February 2013

## Presentation for Investors

2013 Mizuho Investment Conference in Tokyo

Sponsored by Mizuho Securities in Tokyo on February 26-28, 2013

## Nissan Chemical Industries (NCI)

- R\&D oriented chemical company
-*FY2011 R\&D expenses/sales: NCI
9.2\%
(1 $1^{\text {st }}$ among 31 chemical companies)
31 companies average 4.2\%
*FY2011 = 1 Apr 2011~31 Mar 2012
-41\% of profession staff assigned to R\&D centers
- Core business
- Electronic Materials, Organic/Inorganic Materials, Agrochemicals, Pharmaceuticals
- Diversified product portfolio, products holding strong market positions
- Priority on OP margin and ROE
- OP margin (FY2011) 10.4\%
-ROE (FY2011) 9.5\%
Recording stable profits despite cyclical nature of chemical sector
- Only two companies recorded more than 10\% OP margin
in nine consecutive years (FY2003-2011) among 31 companies
-FY2007-2011 Average ROE 12.0\%


## Long-term Financial Performance Trend


(1) 2002 = From April 1, 2002 to March 31, 2003

## Long Term Financial Performance Trend

( $¥$ billion)

|  | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sale s | 151.9 | 155.9 | 161.4 | 169.1 | 174.4 | 169.2 | 160.2 | 149.0 | 154.2 | 148.6 |
| Operating Profit | 9.8 | 15.7 | 17.3 | 21.7 | 20.8 | 24.8 | 17.4 | 19.2 | 19.8 | 15.5 |
| Ordinary Income | 8.6 | 14.6 | 17.4 | 21.3 | 21.2 | 24.4 | 16.9 | 19.2 | 19.4 | 15.9 |
| Net Income | 4.0 | 8.7 | 11.3 | 13.7 | 14.0 | 15.5 | 10.1 | 12.8 | 13.0 | 11.0 |
| EBITDA | 20.7 | 26.1 | 26.9 | 31.6 | 30.5 | 34.5 | 27.6 | 30.1 | 30.2 | 25.9 |
| OP Margin | 6.5\% | 10.0\% | 10.7\% | 12.8\% | 12.0\% | 14.6\% | 10.9\% | 12.8\% | 12.9\% | 10.4\% |
| ROE(\%) | 6.7\% | 13.4\% | 15.2\% | 16.1\% | 14.7\% | 15.6\% | 10.3\% | 12.6\% | 11.9\% | 9.5\% |
| EPS(\#) | 21.16 | 46.21 | 59.77 | 72.73 | 75.43 | 85.15 | 57.26 | 74.00 | 75.94 | 64.52 |
| Dividend(¥lshare) | 9 | 11 | 11 | 15 | 20 | 20 | 22 | 24 | 24 | 24 |
| Purches of treasury shares | - | - | - | - | 4.7 | 5.0 | 8.0 | - | 2.8 |  |
| Net Assets | 60.6 | 69.2 | 78.5 | 92.0 | 98.1 | 100.1 | 95.7 | 106.5 | 112.4 | 119.6 |
| Liabilities with interest | 68.5 | 57.4 | 44.6 | 41.5 | 32.4 | 34.4 | 45.5 | 42.1 | 39.9 | 38.9 |
| D/E ratio (1) | 108.2\% | 78.0\% | 53.7\% | 38.5\% | 23.2\% | 27.2\% | 37.1\% | 26.0\% | 16.9\% | 9.3\% |
| Equity ratio | 35.4\% | 40.1\% | 46.4\% | 50.2\% | 55.3\% | 58.0\% | 55.5\% | 58.7\% | 60.7\% | 62.4\% |
| Capex | 18.8 | 6.6 | 6.6 | 9.2 | 12.1 | 10.9 | 13.9 | 10.1 | 9.6 | 8.3 |
| Depreciation | 10.9 | 10.4 | 9.6 | 9.9 | 9.7 | 9.7 | 10.2 | 11.0 | 10.4 | 10.5 |
| R\&D Expenses | 7.5 | 8.7 | 8.6 | 9.2 | 9.9 | 12.5 | 13.7 | 13.1 | 12.6 | 13.6 |
| R\&D Expenses/Sales(\%) | 4.9\% | 5.6\% | 5.3\% | 5.4\% | 5.7\% | 7.4\% | 8.6\% | 8.8\% | 8.2\% | 9.2\% |
| Num ber of employees (parent company) | 1,514 | 1,505 | 1,502 | 1,502 | 1,558 | 1,614 | 1,657 | 1,710 | 1,750 | 1,730 |

(1) D/E ratio $=($ Borrowings - Cash ) $/$ Shareholders' equity (\%)

## New Segmentation (From 2Q 2011)

Reflecting organizational changes implemented in June 2011

- Major organizational change

Creation of Performance Materials Division to consolidate Electronic Materials Division and Inorganic Materials Division aiming to strengthen performance materials business which is identified as our major growth engine

- Major changes in segmentation

Creation of Performance Materials
Change in Chemicals
$\rightarrow$ Electronic Materials + Inorganic Materials
$\rightarrow$ Inorganic Materials shifted to Performance Materials Creation of Fine Chemicals subsegment, abolishment of Organic Materials subsegment Environmental Chemicals (HI-LITE) shifted from basic Chemicals to Fine Chemicals


## Diversified Product Portfolio

Consisting of products holding strong position in market

NCI's Position

Largest (World)

Largest (Japan)

Among top 3 (Japan)

Major (Asia)
Largest (Asia)
Largest (Japan)

Largest (Japan)
No. 3 (Japan)

No. 3 (Japan)

## Sales and Operating Profit by New Segmentation (¥ billion)

|  |  | FY2010 | FY2011 | FY2012E |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { の } \\ & \text { D } \\ & \boldsymbol{m} \\ & \text { N } \end{aligned}$ | Chemicals | 38.1 24.7\% | 36.9 24.8\% | 38.5 25.2\% |
|  | Performance Materials | 38.0 24.6\% | 34.0 22.9\% | 37.2 24.3\% |
|  | Agrochemicals | $34.4 \quad 22.3 \%$ | 33.8 22.7\% | $34.6 \quad 22.6 \%$ |
|  | Pharmaceuticals | 9.6 6.2\% | 10.0 6.7\% | 9.0 5.9\% |
|  | Trading | 44.1 28.6\% | 44.8 30.1\% | 47.2 30.8\% |
|  | Others | $27.0 \quad 17.5 \%$ | $20.0 \quad 13.5 \%$ | 22.7 14.8\% |
|  | Adjustment | -37.0-24.0\% | -30.9 -20.8\% | -36.2 -23.7\% |
|  | Total | 154.2 100\% | 148.6 100\% | $153.0 \quad 100 \%$ |


| $\begin{aligned} & 0 \\ & \text { O } \\ & \text { © } \end{aligned}$ | Chemicals |  | 12.1\% | 1.6 | 10.3\% | 2.3 | 13.4\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Performance Materials | 7. | 39.9\% | 4.8 | 31.0\% | 6.3 | 36.6\% |
|  | Agrochemicals | 4. | 24.2\% | 4.4 | 28.4\% | 4.2 | 24.4\% |
|  | Pharmaceuticals | 4. | 22.2\% | 4.6 | 29.7\% | 4.0 | 23.3\% |
|  | Trading | 1. | 7.1\% | 1.3 | 8.4\% | 1.4 | 8.1\% |
|  | Others | 1. | 5.1\% | 0.3 | 1.9\% | 0.4 | 2.3\% |
|  | Adjustment | -2. | -10.6\% | -1.5 | -9.7\% | -1.4 | -8.1\% |
|  | Total | 19. | 100\% | 15.5 | 100\% | 17.2 | 100\% |


|  | Chemicals | 6.3\% | 4.3\% | 6.0\% |
| :---: | :---: | :---: | :---: | :---: |
|  | Performance Materials | 20.8\% | 14.1\% | 16.9\% |
|  | Agrochemicals | 14.0\% | 13.0\% | 12.1\% |
|  | Pharmaceuticals | 45.8\% | 46.0\% | 44.4\% |
|  | Trading | 3.2\% | 2.9\% | 3.0\% |
|  | Others | 3.7\% | 1.5\% | 1.8\% |
|  | Total | 12.9\% | 10.4\% | 11.2\% |


|  |  | $\begin{gathered} \hline \text { March 31, } \\ 2012 \end{gathered}$ |  |
| :---: | :---: | :---: | :---: |
| 0 <br> 0 <br> 0 <br> 3 <br> 0 <br> 0 <br>  <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 | Chemicals | 31.6 | 16.6\% |
|  | Performance Materials | 31.5 | 16.6\% |
|  | Agrochemicals | 44.6 | 23.5\% |
|  | Pharmaceuticals | 12.4 | 6.5\% |
|  | Trading | 16.5 | 8.7\% |
|  | Others | 9.5 | 5.0\% |
|  | Adjustment (Common Assets) | 44.0 | 23.1\% |
|  | Total | 190.1 | 100\% |


|  | Chemicals | 5.1\% |
| :---: | :---: | :---: |
|  | Performance Materials | 15.2\% |
|  | Agrochemicals | 9.9\% |
|  | Pharmaceuticals | 37.1\% |
|  | Trading | 7.9\% |
|  | Others | 3.2\% |
|  | Total | 8.1\% |

## Pro Forma Sales and Operating Profit by Former Segmentation(1)

( $¥$ billion)

|  |  | FY2005 | FY2006 | FY2007 | FY2008 | FY2009 | FY2010 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \infty \\ & \boldsymbol{D} \\ & \boldsymbol{m} \end{aligned}$ | Chemicals | 50.2 29.7\% | 55.2 31.6\% | 60.7 35.9\% | 55.4 34.6\% | 46.1 30.9\% | 49.6 32.2\% |
|  | Electronic Materials | 23.4 13.9\% | 22.8 13.1\% | 28.1 16.6\% | 23.2 14.5\% | 26.6 17.9\% | 26.2 17.0\% |
|  | Agrochemicals | 35.8 21.1\% | 33.5 19.2\% | 33.2 19.6\% | 35.4 22.1\% | 33.8 22.7\% | 34.4 22.3\% |
|  | Pharm aceuticals | 5.1 3.0\% | $6.5 \quad 3.7 \%$ | 8.1 4.8\% | 9.2 5.7\% | 9.5 6.4\% | 9.6 6.2\% |
|  | Trading | 35.7 21.1\% | 40.4 23.2\% | 47.0 27.8\% | 46.3 28.9\% | 41.3 27.7\% | 44.1 28.6\% |
|  | Others (2) | 53.4 31.6\% | 53.4 30.6\% | 28.0 16.5\% | 28.4 17.7\% | 27.4 18.4\% | 27.0 17.5\% |
|  | Adjustment | -34.4 -20.3\% | -37.4-21.4\% | -35.9 -21.2\% | -37.7 -23.5\% | -35.7 -24.0\% | -36.7-23.8\% |
|  | Total | 169.2 100\% | 174.4 100\% | 169.2 100\% | 160.2 100\% | $149.0 \quad 100 \%$ | $154.2 \quad 100 \%$ |
| $0$ | Chemicals | 4.6 21.3\% | 5.4 25.8\% | 6.3 25.4\% | 3.6 20.7\% | 2.6 13.5\% | 4.1 20.7\% |
|  | Electronic Materials | 11.1 51.3\% | 9.4 45.0\% | 10.3 41.5\% | $4.9 \quad 28.2 \%$ | 7.3 38.0\% | 6.2 31.3\% |
|  | Agrochemicals | 3.7 17.2\% | 3.5 16.7\% | 4.1 16.5\% | $5.0 \quad 28.7 \%$ | 4.7 24.5\% | 4.8 24.2\% |
|  | Pharm aceuticals | 1.2 5.6\% | 2.1 10.0\% | 3.9 15.7\% | $4.5 \quad 25.9 \%$ | 4.6 24.0\% | $4.4 \quad 22.2 \%$ |
|  | Trading | 0.8 3.8\% | 1.0 4.6\% | 1.0 4.0\% | 1.1 6.3\% | 1.1 5.7\% | 1.4 7.1\% |
|  | Others | 0.9 4.1\% | 1.1 5.4\% | 0.8 3.2\% | 0.7 4.0\% | $1.0 \quad 5.2 \%$ | $1.0 \quad 5.1 \%$ |
|  | Adjustment | -0.7 -3.3\% | -1.6 | -1.6 -6.3\% | -2.4-13.8\% | -2.1-10.9\% | -2.1-10.6\% |
|  | Total | 21.7 100\% | 20.8 100\% | 24.8 100\% | 17.4 100\% | 19.2 100\% | 19.8 100\% |
| $\begin{aligned} & 0 \\ & 0 \\ & 3 \\ & 3 \\ & 0 \\ & 0 \\ & 5 \end{aligned}$ | Chemicals | 9.2\% | 9.8\% | 10.3\% | 6.5\% | 5.6\% | 8.3\% |
|  | Electronic Materials | 47.4\% | 41.1\% | 36.8\% | 21.0\% | 27.4\% | 23.7\% |
|  | Agrochemicals | 10.4\% | 10.4\% | 12.3\% | 14.0\% | 13.9\% | 14.0\% |
|  | Pharmaceuticals | 24.0\% | 32.2\% | 48.0\% | 49.5\% | 48.4\% | 45.8\% |
|  | Trading | 2.3\% | 2.4\% | 2.2\% | 2.4\% | 2.7\% | 3.2\% |
|  | Others | 1.7\% | 2.1\% | 2.7\% | 2.5\% | 3.6\% | 3.7\% |
|  | Total | 12.8\% | 11.9\% | 14.6\% | 10.9\% | 12.8\% | 12.9\% |

(1) FY2005-2008 are restated based on new segmentation
(2) Sales of Others decreased in FY2007 mainly due to spin-off of Nissan Agri (currently "Sun Agro", fertilizer company, FY2006 sales $¥ 27.7$ billion)

## 1H FY2012 PL

|  | $\begin{gathered} \text { 1H } \\ \text { FY2011 } \end{gathered}$ | $\begin{gathered} \text { 1H } \\ \text { FY2012 } \end{gathered}$ | Change | 1H FY2012 Outlook as of May 2012 | 1H FY2012 Outlook as of July 2012 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sales | 69.8 | 71.1 | 1.3 | 69.4 | 72.0 |
| Operating Profit | 6.6 | 8.6 | 2.0 | 6.3 | 8.3 |
| Non-Operating Income/Expenses | -0.1 | -0.2 | -0.1 | -0.2 | -0.3 |
| Ordinary Income | 6.5 | 8.4 | 1.9 | 6.1 | 8.0 |
| Extraordinary Profit/Loss | - | - | - | - | - |
| Net Income | 4.4 | 5.6 | 1.2 | 3.6 | 5.1 |
| EBITDA (1) | 11.5 | 13.0 | 1.5 | 10.8 | - |
| EPS ( $~(~) ~$ | 25.88 | 33.63 | 7.75 | 20.93 | 30.43 |
| Dividend ( $¥ /$ share) | $¥ 12$ | ¥12 | ¥0 | ¥12 | ¥12 |
| Total amount of Dividend | 2.1 | 2.0 | -0.1 | 2.0 | 2.0 |
| OP Margin (\%) | 9.4\% | 12.1\% | 2.7\% | 9.1\% | 11.5\% |
| FX Rate ( $¥ 1$ ( ${ }^{\text {) }}$ | 80 | 79 |  | 77 | 77 |
| Naphtha ( $¥ / \mathrm{KL}$ ) (2) | 57,000 | 55,500 |  | 53,000 | 53,000 |


| Comprehensive Income | 4.0 | 5.0 |
| :--- | ---: | ---: |

(1) EBITDA = Operating Profit + Depreciation
(2) Based on Trade Statistics of Japan Ministry of Finance (1H FY2012: Based on April-August actual)

## 1H FY2012 Review

## <vs. 1H FY2011>

(Sales) $\downarrow$ Up $¥ 1.3$ billion (+1.9\%) (+) Performance Materials, Agrochemicals, Pharmaceuticals, Trading
(-) Chemicals
$(O P) \diamond$ Up $¥ 2.0$ billion (+30.6\%) (+) Performance Materials, Agrochemicals,
$( \pm)$ Chemicals, Pharmaceuticals, Trading

```
    (Non-Operating
ncome and Expenses) D Down ¥0.1 billion
(Ordinary Income) \ Up ¥1.9 billion (+28.7%)
    (Net Income) \ Up ¥1.2 billion (+27.8%)
<vs. 1H FY2012 Outlook as of May 2012>
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(Sales) $\downarrow$ Up $¥ 1.7$ billion

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(Ordinary Income) \(\downarrow\) Up \(¥ 2.3\) billion
(Net Income) \(\downarrow\) Up \(¥ 2.0\) billion
<vs. 1H FY2012 Outlook as of July 2012 >
```

(+) Performance Materials, Agrochemicals, Pharmaceuticals, Trading
(-) Chemicals
(+) Chemicals, Performance Materials, Agrochemicals, Pharmaceuticals, Trading

```
(Sales) D Down \(¥ 0.9\) billion
\((O P) \diamond\) Up \(¥ 0.3\) billion
(Non-Operating
Income and Expenses) \(\downarrow\) Up \(¥ 0.1\) billion
(Ordinary Income) \(\downarrow\) Up \(¥ 0.4\) billion
(Net Income) \(\downarrow\) Up \(¥ 0.5\) billion

1H FY2012
Non-Operating Income/Expenses, Extraordinary Profit/Loss, Comprehensive Income
\begin{tabular}{|l|r|r|r|}
\cline { 2 - 4 } \multicolumn{1}{c|}{} & \multicolumn{1}{c|}{\begin{tabular}{c}
\(1 H\) \\
FY2011
\end{tabular}} & \multicolumn{1}{c|}{\begin{tabular}{c}
\(1 H\) \\
FY2012
\end{tabular}} & \multicolumn{1}{c|}{ Change } \\
\hline Non-Operating Income & 0.91 & 1.13 & 0.22 \\
\hline Interest income, dividend income & 0.33 & 0.31 & -0.02 \\
\hline Equity in earnings of affiliates & 0.08 & 0.30 & 0.22 \\
\hline Others & 0.50 & 0.52 & 0.02 \\
\hline Non-Operating Expenses & 0.96 & 1.32 & 0.36 \\
\hline Interest expense & 0.23 & 0.19 & -0.04 \\
\hline Loss on disposal of fixed assets & 0.12 & 0.16 & 0.04 \\
\hline Loss on revaluation of investments in securities & 0.01 & 0.26 & 0.25 \\
\hline Others & 0.60 & 0.71 & 0.11 \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|r|}
\hline Extraordinary Profit & - & - & - \\
\hline Extraordinary Loss & - & - & - \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|r|}
\hline Com prehensive Income & 4.00 & 5.00 & 1.00 \\
\hline Net income & 4.40 & 5.63 & 1.23 \\
\hline Minority interests & 0.04 & 0.04 & 0.00 \\
\hline Unrealized gains or losses on investment securities & 0.05 & -0.57 & -0.62 \\
\hline Foreign currency translation adjustments & -0.49 & -0.10 & 0.39 \\
\hline
\end{tabular}

\section*{1H FY2012 Cash Flow}
(¥billion)
\begin{tabular}{|c|c|c|}
\hline & \[
\begin{gathered}
\hline \text { 1H } \\
\text { FY2011 }
\end{gathered}
\] & \[
\begin{gathered}
\text { 1H } \\
\text { FY2012 }
\end{gathered}
\] \\
\hline CF from operating activities & 20.4 & 21.9 \\
\hline Profit before income tax & 6.5 & 8.4 \\
\hline Depreciation \& amortization & 4.9 & 4.4 \\
\hline Tax & -3.1 & -1.9 \\
\hline Working capital, others & 12.1 & 11.0 \\
\hline CF from investing activities & -6.3 & -4.8 \\
\hline Purchase of PPE & -4.9 & -3.9 \\
\hline Others & -1.4 & -0.9 \\
\hline CF from financing activities & -9.6 & -22.6 \\
\hline Dividends paid & -2.0 & -2.0 \\
\hline Borrowings & -7.5 & -15.5 \\
\hline Purchase of treasury shares & 0.0 & -5.0 \\
\hline Others & -0.1 & -0.1 \\
\hline Effect of FX rate changes on cash \& cash equivalents & -0.4 & -0.1 \\
\hline Change in cash \& cash equivalents & 4.1 & -5.6 \\
\hline Cash \& cash equivalents at end of period & 25.2 & 22.3 \\
\hline
\end{tabular}

\section*{1H FY2012 Balance Sheets}
(¥billion)
\begin{tabular}{|l|r|r|r|r|}
\cline { 2 - 5 } \multicolumn{1}{c|}{} & \(2011 / 9\) & \(2012 / 3\) & \(2012 / 9\) & Change \\
\hline Current assets & 100.1 & 118.4 & 101.0 & -17.4 \\
\hline Cash & 25.2 & 27.9 & 22.3 & -5.6 \\
\hline \begin{tabular}{l} 
Accounts \\
receivable
\end{tabular} & 40.2 & 55.5 & 43.4 & -12.1 \\
\hline Inventories & 29.7 & 29.4 & 30.1 & 0.7 \\
\hline Others & 5.0 & 5.6 & 5.2 & -0.4 \\
\hline Fixed assets & 72.7 & 71.7 & 72.5 & 0.8 \\
\hline Total PPE(1) & 3.8 & 44.7 & 45.8 & 1.1 \\
\hline Intangible assets & 21.4 & 22.3 & 21.5 & -0.8 \\
\hline \begin{tabular}{l} 
Investment \\
securities
\end{tabular} & 2.4 & 1.9 & 2.8 & 0.9 \\
\hline Others & 172.8 & 190.1 & 173.5 & -16.6 \\
\hline Total assets & 2.4 & -0.4 \\
\hline
\end{tabular}
\begin{tabular}{lc} 
(1) Increase in PPE & 5.1 \\
Depreciation & 3.9 \\
Retirement & 0.1 \\
\hline \hline Change & 1.1
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline & 2011/9 & 2012/3 & 2012/9 & Change \\
\hline Liabilities & 58.6 & 70.5 & 56.0 & -14.5 \\
\hline Accounts payable & 12.7 & 17.3 & 14.8 & -2.5 \\
\hline Borrowings & 32.4 & 38.9 & 23.4 & -15.5 \\
\hline Others & 13.5 & 14.3 & 17.8 & 3.5 \\
\hline Net assets & 114.2 & 119.6 & 117.5 & -2.1 \\
\hline Shareholders' equity & 113.5 & 118.0 & 116.6 & -1.4 \\
\hline Unrealized gains or losses on inv estment securities & 1.5 & 2.0 & 1.5 & -0.5 \\
\hline Foreign currency translation adjustments & -1.7 & -1.4 & -1.5 & -0.1 \\
\hline Minority interests & 0.9 & 1.0 & 0.9 & -0.1 \\
\hline Total liabilities \& Net assets & 172.8 & 190.1 & 173.5 & -16.6 \\
\hline
\end{tabular}
(Equity Ratio) 65.6\% 62.4\% 67.2\%
Change in shareholders' equity -1.4
\(=\) Net Income 5.6-Dividend 2.0-Purchase of Treasury Share 5.0
(Blank)

\section*{FY2012 Outlook as of October 2012}

\section*{(No revision as of February 2013)}
(¥billion)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{} & \multicolumn{3}{|c|}{FY2011} & \multicolumn{3}{|c|}{FY2012E} & \multicolumn{3}{|c|}{Change} \\
\hline & 1H & 2H & Total & 1H & 2HE & Total & 1H & 2HE & Total \\
\hline Sales & 69.8 & 78.8 & 148.6 & 71.1 & 83.9 & 155.0 & 1.3 & 5.1 & 6.4 \\
\hline Operating Profit & 6.6 & 8.9 & 15.5 & 8.6 & 10.0 & 18.6 & 2.0 & 1.1 & 3.1 \\
\hline Non-Operating Income/Expenses & -0.1 & 0.5 & 0.4 & -0.2 & 0.2 & 0.0 & -0.1 & -0.3 & -0.4 \\
\hline Ordinary Income & 6.5 & 9.4 & 15.9 & 8.4 & 10.2 & 18.6 & 1.9 & 0.8 & 2.7 \\
\hline Extraordinary Profit/Loss (1) & - & 0.7 & 0.7 & - & & - & - & -0.7 & -0.7 \\
\hline Net Income & 4.4 & 6.6 & 11.0 & 5.6 & 7.0 & 12.6 & 1.2 & 0.4 & 1.6 \\
\hline EBITDA (2) & 11.5 & 14.4 & 25.9 & 13.0 & 15.1 & 28.1 & 1.5 & 0.7 & 2.2 \\
\hline EPS ( \(~(~) ~\) & 25.88 & 38.64 & 64.52 & 33.63 & 43.32 & 76.95 & 7.75 & 4.68 & 12.43 \\
\hline Dividend ( \(¥ /\) share) & \(¥ 12\) & ¥12 & ¥24 & \(¥ 12\) & \(¥ 12\) & ¥ 24 & 0.0 & 0.0 & 0.0 \\
\hline Total amount of Dividend & 2.1 & 2.0 & 4.1 & 2.0 & 2.0 & 4.0 & -0.1 & 0.0 & -0.1 \\
\hline OP Margin (\%) & 9.4\% & 11.3\% & 10.4\% & 12.1\% & 11.9\% & 12.0\% & 2.7\% & 0.6\% & 1.6\% \\
\hline FX Rate ( \(\#\) /\$) & 80 & 82 & & 79 & 79 & & & & \\
\hline Naphtha ( \(¥ / \mathrm{kl}\) ) & 57,000 & 52,800 & & 55,500 & 49,000 & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{3}{|l|}{FY2012 Outlook as of May 2012} & \multicolumn{3}{|l|}{FY2012 Outlook as of July 2012} \\
\hline 1HE & 2HE & Total & 1HE & 2HE & Total \\
\hline 69.4 & 83.6 & 153.0 & 72.0 & 81.0 & 153.0 \\
\hline 6.3 & 10.9 & 17.2 & 8.3 & 8.9 & 17.2 \\
\hline -0.2 & 0.4 & 0.2 & -0.3 & 0.5 & 0.2 \\
\hline 6.1 & 11.3 & 17.4 & 8.0 & 9.4 & 17.4 \\
\hline - & - & - & - & & \\
\hline 3.6 & 7.8 & 11.4 & 5.1 & 6.3 & 11.4 \\
\hline 10.8 & 16.4 & 27.2 & - & - & 27.2 \\
\hline 20.93 & 46.26 & 67.19 & 30.43 & 37.59 & 68.02 \\
\hline ¥12 & \(¥ 12\) & ¥24 & \(¥ 12\) & ¥12 & ¥24 \\
\hline 2.0 & 1.9 & 3.9 & 2.0 & 1.9 & 3.9 \\
\hline 9.1\% & 13.0\% & 11.2\% & 11.5\% & 11.0\% & 11.2\% \\
\hline 77 & 77 & & & - & \\
\hline 53,000 & 53,000 & & - & - & \\
\hline
\end{tabular}
(1) 2H FY2011: Gain on transfer of business \(\mathbf{+ 0 . 7}\)
(2) EBITDA \(=\) Operating Profit + Depreciation

\section*{<vs. 2H FY2011>}
(OP)
(Non-Operating Income and Expenses)
(Ordinary Income)
(Extraordinary
Profit and Loss)
(Net Income)
(Sales) \(\quad\) Up \(¥ 5.1\) billion(+6.5\%)
-Up \(¥ 1.1\) billion(+12.4\%)
-Down ¥0.3 billion
-Up \(¥ 0.8\) billion(+8.5\%)
-Down ¥0.7 billion
-Up \(¥ 0.4\) billion(+6.1\%)
<vs. 2H FY2012 Outlook as of May 2012>
(Sales) Up \(¥ 0.3\) billion (+) Pharmaceuticals, Trading
(-) Chemicals, Performance Materials
(Non-Operating Income and Expenses)
(Ordinary Income)
(Net Income)
(OP) Down \(¥ 0.9\) billion
-Down \(¥ 0.2\) billion
-Down \(¥ 1.1\) billion
-Down \(¥ 0.9\) billion
(+) Pharmaceuticals, Trading
(-) Performance Materials
(+) Chemicals, Performance Materials, Agrochemicals, Trading
(-) Pharmaceuticals
(+) Chemicals, Performance Materials, Trading (-) Agrochemicals, Pharmaceuticals
( \(\pm\) ) Agrochemicals
( \(\pm\) ) Chemicals, Agrochemicals

\section*{<vs. 2H FY2012 Outlook as of July 2012>}
(Sales)
(OP)
(Non-Operating Income and Expenses)
(Ordinary Income)
<Dividend > \(\quad ¥ 12\) Same as 2H FY2012 Outlook as of May 2012
-Up \(¥ 2.9\) billion
-Up \(¥ 1.1\) billion
-Down \(¥ 0.3\) billion
-Up \(¥ 0.8\) billion
-Up \(¥ 0.7\) billion

\section*{FY2012 Cash Flow Outlook as of October 2012}
(No revision as of February 2013)
(\#billion)
\begin{tabular}{|l|r|r|r|}
\cline { 2 - 4 } \multicolumn{1}{c|}{} & FY2011 & FY2012E & \begin{tabular}{c} 
FY2012 \\
\cline { 2 - 4 } \multicolumn{1}{c|}{} \\
\cline { 2 - 4 } \\
Outlook as of \\
May2012
\end{tabular} \\
\hline CF from operating activities & 21.3 & 22.7 & 22.4 \\
\hline Profit before income tax & 16.5 & 18.6 & 17.4 \\
\hline Depreciation \& Amortization & 10.5 & 9.5 & 10.0 \\
\hline Tax & -6.0 & -4.5 & -4.8 \\
\hline Working capital, others & 0.3 & -0.9 & -0.2 \\
\hline CF from investing activities & -9.3 & -11.0 & -11.0 \\
\hline Purchase of PPE & -8.7 & -10.4 & -11.0 \\
\hline Others & -0.6 & -0.6 & 0.0 \\
\hline CF from financing activities & -5.1 & -10.1 & -10.0 \\
\hline Dividends paid & -4.1 & -4.0 & -4.0 \\
\hline Borrowings & -1.0 & -1.0 & -1.0 \\
\hline Purchase of treasury shares & 0.0 & -5.0 & -5.0 \\
\hline Others & 0.0 & -0.1 & 0.0 \\
\hline Effect of FX rate changes on cash \& cash equivalents & -0.1 & -0.1 & 0.0 \\
\hline Change in cash \& cash equivalents & 6.8 & 1.5 & 1.4 \\
\hline Cash \& cash equivalents at end of period & 27.9 & 29.4 & 29.3 \\
\hline
\end{tabular}

\section*{FY2012 Sales Outlook by Segment as of October 2012}
(No revision as of February 2013)
(¥billion)
\begin{tabular}{|l|r|r|r|r|r|r|r|r|r|}
\cline { 2 - 11 } \multicolumn{1}{c|}{} & \multicolumn{3}{c|}{ FY2011 } & \multicolumn{3}{c|}{ FY2012 E } & \multicolumn{3}{c|}{ Change } \\
\cline { 2 - 11 } \multicolumn{1}{c|}{} & \multicolumn{1}{c|}{1 H} & \multicolumn{1}{c|}{2 H} & Total & \multicolumn{1}{c|}{1 H} & 2H E & Total & \multicolumn{1}{c|}{1 H} & 2H E & Total \\
\hline \begin{tabular}{l} 
Chem
\end{tabular} & 18.6 & 18.3 & 36.9 & 17.9 & 19.6 & 37.5 & -0.7 & 1.3 & 0.6 \\
\hline \begin{tabular}{l} 
Fine \\
Chemicals
\end{tabular} & 5.9 & 5.0 & 10.9 & 5.6 & 6.2 & 11.8 & -0.3 & 1.2 & 0.9 \\
\hline \begin{tabular}{l} 
Basic \\
Chemicals
\end{tabular} & 12.7 & 13.3 & 26.0 & 12.3 & 13.4 & 25.7 & -0.4 & 0.1 & -0.3 \\
\hline \begin{tabular}{l} 
Performance \\
Materials
\end{tabular} & 17.0 & 17.0 & 34.0 & 18.8 & 18.9 & 37.7 & 1.8 & 1.9 & 3.7 \\
\hline Agro & 12.5 & 21.3 & 33.8 & 13.4 & 21.7 & 35.1 & 0.9 & 0.4 & 1.3 \\
\hline Pharma & 5.2 & 4.8 & 10.0 & 5.3 & 4.3 & 9.6 & 0.1 & -0.5 & -0.4 \\
\hline Trading & 22.5 & 22.3 & 44.8 & 22.7 & 25.3 & 48.0 & 0.2 & 3.0 & 3.2 \\
\hline Others & 9.3 & 10.7 & 20.0 & 10.2 & 11.5 & 21.7 & 0.9 & 0.8 & 1.7 \\
\hline Adjustment & -15.3 & -15.6 & -30.9 & -17.2 & -17.4 & -34.6 & -1.9 & -1.8 & -3.7 \\
\hline Total & 69.8 & 78.8 & 148.6 & 71.1 & 83.9 & 155.0 & 1.3 & 5.1 & 6.4 \\
\hline
\end{tabular}
\begin{tabular}{|r|r|r|}
\hline \multicolumn{3}{|c|}{\begin{tabular}{r} 
FY2012 Outlook \\
as of May 2012
\end{tabular}} \\
\hline 1 HE & 2 HE & Total \\
\hline 18.4 & 20.1 & 38.5 \\
\hline 5.7 & 6.1 & 11.8 \\
\hline 12.7 & 14.0 & 26.7 \\
\hline 17.5 & 19.7 & 37.2 \\
\hline 13.0 & 21.6 & 34.6 \\
\hline 4.9 & 4.1 & 9.0 \\
\hline 22.3 & 24.9 & 47.2 \\
\hline 9.2 & 13.5 & 22.7 \\
\hline-15.9 & -20.3 & -36.2 \\
\hline 69.4 & 83.6 & 153.0 \\
\hline
\end{tabular}

\section*{FY2012 OP Outlook by Segment as of October 2012}
(No revision as of February 2013)
(¥billion)
\begin{tabular}{|l|r|r|r|r|r|r|r|r|r|}
\cline { 2 - 11 } \multicolumn{1}{c|}{} & \multicolumn{3}{c|}{ FY2011 } & \multicolumn{3}{c|}{ FY2012 E } & \multicolumn{3}{c|}{ Change } \\
\cline { 2 - 12 } \multicolumn{1}{c|}{} & \multicolumn{1}{c|}{1 H} & \multicolumn{1}{c|}{ 2H } & Total & \multicolumn{1}{c|}{ 1H } & 2H E & Total & 1H & 2H E & Total \\
\hline Chem & 0.8 & 0.8 & 1.6 & 0.8 & 1.7 & 2.5 & 0.0 & 0.9 & 0.9 \\
\hline \begin{tabular}{l} 
Performance \\
Materials
\end{tabular} & 2.6 & 2.2 & 4.8 & 4.1 & 2.6 & 6.7 & 1.5 & 0.4 & 1.9 \\
\hline Agro & 0.8 & 3.6 & 4.4 & 1.3 & 3.5 & 4.8 & 0.5 & -0.1 & 0.4 \\
\hline Pharma & 2.6 & 2.0 & 4.6 & 2.6 & 1.7 & 4.3 & 0.0 & -0.3 & -0.3 \\
\hline Trading & 0.7 & 0.6 & 1.3 & 0.7 & 0.8 & 1.5 & 0.0 & 0.2 & 0.2 \\
\hline Others & 0.0 & 0.3 & 0.3 & 0.1 & 0.4 & 0.5 & 0.1 & 0.1 & 0.2 \\
\hline Adjustment & -0.9 & -0.6 & -1.5 & -1.0 & -0.7 & -1.7 & -0.1 & -0.1 & -0.2 \\
\hline Total & 6.6 & 8.9 & 15.5 & 8.6 & 10.0 & 18.6 & 2.0 & 1.1 & 3.1 \\
\hline
\end{tabular}
\begin{tabular}{|r|r|r|}
\hline \multicolumn{3}{|c|}{\begin{tabular}{c} 
FY2012 Outlook \\
as of May 2012
\end{tabular}} \\
\hline 1H E & 2H E & Total \\
\hline 0.6 & 1.7 & 2.3 \\
\hline 2.7 & 3.6 & 6.3 \\
\hline 0.8 & 3.4 & 4.2 \\
\hline 2.3 & 1.7 & 4.0 \\
\hline 0.6 & 0.8 & 1.4 \\
\hline 0.1 & 0.3 & 0.4 \\
\hline-0.8 & -0.6 & -1.4 \\
\hline 6.3 & 10.9 & 17.2 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline & \[
\begin{array}{r}
\text { 1Q-3Q } \\
\text { FY2011 }
\end{array}
\] & \[
\begin{array}{r}
\text { 1Q-3Q } \\
\text { FY2012 }
\end{array}
\] & Change \\
\hline Sales & 101.3 & 105.7 & 4.4 \\
\hline Operating Profit & 7.6 & 11.2 & 3.6 \\
\hline Non-Operating Income/Expenses & 0.4 & 0.4 & 0.0 \\
\hline Ordinary Income & 8.0 & 11.5 & 3.5 \\
\hline Extraordinary Profit/Loss & 0.7 & 0 & -0.7 \\
\hline Net Income & 5.6 & 7.6 & 2.0 \\
\hline EBITDA (1) & 15.2 & 18.1 & 2.9 \\
\hline 3Q EPS ( \(\ddagger\) ) & 32.77 & 45.83 & 13.1 \\
\hline OP Margin (\%) & 7.5\% & 10.6\% & 1.4\% \\
\hline FX Rate ( \(¥ / \$\) ) & 79.0 & 80.0 & \\
\hline Naphtha ( \(¥ / \mathrm{KL}\) ) & 55,200 & 55,100 & \\
\hline Comprehensive Income & 5.2 & 8.1 & \\
\hline
\end{tabular}
(1) EBITDA \(=\) Operating Profit + Depreciation

\section*{1Q-3Q FY2012 Review}

\section*{<vs. 1Q-3Q FY2011>}
(Sales) \(\diamond\) Up \(¥ 4.4\) billion (+4.3\%) (+) Performance Materials, Agrochemicals, Pharmaceuticals, Trading
(- ) Chemicals
(OP) \(\diamond\) Up \(¥ 3.6\) billion (+46.0\%) (+) Performance Materials, Agrochemicals, Pharmaceuticals, Trading
(-) Chemicals
(Ordinary Income) \(\downarrow\) Up \(¥ 3.5\) billion (+42.4\%)
(Net Income) \(\diamond\) Up \(¥ 2.0\) billion (+36.6\%)

1Q-3Q FY2012
Non-Operating Income/Expenses, Extraordinary Profit/Loss, Comprehensive Income
(¥billion)
\begin{tabular}{|l|r|r|r|}
\cline { 2 - 4 } \multicolumn{1}{c|}{} & \begin{tabular}{r}
\(1 Q-3 Q\) \\
FY2011
\end{tabular} & \begin{tabular}{c} 
1Q-3Q \\
FY2012
\end{tabular} & \multicolumn{1}{c|}{ Change } \\
\hline Non-Operating Income & 1.70 & 1.57 & -0.13 \\
\hline Interest income & 0.02 & 0.02 & 0.00 \\
\hline Dividend income & 0.50 & 0.44 & -0.06 \\
\hline Others & 1.18 & 1.11 & -0.07 \\
\hline Non-Operating Expenses & 1.25 & 1.21 & -0.04 \\
\hline Interest expense & 0.34 & 0.26 & -0.08 \\
\hline plant stop loss & 0.12 & 0.30 & 0.18 \\
\hline Loss on valuation of securities & 0.01 & 0.26 & 0.25 \\
\hline Others & 0.78 & 0.39 & -0.39 \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|r|}
\hline Extraordinary Profit & 0.65 & - & -0.65 \\
\hline Extraordinary Loss & - & - & - \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|r|}
\hline Com prehens ive Income & 5.18 & 8.06 & 2.88 \\
\hline Net income & 5.58 & 7.61 & 2.03 \\
\hline Minority interests & 0.05 & 0.07 & 0.02 \\
\hline Unrealized gains or losses on investment securities & -0.05 & -0.04 & 0.01 \\
\hline Foreign currency translation adjustments & -0.40 & 0.42 & 0.82 \\
\hline
\end{tabular}

\section*{1Q-3Q FY2012 Cash Flow}
(¥billion)
\begin{tabular}{|l|r|r|}
\cline { 2 - 3 } \multicolumn{1}{l|}{} & \begin{tabular}{c}
\(1 Q-3 Q\) \\
FY2011
\end{tabular} & \begin{tabular}{c}
\(1 Q-3 Q\) \\
FY2012
\end{tabular} \\
\hline CF from operating activities & 22.5 & 24.5 \\
\hline Profit before income tax & 8.7 & 11.5 \\
\hline Depreciation \& Amortization & 7.6 & 6.9 \\
\hline Tax & -6.0 & -4.3 \\
\hline Working capital, others & 12.2 & 10.4 \\
\hline CF from investing activities & -8.6 & -6.4 \\
\hline Purchase of investments in securities & -0.9 & -0.1 \\
\hline Purchase of PPE & -7.4 & -5.4 \\
\hline Others & -0.3 & -0.9 \\
\hline CF from financing activities & -7.4 & -22.1 \\
\hline Dividends paid & -4.1 & -4.0 \\
\hline Borrowings & -3.2 & -13.0 \\
\hline Purchase of treasury shares & 0.0 & -5.0 \\
\hline Others & -0.1 & -0.1 \\
\hline Effect of FX rate changes on cash \& cash equivalents & -0.3 & 0.4 \\
\hline Change in cash \& cash equivalents & 6.2 & -3.6 \\
\hline Cash \& cash equivalents at end of period & 27.4 & 24.3 \\
\hline
\end{tabular}

1Q-3Q FY2012 Balance Sheets
(¥billion)
\begin{tabular}{|l|r|r|r|r|}
\cline { 2 - 5 } \multicolumn{1}{c|}{} & \(2011 / 12\) & \(2012 / 3\) & \(2012 / 12\) & Change \\
\hline Current assets & 108.7 & 118.4 & 106.7 & -11.7 \\
\hline Cash & 27.4 & 27.9 & 24.3 & -3.6 \\
\hline \begin{tabular}{l} 
Accounts \\
receivable
\end{tabular} & 38.8 & 55.5 & 40.7 & -14.8 \\
\hline Inventories & 35.3 & 29.4 & 35.6 & 6.2 \\
\hline Others & 7.2 & 5.6 & 6.1 & 0.5 \\
\hline Fixed assets & 72.4 & 71.7 & 71.8 & 0.1 \\
\hline Total PPE (1) & 45.8 & 44.7 & 44.9 & 0.2 \\
\hline Intangible assets & 2.9 & 2.8 & 2.2 & -0.6 \\
\hline \begin{tabular}{l} 
Investment \\
securities
\end{tabular} & 21.3 & 22.3 & 22.3 & 0.0 \\
\hline Others & 2.4 & 1.9 & 2.4 & 0.5 \\
\hline Total assets & 181.1 & 190.1 & 178.5 & -11.6 \\
\hline
\end{tabular}
\begin{tabular}{lr} 
(1) Increase in PPE & 6.6 \\
Depreciation & -6.2 \\
Retirement & -0.2 \\
\hline \hline Change & 0.2
\end{tabular}
\begin{tabular}{|l|r|r|r|r|}
\cline { 2 - 5 } \multicolumn{1}{l|}{} & \(2011 / 12\) & \(2012 / 3\) & \(2012 / 12\) & Change \\
\hline Liabilities & 67.7 & 70.5 & 59.9 & -10.6 \\
\hline Accounts payable & 19.8 & 17.3 & 19.8 & 2.5 \\
\hline Borrow ings & 36.6 & 38.9 & 26.0 & -12.9 \\
\hline Others & 11.3 & 14.3 & 14.1 & -0.2 \\
\hline Net assets & 113.3 & 119.6 & 118.6 & -1.0 \\
\hline \begin{tabular}{l} 
Shareholders' \\
equity
\end{tabular} & 112.6 & 118.0 & 116.6 & -1.4 \\
\hline \begin{tabular}{l} 
Unrealized gains or losses on \\
investment securites
\end{tabular} & 1.4 & 2.0 & 2.0 & 0.0 \\
\hline \begin{tabular}{l} 
Foreign currency \\
translation adjustments
\end{tabular} & -1.6 & -1.4 & -1.0 & 0.4 \\
\hline \begin{tabular}{l} 
Minority interests
\end{tabular} & 1.0 & 1.0 & 1.1 & 0.1 \\
\hline \multicolumn{1}{|r|}{} & & & \\
\hline \begin{tabular}{l} 
Total liabilities \& \\
Net assets
\end{tabular} & 181.1 & 190.1 & 178.5 & -11.6 \\
\hline \multicolumn{1}{|c|}{ (Equity Ratio) } & \(62.1 \%\) & \(62.4 \%\) & \(65.9 \%\) & \\
\hline
\end{tabular}

Change in shareholders' equity -1.4
\(=\) Net Income 7.6-Dividend 4.0-Increase in Treasury Shares 5.0
(Blank)

FY2011-12 Quarterly Sales by Segment
( \(¥\) billion )
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{} & \multicolumn{4}{|c|}{FY2011} & \multicolumn{4}{|c|}{FY2012} \\
\hline & 1Q & 2Q & 3Q & 1-3Q Total & 1Q & 2Q & 3Q & \begin{tabular}{l}
1-3Q \\
Total
\end{tabular} \\
\hline Chem & 9.4 & 9.2 & 9.0 & 27.6 & 9.1 & 8.8 & 8.9 & 26.8 \\
\hline Fine Chemicals & 3.0 & 2.9 & 2.4 & 8.3 & 2.9 & 2.7 & 2.4 & 8.0 \\
\hline Basic Chemicals & 6.4 & 6.3 & 6.6 & 19.3 & 6.2 & 6.1 & 6.5 & 18.8 \\
\hline Performance Materials & 8.7 & 8.3 & 8.6 & 25.6 & 9.5 & 9.3 & 9.5 & 28.3 \\
\hline Agro & 7.1 & 5.4 & 3.7 & 16.2 & 8.3 & 5.1 & 4.6 & 18.0 \\
\hline Pharma & 2.9 & 2.3 & 2.4 & 7.6 & 3.5 & 1.8 & 3.1 & 8.4 \\
\hline Trading & 11.6 & 10.9 & 10.8 & 33.3 & 11.9 & 10.8 & 12.5 & 35.2 \\
\hline Others & 4.6 & 4.7 & 4.3 & 13.6 & 3.9 & 6.3 & 4.6 & 14.8 \\
\hline Adjustment & -7.7 & -7.6 & -7.3 & -22.6 & -7.8 & -9.4 & -8.6 & -25.8 \\
\hline Total & 36.6 & 33.2 & 31.5 & 101.3 & 38.4 & 32.7 & 34.6 & 105.7 \\
\hline
\end{tabular}

\section*{FY2011-12 Quarterly OP by Segment}
( \(~\) ¥ billion )
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{} & \multicolumn{4}{|c|}{FY2011} & \multicolumn{4}{|c|}{FY2012} \\
\hline & 1Q & 2Q & 3Q & \[
\begin{aligned}
& \text { 1-3Q } \\
& \text { Total }
\end{aligned}
\] & 1Q & 2Q & 3Q & \[
\begin{aligned}
& \text { 1-3Q } \\
& \text { Total }
\end{aligned}
\] \\
\hline Chem & 1.0 & -0.2 & 0.6 & 1.4 & 0.8 & 0.0 & 0.4 & 1.2 \\
\hline Performance Materials & 1.7 & 0.9 & 1.1 & 3.7 & 2.1 & 2.0 & 1.6 & 5.7 \\
\hline Agro & 1.2 & -0.4 & -1.5 & -0.7 & 1.6 & -0.3 & -1.1 & 0.2 \\
\hline Pharma & 1.4 & 1.2 & 1.0 & 3.6 & 1.9 & 0.7 & 1.6 & 4.2 \\
\hline Trading & 0.4 & 0.3 & 0.3 & 1.0 & 0.4 & 0.3 & 0.4 & 1.1 \\
\hline Others & 0.0 & 0.0 & -0.1 & -0.1 & -0.1 & 0.2 & 0.1 & 0.2 \\
\hline Adjustment & -0.5 & -0.4 & -0.4 & -1.3 & -0.4 & -0.6 & -0.5 & -1.5 \\
\hline Total & 5.2 & 1.4 & 1.0 & 7.6 & 6.3 & 2.3 & 2.5 & 11.1 \\
\hline OP Margin & 14.3\% & 4.0\% & 3.4\% & 7.5\% & 16.5\% & 6.8\% & 7.5\% & 10.6\% \\
\hline
\end{tabular}

\section*{Chemicals - (1) Flow Chart of Selected Basic and Fine Chemicals Products}
- Core products of Basic Chemicals : Ammonia related products and sulfuric acid related products

FY2011 ammonia domestic market share 8\%, large percentage of self-consumption of ammonia

\(=\begin{aligned} & \text { Basic } \\ & \text { Chemicals }\end{aligned}\)

(agent used for sterilizing, disinfectant for
 swimming pool and water purification tanks)

\section*{Chemicals - (2) FY2011 Sales Distribution}
< Total Segment > Sales: \(¥ 36.9\) billion

< Total Segment >

< Fine Chemicals > Sales: \(¥ 10.9\) billion

\section*{- Main Products (in order of sales amount)}
\begin{tabular}{|l|}
\hline \multicolumn{1}{|c|}{\(<\) Total Segment > } \\
Melamine \\
Environmental related products \\
TEPIC \\
Ammonia \\
High purity sulfuric acid \\
Sulfuric acid \\
Nitric acid \\
Custom Chemicals \\
Urea including AdBlue \\
Purity sulfuric acid
\end{tabular}
\begin{tabular}{|l|}
\hline \multicolumn{1}{|c|}{ <Fine Chemicals > } \\
Environmental related products \\
TEPIC \\
Custom Chemicals \\
\hline
\end{tabular}
< Basic Chemicals >
Melamine
Ammonia
High purity sulfuric acid
Sulfuric acid
Nitric acid
Urea including AdBlue
Purity sulfuric acid
< Basic Chemicals > Sales: \(¥ 26.0\) billion


\section*{Chemicals - (3) Basic Chemicals Subsegment}
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow{3}{*}{Product} & \multirow{3}{*}{Characteristics and Trend} & \multicolumn{4}{|c|}{Sales YOY Change} \\
\hline & & \multicolumn{3}{|l|}{FY2012 Outlook as of October 2012} & \multirow[t]{2}{*}{\[
\begin{gathered}
\text { 1Q-3Q } \\
\text { FY2012 } \\
\text { Actual }
\end{gathered}
\]} \\
\hline & & 1H
Actual & 2H E & Total & \\
\hline Total Subsegment & & -3\% & +1\% & -1\% & -3\% \\
\hline Melamine & ```
- Mainly used as adhesive agent for particle board, medium density fiberboard, plywood
(1H FY2012)
    Domestic sales slightly up, export declined due to strong yen and weak
    Asian market, vs. 1H 2011
(2H FY2012 E)
    Both domestic and export sales expected to decline vs. 2H FY2011
(10-3Q FY2012)
    Domestic sales up, export down due to strong yen and weak Asian market
``` & -25\% & -14\% & -20\% & -12\% \\
\hline Urea including AdBlue & \begin{tabular}{l}
Urea: mainly used for urea formaldehyde resin, adhesive agent \\
- AdBlue: solution of urea in demineralised water for diesel trucks to reduce NOx \\
Sales increase continuing in 1H and 3 Q v s. FY2011
\end{tabular} & +35\% & +26\% & +30\% & +34\% \\
\hline High purity sulfuric acid & \begin{tabular}{l}
Used to clean semiconductors \\
- Largest in domestic market \\
- Capacity expansion ( \(+15 \%\) ) completed in May 2011 to accommodate increase in demand \\
Sales increase continuing in 1 H and 3 Q vs. FY2011
\end{tabular} & +10\% & +13\% & +12\% & +7\% \\
\hline
\end{tabular}

Four products account for 32\% of total consolidated subsegment sales(FY2011)

\section*{Chemicals - (4) Fine Chemicals Subsegment}
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow{3}{*}{Product} & \multirow{3}{*}{Characteristics and Trend} & \multicolumn{4}{|c|}{Sales YOY Change} \\
\hline & & \multicolumn{3}{|l|}{FY2012 Outlook as of October 2012} & \multirow[t]{2}{*}{} \\
\hline & & \[
\begin{array}{|c|}
\hline 1 \mathrm{H} \\
\text { Actual }
\end{array}
\] & 2H E & Total & \\
\hline \begin{tabular}{l}
Total \\
Subsegment
\end{tabular} & & -5\% & +24\% & +8\% & -4\% \\
\hline TEPIC & \begin{tabular}{l}
Epoxy compound for : \\
(A) electronic materials (solder resist, LED sealant), \\
(B) general applications such as powder coating agent for paint (automobiles, electric appliances) \\
- World largest producer \\
(1H FY2012) \\
Sales for general applications down due to strong yen, sales for electronic materials slightly up, v s. 1H FY2011 \\
(2H FY2012 E) \\
Sales for both general applications and electronic materials up vs. 2H FY2011 \\
(1Q-3Q FY2012) \\
Sales for general applications down due to strong yen, sales for electronic materials flat
\end{tabular} & -5\% & +16\% & +5\% & -6\% \\
\hline Environmental
related
products & \begin{tabular}{l}
- HI-LITE : made from chlorinated isocyanuric acid, used for sterilizing, disinfectant for swimming pool as well as water purification tank \\
(1H FY2012) \\
Weak domestic demand and decrease in export due to strong yen vs. 1H FY2011 \\
(2H FY2012 E) \\
Recovery in demand expected vs. 2H FY2011 \\
(1Q-3Q FY2012) \\
Weak demand continuing in both domestic and export markets
\end{tabular} & -16\% & +16\% & -3\% & -12\% \\
\hline Custom Chemicals & \begin{tabular}{l}
- Custom manufacturing and process researching services for pharmaceutical ingredients and intermediaries from pre-clinical to commercial production stages \\
- New plant completed in July 2010 (capex \(¥ 2.0\) billion) \\
- Increase in work on awarded contracts expected in 1H and 2H FY2012 vs. FY2011 \\
(1Q-3Q FY2012) \\
Sales decreased, but in line with expectations
\end{tabular} & +3\% & +48\% & +23\% & -5\% \\
\hline
\end{tabular}

Three products account for \(80 \%\) of total consolidated subsegment sales (FY2011)

\section*{Chemicals - (5) Profit Overview}
(¥billion)
\begin{tabular}{|c|c|c|c|r|r|r|r|r|r|}
\cline { 2 - 10 } \multicolumn{1}{c|}{} & \multicolumn{3}{c|}{ FY2011 } & \multicolumn{3}{c|}{ FY2012 E } & \multicolumn{3}{c|}{ Change } \\
\cline { 2 - 11 } \multicolumn{1}{c|}{} & \multicolumn{2}{c|}{1 H} & 2H & Total & 1H & \(2 H E\) & Total & 1H & 2H E \\
\multicolumn{1}{c|}{ Total } \\
\hline Sales & 18.6 & 18.3 & 36.9 & 17.9 & 19.6 & 37.5 & -0.7 & 1.3 & 0.6 \\
\hline Fine Chemicals & 5.9 & 5.0 & 10.9 & 5.6 & 6.2 & 11.8 & -0.3 & 1.2 & 0.9 \\
\hline Basic Chemicals & 12.7 & 13.3 & 26.0 & 12.3 & 13.4 & 25.7 & -0.4 & 0.1 & -0.3 \\
\hline
\end{tabular}
\begin{tabular}{|r|r|r|}
\hline FY2011 & FY2012 & Change \\
\hline 1Q-3Q & 1Q-3Q & 1Q-3Q \\
\hline 27.6 & 26.8 & -0.8 \\
\hline 8.3 & 8.0 & -0.3 \\
\hline 19.3 & 18.8 & -0.5 \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|l|l|l|l|l|l|l|}
\hline OP & 0.8 & 0.8 & 1.6 & 0.8 & 1.7 & 2.5 & 0.0 & 0.9 & 0.9 \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|}
\hline 1.4 & 1.2 & -0.2 \\
\hline
\end{tabular}

\section*{1H FY2012 Review <vs. 1H FY2011>}
(Fine Chemicals)
- Custom Chemicals sales up, TEPIC (general applications) and environmental related products sales down
\(\rightarrow\) Fixed cost down
- Sales down, OP flat
(Basic Chemicals)
- Sales of urea, AdBlue, high purity sulfuric acid up, melamine export down
\(\bullet\) Fixed cost down
\(\checkmark\) Sales down, OP flat
(Total Segment)
\(\checkmark\) Sales down \(¥ 0.7\) billion, OP flat

\section*{2H FY 2012 Outlook as of October 2012 <vs. 2H FY2011>}
(Fine Chemicals)
\(\checkmark\) Sales of major products up
Sales up, OP up
(Basic Chemicals)
- Sales of urea, AdBlue, high purity sulfuric acid up, melamine down
- Fixed cost down

Sales up, OP up
(Total Segment)
\(\checkmark\) Sales up \(¥ 1.3\) billion, OP up \(¥ 0.9\) billion

\section*{1Q-3Q FY2012 Review <vs. 1Q-3Q FY2011>}
(Fine Chemicals)
Sales of TEPIC (general applications), environmental related products and Custom Chemicals down
- Custom Chemicals sales down, but in line with expectations
- Fixed cost down
-Sales down, OP down
(Basic Chemicals)
- Sales of urea, AdBlue, high purity sulfuric acid up
- Melamine export down, domestic sales up
- Fixed cost down
\(\checkmark\) Sales down, OP down
(Total Segment)
(Blank)

\section*{Performance Materials - (1) SUNEVER}
\(\checkmark\) Polyimide resin to align liquid crystal molecules in a certain direction
\(\checkmark\) Key component to control reaction speed of image, non erasable residual dots


\section*{Performance Materials - (2) Display Materials}

1H FY 2012 Review
<vs. 1H FY2011>

2H FY 2012 Outlook <vs. 2H FY2011>

Total Display Materials sales up 31\%, SUNEVER sales up 34\%
- Substantial sales increase in IPS/FFS as well as VA, TN sales down
- 3D TV materials sales down due to customers' production cut
- Total Display Materials sales up 10\%, SUNEVER sales up 14\%
- Substantial sale increase in IPS/FFS as well as VA, TN sales down

3D TV materials sales down due to customers' production cut

1Q-3Q FY 2012 Review <vs. 1Q-3Q FY2011>
\(\checkmark\) Total Display Materials sales up 33\%, SUNEVER sales up 37\%
- Substantial sales increase in IPSIFFS as well as VA, TN sales down
- 3D TV materials sales down due to customers' production cut
\begin{tabular}{|l|r|c|c|c|}
\hline \multirow{4}{*}{} & \multicolumn{4}{|c|}{ Sales YOY Change } \\
\cline { 2 - 4 } & \multicolumn{3}{|c|}{\begin{tabular}{c} 
FY2012 Outlook \\
as of October 2012
\end{tabular}} & \begin{tabular}{c} 
1Q-3Q \\
FY2012 \\
Actual
\end{tabular} \\
\cline { 2 - 4 } & \begin{tabular}{c}
1 H \\
Actual
\end{tabular} & 2 H E & Total & +37\% \\
\hline Total SUNEVER & \(+34 \%\) & \(+14 \%\) & \(+24 \%\) & +30 \\
\hline Other Display Materials (1) & \(-23 \%\) & \(-37 \%\) & \(-31 \%\) & \(-33 \%\) \\
\hline Total Display Materials & \(+31 \%\) & \(+10 \%\) & \(+20 \%\) & \(+33 \%\) \\
\hline
\end{tabular}
(1) NHC(protective coating for touch panels), 3D TV materials, etc

Performance Materials - (3) BARC (bottom anti-reflective coating for semiconductor)
Bottom anti-reflective coating for semiconductor lithography for eliminating reflections Demand for ArF increasing as lithography shifts to fine processing technology

\section*{Without BARC}

\section*{With BARC}


\section*{Performance Materials - (4) Semiconductors Materials}

\section*{1H FY 2012 Review} <vs. 1H FY2011>

2H FY 2012 Outlook <vs. 2H FY2011>
- Total Semiconductors Materials sales up 9\%, BARC sales almost flat
- Other semiconductors materials (including multi layer process materials) sales up 139\%
- Total Semiconductors Materials sales up 9\%, BARC sales down 2\%
- KrF sales down, ArF almost flat
- Other semiconductors materials (including multi layer process materials) sales up 155\%

1Q-3Q FY 2012 Review
<vs. 1Q-3Q FY2011>
- Total Semiconductors Materials sales up 8\%, BARC sales flat
- Other Semiconductors Materials (including multi layer process materials) sales up 137\%
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{3}{*}{} & \multicolumn{4}{|c|}{Sales YOY Change} \\
\hline & \multicolumn{3}{|l|}{FY2012 Outlook as of October 2012} & \multirow[t]{2}{*}{\[
\begin{gathered}
\text { 1Q-3Q } \\
\text { FY2012 } \\
\text { Actual }
\end{gathered}
\]} \\
\hline & 1H Actual & 2H E & Total & \\
\hline BARC & +1\% & -2\% & -1\% & +0\% \\
\hline KrF & -2\% & -4\% & -3\% & +2\% \\
\hline ArF (1) & +3\% & -1\% & +1\% & -1\% \\
\hline Other Semiconductors Materials (2) & +139\% & +155\% & +148\% & +137\% \\
\hline Total Semiconductors Materials & +9\% & +9\% & +9\% & +8\% \\
\hline
\end{tabular}
(1) Including Non-BARC application (2) Multi layer process materials, microlens, etc \&Y2012 capex program of NCK (Korean subsidiary) ( approval basis)

\section*{Performance Materials - (5) Inorganic Materials}

High performance


Dominant share in domestic market (SNOWTEX)

\section*{NCl's Advantages}
- Wide variety of grades to accommodate diversified customer's needs
. . - particle diameter, surface treatment, concentration, PH , etc.
< Characteristics >
High transparency
High hydrophilicity
High heat resistance
High electro-conductivity
High hardness
Control refractive index
Increase friction
Increase bonding
Increase viscosity

< Key functions >

< Application Examples >

Coating for plastic optical lenses, metals, plastic films

Catalyst carrier, Binder for ceramics

\section*{Performance Materials - (6) Inorganic Materials}

Inorganic Materials (SNOWTEX, Organo sol)
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow{3}{*}{Product} & \multirow{3}{*}{Characteristics and Trend} & \multicolumn{4}{|r|}{Sales YOY Change (1)} \\
\hline & & \multicolumn{3}{|l|}{FY2012 Outlook as of October 2012} & \multirow[t]{2}{*}{\[
\begin{gathered}
\text { 1Q-3Q } \\
\text { FY2012 } \\
\text { Actual }
\end{gathered}
\]} \\
\hline & & \[
\begin{gathered}
1 \mathrm{H} \\
\text { Actual }
\end{gathered}
\] & 2H E & Total & \\
\hline SNOWTEX & \begin{tabular}{l}
Silica sol mainly for : (A) polishing materials (silicon wafer, aluminum and glass hard disk), (B) non-polishing materials ( NOx reduction catalyst, automobile catalyst, chrome-free electrical steel sheet) \\
- Largest domestic producer \\
- New second plant in Toyama completed in March 2011(capacity +20\% ) \\
(1H FY2012) \\
Sales down due to sluggish demand for both polishing and non-polishing materials (2H FY2012 E) \\
Recov ery of demand for both applications expected compared to 2H FY2011 (1-3Q FY2012) \\
Sales down due to sluggish demand for both polishing and non-polishing materials
\end{tabular} & -8\% & +31\% & +9\% & -5\% \\
\hline \[
\begin{gathered}
\text { Organo } \\
\text { sol }
\end{gathered}
\] & \begin{tabular}{l}
\(\bullet\) Used for hard coating materials, electronic information materials \\
- World largest producer \\
(1H FY2012) \\
Sales down due to sluggish demand \\
(2H FY2012 E) \\
Recovery in demand expected vs. 2H FY2011, but below expectaions as of May (1Q-3Q FY2012) \\
Sales down due to sluggish demand
\end{tabular} & -12\% & +10\% & -2\% & -20\% \\
\hline
\end{tabular}
(1) Non-consolidated basis

\section*{Performance Materials - (7) Profit Overview}
\begin{tabular}{|c|c|r|r|r|r|r|r|r|r|}
\cline { 2 - 9 } \multicolumn{1}{c|}{} & \multicolumn{3}{c|}{ FY2011 } & \multicolumn{3}{c|}{ FY2012 E } & \multicolumn{3}{c|}{ Change } \\
\cline { 2 - 9 } \multicolumn{1}{c|}{} & 1H & 2H & Total & 1H & 2HE & Total & 1H & 2H E & Total \\
\hline \multirow{2}{c|}{ Sales } & 17.0 & 17.0 & 34.0 & 18.8 & 18.9 & 37.7 & 1.8 & 1.9 & 3.7 \\
\hline
\end{tabular}
\begin{tabular}{|r|r|r|}
\multicolumn{1}{c}{} & \multicolumn{2}{c}{ (¥billion) } \\
\hline FY2011 & FY2012 & Change \\
\hline 1Q-3Q & 1Q-3Q & 1Q-3Q \\
\hline 25.6 & 28.3 & 2.7 \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|l|l|l|l|l|l|l|}
\hline OP & 2.6 & 2.2 & 4.8 & 4.1 & 2.6 & 6.7 & 1.5 & 0.4 & 1.9 \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|}
\hline 3.7 & 5.7 & 2.0 \\
\hline
\end{tabular}

\section*{1H FY 2012 Review \\ <vs. 1H FY2011>}

\section*{2H FY 2012 Outlook as of October 2012 \\ <vs. 2H FY2011>}
- SUNEVER sales up (VA,IPS/FFS)
- Total semiconductors materials sales up (BARC flat, other materials up substantially)
- Sales of SNOWTEX and organo sol down
- Fixed cost down
-Sales up \(¥ 1.8\) billion, OP up \(¥ 1.5\) billion

Sales increase in IPS/FFS as well as VA, sales decrease in TN and 3D TV materials
- Total semiconductors materials sales up (BARC down, other semiconductors materials up )
- Sales of SNOWTEX and organo sol up
- Fixed cost up
-Sales up \(¥ 1.9\) billion, OP up \(¥ 0.4\) billion

\section*{1Q-3Q FY2012 Review <vs. 1Q-3Q FY2011>}
- SUNEVER sales up (VA,IPS/FFS up, TN down)
- Total Semiconductors Materials sales up (BARC flat, other materials up substantially)
- Sales of SNOWTEX and organo sol down
- Fixed cost down
-Sales up \(¥ 2.7\) billion, OP up \(¥ 2.0\) billion
(Blank)

\section*{Agrochemicals - (1) Sales Distribution (before discount)}

FY2011 Non-consolidated
Sales Distribution
(before discount)
< Agrochemicals >


\section*{Non-consolidated} Sales YOY Change (before discount)
\begin{tabular}{|c|c|c|}
\multirow{2}{*}{\multicolumn{1}{c|}{}} & \multicolumn{2}{c|}{ (before discount) } \\
\cline { 2 - 3 } \multicolumn{1}{c|}{} & \begin{tabular}{c} 
FY2011 \\
IFY2010
\end{tabular} & \begin{tabular}{c} 
FY2012E \\
IFY2011
\end{tabular} \\
\hline ROUNDUP & & \\
\hline SIRIUS & & \\
\hline PERMIT & & \\
\hline TARGA & & \\
\hline \begin{tabular}{c} 
PULSOR \\
(THIFLUZAMIDE)
\end{tabular} & & \\
\hline \begin{tabular}{c} 
STARMITE
\end{tabular} & & \\
\hline \begin{tabular}{c} 
LEIMAY
\end{tabular} & & \\
\hline \begin{tabular}{c} 
SUTACHLOR
\end{tabular} & & \\
\hline \begin{tabular}{c} 
ALTARMITE \\
(NC-620)
\end{tabular} & & \\
\hline
\end{tabular}

\section*{Agrochemicals - (2)}
- Stable profit center
- Strengthening product portfolio by: in-house developed products, acquired products, licensed-in products
\begin{tabular}{ll} 
(launch) & (products) \\
& \\
(FY2008) & LEIMAY (fungicide, in-house) \\
& STARMITE (miticide, in-house) \\
(FY2009) & PULSOR (THIFLUZAMIDE) (fungicide, acquired from Dow) \\
& PREVATHON (insecticide, licensed from DuPont) \\
(FY2010) & AVH (herbicide, licensed from ZEN-NOH, Bayer and Hokko) \\
(FY2011) & ALTAIR(NC-620) (paddy rice herbicide, launched in Korea, in-house) \\
(FY2012) & ALTAIR(NC-620) (paddy rice herbicide, launched in Japan, in-house) \\
(FY2014) & Animal health product (for pets to exterminate tick and flea, licensing product) \\
(FY2014-16) & Fruits/vegetables/paddy rice insecticide (licensed-in product), \\
& Fruits/vegetables/tea insecticide (licensed-in product), \\
& Fruits/vegetables fungicide (licensed-in product), \\
(FY2019-) & Insecticide (in-house) (New addition)
\end{tabular}
-Full reconstruction of Biological Research Laboratories (FY2010-2015)
- Acquired 3\% share of IHARABRÁS (leading agro company in Brazil) in September 2011 to strengthen R\&D and marketing capabilities in the rapidly growing market in Latin America
- Export sales account for about 20\% of FY2011 non-consolidated segment sales (including sales through Trading segment)
Asia:49\%, Europe,Africa:24\%, North/Central/South America:27\%

\section*{Agrochemicals - (3) Non-consolidated Segment Sales (before discount)}
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{3}{*}{} & \multicolumn{4}{|l|}{Non-consolidated Sales YOY Change (before discount)} \\
\hline & \multicolumn{3}{|c|}{FY2012 Outlook as of October 2012} & \multirow[t]{2}{*}{\[
\begin{gathered}
\text { 1Q-3Q } \\
\text { FY2012 } \\
\text { Actual }
\end{gathered}
\]} \\
\hline & \[
\begin{gathered}
\text { 1H } \\
\text { Actual }
\end{gathered}
\] & 2H E & FY2012 E & \\
\hline ROUNDUP & +12\% & +3\% & +6\% & +16\% \\
\hline Except ROUNDUP & +4\% & +1\% & +2\% & +8\% \\
\hline Total Segment & +6\% & +2\% & +3\% & +9\% \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|}
\hline \multirow[t]{2}{*}{} & \multicolumn{2}{|l|}{NCI Non-consolidated
Sales Distribution(before discount)} \\
\hline & FY2010 & FY2011 \\
\hline Fungicide + Insecticide & 3\% & 2\% \\
\hline Insecticide & 19\% & 18\% \\
\hline Fungicide & 11\% & 13\% \\
\hline Herbicide & 62\% & 65\% \\
\hline Plant growth regulator & 2\% & 2\% \\
\hline Others & 2\% & 1\% \\
\hline
\end{tabular}

\section*{Agrochemicals - (4) Profit Overview}
\begin{tabular}{|c|c|r|r|r|r|r|r|r|r|}
\cline { 2 - 9 } \multicolumn{1}{c|}{} & \multicolumn{3}{c|}{2011} & \multicolumn{3}{c|}{2012 E } & \multicolumn{3}{c|}{ Change } \\
\cline { 2 - 9 } \multicolumn{1}{c|}{} & 1 H & 2 H & Total & 1 H & 2 HE & Total & 1H & 2HE & Total \\
\hline Sales & 12.5 & 21.3 & 33.8 & 13.4 & 21.7 & 35.1 & 0.9 & 0.4 & 1.3 \\
\hline
\end{tabular}
\begin{tabular}{|c|r|r|}
\hline FY2011 & FY2012 & Change \\
\hline \(1 Q-3 Q\) & \(1 Q-3 Q\) & \(1 Q-3 Q\) \\
\hline 16.2 & 18.0 & 1.8 \\
\hline
\end{tabular}
\begin{tabular}{|c|l|l|l|l|l|l|l|l|l|}
\hline OP & 0.8 & 3.6 & 4.4 & 1.3 & 3.5 & 4.8 & 0.5 & -0.1 & 0.4 \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|}
\hline-0.7 & 0.2 & 0.9 \\
\hline
\end{tabular}

\section*{1H FY 2012 Review \\ <vs. 1H FY2011>}
- Sales of STARMITE, LEIMAY,ROUNDUP, PULSOR up
- Fixed cost up
-Sales up \(¥ 0.9\) billion, \(O P\) up \(¥ 0.5\) billion

\section*{2H FY 2012 Outlook as of October 2012 <vs. 2H FY2011>}
- ALTAIR to be launched in Japan in December 2012 Sales of STARMITE, LEIMAY,ROUNDUP up, SIRIUS down Milestones on the animal health product expected
- Fixed cost up (depreciation expenses of ALTAIR facilities and new Biological Research Lab up )
- Sales up \(¥ 0.4\) billion, OP down \(¥ 0.1\) billion

\section*{1Q-3Q FY2012 Review \\ <vs. 1Q-3Q FY2011>}
- Except Sirius, sales of major products up including some shipments shfited from 4Q
- ALTAIR (NC-620) to be launched in Japan in February 2013
- Milestones on the animal health product received
- Fixed cost up (depreciation expenses of new Biological Research Lab up )
- Sales up \(¥ 1.8\) billion, OP up \(¥ 0.9\) billion

\section*{Pharmaceuticals - (1) NCI Business Model}
- Steadily expanding segment in mid-term perspective
- Unique ethical pharma business model without sales force
\[
<\text { Before Launch }>\longrightarrow<\text { After Launch }>
\]

Upfront Payment, Development Milestone


Bulk Sales Revenues, Sales Milestone Royalty


\section*{Pharmaceuticals - (2) LIVALO (anti-cholesterol drug)}
-Domestic market share up steadily
(about19\% in 1H FY2012, FY2012 target raised from 18\% to 20\%)
-Sales started in USA in June 2010, co-distribution by Kowa and Eli Lilly
Sales started in Europe in 2011 (Spain in May, Portugal in June)

FY2011
Market share
Lipitor 35\%
Crestor 27\%
Livalo 17\%
Mevalotin 13\%
-FY2012 NHI drug price cut 8\% (last cut in FY2010)
- New plant completed in March 2011, commercial production started in May FY2012
\&Full reconstruction of Biological Research Laboratories (FY2010-2015)


\section*{Pharmaceuticals - (3) LIVALO World Wide Strategy \& Pipeline}

LIVALO World Wide Strategy
\begin{tabular}{|c|c|c|c|}
\hline Country/Region & Developing Status & Launch (schedule) & Business Partner \\
\hline Japan & Launched & Sep 2003 & Kowa, Daiichi-Sankyo \\
\hline Korea & Launched & Jul 2005 & JW Pharmaceutical \\
\hline Thailand & Launched & Jan 2008 & Biopharm-Chemical \\
\hline China & Launched & Jul 2009 & Kowa Shanghai \\
\hline USA & Launched & Jun 2010 & Kowa(KPA), Eli Lilly \\
\hline Spain & Launched & May 2011 & Kowa(KPE), Recordati \\
\hline Portugal & Launched & June 2011 & Kowa(KPE), Recordati \\
\hline Mexico & Launched & Feb 2012 & Eli Lilly \\
\hline Indonesia & Launched & May 2012 & Indonesia Tanabe \\
\hline Taiwan & Launched & June 2012 & Taiwan Tanabe \\
\hline France & Approved & 2012 & Kowa(KPE), Recordati \\
\hline Italy & Approved & 2012 & Kowa(KPE), Recordati \\
\hline Australia & Approved & 2012 & Abbott \\
\hline
\end{tabular}

Other approved countries : Ireland, Cyprus, Greece, Switzerland, Turkey, Poland, Austria, etc.
\(\rightarrow\) Pipeline
\begin{tabular}{|c|c|c|c|c|c|}
\hline Product & & Market & Developing Status & Licensee & Expected Market Size ( \(¥\) billion) \\
\hline \multirow[t]{2}{*}{NT-702} & \multirow{2}{*}{Japan} & Intermittent claudication & \multirow{2}{*}{Phase II} & \multirow{2}{*}{Taisho} & 20-30 \\
\hline & & Asthma & & & 20 \\
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
NTC-801 \\
(Anti-arrhythmic agent)
\end{tabular}} & \multicolumn{2}{|l|}{Japan} & Phase II & Teijin & 1 million patients (2015) \\
\hline & \multicolumn{2}{|l|}{World wide (except Japan)} & Phase II & BMS & 8.4 million patients (2015) \\
\hline \multicolumn{3}{|l|}{NIP-022 (Platelet generating stimulator agent)} & Phase I & Ono & 0.35million patients (2015 in Japan) \\
\hline
\end{tabular}

\section*{Pharmaceuticals - (4) Profit Overview}
(¥billion)
\begin{tabular}{|c|r|r|r|r|r|r|r|r|r|}
\cline { 2 - 9 } \multicolumn{1}{c|}{} & \multicolumn{3}{c|}{2011} & \multicolumn{3}{c|}{2012 E } & \multicolumn{3}{c|}{ Change } \\
\cline { 2 - 9 } \multicolumn{1}{c|}{} & \multicolumn{1}{c|}{1 H} & \multicolumn{1}{|c|}{ Total } & 1H & 2H E & Total & 1H & 2H E & Total \\
\hline Sales & 5.2 & 4.8 & 10.0 & 5.3 & 4.3 & 9.6 & 0.1 & -0.5 & -0.4 \\
\hline
\end{tabular}
\begin{tabular}{|r|r|r|}
\hline FY2011 & FY2012 & Change \\
\hline 1Q-3Q & 1Q-3Q & \(1 Q-3 Q\) \\
\hline 7.6 & 8.4 & 0.8 \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|l|l|l|l|l|l|l|}
\hline OP & 2.6 & 2.0 & 4.6 & 2.6 & 1.7 & 4.3 & 0.0 & -0.3 & -0.3 \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|}
\hline 3.6 & 4.2 & 0.6 \\
\hline
\end{tabular}

\section*{1H FY 2012 Review \\ <vs. 1H FY2011>}
- LIVALO

National Health Insurance drug price cut 8\%
Domestic and export sales volume up
Variable cost down by new plant
- No milestones
\(\checkmark\) Sales up \(¥ 0.1\) billion,
( LIVALO+0.7, milestones-0.4, others-0.2), OP flat

\section*{2H FY 2012 Outlook as of October 2012 <vs. 2H FY2011>}
- LiVALO export up, domestic sales down
- Sales down \(¥ 0.5\) billion (LIVALO-0.2, others-0.3), OP down \(¥ 0.3\) billion

\section*{1Q-3Q FY2012 Review <vs. 1Q-3Q FY2011>}
- Domestic and export LIVALO sales up including some shipments shfited from 4Q
- New LIVALO plant contributing to variable cost cut
- No milestones received as expected
- Sales up \(¥ 0.8\) billion, OP up \(¥ 0.6\) billion

\section*{Trading - Profit Overview}

Mainly import raw and intermediate materials and export products for NCl group
(¥billion)
\begin{tabular}{|c|c|r|r|r|r|r|r|r|r|}
\cline { 2 - 9 } \multicolumn{1}{c|}{} & \multicolumn{3}{c|}{ FY2011 } & \multicolumn{3}{c|}{ FY2012 E } & \multicolumn{3}{c|}{ Change } \\
\cline { 2 - 9 } \multicolumn{1}{c|}{} & 1H & 2H & Total & 1H & 2H E & Total & 1H & 2H E & Total \\
\hline Sales & 22.5 & 22.3 & 44.8 & 22.7 & 25.3 & 48.0 & 0.2 & 3.0 & 3.2 \\
\hline
\end{tabular}
\begin{tabular}{|r|r|r|}
\hline FY2011 & FY2012 & Change \\
\hline 1Q-3Q & 1Q-3Q & 1Q-3Q \\
\hline 33.3 & 35.2 & 1.9 \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|l|l|l|l|l|l|l|}
\hline OP & 0.7 & 0.6 & 1.3 & 0.7 & 0.8 & 1.5 & 0.0 & 0.2 & 0.2 \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|}
\hline 1.0 & 1.1 & 0.1 \\
\hline
\end{tabular}

\section*{1H FY 2012 Review}
<vs. 1H FY2011>
- Sales up , but OP flat due to changes in product mix
- Sales up \(¥ 0.2\) billion, OP flat

2H FY 2012 Outlook as of October 2012
<vs. 2H FY2011>
- Sales and OP up with increase in trading volume
- Sales up \(¥ 3.0\) billion, OP up \(¥ 0.2\) billion

\section*{1Q-3Q FY2012 Review <vs. 1Q-3Q FY2011>}
\(\checkmark\) Sales related to Performance Materials Segment and Pharmaceuticals Segment up
\(\checkmark\) Sales up \(¥ 1.9\) billion, OP up \(¥ 0.1\) billion
(Blank)

\section*{Capex/Depreciation/R\&D by Segment}
(¥billion)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & \multicolumn{5}{|c|}{Capex(1)} & \multicolumn{5}{|c|}{Depreciation(2)} & \multicolumn{5}{|c|}{R\&D expenses} & \\
\hline & 2008 & 2009 & 2010 & 2011 & 2012E & 2008 & 2009 & 2010 & 2011 & 2012E & 2008 & 2009 & 2010 & 2011 & 2012E & \% of Sales \\
\hline Chem & & & 1.9 & 1.6 & 1.0 & & & 3.4 & 2.5 & 2.0 & & & 0.8 & 0.8 & 0.7 & 1.9\% \\
\hline Perf. Materials & - & - & 3.7 & 2.2 & 3.0 & - & - & 4.1 & 4.3 & 3.8 & - & & 5.6 & 6.2 & 6.5 & 17.2\% \\
\hline Agro & - & - & 0.4 & 2.1 & 2.1 & - & & 1.9 & 1.8 & 2.0 & & & 2.6 & 2.8 & 2.8 & 8.0\% \\
\hline Pharma & - & - & 2.4 & 1.7 & 0.6 & - & - & 0.3 & 1.0 & 1.2 & - & & 2.4 & 2.5 & 2.5 & 26.0\% \\
\hline Trading & - & - & 0.2 & 0.1 & 0.1 & - & - & 0.1 & 0.1 & 0.1 & - & - & 0.0 & 0.0 & 0.0 & 0.0\% \\
\hline Others & - & & 1.0 & 0.6 & 0.5 & - & - & 0.6 & 0.8 & 0.4 & & & 1.2 & 1.3 & 1.3 & \\
\hline Total & 13.9 & 10.1 & 9.6 & 8.3 & 7.3 & 10.2 & 11.0 & 10.4 & 10.5 & 9.5 & 13.7 & 13.1 & 12.6 & 13.6 & 13.8 & \\
\hline & & & & & & & Q ex & pense & s/Sal & es (\%) & 8.6\% & 8.8\% & 8.2\% & 9.2\% & 8.9\% & \\
\hline
\end{tabular}
(1) Capex

Actual - Acceptance basis
Outlook - Production commencement basis
(2) Depreciation Method

SUNEVER, BARC- 4 year declining balance method ( \(50.0 \%\) of initial capex amount in the \(1^{\text {st }}\) year) Other products - 8 year declining balance method ( \(25.0 \%\) of initial capex amount in the \(1^{\text {st }}\) year)
\begin{tabular}{|l|r|}
\hline R\&D Personnel (Sept. 2012) -(1) & 420 \\
\hline Total Professionals (Sept. 2012) -(2) & 1,026 \\
\hline (1)/(2) & \(41 \%\) \\
\hline
\end{tabular}

\section*{FY2012 Main Capex Items (Approval basis)}
\begin{tabular}{|l|r|}
\hline \multicolumn{2}{|c|}{ ( \(¥\) billion) } \\
\hline High purity ammonia & 0.3 \\
\hline SUNEVER(NCK) & 1.9 \\
\hline BARC(NCK) & 0.9 \\
\hline \begin{tabular}{l} 
Electronic Materials Labo \\
(Building)
\end{tabular} & 2.9 \\
\hline \begin{tabular}{l} 
Electronic Materials Labo \\
(Instruments)
\end{tabular} & 0.8 \\
\hline Biological Research Labo & 0.9 \\
\hline
\end{tabular}

\section*{Financial Strategy - (1) Purchase of Treasury Shares}
- Started purchase of treasury shares in 2006 to enhance ROE
\(\checkmark\) Purchased \(¥ 25.5\) billion, 22.8 million shares ( \(\mathbf{1 2 . 2 \%}\) of shares issued) in total
- Cancelled all purchased shares

\section*{Record of purchase of treasury shares FY2006-12}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline & FY2006 & FY2007 & FY2008 & FY2009 & FY2010 & FY2011 & FY2012 & \[
\begin{gathered}
\hline \text { FY2006- } \\
\text { FY2012 } \\
\text { Total } \\
\hline
\end{gathered}
\] \\
\hline Shares purchased (thousand shares) & 3,500 & 3,399 & 7,355 & 0 & 2,167 & 0 & 6,372 & 22,793 \\
\hline Purchase costs (\# billion) & 4.7 & 5.0 & 8.0 & 0 & 2.8 & 0 & 5.0 & 25.5 \\
\hline Shares cancelled (thousand shares) & 3,000 & 3,635 & 7,000 & 0 & 3,000 & 0 & 6,000 (1) & 22,635 \\
\hline Shares issued at FY end (thousand shares) & 184,635 & 181,000 & 174,000 & 174,000 & 171,000 & 171,000 & 165,000 (1) & \\
\hline Treasury share at FY end (thousand shares) & 1,367 & 1,233 & 1,660 & 1,709 & 885 & 886 & & \\
\hline Dividend ( \(¥\) billion) & 3.7 & 3.6 & 3.8 & 4.2 & 4.1 & 4.1 & 4.0 (2) & \\
\hline Dividend ( \(\#\) I Share) & 20 & 20 & 22 & 24 & 24 & 24 & 24 (2) & \\
\hline Total payout ratio (dividend + purchase of treasury shares) (\%) & 61 & 56 & 117 & 32 & 53 & 37 & 72 (2) & \\
\hline
\end{tabular}
(1) 6 million shares to be cancelled on February 28, 2013 (Notice on February 19, 2013)
(2) Pro forma figures based on FY2012 outlook as of October 2012

\section*{Financial Strategy - (2) 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 (added for FY2011)
(non-consolidated basis)

\section*{Growth Engine Candidates}

\section*{< Performance Materials >}
< Display >
Photo alignment
VA, IPS/FFS


> Hole injection layer material for OLED

Planarizing and insulating layer material for OLED

\section*{< Semiconductor >}


\section*{< Agrochemicals >}
< Products to be launched within 2-3 years >

< Licensed-In products >
< Pharmaceuticals >
< Following pipeline >

(Blank)

\section*{Brief History of NCI's R\&D}


\section*{NCI's Technology Link}


\title{
FY2010-3Q FY2012 Quarterly Sales by Segment
}
(New Segmentation)(1)
(¥billion)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{} & \multicolumn{5}{|c|}{FY2010} & \multicolumn{5}{|c|}{FY2011} & \multicolumn{3}{|c|}{FY2012} \\
\hline & 1Q & 2Q & 3Q & 4Q & Total & 1Q & 2Q & 3Q & 4Q & Total & 1Q & 2Q & 3Q \\
\hline Chem & 9.6 & 8.9 & 9.8 & 9.8 & 38.1 & 9.4 & 9.2 & 9.0 & 9.3 & 36.9 & 9.1 & 8.8 & 8.9 \\
\hline Fine & 3.3 & 2.8 & 2.5 & 2.7 & 11.3 & 3.0 & 2.9 & 2.4 & 2.6 & 10.9 & 2.9 & 2.7 & 2.4 \\
\hline Basic Chemicals & 6.3 & 6.1 & 7.3 & 7.1 & 26.8 & 6.4 & 6.3 & 6.6 & 6.7 & 26.0 & 6.2 & 6.1 & 6.5 \\
\hline Performance Materials & 10.4 & 9.3 & 9.0 & 9.3 & 38.0 & 8.7 & 8.3 & 8.6 & 8.4 & 34.0 & 9.5 & 9.3 & 9.5 \\
\hline Agro & 6.9 & 5.1 & 4.4 & 18.0 & 34.4 & 7.1 & 5.4 & 3.7 & 17.6 & 33.8 & 8.3 & 5.1 & 4.6 \\
\hline Pharma & 2.5 & 2.3 & 2.1 & 2.7 & 9.6 & 2.9 & 2.3 & 2.4 & 2.4 & 10.0 & 3.5 & 1.8 & 3.1 \\
\hline Trading & 10.7 & 10.5 & 11.8 & 11.1 & 44.1 & 11.6 & 10.9 & 10.8 & 11.5 & 44.8 & 11.9 & 10.8 & 12.5 \\
\hline Others & 6.5 & 4.6 & 4.3 & 11.6 & 27.0 & 4.6 & 4.7 & 4.3 & 6.4 & 20.0 & 3.9 & 6.3 & 4.6 \\
\hline Adjustment & -7.6 & -7.6 & -8.7 & -13.1 & -37.0 & -7.7 & -7.6 & -7.3 & -8.3 & -30.9 & -7.8 & -9.4 & -8.6 \\
\hline Total & 39.0 & 33.1 & 32.7 & 49.4 & 154.2 & 36.6 & 33.2 & 31.5 & 47.3 & 148.6 & 38.4 & 32.7 & 34.6 \\
\hline
\end{tabular}
(1) FY2010 are restated based on new segmentation

\section*{FY2010-3Q FY2012 Quarterly OP by Segment}
(New Segmentation)(1)
(¥billion)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{} & \multicolumn{5}{|c|}{FY2010} & \multicolumn{5}{|c|}{FY2011} & \multicolumn{3}{|c|}{FY2012} \\
\hline & 1Q & 2Q & 3Q & 4Q & Total & 1Q & 2Q & 3Q & 4Q & Total & 1Q & 2Q & 3Q \\
\hline Chem & 1.1 & -0.5 & 0.9 & 0.9 & 2.4 & 1.0 & -0.2 & 0.6 & 0.2 & 1.6 & 0.8 & 0.0 & 0.4 \\
\hline Performance Materials & 2.6 & 2.3 & 1.6 & 1.4 & 7.9 & 1.7 & 0.9 & 1.1 & 1.1 & 4.8 & 2.1 & 2.0 & 1.6 \\
\hline Agro & 0.8 & 0.0 & -1.4 & 5.4 & 4.8 & 1.2 & -0.4 & -1.5 & 5.1 & 4.4 & 1.6 & -0.3 & -1.1 \\
\hline Pharma & 1.2 & 0.9 & 1.1 & 1.2 & 4.4 & 1.4 & 1.2 & 1.0 & 1.0 & 4.6 & 1.9 & 0.7 & 1.6 \\
\hline Trading & 0.4 & 0.3 & 0.4 & 0.3 & 1.4 & 0.4 & 0.3 & 0.3 & 0.3 & 1.3 & 0.4 & 0.3 & 0.4 \\
\hline Others & 0.1 & 0.0 & -0.1 & 1.0 & 1.0 & 0.0 & 0.0 & -0.1 & 0.4 & 0.3 & -0.1 & 0.2 & 0.1 \\
\hline Adjustment & -0.4 & -0.5 & -0.3 & -0.9 & -2.1 & -0.5 & -0.4 & -0.4 & -0.2 & -1.5 & -0.4 & -0.6 & -0.5 \\
\hline Total & 5.8 & 2.5 & 2.2 & 9.3 & 19.8 & 5.2 & 1.4 & 1.0 & 7.9 & 15.5 & 6.3 & 2.3 & 2.5 \\
\hline
\end{tabular}
(1) FY2010 are restated based on new segmentation

\section*{FY2009-10 Quarterly Sales by Segment}

\section*{(Former Segmentation)}
(¥billion)
\begin{tabular}{|l|r|r|r|r|r|r|r|r|r|r|}
\cline { 2 - 14 } \multicolumn{1}{c|}{} & \multicolumn{5}{c|}{ FY2009 } & \multicolumn{5}{c|}{ FY2010 } \\
\cline { 2 - 15 } \multicolumn{1}{c|}{} & \multicolumn{4}{c|}{\(1 Q\)} & \multicolumn{1}{c|}{2 Q} & \multicolumn{1}{c|}{3 Q} & 4 Q & Total & 1 Q & 2Q \\
\multicolumn{1}{c|}{3 Q} & 4 Q & Total \\
\hline Chem & 11.3 & 10.8 & 12.0 & 12.0 & 46.1 & 12.7 & 11.8 & 12.4 & 12.7 & 49.6 \\
\hline Organic/Inorganic Materials & 4.5 & 4.5 & 5.0 & 5.2 & 19.2 & 5.4 & 5.0 & 4.8 & 5.1 & 20.3 \\
\hline Basic Chemicals & 6.8 & 6.3 & 7.0 & 6.8 & 26.9 & 7.3 & 6.8 & 7.6 & 7.6 & 29.3 \\
\hline Electronic Materials & 6.4 & 6.8 & 6.8 & 6.6 & 26.6 & 7.3 & 6.4 & 6.3 & 6.2 & 26.2 \\
\hline Agro & 8.0 & 3.7 & 3.7 & 18.4 & 33.8 & 6.9 & 5.1 & 4.4 & 18.0 & 34.4 \\
\hline Pharma & 2.2 & 2.8 & 2.9 & 1.6 & 9.5 & 2.5 & 2.3 & 2.1 & 2.7 & 9.6 \\
\hline Trading & 10.3 & 9.8 & 10.4 & 10.8 & 41.3 & 10.7 & 10.5 & 11.8 & 11.1 & 44.1 \\
\hline Others & 8.2 & 5.1 & 7.0 & 7.1 & 27.4 & 6.5 & 4.6 & 4.3 & 11.6 & 27.0 \\
\hline Adjustment & -11.1 & -7.5 & -9.1 & -8.0 & -35.7 & -7.6 & -7.6 & -8.6 & -12.9 & -36.7 \\
\hline Total & 35.3 & 31.5 & 33.7 & 48.5 & 149.0 & 39.0 & 33.1 & 32.7 & 49.4 & 154.2 \\
\hline
\end{tabular}

\section*{FY2009-10 Quarterly OP by Segment}

\section*{(Former Segmentation)}
(\#billion)
\begin{tabular}{|l|r|r|r|r|r|r|r|r|r|r|}
\cline { 2 - 12 } \multicolumn{1}{c|}{} & \multicolumn{5}{c|}{} & \multicolumn{6}{c|}{ FY2009 } & \multicolumn{4}{c|}{ FY2010 } \\
\cline { 2 - 13 } \multicolumn{1}{c|}{} & 1Q & \multicolumn{1}{c|}{ 2Q } & \multicolumn{1}{c|}{ 3Q } & 4Q & Total & 1Q & 2Q & 3Q & 4Q & Total \\
\hline Chem & 1.2 & -0.7 & 1.0 & 1.1 & 2.6 & 1.6 & 0.2 & 1.1 & 1.2 & 4.1 \\
\hline Electronic Materials & 2.1 & 2.6 & 1.3 & 1.3 & 7.3 & 2.1 & 1.7 & 1.4 & 1.0 & 6.2 \\
\hline Agro & 1.0 & -0.7 & -1.3 & 5.7 & 4.7 & 0.8 & 0.0 & -1.3 & 5.3 & 4.8 \\
\hline Pharma & 1.2 & 1.5 & 1.5 & 0.4 & 4.6 & 1.2 & 0.9 & 1.0 & 1.3 & 4.4 \\
\hline Trading & 0.2 & 0.3 & 0.3 & 0.3 & 1.1 & 0.4 & 0.3 & 0.4 & 0.3 & 1.4 \\
\hline Others & 0.5 & -0.1 & 0.2 & 0.4 & 1.0 & 0.1 & 0.0 & -0.1 & 1.0 & 1.0 \\
\hline Adjustment & -0.9 & -0.4 & -0.6 & -0.2 & -2.1 & -0.4 & -0.6 & -0.3 & -0.8 & -2.1 \\
\hline Total & 5.3 & 2.5 & 2.4 & 9.0 & 19.2 & 5.8 & 2.5 & 2.2 & 9.3 & 19.8 \\
\hline
\end{tabular}

\section*{Main Products by Segment (New Segmentation)}
\begin{tabular}{|c|c|c|}
\hline Segment & Products & Main Applications \\
\hline \multirow[t]{2}{*}{Chem} & Fine Chemicals TEPIC Melamine cyanurate Environmetal product Custom Chemicals & \begin{tabular}{l}
epoxy compound for LED sealants, solder resist, painting flame retardant \\
HI-LITE (chlorinated isocyanuric acid for sterilizing) \\
custom manufacturing and process services for pharmaceutical companies
\end{tabular} \\
\hline & \begin{tabular}{l}
Basic Chemicals \\
Melamine \\
AdBlue \\
Ammonia, Sulfuric acid, Nitric acid Highpurity chemicals
\end{tabular} & adhesive agent for plywood solution of urea in demineralised water for diesel trucks to reduce NOX agents used for cleaning semiconductors \\
\hline \multirow[t]{2}{*}{Performance Materials} & Electronic Materials SUNEVER BARC NHC Micro lens & LCD alignment coating bottom anti-reflective coating for semiconductors protective coating for touch panel microlens material for image sensor application \\
\hline & \begin{tabular}{l}
Inorganic Materials SNOWTEX \\
Organo sillica sol Alumina sol SUNCOLLOID CELNAX
\end{tabular} & water dispersed colloidal sillica sol for polishing sillicon wafers, electrical steel sheets, NOx reduction catalyst, electronic printing materials film coating, antistatic interference shielding, electronic printing materials automotive catalyst, electronic printing materials high refractive sol for lens antistatic sol for film \\
\hline Agro & \begin{tabular}{l}
Herbicide \\
TARGA \\
PERMIT \\
SIRIUS, ALTAIR(NC-620) \\
ROUNDUP \\
Insecticide \\
STARMITE, SANMITE, MITOKOHNE \\
Fungicide \\
LEIMAY \\
PULSOR, IKARUGA, GREATAM \\
(THIFLUZAMIDE)
\end{tabular} & \begin{tabular}{l}
soybean, rapeseed, sugarbeet corn, sugarcane, rice paddy rice non-selective herbicide for orchard, noncrop land \\
fruits,tea, vegetables \\
potato, grape, turf
\end{tabular} \\
\hline Pharma & LIVALO & Anti-cholesterol drug \\
\hline Trading & Nissei Corporation & \\
\hline Others & \multicolumn{2}{|l|}{Transportation, Landscaping, Engineering, Fertilizer} \\
\hline
\end{tabular}

\section*{Main Products by Segment (Former Segmentation)}
\begin{tabular}{|c|c|c|}
\hline Segment & Products & Main Applications \\
\hline \multirow[t]{3}{*}{Chem} & Organic Materials TEPIC Custom Chemicals Melamine cyanurate & epoxy compound for LED sealants, solder resist, painting custom manufacturing and process services for pharmaceutical companies flame retardant \\
\hline & \begin{tabular}{l}
Inorganic Materials SNOWTEX \\
Organo sillica sol Alumina sol SUNCOLLOID CELNAX
\end{tabular} & \begin{tabular}{l}
water dispersed colloidal sillica sol for polishing sillicon wafers, electrical steel sheets, NOx reduction catalyst, electronic printing materials \\
film coating, antistatic interference shielding, electronic printing materials automotive catalyst, electronic printing materials \\
high refractive sol for lens antistatic sol for film
\end{tabular} \\
\hline & \begin{tabular}{l}
Basic Chemicals \\
Melamine \\
AdBlue \\
Environmetal product \\
Ammonia, Sulfuric acid, Nitric acid Highpurity chemicals
\end{tabular} & \begin{tabular}{l}
adhesive agent for plywood solution of urea in demineralised water for diesel trucks to reduce NOX HI-LITE (chlorinated isocyanuric acid for sterilizing) \\
agents used for cleaning semiconductors
\end{tabular} \\
\hline Electronic Materials & \begin{tabular}{l}
SUNEVER \\
BARC \\
NHC \\
Micro lens
\end{tabular} & LCD alignment coating bottom anti-reflective coating for semiconductors protective coating for touch panel microlens material for image sensor application \\
\hline Agro & ```
Herbicide
TARGA
PERMIT
SIRIUS, ALTAIR(NC-620)
ROUNDUP
Insecticide
STARMITE, SANMITE, MITOKOHNE
Fungicide
LEIMAY
PULSOR, IKARUGA, GREATAM
    (THIFLUZAMIDE)
``` & \begin{tabular}{l}
soybean, rapeseed, sugarbeet \\
corn, sugarcane, rice \\
paddy rice non-selective herbicide for orchard, noncrop land \\
fruits,tea, vegetables \\
potato, grape, turf
\end{tabular} \\
\hline Pharma & LIVALO & Anti-cholesterol drug \\
\hline Trading & Nissei Corporation & \\
\hline Others & Transportation, Landscaping, Engine & ring, Fertilizer \\
\hline
\end{tabular}

\section*{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.```

