analyzing and evaluation R&D equipment (¥1.1 billion)
(approval basis)	FY2015	Product development facilities(¥2.8 billion), Analyzing and evaluation R&D equipment (¥0.8 billion),
,		Production capacity expansion (¥0.8 billion), NCK* (¥0.7 billion), Material Research Lab. (¥0.5 billion)
	FY2016	NCK* production capacity expansion (¥2.6 billion),
		Analyzing and evaluation R&D equipment (¥1.0 billion), Material Research Lab. (¥0.4 billion)
	FY2017	Material Research Lab. (¥0.4 billion)
	FY2018	Production capacity expansion (¥0.2 billion), Production test facilities (¥0.2 billion)
	FY2019	Production test facilities (¥0.1 billion)
	FY2020	Material Research Lab. new annex (¥2.0 billion), Analyzing and evaluation R&D equipment (¥0.4 billion),
		Production test facilities (¥0.2 billion)

*NCK: Consolidated subsidiary in South Korea. R&D, production and sales of display and semis materials. 31

Performance Materials – (D) SUNEVER

<SUNEVER Sales Distribution by Mode>



<SUNEVER Sales YOY Change by Mode>

		FY2019 Actual		FY2020 Outloo as of May 2020			Y2020 Outloo as of Nov. 2020	YOY Change		
	1H	2H Tot	al 1H	2H Total		1H 2H Actual		Total		111 11
TN	****	XX XX	¥ ¥¥	**	22	***	***		+0~+9%	1
VA	メメメ	**	7	7	7	X	× ×		-0~-9% -10~-19%	¥ ¥¥
IPS	7	X X X	7	7	7	**	7	×	-20~-29%	777
Total	+3%	+14%	+9% +7%	% +1%	+4%	+7%	0%	+3%	-30%~-39%	7777

*TN : Twisted Nematic, VA : Vertical Alignment, IPS : In-Plane Switching

Performance Materials – (E-1) Profit Overview

					IVIC		114				,										(¥bi	llion)
	FY2019 Actual (A) FY2020 O as of Ma																					
	1Q	2Q	1H	3Q	4Q	2H	Total	1Q	2Q	1H	2H	Total	1Q Actual	2Q Actual	1H Actual	3Q	4Q	2H	Total	1H Actual	2H	Total
Sales	15.1	16.3	31.4	17.0	17.1	34.1	65.5	16.9	17.2	34.1	36.0	70.1	17.1	17.5	34.6	17.5	17.7	35.2	69.8	+3.2	+1.1	+4.3
OP	4.0	4.4	8.4	4.7	3.9	8.6	17.0	4.2	4.5	8.7	9.4	18.1	5.3	5.4		4.9	5.0	9.9	20.6	+2.3	+1.3	+3.6
other new materials: EUV								materi	ials, CN	IOS im	-			•	•	g proce	ess mat	erials t	otal			
 1Q FY2020 Review DP sales up, OP up <vs. 1q="" fy2019=""> Photo IPS up (smartphone and non-smartphone up), rubbing IPS up (non-smartphone up), VA up , TN down</vs.> Semis Materials sales up, OP up ARC® up, other semis materials up (multi layer materials up, other new materials up) Steadily growing logic market, recovery of memory market Fixed cost down ¥0.4 billion Inorganic Materials sales down, OP down SNOWTEX up (non-polishing flat, polishing up), Organo/Monomer Sol down, Oilfield materials down (sluggish shale oil market) Fixed cost down ¥0.4 billion in total Sales up ¥2.0 billion, OP up ¥1.3 billion 									 2Q FY2020 Review PP sales up, OP up Photo IPS up (non-smartphone up), rubbing IPS down (shifted to photo IPS), VA down, TN down, Fixed cost up ¥0.1 billion Semis Materials sales up, OP up ARC® up, other semis materials up (multi layer materials and other new materials up) Steadily growing semis market overall Fixed cost down ¥0.2 billion Inorganic Materials sales down, OP up SNOWTEX down (non-polishing down, polishing up), Organo/Monomer Sol down, Oilfield materials down (sluggish shale oil market) Fixed cost down ¥0.2 billion Fixed cost down ¥0.2 billion Fixed cost down ¥0.3 billion in total Sales up ¥1.2 billion, OP up ¥1.0 billion 													
 DP sales Photo IF rubbing VA belo Fixed co Semis Ma ARC® a (multi la Steadily Fixed co 	PS below IPS abo w target ost belo aterials s bove tal ayer mat y growin	w target ove targ t, TN be w expects sales ab rget, oth erials a g logic	(smartp et (non- low targ tations ove targ ner semi nd othe semis n	ohone bo smartpl jet, (¥0.3 bi get, OP a is mater r new m narket o	none ab Ilion) above ta ials belo aterials verall	ove targ arget ow targe	et				F r \ ↓ ◆ Se ((Photo IP ubbing /A belov mis Ma MRC® al MRC® al multi lay Steadily	below ta S above IPS abo w target terials s bove tar yer mate growing	rget, OF target ve targe , TN bel ales ab get, oth erials ar g semis	P above (non-sm et (smart ow targe ove targ er semis nd other	target artphore a et, Fixed et, OP a s materi new ma overall,	ne above above ta l cost be bove ta als abov aterials a Fixed c	e target arget), elow ex rget ve targe above ta ost belo	pectatio et arget) ow expe	ns (¥0.2		

SNOWTEX below target (non-polishing for cars below target,

Oilfield materials below target (sluggish shale oil market)

Fixed cost below expectations (¥0.2 billion)

Sales up ¥0.3 billion, OP up ¥0.9 billion

Fixed cost below expectations (¥0.6 billion) in total

polishing in line with target), Organo/Monomer Sol below target,

- Fixed cost below expectations (¥0.5 billion)
- Inorganic Materials sales below target, OP above target
 SNOWTEX above target (non-polishing for cars below target, polishing above target),
 Organo/Monomer Sol below target,
 Oilfield materials below target (sluggish shale oil market)
 Fixed cost below expectations (¥0.2 billion)
- Fixed cost below expectations (¥1.0 billion) in total
- Sales up ¥0.2 billion, OP up ¥1.1 billion

Performance Materials – (E-2) Profit Overview

other new materials: EUV materials, CMOS image sensor materials, 3D packaging process materials total

1H FY2020 Review <vs. 1H FY2019>

DP sales up, OP up

Photo IPS up (non-smartphone up),

rubbing IPS down (shifted to photo IPS, non-smartphone up),

VA down (customer production decrease), TN down, Fixed cost up ¥0.2 billion

Semis Materials sales up, OP up

ARC® up, other semis materials up (multi layer materials and other new materials up) Steadily growing semis market overall Fixed cost down ¥0.6 billion

- Inorganic Materials sales down, OP up SNOWTEX up (non-polishing down, polishing up), Organo/Monomer Sol down, Oilfield materials down (sluggish shale oil market) Fixed cost down ¥0.3 billion
- Fixed cost down ±0.5 billion in total
- Sales up ¥3.2 billion, OP up ¥2.3 billion

<vs. 1H FY2020 Outlook as of May 2020>

- DP sales in line with target, OP above target Photo IPS below target (smartphone below target, non-smartphone above target), rubbing IPS above target (smartphone and non-smartphone above target), VA below target, TN below target, Fixed cost below expectations (¥0.5 billion)
- Semis Materials sales above target, OP above target ARC® above target, other semis materials above target (multi layer materials above target, other new materials below target) Steadily growing semis market overall Fixed cost below expectations (¥0.7 billion)
- Inorganic Materials sales below target, OP above target SNOWTEX below target (non-polishing for cars below target, polishing above target), Organo/Monomer Sol below target,

Oilfield materials below target (sluggish shale oil market)

- Fixed cost below expectations (¥0.3 billion)
- Fixed cost below expectations (¥1.6 billion) in total
- Sales up ¥0.5 billion, OP up ¥2.0 billion

2H FY2020 Outlook

 DP sales up, OP down Photo IPS up (non-smartphone up), rubbing IPS down (shift to photo IPS), VA down (customer production decrease), TN down, Fixed cost up ¥0.1 billion
 Semis Materials sales up, OP up ARC® up, other semis materials up (multi layer materials up, other new materials down) Steadily growing semis market overall Fixed cost down ¥0.3 billion
 Inorganic Materials sales down, OP up

- SNOWTEX flat (non-polishing down, polishing up), Organo/Monomer Sol down, Oilfield materials down (sluggish shale oil market)
- Fixed cost down ¥0.2 billion in total
- Sales up ¥1.1 billion, OP up ¥1.3 billion

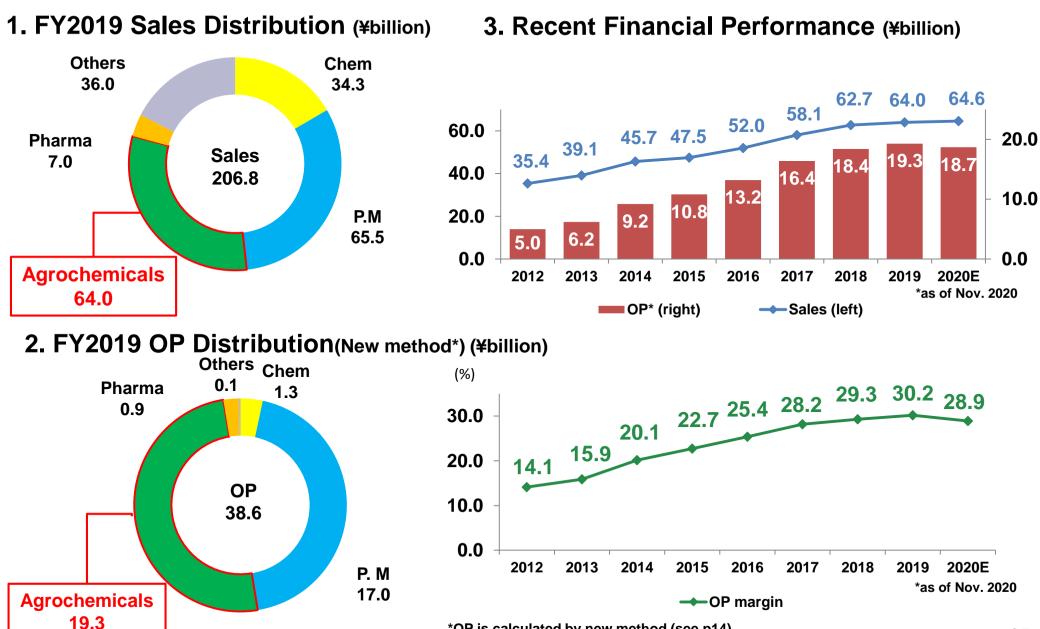
<vs. 2H FY2020 Outlook as of May 2020>

- DP sales below target, OP above target Photo IPS above target (non-smartphone above target), rubbing IPS below target (customer production decrease), VA below target (customer production decrease), TN below target, Fixed cost below expectations (¥0.2 billion)
- Semis Materials sales in line with target, OP above target ARC® above target, other semis materials below target (multi layer materials and other new materials below target) Inventory adjustment cost below expectations (¥0.2 billion)
- Inorganic Materials sales below target, OP below target SNOWTEX below target (non-polishing for cars below target, polishing below target),

Organo/Monomer Sol below target,

- Oilfield materials below target (sluggish shale oil market)
- Fixed cost below expectations (¥0.2 billion) in total
- Sales down ¥0.8 billion, OP up ¥0.5 billion

Agrochemicals – (A) Recent Financial Performance



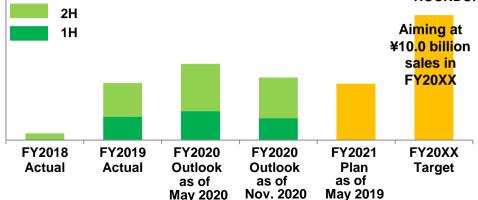
*OP is calculated by new method (see p14)

Agrochemicals – (B) Sales YOY Change (Before Discount)

No.1 in the domestic agrochemicals sales ranking (Oct.2017- Sep.2018)

		Consolidated Sales YOY Change										
Main Products (in order of		F	Y2019 Actua	al	FY2020 Outlook (as of May2020)	FY2020 Outlook(as of Nov. 2020)						
FY2019 sales amount)		1H	2H	Total	Total	1H Actual	vs. Plan as of May 2020(undisclosed)	2H	Total			
Fluralaner	Animal health products	-10%	-8%	-9%	-9%	-20%	above	+3%	-11%			
ROUNDUP (1)	Herbicide	+7%	+5%	+6%	0%	-1%	below	+1%	0%			
ALTAIR	Herbicide	+7%	+3%	+4%	+13%	+21%	below	+15%	+16%			
TARGA	Herbicide	-21%	-16%	-19%	-4%	-11%	above	+23%	+4%			
GRACIA	Insecticide	over+2900%	over+450%	over+700%	+33%	-6%	below	+21%	+10%			
PERMIT	Herbicide	-30%	+28%	+8%	-5%	-26%	below	+1%	-5%			
LEIMAY	Fungicide	-37%	-4%	-16%	+8%	+26%	above	+5%	+11%			
QUINTEC	Fungicide	-	-	-	+36%	-	above	+4%	+25%			
Total segment	-	-1%	+6%	+3%	+2%	-7%	below	+7%	+1%			

GRACIA Sales Growth forecast



(1) ROUNDUP: See presentation materials for the ROUNDUP business briefing (January 22, 2020) <u>https://www.nissanchem.co.jp/eng/news_release/release/en2020_01_24.pdf</u> ROUNDUP AL for general household accounting for 19% of FY2019 ROUNDUP sales

♦ QUINTEC (QUINOXYFEN)

- Acquired the QUINOXYFEN product line of fungicides including QUINTEC brand from Corteva in November 2019 and started to sell in December 2019
- Protectant fungicide highly effective in controlling powdery mildew in fruits (especially grapes) and vegetables, mainly sold in USA

Agrochemicals – (C) Main Products

Launch	Products	Application	Product development type	Notes
2002	ROUNDUP	Herbicide	Acquired	Acquired domestic business from Monsanto, continuing to grow
2008	LEIMAY	Fungicide	In-house	
2008	STARMITE	Insecticide	In-house	
2009	PULSOR (THIFLUZAMIDE)	Fungicide	Acquired	Acquired world business from Dow
2009	PREVATHON	Insecticide	Licensed-in	Licensed from DuPont
2010	ROUNDUP AL	Herbicide	In-house	For general household shower-type herbicide market, launched ROUNDUP ALII in FY2016 and ALIII in FY2017, growing sharply
2011	ALTAIR	Herbicide	In-house	Launched in Korea in FY2011 and in Japan in FY2012
2013	Fluralaner	Animal health products	In-house	Started to be supplied to MSD* in July as scheduled
2014	BRAVECTO**	Veterinary medical product for companion animals	-	Launched in several countries in EU in April 2014, in the USA in June 2014 and in Japan in July 2015
2015	TREFANOCIDE	Herbicide	Licensed-in	Acquired by Gowan from Dow, exclusive sales right in Japan transferred to NCC
2017	NEXTER	Fungicide	Licensed-in	Licensed from Syngenta
2017	TRANSFORM™ / EXCEED™	Insecticide	Licensed-in	Licensed from Dow
2017	EXZOLT**	Veterinary medical product for poultry	-	Launched in EU in September for poultry red mites by MSD
2018	GRACIA	Insecticide	In-house	Effective against a wide range of serious pests, having less negative impact on honeybees. Launched in Korea in FY2018 (expected peak sales 10.0 billion yen)
2019	QUINTEC (QUINOXYFEN)	Fungicide	Acquired	Acquired world business from Corteva in November 2019 Protectant fungicide highly effective in controlling powdery mildew in fruits and vegetables

Pipeline

	2023	NC-241(PYRAPROPOYNE)	Fungicide	In-house	General fungicide (expected peak sales 5.0 billion yen)
ſ	2024	NC-653(DIMESULFAZET)	NESULFAZET) Herbicide Ir		Effective against resistant weeds, having excellent safety to rice,
	2024			In-house	(expected peak sales 3.0 billion yen)
ſ	2027	NC-656	Herbicide In-h		Our first foliar application rice herbicide with excellent efficacy
	2027	NC-030	Herbicide	In-house	against resistant grass weeds (expected peak sales 10.0 billion yen)

*MSD: MSD Animal Health, the global animal health business unit of Merck

**BRAVECTO, EXZOLT: the product names developed by MSD, containing the active substance Fluralaner

Export sales* account for 39% of FY2019 consolidated segment sales (Asia:21%, Europe/Africa:65%, North/Central/South America:14%) *Including Fluralaner

Expected peak sales of new products (GRACIA, QUINTEC, NC-241, 653, 656) 30.0 billion yen

Agrochemicals – (D-1) Fluralaner

Fluralaner

*MSD: MSD Animal Health, the global animal health business unit of Merck

- Invented by NCC and supplied to MSD* as the active pharmaceutical ingredient of BRAVECTO and EXZOLT
- Currently, BRAVECTO series and EXZOLT are available in 100 countries
- Compound patent

Fluralaner's compound patent expires in March 2025,

but many countries have a patent term extension system

• Some EU countries including UK, France, Germany – already extended to February 2029

•USA, etc.

- applications under examination

BRAVECTO

- Developed and launched by MSD
- Veterinary medical products providing 12 weeks of continuous protection for dogs and cats against fleas and ticks with immediate effect, nearly 3 times longer than any monthly products in the market.
- Chewable tablet for dogs

April 2014 Europe, June 2014 USA, July 2015 Japan, July 2019 China July 2020 monthly chews for puppies approved in USA

- Spot-on solution for dogs and cats for cats: July 2016 EU, December 2016 USA, June 2018 Japan for dogs: January 2017 USA, EU, August 2020 Japan(approved)

BRAVECTO Plus

 A broad-spectrum combination spot-on solution for cats to treat internal and external parasite infestations July 2018 Europe, December 2019 USA, August 2020 Japan(approved)

EXZOLT

- A poultry medicine against red mite launched by MSD (administered via drinking water)

September 2017 Europe, June 2018 Korea, and Middle East etc.

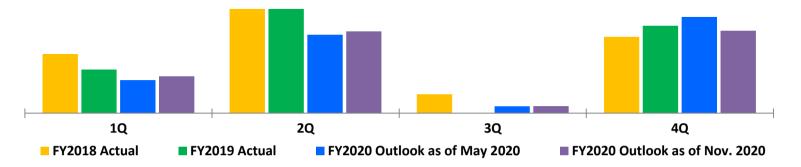


Agrochemicals – (D-2) Fluralaner

♦NCC's Revenues

Sales of Fluralaner to MSD as API* of BRAVECTO and EXOLT products + Running royalties received from MSD semi-annually (February, August) API*: Active Pharmaceutical Ingredient

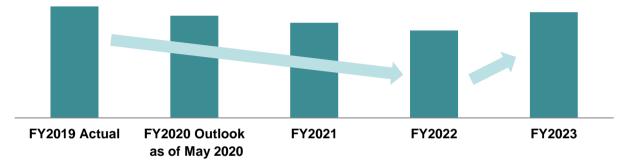
FY2018-FY2020 Fluralaner Quarterly Sales (including royalties)



FY2019-FY2023 Fluralaner Pro-forma Sales (including royalties) Image (Announced in May 2020)

BRAVECTO and EXOLT sales expected to grow steadily

 NCC's Fluralaner sales expected to decrease until FY2022 due to continuing inventory adjustment and recover in FY2023



BRAVECTO and EXOLT R&D

Several pipeline products being developed by MSD (including new type of BRAVECTO for pets and spot-on solution for livestock)

Agrochemicals – (E) Joint Venture Company in India

Nissan Bharat Rasayan Private Limited (NBR)

Head Office Plant Location Opening of Business Business	Gurgaon, Haryana (near New Delhi) Newly built in Saykha, Gujarat (land le April 1, 2020 (assumptions as of 2022 Manufacturing active ingredients of a)	,
Buomooo	exporting them to NCC	<pre><funding (¥billion)="" plan=""></funding></pre>	
Number of Operators	150-200	Plant	4.3 Capital (INR 1.5 billion)
Plant Operating	2Q FY2022	Working capital and others	2.4 Borrowings provided by NCC
Shareholders	NCC 70%,		Borrowings provided by local banks
	Bharat Rasayan LTD (BRL) 30%	Total required funds	6.7 Total funding plan
Board of Directors	NCC 5, BRL 2, Independent 1, Total 8		

<Expected Net Contribution to NCC's Consolidated PL>

_				(round numb	er, ¥billion)
FY	2021	2022	2023	2024	2025
OP	-0.3	0.5	1.2	2.0	3.2

Bharat Rasayan Ltd (BRL)

Foundation Listing	1989 National Stock Exchange of India(NSE), Bombay Stock Exchange (BSE)
U	
Major Shareholders	Founders families including Sat Narain Gupta, Chairman 74.8%
2019 PL	Sales INR 12,151 million, Net Income after Taxes INR 1,576 million
	(one of major Indian agrochemical companies)
Plant Location	2 plants: (A) Dahej, Gujarat (B) Rohtak, Haryana
Relationship with	BRL manufactures active ingredients and intermediates of NCC's products. Bharat Insecticides Ltd (BIL),
NCC	a related company of Bharat group, distributes certain NCC's products(TARGA, PULSOR, PERMIT) in India
Merits to NCC	Reliable and experienced local partner
	 Diversify and secure sources of active ingredients and decrease materials shortage risks

•Lower production costs compared to plants in Japan

•Readily available plant site (official approval process for land lease already completed)

•Much less management and financial risks compared to M&A of an existing local company

2.3 3.3

1.1 6.7

Agrochemicals – (F-1) Profit Overview

(¥billion)

	FY2019 Actual (A)						FY2020 Outlook as of May 2020			FY2020 Outlook (B) as of Nov. 2020				Change (B)-(A)								
	1Q	2Q	1H	3Q	4Q	2H	Total	1Q	2Q	1H	2H	Total	1Q Actual	2Q Actual	1H Actual	3Q	4Q	2H	Total	1H Actual	2H	Total
Sales	14.7	13.2	27.9	5.5	30.6	36.1	64.0	15.2	10.8	26.0	39.5	65.5	14.6	11.1	25.7	8.2	30.7	38.9	64.6	-2.2	+2.8	+0.6
OP	4.5	4.9	9.4	-1.8	11.7	9.9	19.3	3.6	3.1	6.7	11.7	18.4	4.0	3.8	7.8	-0.7	11.6	10.9	18.7	-1.6	+1.0	-0.6

1Q FY2020 Review <vs. 1Q FY2019>

- Sales up : TARGA(export: shipment shifted from 2H, for mixtures in several markets overseas), ALTAIR(domestic, export), QUINTEC(export), LEIMAY(domestic, export), GRACIA(export)
- Sales down : Fluralaner (BRAVECTO inventory adjustment), GRACIA(domestic: less pest at low temperature) PERMIT(export: recoil of increased in FY2019), ROUNDUP(ML down, AL up)

Fixed cost up ¥0.3 billion

Inventory adjustment cost down ¥0.2 billion

Sales down ¥0.1 billion, OP down ¥0.5 billion

<vs. 1Q FY2020 Outlook as of May 2020>

Sales above target :

TARGA(export: shipment shifted from 2H, for mixtures in several markets overseas), Fluralaner(shifted from 2Q), LEIMAY(export)

Sales below target :

GRACIA(domestic: less pest at low temperature, export), ROUNDUP(ML below target, AL above target) ALTAIR(domestic), QUINTEC(export), PERMIT(domestic)

- Fixed cost below expectations (¥0.5 billion)
- Inventory adjustment cost below expectations (¥0.3 billion)
- Sales down ¥0.6 billion, OP up ¥0.4 billion

2Q FY2020 Review <vs. 2Q FY2019>

- Sales up : QUINTEC(export), ROUNDUP(ML flat, AL up) LEIMAY(domestic, export), PERMIT(export), ALTAIR(domestic, export)
- Sales down : Fluralaner (BRAVECTO inventory adjustment), TARGA(export), GRACIA(export)
- Fixed cost up ¥0.3 billion
- Sales down ¥2.1 billion, OP down ¥1.1 billion

<vs. 2Q FY2020 Outlook as of May 2020>

♦ Sales above target :

Fluralaner(royalties above target),

- ROUNDUP(ML and AL above target),
- QUINTEC(export), ALTAIR(domestic, export)
- Sales below target :

TARGA(export),

GRACIA(domestic: less pest at low temperature),

- LEIMAY(export), PERMIT(export)
- Fixed cost below expectations (¥0.5 billion)
- Inventory adjustment cost above expectations (¥0.3 billion)
- Sales up ¥0.3 billion, OP up ¥0.7 billion

Agrochemicals – (F-2) Profit Overview

1H FY2020 Review

<vs. 1H FY2019>

- Sales up : ALTAIR(domestic, export), QUINTEC(export), LEIMAY(domestic, export), GRACIA(export)
- Sales down : Fluralaner(BRAVECTO inventory adjustment), GRACIA(domestic: less pest at low temperature), TARGA(export), PERMIT(export), ROUNDUP(ML down, AL up)
- Fixed cost up ¥0.6 billion
- Inventory adjustment cost down ¥0.1 billion
- Sales down ¥2.2 billion, OP down ¥1.6 billion

<vs. 1H FY2020 Outlook as of May 2020>

Sales above target :

Fluralaner(royalties above target),

- TARGA(export: for mixtures in several markets overseas),
- LEIMAY(domestic), QUINTEC(export)

Sales below target :

GRACIA(domestic: less pest at low temperature, export: shifted to 2H),

- OUNDUD/ML below torget AL
- ROUNDUP(ML below target, AL above target) ALTAIR(domestic), PERMIT(domestic)
- ALIAIR(domestic), PERMIT(domest

Fixed cost below expectations (¥1.0 billion)
 Sales down ¥0.3 billion, OP up ¥1.1 billion

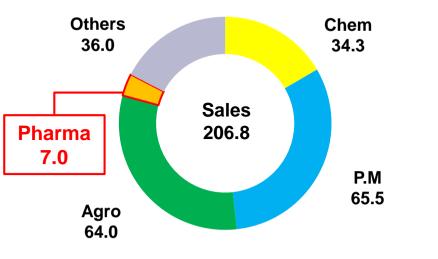
2H FY2020 Outlook

<vs. 2H FY2019>

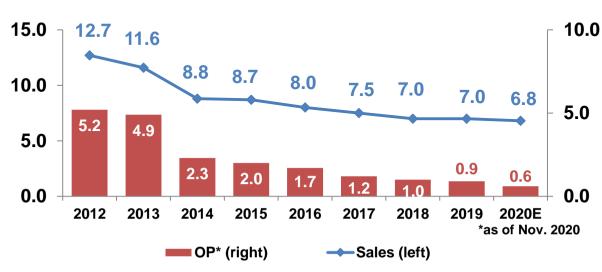
- Sales up : ALTAIR(domestic, export), GRACIA(export) TARGA(export), Fluralaner (rovalties up), LEIMAY(domestic, export), ROUNDUP(ML and AL up) QUINTEC(export). PERMIT(export) Fixed cost down ¥0.2 billion Inventory adjustment cost up ¥0.5 billion Sales up ¥2.8 billion, OP up ¥1.0 billion <vs. 2H FY2020 Outlook as of May 2020> Sales above target : ALTAIR(domestic), TARGA(export), ROUNDUP(ML and AL above target). LEIMAY(domestic, export), PERMIT(export) Sales below target : Fluralaner(shipment shift to FY2021, royalties above target), GRACIA(domestic), QUINTEC(export), Inventory adjustment cost above expectations (¥0.2 billion)
 - Sales down ¥0.6 billion, OP down ¥0.8 billion

Pharmaceuticals – (A) Recent Financial Performance

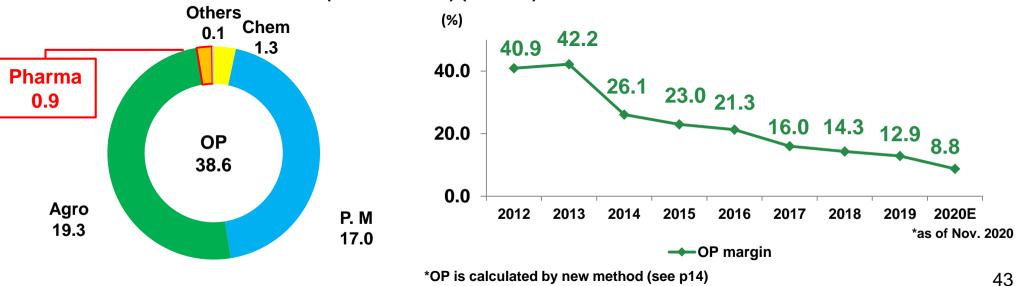




3. Recent Financial Performance (¥billion)

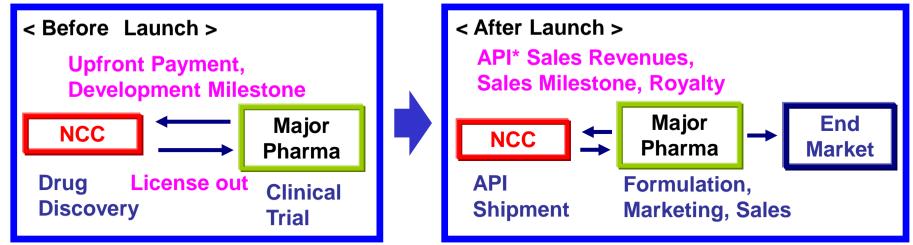


2. FY2019 OP Distribution (New method*) (¥billion)



Pharmaceuticals – (B) Business Model (New Drug) and LIVALO

• Unique ethical pharma business model without sales force



API*: Active Pharmaceutical Ingredient

LIVALO API (Anti-Cholesterol Drug)

	FY2013 Actual	FY2014 Actual	FY2015 Actual	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Outlook as of May 2020	FY2020 Outlook as of Nov. 2020
Domestic End Market Sales (NHI drug price basis, ¥billion)	52.6	34.5	29.7	23.9	21.0	16.7	14.3	-	-
Our Domestic and Export API Sales (¥billion)	10.2	6.9	5.8	5.2	4.8	4.3	4.0	2.7	2.9
Our Domestic and Export API Sales YOY Change	-2%	-32%	-15%	-11%	-7%	-11%	-7%	-31%	-27%
(Domestic API Sales YOY Change)	(-2%)	(-46%)	(-27%)	(-42%)	(-73%)	(-53%)	(+105%)	(+25%)	(-1%)
(Export API Sales YOY Change)	(-1%)	(+21%)	(+5%)	(+26%)	(+29%)	(-6%)	(-14%)	(-39%)	(-31%)

- August 2013, domestic compound patent expired

- August 2020, market exclusivity expired in EU

- Currently, available in 26 countries

Pharmaceuticals – (C) Pipeline

Product	Mechanism of action	Expected indications	Development partners
NTC-801	 Acetylcholine-activated K⁺ channel current (IKACh) inhibition 	 Arrhythmia (Atrial fibrillation) 	 Terminated the license agreement with Teijin and BMS in September 2015 Under consideration regarding seeking new partners Adopted as AMED* program in September 2018 Starting an investigator initiated clinical trial conducted by Osaka University

*Japan Agency for Medical Research and Development

<Policy for drug discovery research>

To create innovative medicines by using the strategic chemical library, the precise organic synthesis technology, proprietary oligonucleotides therapeutics discovery platform

In-house research

- Focusing on cardiovascular disease and neurological disease as core therapeutic areas
- Using state-of-the art-ion channel evaluation platform as key technology

Collaborative research

- Conducting small molecule and oligonucleotides drug discovery programs with several pharmaceutical companies and bio-venture companies

Pharmaceuticals – (D) Custom Chemicals

Custom manufacturing and process researching services for new drug pharmaceutical ingredients and intermediates from pre-clinical to commercial production stages

 In addition, focusing on obtaining new contracts mainly for high activity and high-valued added GE API products 2016- Maxacalcitol (Secondary hyperparathyroidism and Psoriasis) 2017- Eldecalcitol (Osteoporosis)

	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020E as of May 2020	FY2020E as of Nov. 2020
Sales	1.2	1.8	2.3	2.4	2.5	2.6	2.9	3.6	3.8

Custom Chemicals Sales Growth		Custom	Chemicals	Sales	Growth
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	Sales YOY Change											
FY2	019 Ac	tual)20 Out of May 2		FY2020 Outlook as of Nov . 2020						
1H	2H	Total	1H	2H	Total	1H Actual	Total					
0%	+23%	+11%	0%	+42%	+23%	+12%	+46%	+30%				

(¥billion)

Pharmaceuticals – (E) New Strategies (Announced in May 2020)

1. Drug Discovery (D.D)

(1) New drug discovery strategy

A. In-house research (Previously) License out only at clinical testing stage

(New) Focus on themes initiated by NCC and selected by potential licensees and license out before clinical testing stage

B. Collaborative research

Provide our unique drug discovery technologies

- (such as oligonucleotides drug discovery platform) to partners and aim to receive fees
- Advantages of our oligonucleotides drug discovery technologies

---- unique modified nucleic acids

(2) Ceilings on R&D resources

A. Reduce 10 drug discovery staffs in two years

B. Fix R&D expenses at ¥2.5 billion

(3) Focus on 10 out of 18 existing new drug discovery projects

2. Custom Chemicals (C.C)

(1) Expand high margin C.C business to support D.D business currently relying solely on LIVALO

(2) Following Maxacalcitol and Eldecalcitol, develop another high value added GE API products and launch peptides CMO business

3. FY2019-FY2023 Pro-forma PL Image (Announced in May 2020)

		FY2019	FY2020	FY2021	FY2023
		Actual	Outlook*	Pro-forma	Pro-forma
	D.D(1)	4.06	2.79	2.4	2.2
Sales	C.C	2.90	3.56	5.1	6.0
	Total Segment	6.96	6.35	7.5	8.2
	D.D(1)	-0.12	-0.95	-1.2	-1.3
OP	C.C	1.05	1.38	2.3	2.8
	Total Segment	0.93	0.43	1.1	1.5
			*as of Ma	v 2020	

(¥billion, OP: new method)

(1) Excluding possible upfront and milestone revenues in FY2021, 2023 (p55 including ¥0.5 billion in FY2023)

Pharmaceuticals – (F) Equity participation in PeptiStar Inc. (PS)

Our Investment Amount:	¥0.9 billion, (8.2% of the number of shares outstanding after the third-party allotment)							
Outline of PS:	The world's first Contract Manufacturing Organization (CMO) for the research and commercial manufacture of constrained peptide therapeutics. Established by PeptiDream, Shionogi and Sekisui Chemical in September 2017							
Funding of PS : (approximate amount)	¥11.0 billion ¥9.0 billion Total ¥20.0 bill	Equity provided by about 20 companies by way of third-party allotment Grant program of Cyclic Innovation for Clinical Empowerment (CiCLE) by the Japan Agency for Medical Research and Development (AMED) lion						
Business Status of PS :	Completion of	R&D center in April 2019, manufacturing fab in July 2019						
Our Role and Objective:	Develop solution-phase synthesis suitable for mass production of constrained peptides							
Impact on our Business:	constrained	ovel synthetic method (solution-phase synthesis) of peptides, reduce manufacturing cost substantially our CMO business.						

Pharmaceuticals – (G-1) Profit Overview

									-	_												(+0	
		FY2019 Actual (A)						FY2020 Outlook as of May 2020				FY2020 Outlook (B) as of Nov. 2020							Change (B)-(A)				
		1Q	2Q	1H	3Q	4Q	2H	Total	1Q	2Q	1H	2H	Total	1Q Actual	2Q Actual	1H Actual	3Q	4Q	2H	Total	1H Actual	2H	Total
S	ales	1.87	1.56	3.43	1.53	2.00	3.53	6.96	1.19	1.63	2.82	3.53	6.35	1.50	1.53	3.03	1.55	2.21	3.76	6.79	-0.40	+0.23	-0.17
	D.D	1.36	0.74	2.10	0.93	1.03	1.96	4.06	0.66	0.83	1.49	1.30	2.79	0.74	0.79	1.53	0.56	0.91	1.47	3.00	-0.57	-0.49	-1.06
L	C.C	0.51	0.82	1.33	0.60	0.97	1.57	2.90	0.53	0.80	1.33	2.23	3.56	0.76	0.74	1.50	0.99	1.30	2.29	3.79	+0.17	+0.72	+0.89
C	P	0.39	0.14	0.53	0.02	0.38	0.40	0.93	-0.14	0.19	0.05	0.38	0.43	-0.07	0.10	0.03	0.06	0.47	0.53	0.56	-0.50	+0.13	-0.37
	D.D	0.23	-0.18	0.05	-0.17	0.00	-0.17	-0.12	-0.26	-0.07	-0.33	-0.62	-0.95	-0.22	-0.14	-0.36	-0.35	-0.14	-0.49	-0.85	-0.41	-0.32	-0.73
	C.C	0.16	0.32	0.48	0.19	0.38	0.57	1.05	0.12	0.26	0.38	1.00	1.38	0.15	0.24	0.39	0.41	0.61	1.02	1.41	-0.09	+0.45	+0.36

2Q FY2020 Review

<vs. 2Q FY2019>

1Q FY2020 Review <vs. 1Q FY2019>

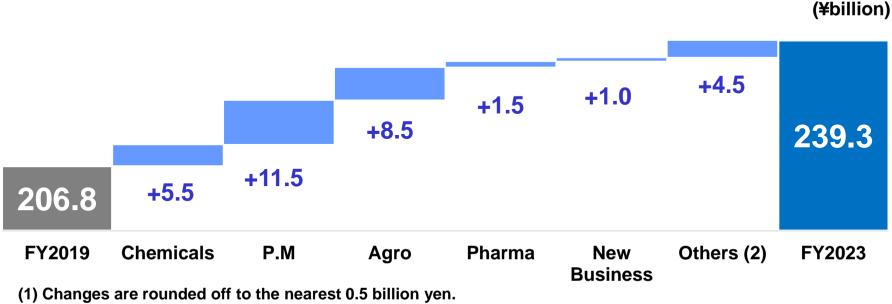
(D.D) (C.C)	 LIVALO sales down (domestic sales down, export down) Sales down ¥0.62 billion, OP down ¥0.45 billion Sales up (shifted from 2Q) 	(D.D)	 ◆ LIVALO sales up (domestic sales up, export down) ◆ Fixed cost down ¥0.1 billion ◆ Sales up ¥0.05 billion, OP up ¥0.04 billion
	Sales up ¥0.25 billion, OP down ¥0.01 billion	(C.C)	Sales down (shifted to 1Q)
(Total)	Sales down ¥0.37 billion, OP down ¥0.46 billion	1	Inventory adjustment cost up ¥0.1 billion
			Sales down ¥0.08 billion, OP down ¥0.08 billion
		(Total)	Sales down ¥0.03 billion, OP down ¥0.04 billion
	<vs. 1q="" 2020="" as="" fy2020="" may="" of="" outlook=""></vs.>		<vs. 2020="" 2q="" as="" fy2020="" may="" of="" outlook=""></vs.>
(D.D)	 LIVALO sales above target (domestic sales above target, export above target) 	(D.D)	 LIVALO sales below target (domestic sales below target, export below target)
	Sales up ¥0.08 billion, OP up ¥0.04 billion	1	Sales down ¥0.04 billion, OP down ¥0.07 billion
(C.C)	Sales above target (shifted from 2Q)	(C.C)	Sales below target (shifted to 1Q)
	Sales up ¥0.23 billion, OP up ¥0.03 billion		Sales down ¥0.06 billion, OP down ¥0.02 billion
(Total)	Sales up ¥0.31 billion, OP up ¥0.07 billion	(Total)	Sales down ¥0.10 billion, OP down ¥0.09 billion

(¥billion)

Pharmaceuticals – (G-2) Profit Overview

1H FY2020 Review 2H FY2020 Outlook <vs. 1H FY2019> <vs. 2H FY2019> (D.D) I IVALO sales down (D.D) LIVALO sales down (domestic sales up. export down) (domestic sales down, export down) Inventory adjustment cost up ¥0.1 billion Fixed cost down ¥0.2 billion Sales down ¥0.49 billion. OP down ¥0.32 billion Sales down ¥0.57 billion. OP down ¥0.41 billion (C.C) Sales up (solid sales of GE) (C.C) Sales up (solid sales of GE) Sales up ¥0.72 billion. OP up ¥0.45 billion Inventory valuation loss ¥0.1 billion (Total) Sales up ¥0.23 billion, OP up ¥0.13 billion (Raw material price decline) Inventory adjustment cost up ¥0.1 billion Sales up ¥0.17 billion. OP down ¥0.09 billion Sales down ¥0.40 billion. OP down ¥0.50 billion (Total) <vs. 1H FY2020 Outlook as of May 2020> <vs. 2H FY2020 Outlook as of May 2020> (D.D) LIVALO sales above target (D.D) LIVALO sales in line with target (domestic sales below target, export above target) (domestic sales below target, export above target) Sales up ¥0.17 billion, OP up ¥0.13 billion Sales up ¥0.04 billion, OP down ¥0.03 billion (C.C) ◆ Sales above target (C.C) Sales above target Sales up ¥0.06 billion, OP up ¥0.02 billion Inventory valuation loss ¥0.1 billion (Total) Sales up ¥0.23 billion. OP up ¥0.15 billion (Raw material price decline) Sales up ¥0.17 billion, OP up ¥0.01 billion (Total) Sales up ¥0.21 billion, OP down ¥0.02 billion

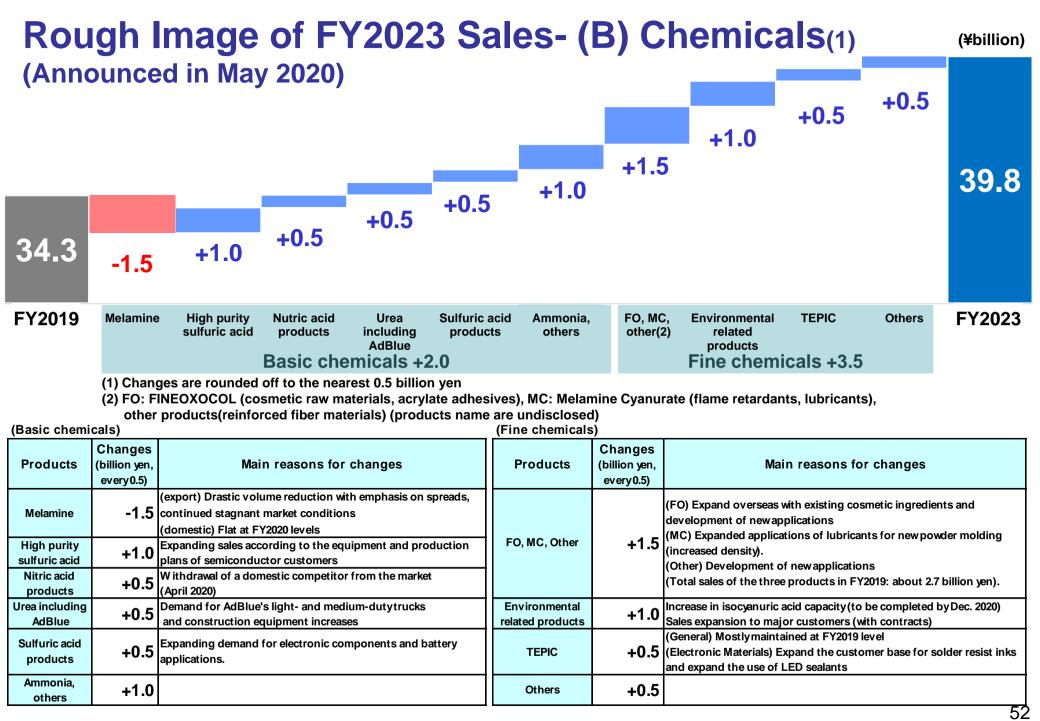
Rough Image of FY2023 Sales- (A) Overall(1) (Announced in May 2020)



(2) Trading, Others, Adjustment

- Fluralaner sales expected to decrease until FY2022 due to continuing inventory adjustment and recover in FY2023
- Based on this assumption, we have created a medium-term sales growth image for each segment

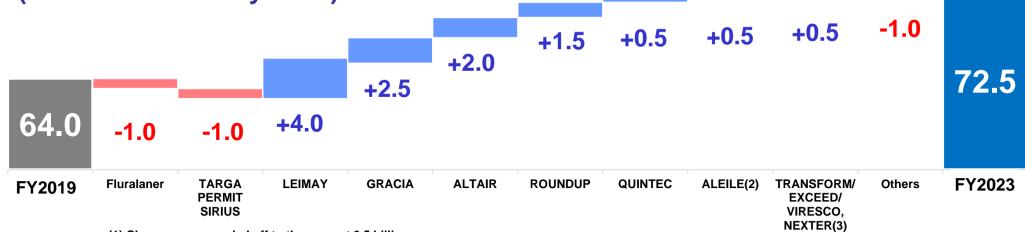
Total company-wide sales expected to increase from 206.8 billion yen in FY2019 to 239.3 billion yen (+16%) in FY2023



Rough Image of FY2023 Sales- (C) Performance Materials(1) (Announced in May 2020)

					· 0 E	+2.0	+0.5	+0.	5 +0.5	+1.0	+1.0	+1.0		
65.5	-0.5	+1.5	+1.0	+0.5	+2.3			_	-				77.0	
FY2019	SUNEVER	OLED materials	Flexible hard coating materials	Light control film materials	Multi layer process materials	ARC®	EUV materials	CMOS image senso materia	e process or materials		Organo/ Monomer Sol	Oilfield materials	FY2023	
		Displa	ıy +2.5			Sem	iconductor	's +6.0)	Inc	organic +3	3.0		
	(1) Change	s are rou	nded off to	o the neare	st 0.5 billio	on yen.								
(Display)						-		(Se	miconductors)					
products	Changes (billion yen, every 0.5)		Main reasons for changes						products	Changes (billion yen, every 0.5)	Main re	easons for	changes	
		(TN) -0.5 (VA) +1.0 market share expansion (rubbing IPS) -1.0 market share expansion, shift to photo IPS							Multi layer rocess materials	+2.5	Demand increa	ases with the c	levelopment of	
SUNEVER	-0.5								ARC®	+2.0	5G and IoT			
		(Photo IPS)		•		-	-smartphone use	•	EUV materials	+0.5	Demand increases with the development			
OLED materials	+1.5	(Vapor deposition)	+0.5 Alig	Inment material	s for LC retard	der, De-bondin	g layer				(Entered EUV Si-HM market in FY2019 finally)			
Flexible HC	+1.0	(Printing)		ellent bank laye		on layer		s	CMOS image ensor materials	+0.5	Entered the materials.	arket for high	value-added	
Light control film			•	tion materials, i	•	bullet train ap	olications		3D packaging rocess materials	+0.5	Acquisition of		rs, development	
(Inorganic)														
SNOW TEX	+1.0			n materials for a con wafers and										
Organo/ Monomer Sol	+1.0		hard coating n ting materials	naterials for fold	lable smartpho	one film								
Oilfield material	+1.0	Expanded to	o repair existin	g wells with low	oil price impa	ct								

Rough Image of FY2023 Sales- (D) Agrochemicals(1) (Announced in May 2020)



(1) Changes are rounded off to the nearest 0.5 billion yen.

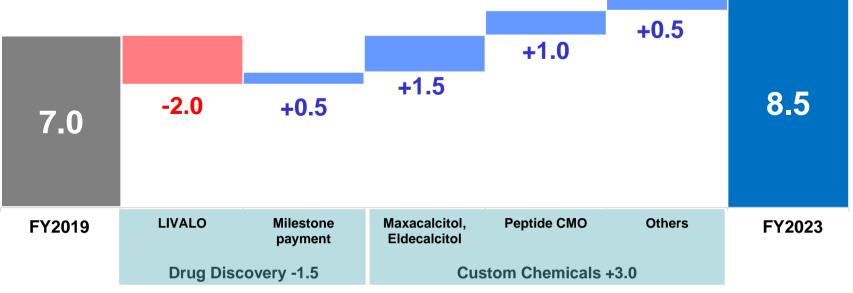
(2) ALEILE: Foliar application herbicide for paddy rice including ALTAIR

(3) TRANSFORM[™]/ EXCEED[™]/ VIRESCO[™]: Insecticide for fruits, vegetables, and paddy rice (licensed in from DOW) NEXTER: Fungicide for fruits and vegetables (licensed in from Syngenta)

Products	Changes (billion yen, every 0.5)	Main reasons for changes
Fluralaner	-1.0	Decrease until FY2022 due to continuing inventory adjustment and recover in FY2023 (see p39)
TARGA, PERMIT, SIRIUS	-1.0	(TARGA) Shrink rapeseed cropping market in Europe, (PERMIT) Decrease in Europe, (SIRIUS) Decline in the alternative progression to ALTAIR.
LEIMAY	+4.0	Develop two mixtures for European market with two major agrochemical manufacturers
GRACIA	+2.5	(Domestic) Launch the newformulation in Japan (Export) Increase in sales countries (India, Indonesia, Vietnam, Argentina)
ALTAIR	+2.0	Switch to the new generation products and expand sales in China and Southeast Asia.
ROUNDUP	+1.5	Focus on large-sized standardized products in ROUNDUP ML, and strengthen AL via drugstores and supermarkets as well as home centers
QUINTEC	+0.5	Increase in sales volume
ALEILE	+0.5	Newfoliar application herbicide for paddyrice including ALTAIR Capable of in-water and highlyresistant to rain
TRANSFORM/ EXCEED/ VIRESCO, NEXTER	+0.5	Focused lisenced-in products
Others	-1.0	

(¥billion)

Rough Image of FY2023 Sales- (E) Pharmaceuticals(1) (Announced in May 2020) (¥billion)



(1) Changes are rounded off to the nearest 0.5 billion yen.

(Drug Discovery)

Products	Changes (billion yen, every 0.5)	Main reasons for changes
LIVALO	-2.0	(Domestic) Volume down due to increase in generics (Export) Generic entryin Europe and the U.S. and volume down in Korea
Milestone payment	+0.5	Pipeline drug is expected to be licensed in the focused area

(Custom Chemicals)

Maxacalcitol, Eldecalcitol	+1.5	(Maxacalcitol)Started accepting orders from new customer (Eldecalcitol) Expected to increase in volume at 1H 2020 launch
Peptide CMO		Expect to be commissioned by PeptiStar and other companies
Others	+0.5	Existing contracted products

Rough Image of FY2023 Sales- (F) New Business (Announced in May 2020)

Field	Products	Changes (every 0.5 billion yen)
Life Sciences	Cell culture medium Biointerface control materials (inhibition of cell and protein adhesion) Cosmetic materials (promotion of skin penetration of active ingredients, moisturizing effect, etc.)	
Environment & Energy	Secondary battery materials (undercoat materials to promote low resistance) Hole transport layer materials for organic solar cells (energy conversion of sunlight)	Total ¥1.0 billion
Information & Communication	Optical interconnect materials	

Capex/Depreciation/R&D by Segment

(¥billion)

		Capex (1)						De	prec	iatior) (2)		R&D expenses					
	2016	2017	2018	2019		2020E Nov. 2020	2016	2017	2018	2019		2020E Nov . 2020	2016	2017	2018	2019		2020E Nov. 2020
Chem	2.0	2.6	2.0	3.1	6.8	5.0	1.6	1.7	1.8	1.8	2.2	2.3	0.5	0.6	0.6	0.4	0.4	0.3
P.M	8.4	7.2	3.3	3.3	4.9	3.9	4.8	5.9	6.0	5.1	5.0	4.6	7.9	8.1	8.2	7.7	8.4	7.3
Agro	2.4	2.6	3.3	7.9	0.7	0.8	1.3	1.4	1.7	2.2	2.3	2.5	3.8	4.3	4.5	4.6	5.0	4.3
Pharma	0.9	0.7	0.5	0.6	0.4	0.4	0.7	0.7	0.6	0.6	0.6	0.5	2.2	2.5	2.5	2.5	2.3	2.3
Trading	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Others	0.6	0.6	0.7	0.7	0.8	0.8	0.4	0.7	0.7	0.7	0.5	0.4	1.7	1.7	2.0	2.0	2.1	2.6
Total	14.3	13.7	9.9	15.7	13.8	11.1	8.9	10.5	10.9	10.5	10.7	10.4	16.1	17.2	17.8	17.2	18.2	16.8
-										-		0	0.00/			0.00/		0.00/

R&D expenses/Sales 8.9% 8.9% 8.7% 8.3% 8.5% 8.0%

(1) Capex

Actual - Acceptance basis

Outlook - Production commencement basis

(2) Depreciation Method

SUNEVER, ARC®, Multi layer process materials

- 4 year declining balance method

(50.0% of initial capex amount in the 1st year)

Other products - 8 year declining balance method

(25.0% of initial capex amount in the 1st year)

R&D Personnel (Sept. 2019) –A	450
Total Professionals (Sept. 2019) –B	1,165
A/B	39%

%Parent company only

%Round number

Main Capex Items (Approval Basis)

(¥billion)

FY2017 Actual		FY2018 Actual		FY2019 Actual	FY2020 Outlook			
Agro (Production facilities)	1.4	Chemical Research Lab. (Instruments)	0.7	Isocyanuric acid (1) (Production capacity expansion)	1.9	Semis (Material Research Lab. new annex)	2.0	
NSU R&D Center	1.0	Material Research Lab. (Instruments)	0.7	Chemical Research Lab. (Instruments)	0.7	IT Systems	1.4	
Material Research Lab. (Instruments)		Agro (Product development facilities)	0.6	Material Research Lab. (Instruments)	0.6	Agro (Production facilities)	0.8	
Chemical Research Lab. (Instruments)	0.6	NSU R&D Center	0.5	Display (Production facilities)	0.5	Chemical Research Lab. (Instruments)	0.8	
Display (Test facilities)	0.3	TEPIC (Production capacity expansion)	0.5	Biological Research Lab. (Instruments)	0.3	Material Research Lab. (Instruments)	0.7	
Biological Research Lab. (Instruments)	0.3	Biological Research Lab. (Instruments)	0.4	TEPIC (Production facilities)	0.2	High Purity Sulfic Acid (Production capacity expansion)	0.5	
Display (Production facilities)	0.3	Semis (Production test facilities)	0.2			Biological Research Lab. (Instruments)	0.2	
		SNOWTEX (Production capacity expansion)	0.2		(1) Fine Chemicals materials (see	p24)	

Mid-Term Plan Vista2021 Stage II (FY2019-2021) announced in May 2019 - (A)

	-		
1. PL	Actual	New Mid-Term Plan announced in May 2019	Mid-Term Plan announced in May 2016
	FY2018	FY2021	FY2021
Sales	204.9	235.0	250.0
Operating Profit	37.1	43.0	40.0
Ordinary Income	39.1	44.0	40.8
Net Income	29.4	33.0	31.0
EPS (¥/share)	197.67	230.00	-
Dividend (¥/share)	82	-	-
FX Rate (¥/\$)	111	110	115
Naphtha (¥/kl)	49,700	43,000	51,100
(Financial Targets)	Actual	New Mid-Term Plan announced in May 2019	Mid-Term Plan announced in May 2016
	FY2018	FY2020, FY2021	FY2021
OP Margin	18.1%	Above 18%	Above 15%
ROE	16.6%	Above 16%	Above 14%
Dividend Payout Ratio	41.5%	45%	40%
Total Payout Ratio	72.0%	75%	70%

(¥billion)	
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r						
2. Segment (1)		Sales			Operating Profit	
	Actual	New Mid-Term Plan announced in May 2019	Mid-Term Plan announced in May 2016	Actual	New Mid-Term Plan announced in May 2019	Mid-Term Plan announced in May 2016
	FY2018	FY2021	FY2021	FY2018	FY2021	FY2021
Chemicals	35.7	43.1	40.5	3.0	5.1	4.5
Performance Materials	63.0	75.1	82.9	15.0	17.3	18.4
Agrochemicals	62.7	70.1	67.0	18.4	21.1	16.7
Pharmaceuticals	7.0	7.5	8.3	1.0	0.7	2.4
Trading, Others, Adjustment	36.5	39.2	51.3	-0.3	-1.2	-2.0
Total	204.9	235.0	250.0	37.1	43.0	40.0

(1) Including inter-segment sales/transfers

Mid-Term Plan Vista2021 Stage II (FY2019-2021) announced in May 2019 - (B)

1. Cash Flows

	Actual	New Mid-Term Plan	(¥billion)
	Total FY2016-2018	Total FY2019-2021 (round number)	
CF from operating activities	102.1	115.0	
CF from investing activities	-39.2	-45.0	
CF from financing activities	-62.0	-75.0	
(Total payout to shareholders (dividend & share repurchase))	-55.6	-70.0	
(Repayment of borrowings)	-6.4	-5.0	
	FY2018	FY2021	
Cash at end of fiscal year	36.2	30.0	

2. Capex, Depreciation, R&D expenses, Researchers

Z. Capex, Depiecia		D expens	5, NESC	al chei S		(¥billion)		(person)
	Ca	pex	Depre	ciation	R&D ex	penses	Resea	rchers
	Actual	New Mid-Term Plan	Actual	New Mid-Term Plan	Actual	New Mid-Term Plan	Actual	New Mid-Term Plan
	Total FY2016-2018	Total FY2019-2021	Total FY2016-2018	Total FY2019-2021	Total FY2016-2018	Total FY2019-2021	FY2018	FY2021
Chemicals	6.6	14.7	5.2	9.4	1.6	1.4	10	10
Performance Materials	18.9	17.8	16.7	17.0	24.3	26.7	200	210
Agrochemicals	8.3	8.2	4.4	5.5	12.6	14.8	95	95
Pharmaceuticals	2.1	1.7	2.1	1.8	7.2	7.1	85	90
Trading, Others, Adjustment	2.0	2.3	1.9	3.1	5.4	8.0	80	75
Total	37.9	44.7	30.3	36.8	51.1	58.0	470	480

ESG

April 2019

Established Nomination and Remuneration Advisory Committee as an optional advisory body of the Board of Directors

June 2019

- Introduced a performance-linked stock compensation plan called a Board Benefit Trust for members of the Board of Directors, etc.
- •One Outside Director added As a result, the Board of Directors consisting of 9 Directors include 3 Outside Directors

August 2019

NCC was selected as one of the 50 candidates among all listed companies of the Corporate Value Improvement Award hosted by the Tokyo Stock Exchange for the second consecutive year.

September 2019

NCC was selected as an inclusion in the Dow Jones Sustainability Asia Pacific Index for the second consecutive year

December 2019

Published "Integrated Reports 2019" https://www.nissanchem.co.jp/eng/ir_info/archive/ar/ar2019.pdf

February 2020

NCC was listed for the first time on Water Security "A List" as a company with excellent sustainable water resource management by CDP

◆June 2020

NCC was selected as an inclusion in the S&P/JPX Carbon Efficient Index for the second consecutive year NCC was selected as a constituent of FTSE4Good Index Series and FTSE Blossom Japan Index

August 2020

NCC announced its support for recommendations of Task Force on Climate-related Financial Disclosures (TCFD)

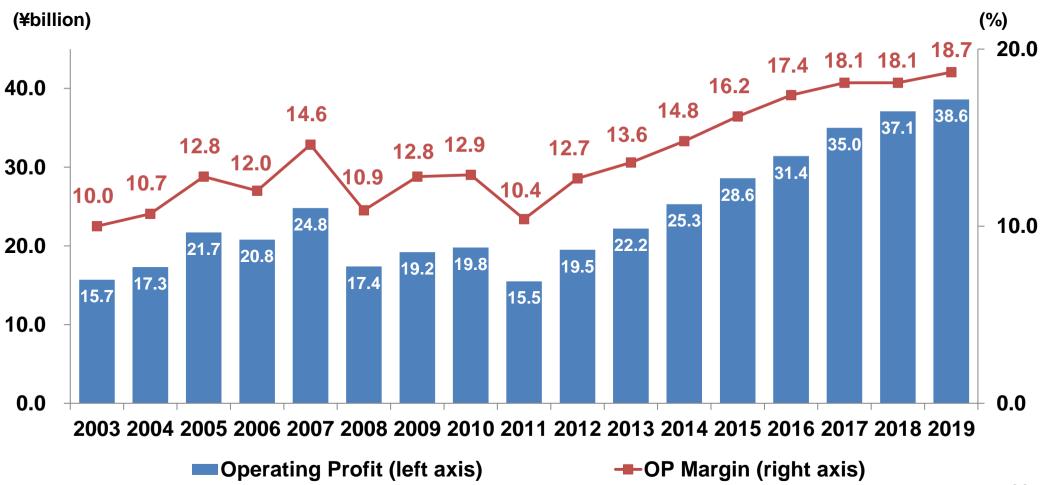
October 2020

NCC won the 2020 Awards for Excellence in Corporate Disclosure in the chemicals and fiber sector, selected by Securities Analysts Association of Japan (SAAJ)

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Our Characteristics - (A) Recording Stable OP Margin

NCC has recorded more than 10% OP margin in 17 consecutive years (FY2003-2019)



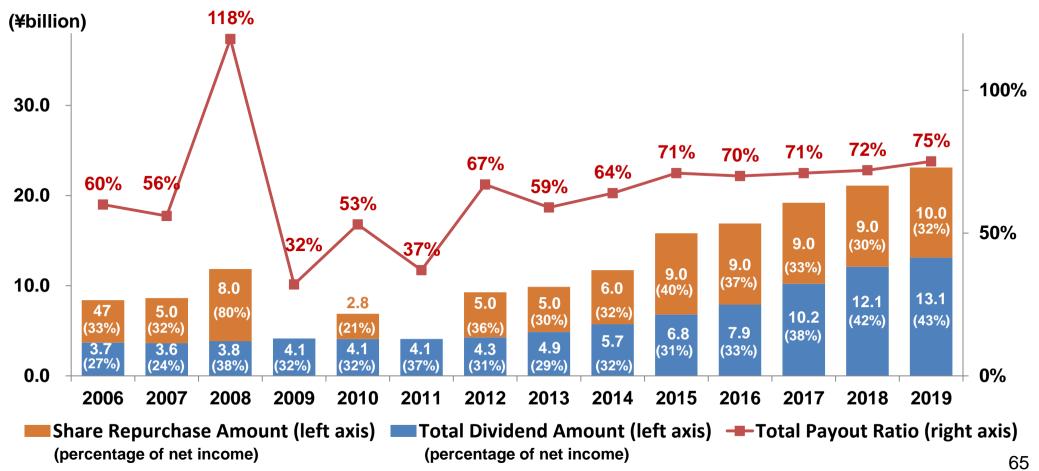
Our Characteristics - (B) High ROE The most important financial indicator for a long time Mid-Term Plan FY2016-2018 Target : Maintain above 14% \Rightarrow Achieved in FY2016, 2017 and 2018 New Mid-Term Plan FY2019-2021 Target : Maintain above 16% \Rightarrow Achieved in FY2019 (16.9%) (¥billion) (%) 40.0 20.0 16.6 16.9 16.6 16.1 14.6 ^{15.1} 15.6 14.7 30.0 31.4 ^{12.6} 11.9 30.8 12.7 12.7 29.4 11.4 27.1 10.3 24.0 9.5 22.4 20.0 10.0 18.2 16.7 15.5 14.0 13.9 13.0 12.8 10.0 11.0 10.1 0.0 0.0 2007 2009 2014 2015 2006 2008 2010 2011 2012 2013 2016 2017 2018 2019 2020E* *as of Nov. 2020 Net Income (left axis) ROE (right axis) 64

Our Characteristics - (C) Shareholders Return Policy - Total Payout Ratio

Maintaining an aggressive shareholders return policy

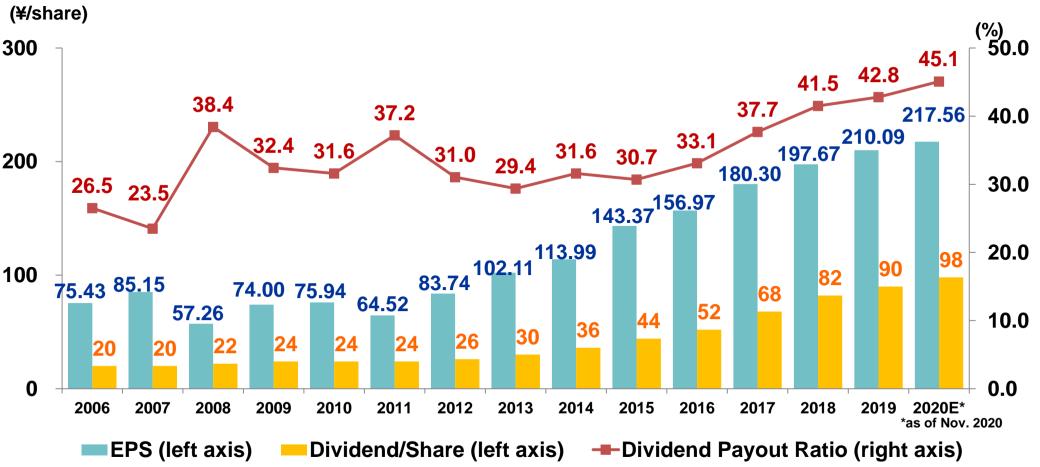
♦ Mid-Term Plan FY2016-2018 Target : Maintain 70% total payout ratio
⇒ Achieved in FY2016, 2017 and 2018

♦ New Mid-Term Plan FY2019-2021 Target : 72.5% in FY2019, 75% in FY2020-2021 ⇒ Achieved in FY2019 (75.1%)



Our Characteristics - (D) Shareholders Return Policy - Dividend

- ♦ Mid-Term Plan FY2016-2018 Target : Gradually increased to 41.5% in FY2018
 ⇒ Achieved in FY2018 (41.5%)
- ♦ New Mid-Term Plan FY2019-2021 Target : 42.5% in FY2019, 45% in FY2020-2021
 ⇒ Achieved in FY2019 (42.8%)



Our Characteristics - (E) Shareholders Return Policy - Share Repurchase

- Started share repurchase in 2006 only to enhance ROE
- Repurchased ¥82.5 billion, 40.9 million shares (21.8% of shares issued) in total from FY2006 to FY2019

Cancelled all repurchased shares

Shareholders Return FY2006 - 2019

(1) excluding share acquisitions for performance-based compensation (166,200 shares)(2) including share acquisitions for performance-based compensation (166,200 shares)

Fiscal year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Shares purchased (1)	3,500	3,399	7,355	0	2,167	0	6,372	3,263	2,764	3,333	2,621	2,292	1,682	2,138	40,886
(thousand shares) Purchase costs (1) (¥billion)	4.7	5.0	8.0	0.0	2.8	0.0	5.0	5.0	6.0	9.0	9.0	9.0	9.0	10.0	82.5
Shares cancelled (thousand shares)	3,000	3,635	7,000	0	3,000	0	6,000	4,000	3,000	2,000	2,000	3,000	2,000	3,000	41,635
Shares issued at FY end (million shares)	185	181	174	174	171	171	165	161	158	156	154	151	149	146	
Treasury shares at FY end (2) (thousand shares)	1,367	1,233	1,660	1,709	885	886	1,258	522	287	1,621	2,242	1,535	1,218	523	

Share repurchase program

		2017			2018			2019		2020
Fiscal Year	1H	2H	Tatal	1H	2H	Tatal	1H	2H	Tatal	From May 18, 2020
										to July 28, 2020
Shares purchased (thousand shares) (1)	1,304	988	2,292	976	706	1,682	1,270	868	2,138	1,334
Purchase costs (¥billion) (1)	5.0	4.0	9.0	5.0	4.0	9.0	6.0	4.0	10.0	7.0
Shares cancelled (thousand shares)	3,000	0	3,000	2,000	0	2,000	2,000	1,000	3,000	1,000 (Aug 31, 2020)

Cash Management Policy

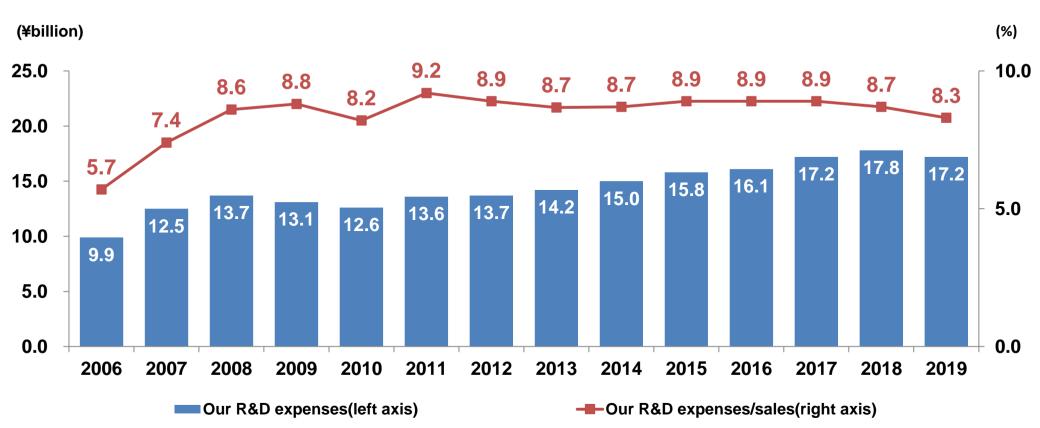
Aiming to control cash balance around the level of

- = Minimum required level
 - + 1/3 of annual scheduled long-term borrowings repayment
 - + 1/3 of short-term borrowings outstanding + Contingent risk reserves

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Our Characteristics- (F-1) R&D Oriented Chemical Company

- FY2019 R&D expenses/sales: 8.3%
- Maintaining above 8% R&D expenses/sales in recent years
- About 40% of profession staff assigned to R&D centers

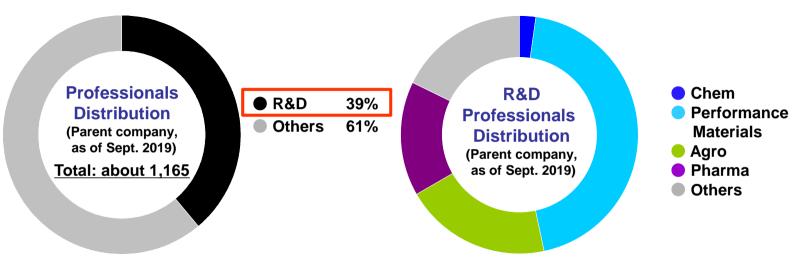


Our Characteristics- (F-2) R&D Oriented Chemical Company

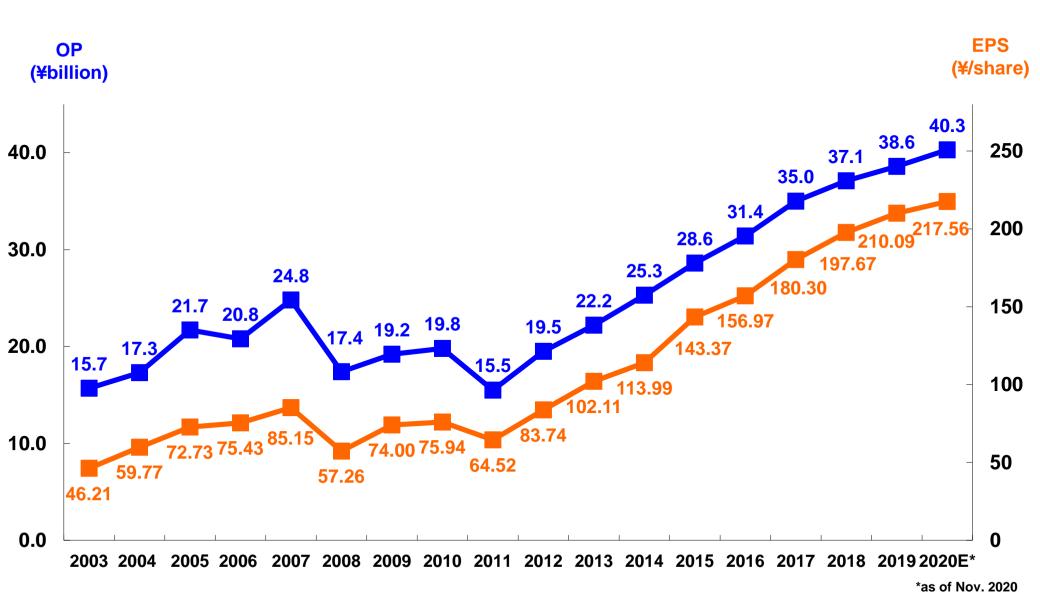
R&D by segment

		F	Y2019 Actua	l	
Segment	Sales (¥billion)	OP* (¥billion)	OP margin	R&D expenses (¥billion)	% of Sales
Chemicals	34.3	1.3	3.8%	0.4	1.2%
Performance Materials	65.5	17.0	26.0%	7.7	11.8%
Agrochemicals	64.0	19.3	30.2%	4.6	7.2%
Pharmaceuticals	7.0	0.9	12.9%	2.5	35.7%
Others	-	-	-	2.0	-
Total (including others and adjustment)	206.8	38.6	18.7%	17.2	8.3%

*New method, see p14



Long-term Financial Performance Trend



Long Term Financial Performance Trend

																	(¥billion)
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020E*
Sales	155.9	161.4	169.1	174.4	169.2	160.2	149.0	154.2	148.6	153.8	163.7	171.2	176.9	180.3	193.4	204.9	206.8	209.5
Operating Profit	15.7	17.3	21.7	20.8	24.8	17.4	19.2	19.8	15.5	19.5	22.2	25.3	28.6	31.4	35.0	37.1	38.6	40.3
Ordinary Income	14.6	17.4	21.3	21.2	24.4	16.9	19.2	19.4	15.9	20.5	23.7	26.4	29.5	31.7	36.2	39.1	40.0	41.1
Net Income	8.7	11.3	13.7	14.0	15.5	10.1	12.8	13.0	11.0	13.9	16.7	18.2	22.4	24.0	27.1	29.4	30.8	31.4
EBITDA	26.1	26.9	31.6	30.5	34.5	27.6	30.1	30.2	25.9	29.0	30.8	33.8	38.3	40.3	45.5	48.0	49.2	50.7
OP Margin	10.0%	10.7%	12.8%	12.0%	14.6%	10.9%	12.8%	12.9%	10.4%	12.7%	13.6%	14.8%	16.2%	17.4%	18.1%	18.1%	18.7%	19.2%
ROE	13.4%	15.2%	16.1%	14.7%	15.6%	10.3%	12.6%	11.9%	9.5%	11.4%	12.7%	12.7%	14.6%	15.1%	16.1%	16.6%	16.9%	16.6%
EPS(¥/share)	46.21	59.77	72.73	75.43	85.15	57.26	74.00	75.94	64.52	83.74	102.11	113.99	143.37	156.97	180.30	197.67	210.09	217.56
Dividend(¥/share)	11	11	15	20	20	22	24	24	24	26	30	36	44	52	68	82	90	98
Dividend Payout Ratio	23.8%	18.4%	20.6%	26.5%	23.5%	38.4%	32.4%	31.6%	37.2%	31.0%	29.4%	31.6%	30.7%	33.1%	37.7%	41.5%	42.8%	45.1%
Share Repurchase	-	-	-	4.7	5.0	8.0	-	2.8	-	5.0	5.0	6.0	9.0	9.0	9.0	9.0	10.0	7.0
Total Assets	172.6	169.4	183.2	177.3	172.7	172.3	181.4	183.4	190.1	199.2	208.0	223.9	228.2	231.7	246.0	247.0	249.5	-
Net Assets	70.4	80.0	93.6	99.3	101.2	96.8	107.7	112.4	119.6	126.7	137.8	151.3	156.9	163.7	176.4	182.1	185.5	-
Cash	5.9	4.3	8.5	11.0	7.6	9.7	14.8	21.1	27.9	31.9	30.8	31.3	35.3	35.7	37.7	36.2	30.6	-
Liabilities with Interest	57.4	44.6	41.5	32.4	34.4	45.5	42.1	39.9	38.9	38.1	36.1	35.1	33.1	30.8	28.6	26.6	24.6	-
Equity Ratio	40.1%	46.4%	50.2%	55.3%	58.0%	55.5%	58.7%	60.7%	62.4%	63.0%	65.7%	66.9%	68.1%	69.9%	71.0%	73.0%	73.7%	-
Capex	6.6	6.6	9.2	12.1	10.9	13.9	10.1	9.6	8.3	8.1	8.8	9.8	10.2	14.3	13.7	9.9	15.7	11.1
Depreciation	10.4	9.6	9.9	9.7	9.7	10.2	11.0	10.4	10.5	9.5	8.5	8.5	9.7	8.9	10.5	10.9	10.5	10.4
R&D Expenses	8.7	8.6	9.2	9.9	12.5	13.7	13.1	12.6	13.6	13.7	14.2	15.0	15.8	16.1	17.2	17.8	17.2	16.8
R&D Expenses/Sales	5.6%	5.3%	5.4%	5.7%	7.4%	8.6%	8.8%	8.2%	9.2%	8.9%	8.7%	8.7%	8.9%	8.9%	8.9%	8.7%	8.3%	8.0%

*as of Nov. 2020

FY2016 - 2Q FY2020 Quarterly Sales by Segment (1)(2)(3)

(¥billion)

																					-	-
		FY20	016 A	ctual			FY2	017 Ac	ctual			FY20)18 Ad	ctual			FY20)19 Ac	ctual		FY2 Act	
	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q	3Q	4Q	Total	1Q	2Q
Chem	8.5	8.0	9.1	9.2	34.8	8.8	7.9	9.2	9.0	34.9	8.7	8.3	9.6	9.1	35.7	8.4	8.4	8.7	8.8	34.3	7.4	7.3
Fine	2.8	2.5	2.7	2.7	10.7	2.8	2.5	2.8	2.5	10.6	2.7	2.4	2.6	2.7	10.4	2.6	2.6	2.6	2.7	10.5	2.7	2.7
Basic	5.7	5.5	6.4	6.5	24.1	6.0	5.4	6.4	6.5	24.3	6.0	5.9	7.0	6.4	25.3	5.8	5.8	6.1	6.1	23.8	4.7	4.6
P.M	12.6	12.9	13.8	13.5	52.8	14.1	15.0	15.1	14.6	58.8	15.6	16.4	16.6	14.4	63.0	15.1	16.3	17.0	17.1	65.5	17.1	17.5
Agro	14.5	9.5	4.2	23.8	52.0	14.6	11.5	6.4	25.6	58.1	16.4	12.3	5.9	28.1	62.7	14.7	13.2	5.5	30.6	64.0	14.6	11.1
Pharma	2.2	1.5	2.4	1.9	8.0	2.1	1.4	2.3	1.7	7.5	1.8	1.9	1.9	1.4	7.0	1.9	1.5	1.6	2.0	7.0	1.5	1.5
D.D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	0.7	0.9	1.0	4.1	0.7	0.8
C.C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	0.8	0.6	1.0	2.9	0.8	0.7
Trading	14.4	13.2	13.7	13.9	55.2	14.6	14.5	15.9	14.5	59.5	17.8	15.6	18.1	16.4	67.9	17.5	15.8	17.5	17.1	67.9	18.2	15.5
Others	4.0	4.6	5.8	9.6	24.0	5.4	4.3	4.6	7.2	21.5	4.6	5.9	7.2	6.9	24.6	4.9	4.9	5.1	7.5	22.4	4.8	4.6
Adj.	-11.1	-10.3	-11.4	-13.7	-46.5	-12.2	-11.0	-11.8	-11.9	-46.9	-14.0	-13.3	-15.4	-13.3	-56.0	-13.8	-12.3	-13.9	-14.3	-54.3	-14.3	-12.3
Total	45.1	39.4	37.6	58.2	180.3	47.4	43.6	41.7	60.7	193.4	50.9	47.1	43.9	63.0	204.9	48.7	47.8	41.5	68.8	206.8	49.3	45.2

(1) Including inter-segment sales/transfers

- (2) In the Pharmaceuticals segment, figures are rounded to the nearest 100 million yen.
 - Accordingly, some discrepancies may occur among totals.
- (3) In FY2020, FINEOXOCOL (FO, cosmetic raw materials) was transferred from Basic Chemicals to Fine Chemicals

FY2016 - 2Q FY2020 Quarterly OP by Segment (1)(2)

(¥billion)

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--|---|
| | | FY2 | 016 Ac | tual |

 | | FY2 | 017 Ac | tual |

 | | FY2 | 018 Ac | ctual

 | | | FY2 | 019 Ac
 | ctual | | |
 |
| | 1Q | 2Q | 3Q | 4Q | Total

 | 1Q | 2Q | 3Q | 4Q | Total

 | 1Q | 2Q | 3Q | 4Q

 | Total | 1Q | 2Q | 3Q
 | 4Q | Total | 1Q | 2Q
 |
| hem | 1.5 | -0.2 | 1.3 | 1.2 | 3.8

 | 1.5 | -0.2 | 1.2 | 0.9 | 3.4

 | 1.6 | -0.4 | 1.0 | 0.8

 | 3.0 | 0.9 | -0.6 | 0.5
 | 0.5 | 1.3 | 0.7 | -0.8
 |
| .М | 3.0 | 3.2 | 3.8 | 2.5 | 12.5

 | 3.6 | 4.1 | 4.0 | 2.5 | 14.2

 | 3.9 | 4.2 | 4.3 | 2.6

 | 15.0 | 4.0 | 4.4 | 4.7
 | 3.9 | 17.0 | 5.3 | 5.4
 |
| gro | 4.5 | 2.4 | -2.0 | 8.3 | 13.2

 | 4.5 | 3.6 | -0.6 | 8.9 | 16.4

 | 5.1 | 4.7 | -1.3 | 9.9

 | 18.4 | 4.5 | 4.9 | -1.8
 | 11.7 | 19.3 | 4.0 | 3.8
 |
| harma | 0.6 | 0.0 | 0.8 | 0.3 | 1.7

 | 0.5 | 0.0 | 0.6 | 0.1 | 1.2

 | 0.3 | 0.3 | 0.4 | 0.0

 | 1.0 | 0.4 | 0.1 | 0.1
 | 0.3 | 0.9 | -0.1 | 0.1
 |
| D.D | - | - | - | - | -

 | - | - | - | - | -

 | - | - | - | -

 | - | 0.2 | -0.2 | -0.2
 | 0.0 | -0.1 | -0.2 | -0.1
 |
| C.C | - | - | - | - | -

 | - | - | - | - | -

 | - | - | - | -

 | - | 0.2 | 0.3 | 0.2
 | 0.4 | 1.1 | 0.2 | 0.2
 |
| rading | 0.4 | 0.4 | 0.5 | 0.4 | 1.7

 | 0.4 | 0.5 | 0.5 | 0.4 | 1.8

 | 0.6 | 0.5 | 0.6 | 0.3

 | 2.0 | 0.5 | 0.5 | 0.6
 | 0.5 | 2.1 | 0.7 | 0.5
 |
| thers | 0.0 | 0.0 | 0.2 | 0.8 | 1.0

 | 0.1 | 0.1 | 0.1 | 0.3 | 0.6

 | 0.1 | 0.1 | 0.2 | 0.5

 | 0.9 | 0.1 | 0.0 | 0.1
 | 0.5 | 0.7 | 0.0 | 0.0
 |
| dj. | -0.5 | -0.6 | -0.6 | -0.8 | -2.5

 | -0.6 | -0.8 | -0.7 | -0.5 | -2.6

 | -0.9 | -0.7 | -0.8 | -0.8

 | -3.2 | -1.1 | -0.6 | -0.8
 | -0.2 | -2.7 | -0.8 | -0.8
 |
| otal | 9.5 | 5.2 | 4.0 | 12.7 | 31.4

 | 10.0 | 7.3 | 5.1 | 12.6 | 35.0

 | 10.7 | 8.7 | 4.4 | 13.3

 | 37.1 | 9.3 | 8.7 | 3.4
 | 17.2 | 38.6 | 9.8 | 8.2
 |
| | hem
.M
gro
harma
D.D
C.C
rading
thers
dj. | hem 1.5 .M 3.0 gro 4.5 harma 0.6 D.D - C.C - rading 0.4 thers 0.0 dj. -0.5 | IQ 2Q hem 1.5 -0.2 .M 3.0 3.2 gro 4.5 2.4 harma 0.6 0.0 D.D - - C.C - - rading 0.4 0.4 dihers 0.0 0.0 dij. -0.5 -0.6 | IQ 2Q 3Q hem 1.5 -0.2 1.3 .M 3.0 3.2 3.8 gro 4.5 2.4 -2.0 harma 0.6 0.0 0.8 D.D - - - c.C - - - rading 0.4 0.4 0.5 thers 0.0 0.0 0.2 dj. -0.5 -0.6 -0.6 | Image Image <th< td=""><td>IQ 2Q 3Q 4Q Total hem 1.5 -0.2 1.3 1.2 3.8 .M 3.0 3.2 3.8 2.5 12.5 gro 4.5 2.4 -2.0 8.3 13.2 harma 0.6 0.0 0.8 0.3 1.7 D.D - - - - - c.cc - - - - - rading 0.4 0.4 0.5 0.4 1.7 dj. - - - - -</td><td>IQ 2Q 3Q 4Q Total 1Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 .M 3.0 3.2 3.8 2.5 12.5 3.6 gro 4.5 2.4 -2.0 8.3 13.2 4.5 harma 0.6 0.0 0.8 0.3 1.7 0.5 D.D - - - - - - c.cc - - - - - - rading 0.4 0.4 0.5 0.4 1.7 0.4 thers 0.0 0.2 0.8 1.0 0.1 dj. -0.5 -0.6 -0.6 -0.8 1.0 0.1</td><td>IQ 2Q 3Q 4Q Total 1Q 2Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 .M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 D.D - - - - - - - c.c - - - - - - - - rading 0.4 0.4 0.5 0.4 1.7 0.4 0.5 thers 0.0 0.2 0.8 1.0 0.1 0.1 dj. -0.5 -0.6 -0.8 -2.5 -0.6 -0.8</td><td>IQ 2Q 3Q 4Q Total 1Q 2Q 3Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 .M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 0.6 D.D - - - - - - - - C.C -</td><td>IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 4Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 .M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 0.6 0.1 D.D -<!--</td--><td>IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 4Q Total hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 Mem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 Mem 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 0.6 0.1 1.2 D.D I I II.2 II.2</td><td>IQ 2Q 3Q 4Q Total 1Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 1.6 M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 3.9 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 0.6 0.1 1.2 0.3 D.D </td><td>IQ 2Q 3Q 4Q Total 1Q 2Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 1.6 -0.4 Mem 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 3.9 4.2 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 4.7 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.6 0.1 1.2 0.3 0.3 D.D 1.7 0.5 0.6 0.1 1.2 0.3 0.5</td><td>IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 3Q 4Q Total 1Q 2Q 3Q 3Q 3Q 4Q Total 1Q 2Q 3Q 3Q 4Q Total 1Q 2Q 3Q 3Q 4Q Total 1Q 2Q 3Q <t< td=""><td>IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 4Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 1.6 -0.4 1.0 0.8 M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 3.9 4.2 4.3 2.6 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 4.7 1.3 9.9 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.6 0.1 1.2 0.3 0.3 0.4 0.0</td><td>Image: Normal condition Image: Normal</td><td>Image: Normal with the symbol with the</td><td>Image: Normal with the system of t</td><td>1Q $2Q$ $3Q$ $4Q$ $Total$ $1Q$ $2Q$ $3Q$ Mem 1.5 -0.2 1.3 1.2 3.8 1.4 4.0 2.5 14.2 3.9 4.2 4.3 2.6 15.0 4.0 4.7 <math>gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 4.7 3.0 4.0 4.5 4.9 1.8 $harma$ 0.6 0.0 0.8 0.3 1.6 0.6 0.1 <t< td=""><td>Image: Normal basic black Image: Normal basic black I</td><td>Image: Note the state in the stat</td><td>Activity Activity Activity</td></t<></math></td></t<></td></td></th<> | IQ 2Q 3Q 4Q Total hem 1.5 -0.2 1.3 1.2 3.8 .M 3.0 3.2 3.8 2.5 12.5 gro 4.5 2.4 -2.0 8.3 13.2 harma 0.6 0.0 0.8 0.3 1.7 D.D - - - - - c.cc - - - - - rading 0.4 0.4 0.5 0.4 1.7 dj. - - - - - | IQ 2Q 3Q 4Q Total 1Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 .M 3.0 3.2 3.8 2.5 12.5 3.6 gro 4.5 2.4 -2.0 8.3 13.2 4.5 harma 0.6 0.0 0.8 0.3 1.7 0.5 D.D - - - - - - c.cc - - - - - - rading 0.4 0.4 0.5 0.4 1.7 0.4 thers 0.0 0.2 0.8 1.0 0.1 dj. -0.5 -0.6 -0.6 -0.8 1.0 0.1 | IQ 2Q 3Q 4Q Total 1Q 2Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 .M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 D.D - - - - - - - c.c - - - - - - - - rading 0.4 0.4 0.5 0.4 1.7 0.4 0.5 thers 0.0 0.2 0.8 1.0 0.1 0.1 dj. -0.5 -0.6 -0.8 -2.5 -0.6 -0.8 | IQ 2Q 3Q 4Q Total 1Q 2Q 3Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 .M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 0.6 D.D - - - - - - - - C.C - | IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 4Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 .M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 0.6 0.1 D.D - </td <td>IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 4Q Total hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 Mem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 Mem 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 0.6 0.1 1.2 D.D I I II.2 II.2</td> <td>IQ 2Q 3Q 4Q Total 1Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 1.6 M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 3.9 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 0.6 0.1 1.2 0.3 D.D </td> <td>IQ 2Q 3Q 4Q Total 1Q 2Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 1.6 -0.4 Mem 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 3.9 4.2 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 4.7 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.6 0.1 1.2 0.3 0.3 D.D 1.7 0.5 0.6 0.1 1.2 0.3 0.5</td> <td>IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 3Q 4Q Total 1Q 2Q 3Q 3Q 3Q 4Q Total 1Q 2Q 3Q 3Q 4Q Total 1Q 2Q 3Q 3Q 4Q Total 1Q 2Q 3Q <t< td=""><td>IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 4Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 1.6 -0.4 1.0 0.8 M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 3.9 4.2 4.3 2.6 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 4.7 1.3 9.9 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.6 0.1 1.2 0.3 0.3 0.4 0.0</td><td>Image: Normal condition Image: Normal</td><td>Image: Normal with the symbol with the</td><td>Image: Normal with the system of t</td><td>1Q $2Q$ $3Q$ $4Q$ $Total$ $1Q$ $2Q$ $3Q$ Mem 1.5 -0.2 1.3 1.2 3.8 1.4 4.0 2.5 14.2 3.9 4.2 4.3 2.6 15.0 4.0 4.7 <math>gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 4.7 3.0 4.0 4.5 4.9 1.8 $harma$ 0.6 0.0 0.8 0.3 1.6 0.6 0.1 <t< td=""><td>Image: Normal basic black Image: Normal basic black I</td><td>Image: Note the state in the stat</td><td>Activity Activity Activity</td></t<></math></td></t<></td> | IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 4Q Total hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 Mem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 Mem 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 0.6 0.1 1.2 D.D I I II.2 II.2 | IQ 2Q 3Q 4Q Total 1Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 1.6 M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 3.9 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.0 0.6 0.1 1.2 0.3 D.D | IQ 2Q 3Q 4Q Total 1Q 2Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 1.6 -0.4 Mem 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 3.9 4.2 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 4.7 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.6 0.1 1.2 0.3 0.3 D.D 1.7 0.5 0.6 0.1 1.2 0.3 0.5 | IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 3Q 4Q Total 1Q 2Q 3Q 3Q 3Q 4Q Total 1Q 2Q 3Q 3Q 4Q Total 1Q 2Q 3Q 3Q 4Q Total 1Q 2Q 3Q 3Q <t< td=""><td>IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 4Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 1.6 -0.4 1.0 0.8 M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 3.9 4.2 4.3 2.6 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 4.7 1.3 9.9 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.6 0.1 1.2 0.3 0.3 0.4 0.0</td><td>Image: Normal condition Image: Normal</td><td>Image: Normal with the symbol with the</td><td>Image: Normal with the system of t</td><td>1Q $2Q$ $3Q$ $4Q$ $Total$ $1Q$ $2Q$ $3Q$ Mem 1.5 -0.2 1.3 1.2 3.8 1.4 4.0 2.5 14.2 3.9 4.2 4.3 2.6 15.0 4.0 4.7 <math>gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 4.7 3.0 4.0 4.5 4.9 1.8 $harma$ 0.6 0.0 0.8 0.3 1.6 0.6 0.1 <t< td=""><td>Image: Normal basic black Image: Normal basic black I</td><td>Image: Note the state in the stat</td><td>Activity Activity Activity</td></t<></math></td></t<> | IQ 2Q 3Q 4Q Total 1Q 2Q 3Q 4Q hem 1.5 -0.2 1.3 1.2 3.8 1.5 -0.2 1.2 0.9 3.4 1.6 -0.4 1.0 0.8 M 3.0 3.2 3.8 2.5 12.5 3.6 4.1 4.0 2.5 14.2 3.9 4.2 4.3 2.6 gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 4.7 1.3 9.9 harma 0.6 0.0 0.8 0.3 1.7 0.5 0.6 0.1 1.2 0.3 0.3 0.4 0.0 | Image: Normal condition Image: Normal | Image: Normal with the symbol with the | Image: Normal with the system of t | 1Q $2Q$ $3Q$ $4Q$ $Total$ $1Q$ $2Q$ $3Q$ Mem 1.5 -0.2 1.3 1.2 3.8 1.4 4.0 2.5 14.2 3.9 4.2 4.3 2.6 15.0 4.0 4.7 $gro 4.5 2.4 -2.0 8.3 13.2 4.5 3.6 -0.6 8.9 16.4 5.1 4.7 3.0 4.0 4.5 4.9 1.8 harma 0.6 0.0 0.8 0.3 1.6 0.6 0.1 Image: Normal basic black IImage: Note the state in the statActivity Activity Activity$ | Image: Normal basic black I | Image: Note the state in the stat | Activity Activity |

(1) FY2019-2020 : New OP method (see p14)

(2) In the Pharmaceuticals segment, figures are rounded to the nearest 100 million yen.

Accordingly, some discrepancies may occur among totals.

Sales and OP by Segment (1)(2)(3)

<Sales (A)>

(¥billion) FY2011 FY2012 FY2014 FY2010 FY2013 FY2015 FY2016 FY2017 FY2018 FY2019 FY2020E* *as of Nov. 2020 Chem 38.1 36.9 34.5 35.5 34.3 34.3 34.8 34.9 35.7 34.3 31.7 P.M 38.0 34.0 37.4 42.8 49.4 51.8 52.8 58.8 63.0 65.5 69.8 58.1 Agro 34.4 33.8 35.4 39.1 45.7 47.5 52.0 62.7 64.0 64.6 10.0 12.7 11.6 8.7 7.5 7.0 Pharma 9.6 8.8 8.0 7.0 6.8 67.9 44.8 50.7 55.6 55.2 59.5 67.9 Trading 44.1 46.6 54.4 69.1 Others 27.0 20.0 21.2 21.4 20.9 20.9 24.0 21.5 24.6 22.4 23.4 -46.9 -54.3 -55.9 Adi. -37.0 -30.9 -34.0 -37.4 -42.3 -41.9 -46.5 -56.0 209.5 Total 154.2 148.6 153.8 163.7 171.2 176.9 180.3 193.4 204.9 206.8 <**OP** (B)>

Chem	2.4	1.6	1.9	1.9	1.9	3.9	3.8	3.4	3.0	1.3	1.2
P.M	7.9	4.8	7.2	8.8	12.0	12.0	12.5	14.2	15.0	17.0	20.6
Agro	4.8	4.4	5.0	6.2	9.2	10.8	13.2	16.4	18.4	19.3	18.7
Pharma	4.4	4.6	5.2	4.9	2.3	2.0	1.7	1.2	1.0	0.9	0.6
Trading	1.4	1.3	1.4	1.5	1.7	1.8	1.7	1.8	2.0	2.1	2.1
Others	1.0	0.3	0.7	0.8	0.6	0.5	1.0	0.6	0.9	0.7	0.6
Adj.	-2.1	-1.5	-1.9	-1.9	-2.4	-2.4	-2.5	-2.6	-3.2	-2.7	-3.5
Total	19.8	15.5	19.5	22.2	25.3	28.6	31.4	35.0	37.1	38.6	40.3

<Seament Assets (D)>

FY2019
27.7
50.2
73.9
10.6
25.2
12.0
49.9
249.5

<OP Margin (C)=(B)/(A)>

Chem	6.3%	4.3%	5.5%	5.4%	5.5%	11.4%	10.9%	9.7%	8.4%	3.8%	3.8%
P.M	20.8%	14.1%	19.3%	20.6%	24.3%	23.2%	23.7%	24.1%	23.8%	26.0%	29.5%
Agro	14.0%	13.0%	14.1%	15.9%	20.1%	22.7%	25.4%	28.2%	29.3%	30.2%	28.9%
Pharm a	45.8%	46.0%	40.9%	42.2%	26.1%	23.0%	21.3%	16.0%	14.3%	12.9%	8.8%
Trading	3.2%	2.9%	3.0%	3.0%	3.1%	3.2%	3.1%	3.0%	2.9%	3.1%	3.0%
Others	3.7%	1.5%	3.3%	3.7%	2.9%	2.4%	4.2%	2.8%	3.7%	3.1%	2.6%
Adj.	<mark>12.9%</mark>	10.4%	12.7%	13.6%	14.8%	<mark>16.2%</mark>	17.4%	<mark>18.1%</mark>	<mark>18.1%</mark>	18.7%	<mark>19.2%</mark>

(1) FY2010-2011 : Former Segmentation, FY2012- : New Segmentation

(2) Including inter-segment sales/transfers

(3) FY2019-2020 : New OP method (see p14)

<ROA (E)=(B)/(D)>

4.7%
33.9%
26.1%
8.5%
8.3%
5.8%
15.5%

Main Products by Segment

Segment	Products	Main Applications				
Chem	♦ Fine Chemicals					
	TEPIC	epoxy compound for LED sealants, solder resist, painting				
	Melamine cyanurate	flame retardant				
	Environmental product	HI-LITE (chlorinated isocyanuric acid for sterilizing)				
	Basic Chemicals					
	Melamine	adhesive agent for plywood				
	AdBlue	solution of urea in demineralised water for diesel trucks to reduce NOx				
	High purity Sulfuric acid	agents used for cleaning semiconductors				
	Ammonia, Sulfuric acid, Nitric acid					
Performance	Electronic Materials					
Materials	SUNEVER	LCD alignment coating				
	ARC®	bottom anti-reflective coating for semiconductors				
	OptiStack ®	multi layer process material for semiconductors (Si-HM/SOC)				
		*ARC® and OptiStack® are registered trade mark of Brewer Science, Inc.				
	NHC	protective coating for touch panel				
	OPTIFOCUS	microlens material for image sensor application				
	ELSOURCE	hole injection layer materials for OLED				
	Inorganic Materials					
	SNOWTEX	water dispersed colloidal silica sol for polishing silicon wafers, special steel sheets				
	Organo silica sol	film coating, antistatic interference shielding, electronic printing materials				
	Monomer sol	resin additive				
	Alumina sol	automotive catalyst, electronic printing materials				
	SUNCOLLOID	high refractive sol for lens				
	CELNAX	antistatic sol for film				
	Oilfield materials	for enhancing oil recovery				
Agro	◆ Herbicide					
	TARGA	soybean, rapeseed, sugarbeet				
	PERMIT	corn, sugarcane, rice				
	SIRIUS, ALTAIR	paddy rice				
	ROUNDUP	non-selective herbicide for orchard, noncrop land				
	◆ Insecticide					
	STARMITE, SANMITE, MITOKOHNE	fruits, tea, vegetables				
	GRACIA	vegetables, tea				
	◆ Fungicide					
	LEIMAY/ORACLE	vegetables, potato, fruits				
	PULSOR, IKARUGA, GREATAM (THIFLUZAMIDE)	potato, grape, turf				
	QUINTEC (QUINOXYFEN)	fruits, vegetables				
	 Animal health products 					
	Fluralaner	active substance of BRAVECTO (veterinary medical product for dogs and cats) and EXZOLT				
		(for poultry red mites)				
Pharma	LIVALO API	anti-cholesterol drug				
	Custom Chemicals	custom manufacturing and process researching services for pharmaceutical companies				
Trading	Nissei Corporation					
Others	Transportation, Landscaping, Engineering, Fertilizer					

Forward Looking Statements

The forward looking statements in this material are based on information available at the time of preparation of the material. Although they reflect our current expectations, these statements are not guarantees of future performance, but include a number of risks and uncertainties. Actual results may largely differ from these statements due to various factors which may be beyond company control.

No information in this material is provided as an offer to buy or sell the shares of the company. We urge users of the material to make investment decision based upon own judgment.

