

Environmental Management System (EMS)

Results of External Assessment of EMS

| | |
|-----------------------------------|--|
| Audited term | FY2022.3 |
| Certification body | Japan Testing Center for Construction Materials |
| Implementation period | 2021 July 6 to 2021 July 16 |
| Assessed items | Head Office, Tokyo Main Office, Yokohama Branch, Kanto Branch, Nagoya Branch, Sapporo Branch, East Japan Robotics Center, Technical Research Institute |
| Number of deficiencies | Serious deficiencies: 0 case Minor deficiencies: 0 case |
| Number of items under observation | 2 cases |

Results of Internal Audit of EMS

| | |
|---|---|
| Audited term | FY2022.3 |
| Audited items | All branches and departments |
| Number of audits Planned/ Implemented (Implementation rate) | 233 cases / 240 cases = 97.1% Of which, permanent divisions: 51 cases / 51 cases = 100% Of which, construction offices: 172 cases / 179 cases = 96.1% Of which secretariats: 10 cases / 10cases = 100% |
| Number of internal auditors (active) | 514 persons |
| Number of deficiencies | 0 case |
| Number of cases under observation | 93 cases |

Environmental Targets and Results (FY2018.3 – FY2022.3)

| Environmental Targets | Unit | FY | FY | FY | FY | FY2022.3 | | | |
|--|-----------------------------|---------------------|--------|--------|--------|--------------|---------------|--------|------------|
| | | 2018.3 | 2019.3 | 2020.3 | 2021.3 | Results | Targets | Result | Evaluation |
| Reducing CO2 Emissions | | | | | | | | | |
| CO2 emissions reduction rate from construction sites (base year 2014.3) | % | 8.0 | 18.8 | 17.8 | 28.3 | 15.0 or more | 17.9 | ○ | |
| CO2 emissions reduction rate of designed & build buildings*1 | | 26 | 20 | 34 | 23 | 25 or more | 32 | ○ | |
| Fuel efficiency driving training rate at construction sites | | 63 | 71 | 70 | 60 | 80 or more | 70 | △ | |
| Reducing Resource Consumption | | | | | | | | | |
| Water consumption at construction sites | Civil Engineering | m3/ billions of yen | 1,450 | 2,050 | 1,320 | 1,720 | 1,500 or less | 1,210 | ○ |
| | Building Construction | 890 | 590 | 1,010 | 700 | 800 or less | 1,240 | × | |
| Reducing Waste Emissions | | | | | | | | | |
| Amount of construction waste emissions (excluding sludge) per completed work from new building construction work | t/ billions of yen | 147 | 131 | 178 | 127 | 140 or less | 156 | × | |
| Confirmation rate of facilities for processing | Regulation area | % | 75 | 84 | 84 | 95.5 | 100 | 94.3 | × |
| | Outside the regulation area | | | | | 90.1 | 85 or more | 93.5 | ○ |
| Implementing Green Procurement | | | | | | | | | |
| Green procurement ratio for construction materials and supplies*2 | % | 43 | 43 | 43 | 48 | 55 or more | 58 | ○ | |

Notes ○ : Targets achieved △ : Targets have yet to be achieved, but results have improved from the previous year × : Targets have yet to be achieved

*1 Figure represent comparisons with the CASBEE reference values, with the scope of aggregation including all building uses.

*2 The ratio of the green procurement value to the total procurement value of all monitored items for the green procurement ratio

Deficiencies*3 and Complaints

| Items | Unit | FY2018.3 | FY2019.3 | FY2020.3 | FY2021.3 | FY2022.3 |
|--------------|-------|----------|----------|----------|----------|----------|
| Deficiencies | cases | 6 | 2 | 3 | 2 | 4 |
| Complaints | cases | 1,229 | 624 | 513 | 445 | 517 |

*3 Obayashi designates items as deficient and requiring management in the following cases:

- When received an administrative guidance
- When a civil fine must be paid
- When a written apology must be submitted
- When there is a penalty involving more than a small fine
- When there is compensation payment
- When a government agency has submitted a recommendation to take corrective actions

In FY2022.3, there were 4 cases of nonconformity: 2 cases of exceeding the sewage elimination standard due to excess pH, 1 case of scattering of asbestos spraying material during demolition, and 1 case of removal and disposal under an industrial waste contract with a primary subcontractor as the discharging company.

The government issued a letter of guidance and a letter of recommendation, etc. We submitted an improvement report to the government in response to the guidance and recommendation letters. As efforts to prevent recurrence, measures were taken at the work site (construction office), e-learning was conducted within the company, a procedure manual was prepared and disseminated, and a notice was issued.

Note that we strive to prevent conflicts for reoccurring by aptly responding to the complaints we receive and caring for the environment surrounding our sites