



Ebara Corporation Green Procurement Guidelines



**Ebara Corporation
Environment Control Committee**

March 15, 2021 Ver. 4

[1] Introduction

Ebara has defined its corporate philosophy as: "We broadly contribute to society through high quality technologies and services relating to water, air and the environment." It is Ebara's mission to contribute to the creation of a safe, secure and affluent society, as well as the development of every nation on earth through the course of our business. As part of our provision of high quality technologies and services, Ebara promotes environmental management activities to minimize the environmental load of production activities and products, including a commitment to green procurement.

This document describes Ebara's green procurement policy and framework, requirements for suppliers (product materials, indirect materials, and labors), and other related matters.

[2] EBARA Group Environmental Policy

EBARA Group's purpose is to make social and industrial infrastructure more efficient and robust through the innovation of products and services in the areas of water, air, and the environment and to realize a sustainable society in which the people of the world can live comfortably and prosperously.

We promote the following activities in recognition that environmental management is vitally important and contributes to the preservation of ecosystems, the foundation of all economic activities.

1. Development of products and services that contribute to the sustainable use of natural resources and the resolution of social issues, achieved through miniaturization, improved efficiency, reuse, and other considerations made during development and production.

2. Conservation of resources, beginning with energy and water conservation. We will reduce waste and recycle, and engage in manufacturing with the utmost consideration for reducing environmental impact.

3. Continuous reduction of greenhouse gas emissions. We recognize that climate change is an important global issue, and as such, we will work to continuously reduce greenhouse gas emissions throughout value chains from the perspective of product/service life cycles. Further, we will maximize

the use of renewable energy within a realistic scope.

In pursuit of the above, we will establish and maintain an environmental management system and implement the following through its operation:

4. We will set environmental targets, regularly review performance against these targets, and work to improve environmental performance. We will additionally continuously implement improvements to the system itself.

5. We will comply with domestic and international legal requirements and internal standards. Further, we will respond sincerely to the demands of stakeholders.

6. We will actively disclose information to and communicate with stakeholders and work to foster society's trust in us.

Revised on July 16, 2019

Ebara is working on green procurement as part of its activities to promote the environmental policy.

[3] Green Procurement Policy

Ebara promotes green procurement in all business areas based on the following policies.

- (1) We will confirm from the following viewpoints that our suppliers are implementing environment-friendly business activities.
 - a) An environmental management system (persons in charge of environmental management) is set up.
 - b) Procedures required for environmental preservation are established.
 - c) Compliance with environmental laws and regulations.Suppliers that have acquired certificates for their environmental management systems shall be regarded as having achieved a) to c) above.
- (2) Indirect materials required for our production activities will be ordered in accordance with the policy for reducing our environmental load or environmental risks across the entire lifecycle of Ebara products.
- (3) For stationery, business machines, and OA/IT equipment,

environment-friendly products will be procured.

- (4) We will strive to obtain environmental information required to reduce the environmental load and environmental risks across the entire lifecycle of our products and services.
- (5) We will include overseas suppliers in the scope of our green procurement policy, strive to understand environmental management conditions, and obtain environmental information for procurement items.

[4] Framework of Green Procurement

- (1) We will promote Design for Environment, and in consequence, implement green procurement in accordance with the purchase specifications. Ebara promotes Design for Environment mainly from the following viewpoints.
 - Use of toxic chemicals is avoided or minimized according to the environmental risk of each substance.
 - The entire lifecycle of our products – from manufacturing to distribution, use, and disposal – is taken into consideration.
 - Environmental influences are evaluated from diverse perspectives, including resource saving, generation of waste, global warming, eutrophication, and acidification.
- (2) In addition to individual purchase specifications based on Design for Environment, we will define common requirements for all suppliers and request their cooperation.
- (3) For stationery, business machines and OA/IT equipment, the following products will be preferentially purchased.
 - Products with an environmental label, such as the Eco Mark.
 - Products which satisfy [Factors for Consideration] (Judged based on information in catalogs and from suppliers) in the "Basic Policy for Promoting Green Purchasing" by the Ministry of the Environment.
 - Products with consideration for issues of social concern (e.g., having obtained the FSC certificate* mark for products made of appropriately managed forestry resources).
(FSC certificate: a system for certifying forests for which management and deforestation are performed in consideration of the environment and regional communities.)

- (4) When selecting suppliers, we will consider environmental management conditions for each supplier in addition to the price, quality, and lead time.

[5] Common Requirements for Suppliers

Our suppliers are requested to cooperate with Ebara's green procurement policy:

1. Confirmation of environmental management conditions for suppliers

We will confirm the environmental management conditions of the suppliers from the following viewpoints. Based on the results of this survey, we will make procurement by adding the environmental viewpoint to the criteria, including the price, quality, and lead-time.

The confirmation items are as follows:

- (1) Company profile
- (2) Acquisition of environmental management system certificates
If an environmental management system certificate is obtained, confirmation of items (3) to (5) will be omitted.
- (3) Availability of an environmental management system (persons in charge of environmental management)
- (4) Preparation conditions for equipment and procedures required for environmental preservation
- (5) State of compliance with environmental laws and regulations
If any administrative or criminal penalty is imposed based on environmental laws or regulations, notify Ebara of the applicable information each time such a case arises.
- (6) Approach adopted by your esteemed company to purchasing and procurement

For the environmental management conditions of the suppliers, we may conduct additional surveys or direct visit surveys.

2. Compliance or Cooperation Issues concerning Supplies

For products and services to be supplied, we would like to ask for your compliance and cooperation with the following.

2-1 Matters to be observed when supplying products

- (1) Chemicals contained in supplies shall satisfy the control values shown in Appendix 1. Appendix 1 describes chemicals whose use is prohibited by applicable laws or regulations.
- (2) For supplies subject to SDS* issuance, attach an SDS each time products are supplied. However, for SDS attachment when continuously supplying products of the same model No. and characteristics, such as machine oil, follow the instructions from the Procurement Division of Ebara.
(SDS stands for Safety Data Sheet. SDS is a document that provides information about the physicochemical properties, risks, toxicity, and handling required for chemicals by the transferrer or recipient.)
- (3) If any supplies contain chemicals whose inclusion should be notified to Ebara under applicable laws or regulations, notify Ebara of the substance names concerned by the means specified in the law or regulation (excluding instances of unintended inclusion).
- (4) For chemical substances whose upper concentration limit or leaching standard is specified in the procurement specifications, strictly observe the procurement specifications. Also, submit a document which verifies that the concentration or the leaching standard is observed (for the purpose of responding to the Water Supply Act, RoHS Directive* and Ebara customers).
(RoHS Directive: European directive on the restriction of use of certain hazardous substances in electrical and electronic equipment.)
- (5) Notify Ebara of written information about precautions for the environment and industrial safety and health during storage and use of supplies, if any.
- (6) Provide Ebara with written information about reasonable recycling or waste disposal methods and precautions for recycling or waste disposal, if any.
- (7) It is prohibited for paints to contain lead, chromium, or tar.

2-2 Matters subject to your cooperation when supplying products

- (1) Upon request from Ebara regardless of 2-1 (1) to (4), please do your best to provide Ebara with information about product

contents regarding chemicals affected by the RoHS Directive, REACH regulations* and/or conflict mineral regulations by, for example, asking your upstream suppliers in the supply chain to investigate the inclusion of such chemicals. Regarding the information provision method (including file format and forms), follow the instructions of the Procurement Division of Ebara. (REACH regulations: REACH stands for Registration, Evaluation, Authorization and Restriction of Chemicals. These regulations concern general registration, evaluation, authorization, and restrictions on chemicals.)

- (2) Proactively provide Ebara with known environmental load information concerning supplies and environmental considerations (including your strong points) (e.g., by presenting quantitative information).
- (3) Make efforts to use simple packaging. Avoid packaging in wooden boxes, but strive to use carton boxes for packaging. Put cushioning materials into small bags.
- (4) Proactively review reduction, taking back, and repetitive use of vessel packaging and supplies of cushioning materials.
- (5) When supplies are directly delivered to construction sites, avoid carrying the supplies on pallets into the sites (if pallets are used, you may be requested to take them back).

[6] Information Management

Information specific to suppliers obtained based on the "Green Procurement Guidelines" and "Supplier Environment Management Survey Report" will only be used to promote green procurement by Ebara Corporation and will never be disclosed to any other companies.

[7] Partnership with Suppliers

To minimize the environmental load through the product lifecycle and services that Ebara provides to society, Ebara will engage in two-way communication with suppliers and proceed with the Design for Environment to reflect the design in procurement specifications.

[8] Contact for Inquiries

<https://www.ebara.co.jp/en/contact/form/sustainability>

Appendix 1 *1

No.	Chemical (group) name	Control value	Reference
1	Cadmium and its compounds*2 *3	100 ppm or less 100 ppm or less (packaging material)	RoHS Directive (EU) Packaging and Packaging Waste Directive (EU)
2	Hexavalent chromium compounds*2 *3	1000 ppm or less 100 ppm or less (packaging material)	RoHS Directive (EU) Packaging and Packaging Waste Directive (EU)
3	Lead and its compounds*2 *3	1000 ppm or less 100 ppm or less (packaging material)	RoHS Directive (EU) Packaging and Packaging Waste Directive (EU)
4	Mercury and its compounds*2 *3	1000 ppm or less 100 ppm or less (packaging material)	RoHS Directive (EU) Packaging and packaging Waste Directive (EU)
5	Polybrominated biphenyls (PBBs)	1000 ppm or less	RoHS Directive (EU)
6	Polybrominated diphenyl ethers (PBDEs)	1000 ppm or less	RoHS Directive (EU)
7	Bis(2-ethylhexyl) phthalate (DEHP)	1000 ppm or less Applicable from Jan. 2019	RoHS Directive (EU)
8	Butyl benzyl phthalate (BBP)	1000 ppm or less Applicable from Jan. 2019	RoHS Directive (EU)
9	Dibutyl phthalate (DBP)	1000 ppm or less Applicable from Jan. 2019	RoHS Directive (EU)
10	Diisobutyl phthalate (DIBP)	1000 ppm or less Applicable from Jan. 2019	RoHS Directive (EU)
11	Asbestos 1) Amosite 2) Crocidolite 3) Chrysotile 4) Anthophyllite 5) Tremolite 6) Actinolite	Intended use prohibited and 1000 ppm or less	Substances restricted by REACH regulations
12	Ozone depleting substances (Class I)*4 (CFCs, HBFCs, carbon tetrachloride, etc.)	Intended use prohibited	Montreal Protocol

- *1 Conforms to Exemptions shown in Annex 3 and Annex 4 of EU RoHS Directive II. For example, a copper alloy with a lead content of 4wt% or less shall be excluded from Appendix 1 (it is prohibited for copper alloys to contain 4% or more of lead).
- *2 Metal includes its alloys.
- *3 For packaging materials, the total content for 4 substances shall be 100 ppm or less.
- *4 Montreal Protocol Class I substances (excluding HCFCs in Class II)