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| **Calculation Methodology**  **for the MOEX ESG Indices** | |
| **Moscow Exchange**  **2019** | |

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# General provisions

* 1. Terms and definitions
     1. For the purpose of this Calculation Methodology for the MOEX RSPP ESG Indices (the “Methodology”), the following terms and definitions are applied:
        + - Stocks means stocks of Russian issuers admitted to trading on the Exchange as well as stocks and depositary receipts representing stocks of foreign issuers having their business activity primarily in the Russian Federation. Stocks do not include stocks issued by joint stock investment funds.
          - Constituents means a list of securities used to calculate the Indices.
          - The Exchange, Moscow Exchange means Public Joint-Stock Company Moscow Exchange MICEX-RTS.
          - Index Review Date means a trading day immediately preceding the day when changes to the Index’s Constituents and/or Constituents’ Parameters are announced.
          - Index means an indicator calculated by the Exchange on the basis of on-exchange trades in securities to track changes in the RUB-denominated aggregate value of a certain group of securities.
          - Free Float Factor means an adjusting coefficient used to consider the number (percentage) of stocks or represented stocks floating on the market.
          - Index Constituents’ Parameters means parameters of Stocks used to calculate the Indices (free float, number, Weighting Factor)
          - Stock Weight means the share (in percent) of the Stock in the aggregate value of all Constituents.
          - Issuer means an entity issued ordinary, preferred or represented stocks.
     2. Terms not specifically defined herein shall be construed in accordance with other documents of the Exchange as well as the law and regulatory acts of the Bank of Russia.
  2. Overview
     1. This Methodology is applicable to the following composite equity indices:
        1. The MOEX-RSPP Responsibility and Transparency Index. It provides exposure to those companies that disclose the most complete information about their activity in the fields of sustainability and corporate social responsibility. The Index code is MRRT.
        2. The MOEX-RSPP Sustainability Vector Index. It includes companies that show the best progress in terms of Environmental, Social and Governance (ESG) compared to the previous year. The Index code is MRSV.
     2. This Methodology has been designed with support from the Russian Union of Industrialists and Entrepreneurs (RSPP).
     3. The wording “Индекс МосБиржи” is the trademark owned by Moscow Exchange. It is registered in the Russian State Register of Trademarks and Service Marks on 18 September 2017 (trademark certificate No. 630519). The wording “MOEX” is the trademark owned by Moscow Exchange. It is registered by the Federal Service for Intellectual Property in the Russian State Register of Trademarks and Service Marks on 29 August 2014 (trademark certificate No. 521450).
     4. The Methodology as well as any amendments and supplements thereto are adopted and introduced by the Exchange.
     5. The Methodology can be amended or supplemented once a quarter or less frequently. Any updates to the Methodology are announced on the Exchange’s website at least three business days before they take effect.

# Index Calculation

* 1. Calculation procedure
     1. The Indices are computed by dividing the aggregate value (total capitalization) of all Stocks as of the calculation moment by the value of divisor by the following formula:

where:

In – the Index value as of the nth moment of the Index calculation;

MCn – aggregate value (total capitalization) of all Stocks as of the nth moment of the Index calculation determined in accordance with Clause 2.1.2 hereof;

Dn – the value of the Divisor at the nth moment of the Index calculation;

The Divisor means the aggregate value (capitalization) of all Stocks as of the Index inception date, corrected with regard to the changes in Constituents and the initial Index value. On the Index inception day the following formula is used to calculate the Divisor:

where:

MC1 – aggregate value (total capitalization) of all Stocks as of the Index inception date;

I1 – the Index value as of the Index inception date.

On the next days the Divisor remains unchanged (Dn=Dn-1) except where Clause 2.5 hereof provides otherwise.

* + 1. The MOEX-RSPP Responsibility and Transparency Index was first calculated for 30 December 2011 at I1 = 1,000.
    2. The MOEX-RSPP Sustainability Vector Index was first calculated for 30 December 2011 at I1 = 1,000.
    3. The aggregate value of all Stocks as of the nth moment of the Index calculation is calculated as follows:

where:

N – the total number of Stocks;

MCi – market capitalization of the ith Stock.

* + 1. Value (market capitalization) of the ith Stock is calculated as follows:

where:

Pi – price of the ith Stock in RUB;

Qi – total number of the ith Stocks of one category (type) of one Issuer;

FFi– a free float factor of the ith Stock;

Wi – a coefficient restricting the proportion of the ith Stock’s capitalization. It equals 1 unless otherwise set out in Clause 2.4.

* + 1. MCi is calculated to four decimals.
    2. The Index is expressed in points and rounded to two decimals.
  1. Calculation of the Stock’s price
     1. The price of the ith Stock (Pi) is its price at the close of trading on the Exchange (the closing price determined according to the MOEX Trading Rules for the Equity and Bond as well as Deposit Markets).
     2. Where two or more stock issues of one Issuer and one category (type) with different state registration numbers are admitted to trading on the Exchange, trades in stocks of the principal issue shall be considered in order to determine the price of the ith Stock; the price of the additional issue stock may be used by the Exchange’s decision.
     3. The price of the ith Stock (Pi) is calculated accurate to the tick size set in accordance with the trading rules for the Equity and Bond Market and Deposit Market.
     4. The procedure for calculating the price of the ith Stock (Pi) specified in Clauses 2.2.1–2.2.2 above is not used in cases provided for by Clause 3.2.3 below.
  2. Determining the number of Stocks and the Free Float Factor
     1. For the purpose hereof, the total number of stocks (Qi) is determined as the total of number of the ith stocks of the principal issue less retired (cancelled) stocks except where the Exchange provides otherwise. In case of depository receipts representing stocks, the total number of the ith represented stocks (Qi) is determined as the total number of represented stocks divided by the number of represented stocks of which the ownership is certified by one depository receipt in the issue.
     2. The total number of the ith Stocks (Qi) is calculated based on the results of the Index Review Date was disclosed except where Clause 3.2.3 hereof provides otherwise.
     3. The value of a Free Float Factor (FFi) is determined on the basis of information disclosed by Issuers, as well as other public information on the Issuer’s stocks and/or represented stocks’ holders, including beneficial owners.
     4. The total number of stocks is determined as the number of the Issuer’s outstanding and/or represented stocks of one category and type according to available information as of the calculation date. The number of free-floating stocks is calculated through deducting stocks which are not free-floating from the total number of the Issuer’s stocks. The value of a Free Float Factor is calculated as the ratio of the number of free-floating stocks to the Issuer’s total number of stocks.
     5. Values of Free Float Factors are approved by the Exchange on a quarterly basis on or before the first Thursday of March, June, September and December. The Exchange may decide to change the approval date of the Free Float Factor on the basis of information on material changes to the equity structure, as well as admission of the Stock to the Exchange’s listing or the Growth Sector.
     6. The Exchange may not adjust the Free Float Factor currently exceeding 15% if its last change was no more than two percentage points.
     7. Values of Free Float Factors are determined, revised and disclosed and the number of the Issuer’s (represented) free-floating stocks (of one category and type) are determined for the purpose of setting the Free Float Factor on the basis of the Free Float Factor Methodology approved by the Exchange.

* 1. Calculation of the Weighting Factor
     1. The ith Stock Weight is calculated according to the following formula:

where:

Wghti – the Weight of the ith Stock;

MCi – market capitalization of the ith Stock

N – the total number of Stocks.

* + 1. The Weight of Stocks of one Issuer is calculated as the sum of Weights of Stocks of the same category of the Issuer.
    2. To mitigate the impact of a specific Stock on the Index, the weighting factor Wi is applied. Wi is calculated to cap the Weight of a specific Stock and/or Issuer. Types and values of the caps applicable to the Weight are given in Appendix 1.
    3. To effect restrictions set out in Clause 2.4.3, the Issuers Weights are adjusted as follows:
       - * Where the Issuer Weight or a sum of Issuers Weights in the Index Constituents exceeds the value specified in Appendix 1 hereto, the Weight is set equal to that value.
         * The difference between limited and unlimited Weights is divided between Issuers with an unlimited Weight on a pro rata basis.
         * The above-mentioned operations are repeated until there are Issuers with a Weight exceeding the value set in Appendix 1 hereto.
    4. The Weighting Factor Wi of the ith Stock serves as the market cap limit coefficient for the stock and depends on the ith Stocks Weight. Weighting factor Wi can be anything between 0 and 1, with accuracy to seven decimal places according to the rounding rule. Weighting factors are calculated at the end of the Index Review Date.
  1. Calculation of the Divisor
     1. The Divisor Dn is calculated where Index Constituents, a Free Float Factor, Wi Factors restricting the proportion of the ith Stocks capitalization (weighting factors) have changed, and (or) corporate events specified in Clause 3.2 hereof have occurred.
     2. The Divisor Dn is calculated according to the following formula:

where:

Dn+1 – new value of D;

Dn – current value of D;

MCn – aggregate value of all Stocks prior to the event constituting grounds for calculation of a new value of D, according to Clause 2.5.1 hereof;

MCn' – aggregate value of all Stocks after the event constituting grounds for calculation of a new value of D according to Clause 2.5.1 hereof.

* + 1. The value of Dn is calculated to four decimal places according to the rounding rule.

# Index construction and review

* 1. Eligible universe
     1. The eligible universe of the MOEX-RSPP Responsibility and Transparency Index is constructed based on Stocks listed on MOEX which are selected by the RSPP to Russia’s largest companies and ranged by their ESG disclosure scores determined annually.
     2. The eligible universe of the MOEX-RSPP Sustainability Vector Index is constructed based on Stocks listed on MOEX which are selected by the RSPP to Russia’s largest companies and ranged by their ESG progress scores determined annually.
     3. The Index list includes names of Issuers, category (type) of stocks, names of Issuers of depository receipts.
  2. Index reviews
     1. Stocks are added to and removed from the Index at Index Review.
     2. Only ordinary shares of Issuers are eligible for the Index.
     3. The Indices are reviewed once a year or less frequently except for cases set out in this Methodology. The Index Constituents are selected out of Stocks in the lists of securities to be added to the Index. The list is submitted to the Exchange by the RSPP. Changes to the Index Constituents are made effective by the Exchange at next recalculation of the Constituents’ Parameters. The Exchange may set other effective date for the Index Constituents.
     4. The Constituents’ Parameters are reviewed once a quarter or less frequently except for cases set out in this Methodology. Changes to the Constituents’ Parameters are made effective at the beginning of the main trading session of the trading day following the third Thursday of March, June, September and December, except where the Exchange decides to establish other effective date.
     5. Unscheduled reviews of the Index may occur due to:
        + - The relevant notice received by the Exchange from the RSPP;
          - Deletion of the Stock from the list of securities admitted to trading on the Exchange, as well as from quotation lists;
          - Restriction of trading in Stocks;
          - The Issuer being under reorganization or liquidation; an additional security issue being offered; the securities being retired (cancelled) e.g. through the conversion or buying back (purchase) them by the Issuer;
          - other events which can have a material effect on Index calculation have occurred.
     6. Regularly made changes to the Index Constituents and/or Constituents Parameters are in general announced at least two weeks prior to the effective date.
     7. Extraordinary changes to the Index Constituents and/or Constituents Parameters are announced not later than the effective date.
  3. Treatment of corporate events
     1. If represented stocks have been split or consolidated or scope of rights and/or procedure for exercising rights carried by the represented stocks pursuant to the foreign law have been changed, the Exchange shall make a resolution on treating such events.
     2. Suspension of trading in Stocks on the Exchange.

If trading in the ith Stock suspended at the Exchange for the period that is more than one trading day, then the price measured in Indices shall remain equal to the last price that had been calculated before the suspension.

* + 1. Placement of additional Stocks, redemption of Stocks.

Admission of the ith Stocks of additional issue to trading on the Exchange and redemption (cancellation) of the ith Stocks do not serve as grounds for recalculation of the total number of the ith Stocks (Qi). The given recalculation is performed in accordance with the established procedure and in due time specified in Clause 2.3.1 hereof.

* + 1. Split and reverse split of stocks.

In case of a split or reverse split of the ith Stocks on the day the resulting stocks issue, which the mentioned Stock was converted into due to their consolidation or split, is admitted to trading the Exchange recalculates the total number of ith Stocks (Qi) and the price of the ith Stock (Pi), that was computed by the results of trading on the day preceding the day specified. During the recalculation the total number of ith Stocks (Qi) is multiplied by the split ratio or divided by the reverse split ratio, and the ith Stock’s price (Pi) is divided by the split ratio or multiplied by the reverse split ratio.

* + 1. Reorganization of a joint stock company, whose shares are included into the List of constituent Stocks.

When a joint stock company is reorganized, certain actions are taken to reflect the fact of reorganization in the process of calculating the Index. Depending on the form of reorganization various actions can be undertaken. It is the Exchange who takes the decision on the kind of action to undertake. Information on the adopted resolutions is disclosed in accordance with Clause 4.3 hereof.

* + 1. A model plan of actions in case of reorganization of a company whose stocks are on the constituent list:
       1. Merger of joint stock companies.

In case of merger Stocks of reorganized companies are excluded from the List of constituent Stocks within the timeframe determined by the Exchange.

* + - 1. Reorganization of a joint stock company in the form of split-off.

In case of split-off Stocks of the reorganized company are removed from the List of constituent Stocks within the timeframe determined by the Exchange.

* + - 1. Reorganization of a joint stock company in the form of spin-off.

In case of spin-off, the price for the reorganized company’s Stocks (ith Stocks’ price) (Pi) is locked in at the level determined based on the trading results on the day preceding the lock-in day. The lock-in day and the terms of unlocking the price of the ith Stock (Pi), are by the Exchange. On the day of unlocking the price of the ith Stock (Pi) the Exchange recalculates the total number of the ith Stocks (Qi) and Divisor D.

* + - 1. Reorganization of a joint stock company in the form of acquisition.

In case of acquisition of a joint stock company by another joint stock company, whose Stocks are included into the List of constituent Stocks, the price of the Stocks (ith Stocks) (Pi) is locked in at the level determined based on the trading results on the day preceding the lock-in day. The lock-in day and the terms of unlocking the price for the ith Stock (Pi) are determined by the Exchange. On the day of unlocking the price of the ith Stock (Pi) the recalculation of the total number of the ith Stocks (Qi) and Divisor D shall take place.

In case of acquisition of a joint stock company whose Stocks are included into the List of constituent Stocks by another joint stock company the Stocks are removed from the List of constituent Stocks within the timeframe determined by the Exchange.

* + - 1. Reorganization of a joint stock company whose Stocks are included into the List of constituent Stocks in the form of split-off or spin-off with simultaneous merger or acquisition.

In case of spin-off of a joint stock company from a joint stock company whose Stocks are included into the List of constituent Stocks with a simultaneous acquisition of the latter by a stock company whose Stocks are included into the List of constituent Stocks, the rules specified in Clause 3.3.6.3 hereof are applied to the spin off and the rules specified in the second paragraph of Clause 3.3.6.4 hereof, are applied to the acquisition except for the requirement to recalculate Divisor D.

In case of spin-off of a joint stock company from a joint stock company whose Stocks are included into the List of constituent Stocks with a simultaneous acquisition of the latter by a joint stock company whose Stocks are included into the List of constituent Stocks, the rules specified in Clause 3.3.6.3 hereof are applied.

In case of spin-off of a joint stock company from a joint stock company whose Stocks are included into the List of constituent Stocks with a simultaneous merger of the latter by a joint stock company whose Stocks are included into the List of constituent Stocks, the rules specified in Clause 3.3.6.3 hereof are applied to the spin off and the rules specified in Clause 3.3.6.1 hereof are applied to the merger.

In case of spin-off of a stock company from a stock company whose Stocks are included into the List of constituent Stocks with a simultaneous merger of the latter with a joint stock company whose Stocks are not included into the List of constituent Stocks, the rules specified in Clause 3.3.6.3 hereof are applied.

In case of spin-off of a joint stock company from a joint stock company whose Stocks are included into the List of constituent Stocks with a simultaneous acquisition of the latter with a joint stock company whose Stocks are included into the List of constituent Stocks, the rules specified in Clause 3.3.6.2 hereof are applied to the spin off and the rules specified in Clause 3.3.6.4 herein are applied to the acquisition, except for the requirement to recalculate Divisor D.

In case of spin-off of a joint stock company from a joint stock company whose Stocks are included into the List of constituent Stocks with a simultaneous acquisition of the latter by a joint stock company whose Stocks are not included into the List of constituent Stocks, the rules specified in Clause 3.3.6.2 hereof are applied.

In case of spin-off of a joint stock company from a joint stock company whose Stocks are included into the List of constituent Stocks with a simultaneous merger of the latter with a joint stock company whose Stocks are included into the List of constituent Stocks, the rules specified in Clause 3.3.6.2 hereof are applied to the spin off and the rules specified in Clause 3.3.6.1 hereof are applied to the merger.

In case of spin-off of a stock company from a stock company whose Stocks are included into the List of constituent Stocks with a simultaneous merger of the latter with a joint stock company whose Stocks are not included into the List of constituent Stocks, the rules specified in Clause 3.3.6.2 hereof are applied.

# Indices Calculation and Disclosure Rules

* 1. Calculation Schedule
     1. The Indices are calculated once a day at the close of the main trading session. The only daily values of the Indices are their then-current values at the same time as well as closing values valid till their next calculation on the next trading day.
     2. Unless otherwise prescribed in the Bank of Russia’s regulatory acts, the Exchange may change the time of calculation of the Indices. MOEX trading members are notified on decisions made by the Exchange under this clause at least five business days before the decision is to be implemented, unless the Exchange sets other date.
  2. Indices Calculation Control
     1. Activities to build, calculate and update the Indices and this Methodology fall within the framework of Moscow Exchange Index management Policy.
     2. Where a technical failure occurs while the Indices is being calculating, or on-Exchange trades in securities, which has resulted in corruption of data used to calculate indices, recalculation of the previous index values is possible. Such recalculation is carried out within the shortest possible time from the moment the technical failure has been detected. Information on the Indices as recalculated is published on the Exchange’s website.
     3. Where events have occurred which can have a negative effect on the adequacy of the Indices reflecting the actual state of the Russian financial market, the Exchange may take any actions to ensure adequacy of the Indices, e.g. remove Stocks from Index Constituents, set values of parameters used to calculate indicators provided for herein etc.
  3. Information Disclosure
     1. Information disclosure stipulated in this Methodology and the Bank of Russia’s regulatory acts is performed on the Exchange’s website.
     2. Where the Exchange changes measures to calculate the Indices that are based on a subjective (expert) opinion, it publishes information on reasons of such change on its website within one day after the measures were changed.
     3. The Indices’ values are announced every trading day at least one hour before the close of the main trading session.
     4. This Methodology, as well as information on closing values of the Indices are publicly available on the Exchange’s website alongside their history over the past year.
     5. Information to be disclosed according to this Methodology may also be disseminated in other ways, e.g. through information agencies spreading information on on-Exchange trades in securities.