## TOKYO OHKA KOGYO CO., LTD. Business Results

## - The 1st Half of Fiscal Year ending March 2017-

November 8, 2016

## Contents

1. Consolidated Business Results for p. 2 the 1st Half of FY2017
2. Consolidated Performance Forecasts for p. 12 FY2017
3. Topics
p. 19

- Initiatives under TOK Medium-Term Plan 2018 -


## Consolidated Business Results for the 1st Half of FY2017

## Summary

(Millions of yen)

|  | FY2016/1H | FY2017/1H |  |  |
| :--- | ---: | ---: | ---: | ---: |
|  |  |  | Change | $\%$ |
| Net sales | 44,805 | 42,897 | $(1,908)$ | $(4.3)$ |
| Operating income | 7,271 | 5,383 | $(1,887)$ | $(26.0)$ |
| Ordinary income | 7,441 | 4,803 | $(2,638)$ | $(35.4)$ |
| Profit attributable to <br> owners of parent | 4,898 | 3,303 | $(1,595)$ | $(32.6)$ |

- Average exchange rate (US\$): $¥ 120.8 / \$(F Y 2016 / 1 H) \Rightarrow ¥ 103.8 / \$$ (FY2017/1H)
- Net Sales: Decreased due to impact of yen's appreciation in addition to decline in high purity chemicals sales.
- Operating Income: Decreased 26.0\% due to yen's appreciation despite largely exceeding the initial forecast (on May 10, 2016.)
- Ordinary Income: Decreased $35.4 \%$ due to an increase in foreign exchange loss.

Non-operating expenses or incomee/Extraordinary losses or income
(Millions of yen)

|  | FY2016/1H | FY2017/1H | YoY |
| :---: | ---: | ---: | ---: |
| Non-operating expenses or income | 170 | $(579)$ | $(750)$ |
| Interest and dividend income | +157 | +130 | $(26)$ |
| (Difference profit and loss to exchange) | $(\Delta 94)$ | $(\Delta 891)$ | $(\Delta 797)$ |
| Exchange gain and loss | $(37)$ | $(1,427)$ | $(1,389)$ |
| Derivative appraisal profit or loss | $(57)$ | +535 | +592 |
| Preparation expenses | $(85)$ | - | +85 |
| Extraordinary losses or income | $(57)$ | 162 | $+\mathbf{+ 2 2 0}$ |
| Gain on sale of investment securities | 0 | +265 | $+\mathbf{+ 2 6 5}$ |
| Impairment loss | $(51)$ | - | +51 |
| Losses due to disasters | - | $(91)$ | $(91)$ |

## Results by Business Segment

(Millions of yen)

|  | FY2016/1H | FY2017/1H |  |  |
| :--- | ---: | ---: | ---: | ---: |
|  |  |  | Change | \% |
| Net sales | 44,805 | 42,897 | $(1,908)$ | $(4.3)$ |
| Material Business | 43,835 | 41,576 | $(2,259)$ | $(5.2)$ |
| Electronic functional materials | 25,420 | 25,822 | +402 | +1.6 |
| High purity chemicals | 18,309 | 15,667 | $(2,642)$ | $(14.4)$ |
| Other | 105 | 86 | $(19)$ | $(18.4)$ |
| Equipment Business | 969 | 1,321 | +351 | +36.2 |
| Operating income | 7,271 | 5,383 | $(1,887)$ | $(26.0)$ |
| Material Business | 9,026 | 7,356 | $(1,669)$ | $(18.5)$ |
| Equipment Business | $(139)$ | $(178)$ | $(39)$ | - |
| Eliminations and corporate | $(1,615)$ | $(1,795)$ | $(179)$ | - |

[^0]
## Breakdown of the Change in Operating Income (Material Business)

1st half of FY2016 result vs 1st half of FY2017 result


## Sales Breakdown of Material Business

Net Sales
(Millions of $y$ n)


## (Reference) Electronic Functional Materials Division

Sales Composition of Electronic Functional Materials by Type

ote) High-density integration Photoresist materials, MEMS materials

## Sales Composition of Semiconductor Photoresist by Region




## Equipment Business



| (Millions of yen) | FY2016/1H | FY2016/2H | FY2017/1H |
| :--- | :---: | :---: | :---: |
| Term-end <br> order backlog | 1,440 | 1,140 | 1,016 |

(Note) The net sales of the equipment business is the figure after elimination of inter-segment sales.

## Balance Sheets

| (Millions of yen) |  |  | Buildings and structures $(1,029)$ <br> Machinery and equipment $(2,221)$ <br> Furniture and fixtures +477 <br> Land $(286)$ <br> Construction in progress $+2,065$ |
| :---: | :---: | :---: | :---: |
|  | As of September 30, 2016 | $\begin{gathered} \text { vs March 31, } \\ 2016 \end{gathered}$ |  |
| Current assets | 85,848 | $(1,265)$ |  |
| Cash and deposits | 49,257 | $(1,618)$ |  |
| Notes and accounts receivable | 18,292 | +370 |  |
| Inventories | 12,734 | (265) |  |
| Property, plant and equipment | 46,905 | $(1,008)$ |  |
| Intangible assets | 640 | (108) |  |
| Investments and other assets | 30,934 | (589) |  |
| Current liabilities | 17,515 | +385 |  |
| Notes and accounts payable | 7,848 | +60 |  |
| Non-current liabilities | 1,517 | $(1,381)$ | Retained earnings $+1,789$ <br> Treasury stock +688 <br> Foreign currency translation  <br> adjustment $(3,949)$ |
| Total net assets | 145,295 | $(1,975)$ |  |
| Total assets | 164,328 | $(2,971)$ |  |

## Cash Flows



## Consolidated Performance Forecasts for FY2017

## Earnings Forecasts (Full-year)

(Millions of yen)

|  | FY2016 | FY2017 Forecasts |  |  |
| :--- | ---: | ---: | ---: | ---: |
|  | Results |  |  |  |

## Capital Investments/Depreciation/R\&D



## Performance Forecasts by Business Segment

(Millions of yen)

|  | FY2016 <br> Full-year results | FY2017 Full-year forecasts |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Change | \% |
| Net sales | 89,969 | 87,300 | $(2,669)$ | (3.0) |
| Material Business | 87,280 | 84,100 | $(3,180)$ | (3.6) |
| Electronic functional materials | 51,134 | 51,900 | +765 | +1.5 |
| High purity chemicals | 35,931 | 32,100 | $(3,831)$ | (10.7) |
| Equipment Business | 2,689 | 3,200 | +510 | +19.0 |
| Operating income | 12,438 | 9,400 | $(3,038)$ | (24.4) |
| Material Business | 16,203 | 13,600 | $(2,603)$ | (16.1) |
| Equipment Business | (423) | (400) | +23 | - |
| Eliminations and corporate | $(3,342)$ | $(3,800)$ | (457) | - |

[^1]
## Breakdown of the Change in Operating Income (Material Business)



## Sales Breakdown of Material Business (Forecast)

Net Sales

(Note) The second half forecast is obtained by subtracting first-half results from the full-year forecast.

## (Reference) Electronic Functional Materials Division

Sales Composition of Electronic Functional Materials by Type


Sales Composition of Semiconductor Photoresist by Region



## ArF Resist



## KrF Resist

## Increase adoption of thick-film photoresists for 3D-NAND

Steady increase in mass production volume of 3D-
NAND by major manufacturers.
$\Rightarrow$ Other manufacturers to increase mass production.

Approx. 1.8 times

Approx.


## High-density integration Materials

## Increase the supply for new/ advanced processing applications

Advanced process integration materials

- Adopted in FO-WLP manufacturing process for highend smartphone's application.
- Expansion of next-generation memories and FO-WLP technologies.
- Aggressive approach to the markets in Korea, Taiwan, and China.


## MEMS Materials

- Expand applications of MEMS materials in electronic components, etc.
(Various sensors, devices for communication.
equipment, electronic components)
- Develop new needs and customers. (North America, Japan)
- Develop European markets.




[^0]:    (Note) Net sales of the Equipment Business are the figures after elimination of inter-segment sales.

[^1]:    (Note) The net sales of the equipment business is the figure after elimination of inter-segment sales.

