

Japan Credit Rating Agency, Ltd. (JCR) announces the following credit rating.

ISHIHARA SANGYO KAISHA, LTD. (security code: 4028)

<Affirmation>

Long-term Issuer Rating: BBB+
Outlook: Stable

Rationale

- (1) ISHIHARA SANGYO KAISHA, LTD. (the “Company”) is a chemical company operating the organic chemicals business centering on agrochemicals and the inorganic chemicals business handling titanium dioxide products and functional materials. For agrochemicals, it has an advantage of establishing the global sales network, offering a wide variety of products such as fungicides, herbicides and insecticides. Other than this, it also offers animal health products based on its chemical synthesis technologies developed in the field of agrochemicals. In the inorganic chemicals business, the Company ranks top in Japan for titanium dioxide, and it has been putting efforts on sales expansion of barium titanate for multilayer ceramic capacitors (MLCCs). To enhance production capacity of this product in MF Material, Co., Ltd. (“MF Material”), a joint venture established with Murata Manufacturing Co., Ltd. (“Murata Manufacturing”) in September 2023, the second plant is being constructed within the Nobeoka Plant (full scale operation is scheduled to be commenced in 2027).
- (2) Strengthening the business foundation through structural reforms, etc. is in progress. In the general-purpose titanium oxide, which involves a profitability issue, halting of the operation of the plant for sulfate process (at the end of March 2027) was announced, and an improvement in profitability through squeezing fixed cost can be expected. Furthermore, in the functional materials, an area with growth potential, the relationship with Murata Manufacturing was further tightened along with establishment of MF Material and is also making progress to strengthen the production capacity eyeing on the future demand growth. In the organic chemicals business, in addition to sales expansion of new drugs, commercialization of animal health products is making steady progress both domestically and overseas. JCR will check whether the Company can raise the earning capacity over the medium term through continuing to execute these business strategies as mentioned above. The financial structure remains at a favorable level. Based on the above, JCR has affirmed the rating on the Company with Stable outlook.
- (3) For the fiscal year ended March 2024 (FY2023), the Company ensured a profit growth as indicated by an operating income of 11.4 billion yen, up 33.1% over the year. This is attributable to effects of price revisions made to date for titanium dioxide, and steady sales of agrochemicals by and large. For FY2024, an operating income is projected to decrease to 10 billion yen, down 13.0% over the year. In the titanium dioxide, capacity utilization rate is expected to decline to sell inventory, which was increased in the previous fiscal year, and in sales of agrochemicals, some products will also be affected by the impacts arising from competition with generic products. In the animal health products, aiming to increase sales in the U.S. and Europe, R&D expenses are expected to increase due to clinical trials and others. Under the new Medium-term Business Plan (FY2024 - FY2026), the Company intends to work on sales increase of agrochemicals centering on drugs for growth strategies, sales expansion of animal health products at home and abroad, and earning structure reforms of general-purpose titanium oxide, among others, and it predicts that profits will be back on a growth path for FY2025 and onward.
- (4) At the end of FY2023, the equity ratio was 47.3% and net D/E ratio was 0.47x as opposed to 48.3% and 0.39x at the end of FY2022 respectively. For FY2023 operating cash flow was negative due to an increase in the working capital requirement. However, for FY2024, it is expected to improve by selling the inventory of titanium dioxide made through the sulfate process. Under the new Medium-term Business Plan, the Company will execute investment in total of 30 billion yen including enhancement of production capacity of MF Material in the functional materials and construction of Hyogo Ono Research Center in the organic chemicals business. Although the investment burden continues to be heavy between FY2024 and FY2025, JCR views that the Company can maintain certain financial conditions given the cash flow generation capacity at present.

Takeshi Fujita, Naoki Muramatsu



Rating

Issuer: ISHIHARA SANGYO KAISHA, LTD.

<Affirmation>

Long-term Issuer Rating: BBB+ Outlook: Stable

Rating Assignment Date: July 11, 2024

The assumptions for the credit ratings and the definitions of the rating symbols are published as "Types of Credit Ratings and Definitions of Rating Symbols" (January 6, 2014) in Information about JCR Ratings on JCR's website (<https://www.jcr.co.jp/en/>).

Outline of the rating methodology is shown as "JCR's Rating Methodology" (February 1, 2024) and "Chemicals" (June 15, 2022) in Information about JCR Ratings on JCR's website (<https://www.jcr.co.jp/en/>).

The rating stakeholder participated in the rating process of the aforementioned credit ratings.

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JCR publishes its press releases regarding the rating actions both in Japanese and in English on the same day. In case that it takes time to translate rating rationale, JCR may publicize the summary version, which will be replaced by the full translated version within three business days. (Regarding Structured Finance products, JCR only publicize the summary version in English.)



INFORMATION DISCLOSURE FORM

Japan Credit Rating Agency, Ltd.

Disclosure Required by Paragraph (a)(1)(ii) of Rule 17g-7

Issuer:	ISHIHARA SANGYO KAISHA, LTD.
Rating Publication Date:	July 17, 2024

1

The Symbol, Number, or Score in the Rating Scale used to Denote Credit Rating Categories and Notches and, the Identity of the Obligor or the Identity and a Description of the Security or Money Market Instrument as Required by Paragraph (a)(1)(ii)(A) of Rule 17g-7

- Please see the news release. If the credit rating is a private rating, please see the report for private rating.

2

The version of the procedure or methodology used to determine the credit rating; as Required by Paragraph (a)(1)(ii)(B) of Rule 17g-7

- Please see the news release. If the credit rating is a private rating, please see the report for private rating.

3

The Main Assumptions and Principles used in Constructing the Procedures and Methodologies used to Determine the Credit Rating as Required by Paragraph (a)(1)(ii)(C) of Rule 17g-7

- The credit rating methodology assumes, in principle, to be applied to assess the likelihood of a given debt payment in light of its issuer's condition and business environment, etc. in the relevant future. There is certain limitation, however, in the time horizon that the rating foresees.
- The credit rating methodology assumes, in principle, that the factors posted in the below are particularly important for such likelihood to be determined, and that the rating determination is made by evaluating each of them not only quantitatively but also employing qualitative analyses.

A) Business Bases

The likelihood of a given debt payment is highly conditional to its issuer's business bases - how they can be maintained/ expanded into the future and thereby secure earnings and cash flows in adequacy and in a sustainable way.

B) Financial Grounds and Asset Quality

The likelihood of debt payment is highly dependent on the degree of the issuer's indebtedness and loss absorption capacity in terms of equity capital. Also notable is that a financial institution might see a significant loss of financial grounds as a result of changes in value of the assets under its possession.

C) Liquidity Positions

The likelihood of debt payment is highly dependent on the adequacy of the issuer's cash and other sources of repayment (liquidity positions).

D) Related Parties' Status and Stance of Support/ Assistance for the Issuer

The likelihood of debt payment is affected one way or the other by the issuer's related parties such as parent company, subsidiary, guarantor, and the government of the issuer's business domicile, etc. - by their own conditions and/ or position of support/ assistance for the issuer.

E) Order of Seniority in Debt Payment

The likelihood of debt payment can be different between given debts of the same issuer. The likelihood of debt payment for an individual debt is dependent on the issuer's discretion, and/ or its rank relative to other debts of the same issuer in the order of seniority in principal/ interest payment which is determined by design as financial product or by laws, etc.

4 The Potential Limitations of the Credit Rating as Required by Paragraph (a)(1)(ii)(D) of Rule 17g-7

- The credit rating herewith presented by JCR is its summary opinion with regard to the likelihood of given debt payment and hence not necessarily a perfect representation of such likelihood. The credit rating is not intended to estimate the probability of default or the loss on given default, either.
- The objective of the credit rating herewith presented does not include any concerns other than the likelihood of debt payment, such as risks of price changes, market liquidity, etc.
- The credit rating herewith presented is necessary to be reviewed along with possible changes of the issuer of rated objects in its business performance and/ or circumstances which include regulatory environment, and hence subject to possible alteration.

5 Information on the Uncertainty of the Credit Rating as Required by Paragraph (a)(1)(ii)(E) of Rule 17g-7

- The information used for the determination of credit rating as herewith presented is obtained by JCR from the issuer of rated objects and other sources that JCR trusts in terms of accuracy and reliability but possibly contains errors due to human, non-human or other causes. Consequently, the credit rating determined on the grounds of such information does not constitute, explicitly or implicitly, any representation or warrant of JCR on the information itself or any consequences of its use in terms of accuracy, relevance, timeliness, wholeness, market value, or usefulness for any specific purposes.

6 Use of Due Diligence Services of a Third Party in Taking the Rating Action as Required by Paragraph (a)(1)(ii)(F) of Rule 17g-7

- There is no use of any third-party due diligence service in the determination of the credit rating herewith presented.

7 Use of Servicer or Remittance Reports to Conduct Surveillance of the Credit Rating Required by Paragraph (a)(1)(ii)(G) of Rule 17g-7

- There is no use of any servicer or remittance report to conduct surveillance of the credit rating herewith presented.

8 The Types of Data Relied Upon for the Purpose of Determining the Credit Rating as Required by Paragraph (a)(1)(ii)(H) of Rule 17g-7

- The information posted in the below, which includes data, is used for the determination of the credit rating herewith presented.

A) Audited financial statements presented by the rating stakeholders

B) Explanations of business performance, management plans, etc. presented by the rating stakeholders

9 Overall assessment of the Quality of Information Available and Considered in Determining the Credit Rating as Required by Paragraph (a)(1)(ii)(I) of Rule 17g-7

- JCR holds its basic policies for securing the quality of information as a base of due diligence for the determination of credit ratings. The information used as a base for the determination of credit rating herewith presented satisfies such policies, which include the audit by an independent auditor, the warranty made by the issuer, the publication by the issuer, some independent media or, otherwise, JCR analyst's scrutiny, etc.
- JCR sees no particular weakness in the quality of information used for the determination of the credit rating herewith presented as compared to the information used in other cases of the credit rating for comparable issuers or ratable objects.
- If the credit rating is an Indication, please see the report for Indication.

10 Information Relating to Conflicts of Interest as Required by Paragraph (a)(1)(ii)(J) of Rule 17g-7

- JCR receives payment of compensation for the determination of the credit rating herewith presented from either one of those parties who are issuer, underwriter, depositor or sponsor.
- JCR did not receive in the last fiscal year in the past payment of compensation from the same party for any kind of JCR's service other than the determination of public or private credit rating, such as one in the ancillary business.

11 Explanation or Measure of the Potential Volatility of the Credit Rating as Required by Paragraph (a)(1)(ii)(K) of Rule 17g-7

A) Business Bases

The credit rating is subject to alteration if there is improvement or deterioration of the issuer's business bases, since its revenue, etc. may improve or deteriorate by the change in its business management policies, clients' preferences, competitive situation, or a technological innovation. The resultant alteration of the credit rating is usually by a notch, with possibility of a few notches if and when the change in the business bases is large.

B) Financial Grounds and Asset Quality

The credit rating is subject to alteration if the issuer increases/ decreases its debt/ capital or vice versa and thereby makes its individual debt payment liability less or more bearable and its loss absorption capacity into the future decreased or increased. Also, the changes in the quality of asset under the issuer's holding may affect the credit rating, since such changes could raise or lower the likelihood of future loss of the issuer's financial grounds. The resultant alteration of the credit rating is usually by a notch, with possibility of a few notches if and when the change in the financial grounds and/ or asset quality is large.

C) Liquidity Positions

The credit rating is subject to alteration if there is a change in the issuer's financial management policy or in the relations with fund procurement sources and the change thereby makes its liquidity positions improve or deteriorate. The resultant alteration of the credit rating is usually by a notch, with possibility of a few notches if and when the change is large.

D) Related Parties' Status and Stance of Support/ Assistance for the Issuer

The credit rating is subject to alteration if there is a change in the issuer's parent company or subsidiary, guarantor or other provider of credit enhancement, or the government of the issuer's business domicile, or other related parties' own conditions and/ or position of support/ assistance for the issuer, and the change thereby makes its business bases, financial grounds and/ or liquidity positions improve or deteriorate, and/ or making the effectiveness of guarantee and other credit enhancement improve or deteriorate. The resultant alteration of the credit rating is usually a notch, with possibility of a few notches if and when the change is large.

E) Order of Seniority in Debt Payment and Non-Payment Forgiven by Contract

The credit rating is subject to alteration if there is a change in the rated debt's status in the order of seniority relative to other debts caused by the improvement/ deterioration of the issuer's financial condition. The resultant alteration of the credit rating is usually a notch, with possibility of a few notches if and when the change is large. Also, in case of the financial products for which non-payment of interest/ principal is contractually permissible, the credit rating is subject to alteration if and when the likelihood of such non-payment is projected to increase or decrease. The resultant alteration of the credit rating could be by a notch but often as much as a few notches.

F) Rise and Fall in General Economy and Markets

The credit rating is subject to alteration if there is a rise/ fall in the general economy and/ or the markets inducing the issuer's revenues/ expenses to increase/ decrease and vice versa, etc. The resultant alteration of the credit rating is usually by a notch, with possibility of a few notches if and when the change is exceptionally large.

G) Various Events

The credit rating is subject to alteration on occurrence of various events, such as change in the issuer's major shareholders, M&A and other organizational change, accident, violation of the law, litigation, legal/ regulatory change, natural disaster, etc., which are unforeseeable at the time when the credit rating is determined, causing a significant change on the issuer's business bases, financial grounds, etc. The resultant alteration of the credit rating could be by a notch but more often than not as much as a few notches.

12

Information on the Content of the Credit Rating, Including the Historical Performance of the Credit Rating and the Expected Probability of Default and the Expected Loss in the Event of Default as Required by Paragraph (a)(1)(ii)(L) of Rule 17g-7

- Historical records of the credit rating herewith presented are posted in the end of this paper.
- The credit rating herewith presented by JCR is its summary opinion with regard to the likelihood of given debt payment and hence not necessarily a perfect representation of such likelihood. The credit rating is not intended to estimate the probability of default or the loss on given default, either.
- Facts of the probability of default are posted as Form NRSRO Exhibit 1 on the JCR website under the URL:

<https://www.jcr.co.jp/en/service/company/regu/nrsro/>

13

Information on the Sensitivity of the Credit Rating to Assumptions Made as Required by Paragraph (a)(1)(ii)(M) of Rule 17g-7

A) Business Bases

The credit rating herewith presented could be changed if and when the assumptions made at the time of its determination turn out to be inaccurate with regard to the issuer's business bases and powers of earning or cash flow generation, etc. The resultant change of the credit rating is most likely by a notch, as JCR speculates, but possibly as much as a few notches if the development is rapid in improvement or deterioration of the issuer's business bases on some drastic change in the operational environments, etc.

B) Financial Grounds and Asset Quality

The credit rating herewith presented could be changed if and when the assumptions made at the time of its determination turn out to be inaccurate with regard to the issuer's financial grounds and asset quality. The resultant change of the credit rating is most likely by a notch, as JCR speculates, but

possibly as much as a few notches if the development is rapid in improvement or deterioration of the issuer's financial grounds and/ or asset quality on some drastic change in its business bases.

C) Liquidity Risks

The credit rating herewith presented could be changed if and when the assumptions made at the time of its determination turn out to be inaccurate with regard to the issuer's liquidity positions. The resultant change of the credit rating is most likely by a notch, as JCR speculates, but possibly as much as a few notches if the development is rapid in improvement or deterioration of the issuer's liquidity positions on some drastic change in its financial management policy or relations with fund procurement sources, etc.

D) Order of Seniority in Debt Payment and Non-Payment Forgiven by Contract

The credit rating herewith presented could be changed if and when the assumptions made at the time of its determination turn out to be inaccurate with regard to the order of seniority in repayment of interests and principal. JCR assumes the resultant change of the credit rating is most likely by a notch. The change could be as much as a few notches if the issuer's financial structure differs so much and thereby the balance between debts shifted so greatly. Rating change is also possible in case of the financial products for which non-payment of interest/ principal is contractually permissible, if and when the assumptions made at the time of its determination turns out to be inaccurate. The change of the credit rating is assumed to be by a notch but often as much as a few notches.

E) Rise and Fall in General Economy and Markets

The credit rating herewith presented could be changed if and when the assumptions made at the time of its determination turn out to be inaccurate with regard to the prospects of general economy and markets. JCR expects the change should be most likely by a notch but could be as much as a few notches, should the economy or the markets change so greatly.

14

Information on the Representations, Warranties, and Enforcement Mechanisms of an Asset-backed Security as Required by Paragraph (a)(1)(ii)(N) of rule 17g-7

- The credit rating herewith presented is not for an ABS product, and hence no relevant issue.

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The Historical Performance of the Credit Rating

Issuer Name	Issue Name	Publication Date	Rating	Outlook/Direction
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	March 19, 2003	BBB-	
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	March 19, 2004	BBB	
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	April 1, 2005	BBB	
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	April 7, 2006	BBB	Negative
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	March 30, 2007	BBB-	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	April 4, 2008	BBB-	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	April 27, 2009	BBB-	Negative
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	June 16, 2010	BBB-	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	July 25, 2011	BBB-	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	August 6, 2012	BBB-	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	September 9, 2013	BBB-	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	August 26, 2014	BBB-	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	July 21, 2015	BBB-	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	August 1, 2016	BBB-	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	August 24, 2017	BBB-	Positive
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	August 21, 2018	BBB	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	July 8, 2019	BBB	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	July 10, 2020	BBB	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	July 9, 2021	BBB	Stable
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	July 11, 2022	BBB	Positive
ISHIHARA SANGYO KAISHA,	Issuer(Long-term)	July 24, 2023	BBB+	Stable

Attestation Required by Paragraph (a)(1)(iii) of Rule 17g-7

I, Shigenobu Tonomura, have responsibility to this Rating Action and to the best of my knowledge:

- A) No part of the credit rating was influenced by any other business activities.
- B) The credit rating was based solely upon the merits of the obligor, security, or money market instrument being rated.
- C) The credit rating was an independent evaluation of the credit risk of the obligor, security, or money market instrument.

殿村 成信

Shigenobu Tonomura

General Manager of Corporate Rating Department II

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