時代にまっすぐ、技術にまじめです。

Earnings Announcement For the First Half of FY3/20

November 25, 2019

Hibiya Engineering, Ltd.

<Securities code1982>

These materials include forward-looking statements that incorporate risks and uncertainties and are not guarantees concerning future performance. Future performance may differ from forecasts in these materials due to changes in the operating environment and other reasons.

Financial Summary For the First Half of FY3/20



Financial highlights (consolidated)

- Orders received were about the same as one year earlier
- Sales increased because of progress at large new building projects
- The first half losses were smaller than one year earlier

(Billion yen)

	2017/9 Actual	2018/9 Actual	2019/9 Actual	YoY (%)	2020/3 Plan	Targets of Sixth Medium-term Management Plan
Orders Received	35.65	33.52	32.83	-2.0%	75.0	75.0 ~
Net sales	27.70	26.92	28.57	6.2%	75.0	75.0 ~
Operating Profit	0.70	-1.16	-0.32	_	4.0	4.0 ~
Ordinary Profit	0.91	-1.07	-0.15	_	5.0	5.0 ~
Profit attributable to owners of parent	5.00*	-0.85	-0.14	_	3.0	3.0 ~

* Including 4.3 billion yen of extraordinary income (gain on sales of investment securities) from sales of the shares of equity method affiliated company Nihon Meccs.



Orders received by category & by customer (consolidated)

NTT Group orders increased and first half orders received remained above ¥30 billion





Sales by category & by customer (consolidated)

- Big increase in private-sector sales, mainly for the construction of new buildings, and higher NTT Group sales
- First half sales were generally in line with the fiscal year plan





Order backlog by category & by customer (consolidated)

- The order backlog remains high, mainly for private-sector new building construction projects
- Some of the projects are expected to be completed in and after the second half





(Billion yen)

Summary income statements (consolidated)

■ The gross profit margin recovered following the decline one year earlier

						(Billion yon)
Net sales	2017/9 Actual	2018/9 Actual	2019/9 Actual		2020/3 Plan	Targets of Sixth Medium-term Management
Net sales	27.70	26.92	28.57			Plan
Cost of sales	23.18	24.22	25.08	Net sales	75.0	75.0 ~
Gross profit	4.52	2.69	3.49			
Gross profit margin	16.3%	10.0%	12.2%			
SG&A expenses	3.81	3.85	3.81	Operating profit	75.0	75.0 ~
Operating profit	0.70	-1.16	-0.32			
Non-operating income	0.20	0.09	0.17			
Ordinary profit	0.91	-1.07	-0.15	Ordinary profit	4.0	4.0 ~
Extraordinary income	4.52	-	-0.03			
Income taxes	0.43	-0.21	0.02	Profit attributable to	5.0	5.0 ~
Profit attributable to owners of parent	5.00	-0.85	-0.14	owners of parent (ROE)	(5.0%)	(5.0%~)

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Distributions to shareholders

Basic policy

Based on the earnings targets of the current medium-term plan, stock will be repurchased in a flexible manner as part of shareholder distributions while continuing to place emphasis on dividends. (Another stock repurchase authorization was approved at the beginning of FY3/20, the ninth consecutive year of stock repurchases.)

Dividends

[FY3/2020]

Total dividend is ¥80 per share as planned
 The interim dividend is ¥40

Repurchases

[FY3/2020]

To purchase 300,000 shares at a cost of ¥570 million during the fiscal year
 1H Actual: 93,000 shares at ¥177 million

 (31.1% of the plan)

Sixth Medium-term Management Plan & Achievement of the First Half

The Sixth Medium-term Management Plan: April 2017 - March 2020



Fundamental goal and core strategies

Fundamental Goal

"Establish and reinforce corporate reforms" for the stable and long-term continuation and advancement of business operations

Core Strategies

Invest in human resources and ICT to change how people work

■ Recruiting, training and skill enhancement activities

- · Recruit the people needed to achieve sustained growth
- Upgrade all training programs
- Workforce diversity activities
- Implement programs to make greater use of female employees
- Maintain the proper work-life balance
- Establish job site support centers
- Establish a competitive edge and operate efficiently
- Use ICT for more efficient and advanced job site supervision

More advanced life cycle total solutions

- Expand and upgrade consistent-revenue businesses
- Increase opportunities by enlarging the scope of life cycle solutions
- Cooperation among Hibiya Engineering Group companies
- Provide engineering services that combine the capabilities of all group companies
- Collaborative sales activities with the NTT Group
- Expand the solution menu by incorporating the technologies of NTT Group companies
- Use alliances
- Create a broader range of new ideas for customers by using cooperation with business alliance partners



Achievement in FY3/2020

Invest in human resources and ICT to change how people work

Wor	king	style	reforms
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(P9)

Use ICT to improve efficiency and maintain sound partner company relationships

(P10)

Use of ICT in the job site for improving efficiency and preventing problems

(P11)



Working style reforms

Examples of activities, primarily by the Working Style Reform Working Group

Reforms closely linked to the workplace



- Improve productivity and job process efficiency at construction sites
- Support to help employees stay healthy

Many types of seminars





Construction industry working style reform seminar Communication skills training

Career Design Project for Women

Create a community of female workers



A discussion group for women



Construction site field trip for women

Received L Star certification (stage 2) of the Act on the Promotion of Female Participation and Career Advancement in the Workplace



- Achieved 4 of the 5 requirements
- Recruitment
- 2. Retention
- 3. Working time and other job characteristics
 - 4. Pct. of management personnel
- ✓ 5. Wide range of career paths
- The goal is for women to be at least 20% of newly hired people in accordance with the female empowerment action plan. (Actual pct. is 25.9% during the past three years)



Use ICT to improve efficiency and maintain sound partner company relationships

Advanced Hibiya-EDI System invoices and addition of WEB order forms



Benefits for Hibiya Engineering

- Improves efficiency by completing contract procedures faster
- Stronger relationships with partner companies
- Strengths compliance, such as by preventing the fraudulent alteration of documents

Stronger relationships due to greater efficiency

Benefits for Vendors

- Efficient use of personnel due to faster finalization of contracts
- Higher productivity due to a smaller volume of work (seals, documents, etc.)
- · Lower cost for stamp tax, delivery fees and other items

Use of ICT in the job site for improving efficiency and preventing problems

All departments participate in collection of job site information and follow-up to use ICT for boosting efficiency



Speed up information sharing
 Apps created for specific needs improve efficience

 Shortens working time by making information available to other job sites



Achievement in FY3/2020

Activities for providing more advanced life cycle total solutions



(P15)



CO₂ Reduction Initiatives

Use of LED lights at all Nagano prefectural government buildings

The first project by a prefecture in Japan that uses a large-scale bulk lease for many buildings and facilities in order to lower CO₂ emissions

The Nagano Prefecture LED Light Project

A bulk lease was used to install LED lights at all prefectural government buildings and facilities in order to lower CO2 emissions.

[Cost]

► About ¥300 million

[Purpose]

- Reduce CO2 emissions and electricity use at the prefectural government buildings and facilities
- Use of a lease prevented spikes in expenses
- [Length of project]
 - July 2018 to September 2019 (LEDs in police stations and boxes)

Participating companies

Organization /financing	Mitsubishi UFJ Lease & Finance Co., Ltd.
Design/installation /inspection	Hibiya Engineering
Design/installation	Six companies in Nagano

Hibiya Engineering activities

Studies, installation work and maintenance services for lowering CO₂ emissions associated with current equipment



Hibiya Engineering plans to use expertise gained form this project to meet the needs of local governments throughout Japan for activities that lower CO_2 emissions.



Alliances to meet public sector needs and receive renovation project orders

Self-sufficient and dispersed energy and other equipment for Information Center Manazuru





New LC Service Center strengthened consistent-revenue activities and increased orders

Expanded Life Cycle Service Center contributed to growth in renovation projects

November 2018

 Established the LC Service Center
 Handles all post-completion services



- Reinforced service infrastructure makes repair/maintenance services the entry point for creating renovation proposals
- More efficient post-completion services by LC service center

A thorough service infrastructure for one-stop support from completion to renovations and upgrades

Hibiya Engineering

Life Cycle Service Center

- More powerful framework for services
- Uses repairs/inspections to quickly gather information and create renovation proposals
- Improvement in efficiency
- A single contact for all customer calls results in faster responses (new e-mail address for calls and other measures)
- Use of tablets
- A single server also used by partner companies, smaller risk of information leaks, and other measures



 Number of buildings receiving LC services and orders for construction work for tenants increased

Increase in orders for postcompletion services from Gold Customer S





Major completed projects

More advanced life cycle total solutions (Orders received by priority domains)



HIBIYA



Hotel



Faithful restoration of the main lobby of The Okura Tokyo, including lights incorporating the famous Okura lantern motif that is a symbol is this historic hotel.

The Okura opened in 1962 as a hotel featuring a distinctly Japanese design and atmosphere rather than a format based on overseas hotels. The recent renovation carries on this tradition and takes the design to an even higher level.



Okura Fitness & Spa

	The Okura Tokyo		
Location	Minato-ku, Tokyo		
Floor area	180,905 sq. meters		
Structure	41 stories above ground/1 stories below ground/2 levels of roof		
Hibiya's work	Sanitation		

Major completed projects

Hotel/Multipurpose Building

"Jingu Gaien no Mori" is a vacation home that provides a front seat to the greenery, views and excitement of the city.



Location	Shinjuku-ku, Tokyo
Floor area	15,800 sq. meters
Structure	13 stories above ground
libiya's work	Air conditioning

A spectacular tower in the heart of Tokyo's vibrant Shibuya district with offices, shops, restaurants and event spaces



Shibuya S	Scramble Square (East tower)
Location	Shibuya-ku
Floor area	181,000 sq. meters
Structure	47 stories above ground/7 stories below ground
Hibiya's work	Air conditioning/sanitation



Office/Other building

The head office of Nippon Thompson, a manufacturer of bearings



The head of	office of Nippon Thompson
Location	Minato-ku, Tokyo
Floor area	5,230 sq. meters
Structure	8 stories above ground
Hibiya's work	Air conditioning/sanitation

A base for research and development with the goal of helping people enjoy long and healthy lives



Kobe International L	ifestyle Medical Center of Air Water Inc.
Location	Kobe-city, Hyogo
Floor area	5,554 sq. meters
Structure	5 stories above ground
Hibiya's work	Air conditioning



Reference



Stock price and net asset value (~ end of September 2019)

Performance of Hibiya Engineering stock since the end of March 2014





Shareholders



Reference



More efficient cooperation with partner companies, etc.

More efficient cooperation and more communication strengthens ties with partner companies

Use of the Hibiya Engineering website

A unified health and safety portal site where partner companies can obtain all the information they need

Provision of up-to-date information improves efficiency and prevents returns of outdated information



The Hibiya-EDI System allows internet processing of invoices

* Higher efficiency – Eliminates the need for postal mail or hand delivery for invoices. Less time needed for processing and confirmations.

Stronger ties with partner companies The Hibiya Meister Program



A Hibiya Meister ceremony



The Hibiya Meister seal

- Recognizes outstanding skills and provides people needed at job sites
- · Increases salaries and motivation

Hibiya Eng. & Partner company discussion groups and joint training sessions



Group discussion with partner companies



Seminars at the Hibiya Information Plaza



Summary

The importance of facility management is growing steadily. This seminar explained the value created by facility management from many perspectives. Presentations also covered working style reforms, sustainability, wellness, building information modeling (BIM) and other related subjects.

Presentations

- Opening presentation The basics and case studies to illustrate the enjoyment of facility management
- Facility data management by combining BIM and facility management
- · Utilization of facility management digital technology and maintenance data
- · The workplace survey, a facility management evaluation tool for offices

Utilization of the IoT and artificial intelligence



Summary

Information about how companies are making use of technologies involving the Internet of things and artificial intelligence

Presentations

- · EXBeacon and other technologies for the use of digital twins
- The DBMCS building automation solution for using open systems to support the IoT
- The DiAs energy conservation navigation system using AI
- · Examples of community creation and smart community activities

Natural gas cogeneration system

A local gov't used a Hibiya natural gas cogeneration system at a hot spring lodge

Previously unused energy is utilized to cut the cost of electricity by 60%, which lower CO₂ emissions



Reference

Aisle Capping for Small Computers for Data Centers

A flexible aisle capping system for small computer rooms Features More efficient climate control Flexible installation to match Uniform temperature of rack air supply surface Flexible installation to match

Potential applications



Capping with ceiling

Benefits

Capping with no ceiling

Capping in use



Installed under a ceiling beam



Box-type capping





3D Scanners

Use state-of-the-art technology (3D scanners) for more technological advances



A Faro Focus3D high-speed 3D laser scanner





[Advantages]

- Reduces number of people and time needed to perform jobsite surveys
- Improves the safety of jobsite surveys
- Increases the accuracy of construction drawings
- Produces CAD and 3D models quickly



Use point cloud data for 3D models

Utilizing this technique as much as possible as a renovation technology

Reference



3D Scanner utilization (Kumamoto Teishin Hospital)

Stored building records of the former Kumamoto Teishin Hospital (designed by Mamoru Yamada, an engineer of the former Ministry of Communication)



Record the building data using 3D scanner

Building data



Photo of the building



Point cloud data captured by the scanner

Reference



Streamlining construction and installation technologies

Labor-saving method for installing rooftop equipment raises efficiency

Simple installation with single unit package for exterior equipment



A single unit for exterior equipment/base /refrigerant pipes

- · Smaller amount of labor required
- · Better, more uniform quality due to fabrication at a factory

Installation of pre-assembled rooftop water tank





Simple rooftop installationNo time-consuming installation steps





Energy conservation technologies for sanitation equipment

Energy conservation and water quality at wastewater treatment facilities

Energy-efficient climate control and electrical equipment as well as a focus on conserving energy in sanitation equipment

Wastewater treatment facilities

- Requires the supply of an enormous volume of air at a steady rate
- Required amount of air changes depending on day of the week and time of day
- Too much or too little air causes water quality to decline



Reference



Minimizing energy use of a data center climate control system

Activities for creating an energy-efficient data center for NTT Data Corporation

Used for HVAC equipment control by server internal sensors

- Data links incorporating the IoT overcome barriers between ICT equipment management and facility management
- Conventional temperature sensors to not monitor the internal temperature of servers, which is what must be held down
 - ⇒Using data from sensors inside servers for climate control makes it possible to control temperatures in the most important locations





Services and technologies of Hibiya Engineering group







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