

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

Mitsubishi Chemical Group Corporation (security code: 4188)

<Affirmation>

Long-term Issuer Rating:	A+
Outlook:	Stable
Bonds:	A+
Shelf Registration:	Preliminary A+

Rationale

- (1) Mitsubishi Chemical Group Corporation (the “Company”) is the holding company of Japan’s largest diversified chemical group (the “Mitsubishi Chemical Group”). The Mitsubishi Chemical Group operates four segments: Performance Products, Chemicals, Industrial Gases and Health Care. It offers a large number of highly competitive products such as high-performance plastic materials, as well as MMA with the world’s top share. The NIPPON SANSEI HOLDINGS Group in the Industrial Gases segment ranks fourth in the global market, while Mitsubishi Tanabe Pharma Corporation (“Mitsubishi Tanabe Pharma”) in Health Care enjoys its position as a leading supplier of ethical pharmaceuticals in Japan. The Company is currently working to maximize corporate value through the selection and concentration based on market growth, etc., further improvement of efficiency for the entire group and so forth. The ratings reflect the creditworthiness of the Mitsubishi Chemical Group as a whole.
- (2) The Company will probably continue solid performance despite strong downward pressure on overall results. The business environment is currently severe due to soaring prices of raw materials and fuels, global economic slowdown, etc., and the recently announced decision to not pursue the commercialization of COVID vaccine is also a harm to the growth strategy. However, Performance Products has generally stable earnings capacity on the back of well-diversified revenue sources, etc., and Industrial Gases is increasing profitability thanks to productivity improvement efforts and so forth. Moreover, Health Care, which has previously been weakening, is now turning around. Financial structure has yet to be fully improved, but there still is some leeway to observe future developments. Based on the above, JCR affirmed the ratings on the Company and retained the Stable outlook. As regards the divestiture/reorganization of the petrochemical and carbon businesses, details are still undecided at this point, but JCR assumes that it will not negatively affect the ratings in light of strategic rationality, etc.
- (3) The Company forecasts core operating income for the fiscal year ending March 2023 (FY2022) at 326 billion yen, up 19.7% from the previous year. Steady growth in Industrial Gases and a sharp rise in income in Health Care are expected to help push up overall results, offsetting a drastic fall in income for Chemicals due to softening market conditions and demand, especially for the MMA and petrochemical businesses. For Health Care, an arbitral award regarding royalty payments in relation to Gilenya, a treatment agent for multiple sclerosis, has been received, and these royalties, which previously were not recognized in the financial statements, will be recognized collectively as revenue. This, together with steady sales growth for priority and new products in Japan and North America, will be a major positive factor for the segment. On a separate note, operating income is expected to drop 34.0% to 200 billion yen primarily due to the posting of losses related to structural reforms in the MMA and health care businesses. For FY2023, while the elimination of the aforementioned positive factor in Health Care is projected to have some impact, cost reductions appear to be progressing faster than the plan, which will probably help boost future performance.
- (4) Interest-bearing debt still exceeds 2 trillion yen, and thus the improvement of the financial structure is being somewhat stagnant. Net D/E ratio as of December 31, 2022 was 1.45x; this is lower than 1.79x as at March 31, 2020 when the ratio rose due to the consolidation of Mitsubishi Tanabe Pharma but is still constrained by large working capital because of soaring raw material and fuel prices. In any case, the Company maintains its policy to improve financial soundness and intends to reduce interest-bearing debt further, along with reduction in inventory, business divestiture, etc. Equity attributable to owners of the parent amounts to as much as 1.5 trillion yen, providing the Company with a decent level of risk tolerance.

Shigenobu Tonomura, Takeshi Fujita

Rating

Issuer: Mitsubishi Chemical Group Corporation

<Affirmation>

Long-term Issuer Rating: A+ Outlook: Stable

Issue	Amount (bn)	Issue Date	Due Date	Coupon	Rating
Bonds no. 9	JPY 10	June 4, 2013	June 2, 2023	1.226%	A+
Bonds no. 12	JPY 15	Dec. 12, 2013	Dec. 12, 2023	0.918%	A+
Bonds no. 15	JPY 15	June 17, 2014	June 17, 2024	0.800%	A+
Bonds no. 17	JPY 10	June 4, 2015	June 4, 2025	0.755%	A+
Bonds no. 20	JPY 10	Dec. 3, 2015	Dec. 3, 2025	0.711%	A+
Bonds no. 22	JPY 10	June 9, 2016	June 9, 2026	0.320%	A+
Bonds no. 23	JPY 20	June 9, 2016	June 9, 2036	0.850%	A+
Bonds no. 24	JPY 15	Feb. 27, 2018	Feb. 25, 2028	0.370%	A+
Bonds no. 25	JPY 15	Feb. 27, 2018	Feb. 26, 2038	0.890%	A+
Bonds no. 26	JPY 12	Dec. 19, 2018	Dec. 19, 2028	0.420%	A+
Bonds no. 27	JPY 8	Dec. 19, 2018	Dec. 17, 2038	1.000%	A+
Bonds no. 28	JPY 5	Dec. 19, 2018	Dec. 18, 2048	1.388%	A+
Bonds no. 29	JPY 10	May 30, 2019	May 30, 2029	0.330%	A+
Bonds no. 30	JPY 12	May 30, 2019	May 30, 2039	0.830%	A+
Bonds no. 31	JPY 8	May 30, 2019	May 28, 2049	1.214%	A+
Bonds no. 32	JPY 20	Feb. 28, 2020	Feb. 26, 2027	0.230%	A+
Bonds no. 33	JPY 20	Feb. 28, 2020	Feb. 28, 2030	0.280%	A+
Bonds no. 34	JPY 30	Feb. 28, 2020	Feb. 28, 2040	0.690%	A+
Bonds no. 35	JPY 25	June 11, 2020	June 11, 2025	0.190%	A+
Bonds no. 36	JPY 15	June 11, 2020	June 11, 2030	0.400%	A+
Bonds no. 37	JPY 10	June 11, 2020	June 11, 2040	0.830%	A+
Bonds no. 38	JPY 10	Nov. 27, 2020	Nov. 27, 2030	0.360%	A+
Bonds no. 39	JPY 10	Nov. 27, 2020	Nov. 27, 2040	0.770%	A+
Bonds no. 40	JPY 20	June 3, 2021	June 3, 2026	0.090%	A+
Bonds no. 41	JPY 20	June 3, 2021	June 3, 2031	0.330%	A+
Bonds no. 42	JPY 30	June 3, 2021	June 3, 2041	0.740%	A+
Bonds no. 43	JPY 17	June 9, 2022	June 9, 2032	0.659%	A+

Shelf Registration: Preliminary A+

Maximum: JPY 400 billion

Valid: two years effective from September 8, 2022

Rating Assignment Date: February 14, 2023

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" (November 7, 2014), "Chemicals" (June 15, 2022), "Rating Methodology for a Holding Company" (January 26, 2015) and "Rating Viewpoints on Pure Holding Companies (Domestic Industrial Corporations)" (July 1, 2003) 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.

A preliminary rating is a credit rating assigned as a preliminary evaluation while material terms for issue to be rated are not yet finalized. When the issuing terms are finalized, JCR will confirm them and will assign a credit rating anew. The rating level of the final rating may be different from that of the preliminary rating, depending on the final content of the terms, etc.

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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:	Mitsubishi Chemical Group Corporation
Rating Publication Date:	February 17, 2023

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.

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

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 parent company or subsidiaries, guarantor or other providers of credit enhancement, the government of the issuer's business domicile or other related parties' status and stance of support/ assistance for the issuer. 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 there is a major change on the part of related parties, such as replacement, disappearance, some drastic improvement/ deterioration of financial grounds/ balances, etc.

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.

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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
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	July 29, 2010	A+	Stable
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	December 22, 2011	A+	Stable
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	November 21, 2012	A+	Stable
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	November 14, 2013	A+	Stable
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	January 27, 2015	A+	Stable
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	February 15, 2016	A+	Stable
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	March 28, 2016	A+	Stable
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	February 17, 2017	A+	Stable
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	February 16, 2018	A+	Positive
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	February 19, 2019	A+	Stable
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	February 17, 2020	A+	Stable
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	February 18, 2021	A+	Stable
Mitsubishi Chemical Group Corporation	Issuer(Long-term)	February 22, 2022	A+	Stable
Mitsubishi Chemical Group Corporation	Shelf Registration	September 8, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.9	May 29, 2013	A+	
Mitsubishi Chemical Group Corporation	Bonds no.9	November 14, 2013	A+	
Mitsubishi Chemical Group Corporation	Bonds no.9	January 27, 2015	A+	
Mitsubishi Chemical Group Corporation	Bonds no.9	February 15, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.9	March 28, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.9	February 17, 2017	A+	
Mitsubishi Chemical Group Corporation	Bonds no.9	February 16, 2018	A+	
Mitsubishi Chemical Group Corporation	Bonds no.9	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.9	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.9	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.9	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.12	December 6, 2013	A+	
Mitsubishi Chemical Group Corporation	Bonds no.12	January 27, 2015	A+	
Mitsubishi Chemical Group Corporation	Bonds no.12	February 15, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.12	March 28, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.12	February 17, 2017	A+	
Mitsubishi Chemical Group Corporation	Bonds no.12	February 16, 2018	A+	

The Historical Performance of the Credit Rating

Issuer Name	Issue Name	Publication Date	Rating	Outlook/Direction
Mitsubishi Chemical Group Corporation	Bonds no.12	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.12	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.12	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.12	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.15	June 11, 2014	A+	
Mitsubishi Chemical Group Corporation	Bonds no.15	January 27, 2015	A+	
Mitsubishi Chemical Group Corporation	Bonds no.15	February 15, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.15	March 28, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.15	February 17, 2017	A+	
Mitsubishi Chemical Group Corporation	Bonds no.15	February 16, 2018	A+	
Mitsubishi Chemical Group Corporation	Bonds no.15	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.15	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.15	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.15	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.17	May 29, 2015	A+	
Mitsubishi Chemical Group Corporation	Bonds no.17	February 15, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.17	March 28, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.17	February 17, 2017	A+	
Mitsubishi Chemical Group Corporation	Bonds no.17	February 16, 2018	A+	
Mitsubishi Chemical Group Corporation	Bonds no.17	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.17	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.17	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.17	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.20	November 27, 2015	A+	
Mitsubishi Chemical Group Corporation	Bonds no.20	February 15, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.20	March 28, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.20	February 17, 2017	A+	
Mitsubishi Chemical Group Corporation	Bonds no.20	February 16, 2018	A+	
Mitsubishi Chemical Group Corporation	Bonds no.20	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.20	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.20	February 18, 2021	A+	

The Historical Performance of the Credit Rating

Issuer Name	Issue Name	Publication Date	Rating	Outlook/Direction
Mitsubishi Chemical Group Corporation	Bonds no.20	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.22	June 3, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.22	February 17, 2017	A+	
Mitsubishi Chemical Group Corporation	Bonds no.22	February 16, 2018	A+	
Mitsubishi Chemical Group Corporation	Bonds no.22	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.22	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.22	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.22	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.23	June 3, 2016	A+	
Mitsubishi Chemical Group Corporation	Bonds no.23	February 17, 2017	A+	
Mitsubishi Chemical Group Corporation	Bonds no.23	February 16, 2018	A+	
Mitsubishi Chemical Group Corporation	Bonds no.23	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.23	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.23	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.23	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.24	February 21, 2018	A+	
Mitsubishi Chemical Group Corporation	Bonds no.24	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.24	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.24	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.24	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.25	February 21, 2018	A+	
Mitsubishi Chemical Group Corporation	Bonds no.25	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.25	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.25	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.25	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.26	December 13, 2018	A+	
Mitsubishi Chemical Group Corporation	Bonds no.26	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.26	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.26	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.26	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.27	December 13, 2018	A+	

The Historical Performance of the Credit Rating

Issuer Name	Issue Name	Publication Date	Rating	Outlook/Direction
Mitsubishi Chemical Group Corporation	Bonds no.27	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.27	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.27	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.27	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.28	December 13, 2018	A+	
Mitsubishi Chemical Group Corporation	Bonds no.28	February 19, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.28	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.28	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.28	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.29	May 24, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.29	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.29	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.29	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.30	May 24, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.30	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.30	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.30	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.31	May 24, 2019	A+	
Mitsubishi Chemical Group Corporation	Bonds no.31	February 17, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.31	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.31	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.32	February 21, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.32	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.32	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.33	February 21, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.33	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.33	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.34	February 21, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.34	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.34	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.35	June 5, 2020	A+	

The Historical Performance of the Credit Rating

Issuer Name	Issue Name	Publication Date	Rating	Outlook/Direction
Mitsubishi Chemical Group Corporation	Bonds no.35	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.35	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.36	June 5, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.36	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.36	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.37	June 5, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.37	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.37	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.38	November 20, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.38	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.38	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.39	November 20, 2020	A+	
Mitsubishi Chemical Group Corporation	Bonds no.39	February 18, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.39	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.40	May 28, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.40	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.41	May 28, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.41	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.42	May 28, 2021	A+	
Mitsubishi Chemical Group Corporation	Bonds no.42	February 22, 2022	A+	
Mitsubishi Chemical Group Corporation	Bonds no.43	June 3, 2022	A+	

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

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