

Quantitative Disclosure

As of December 31st, 2016 - All financial data in BRL, unless otherwise specified

CREDIT RISK

| 4.1 | Total value of default resources (excluding initial and retained variation margin), split by clearing service if default funds are segregated by clearing service Quarterly - As at quarter end | | |
|--------|--|--------------|-------------------------------|
| 4.1.1 | Prefunded resources - Own capital used before member contributions | | 296,000,000 |
| 4.1.2 | Prefunded resources - Own capital used alongside member contributions | | - |
| 4.1.3 | Prefunded resources - Own capital used after member contributions | | - |
| 4.1.4 | Prefunded resources - Aggregate participant contributions - required amount | | 296,000,000 |
| 4.1.5 | Prefunded resources - Aggregate participant contributions - posted amount | Post-haircut | 392,482,065 |
| 4.1.6 | Prefunded resources - Other | | 2,814,084,742 |
| 4.1.7 | Committed resources - Own/parent funds committed to address a participant default (or round of participant defaults) | | - |
| 4.1.8 | Committed resources - Aggregate participant commitments to address an initial participant default (or initial round of participant defaults) | | - |
| 4.1.9 | Committed resources - Aggregate participant commitments to replenish the default fund to deal with a subsequent participant default (or round of participant defaults) after the initial participant default (or round of participant defaults) has been addressed | | 290,000,000 See note 4.1.9 |
| 4.1.10 | Committed resources - Other | | - |

| 4.2 | K _{CCP} Quarterly - As at quarter end | | |
|-------|--|--|---|
| 4.2.1 | K _{CCP} (reported only by CCPs which are or seek to be a "qualifying CCP" under relevant law) | | - |

| 4.3 | Value of pre-funded default resources (excluding initial and retained variation margin) held for each clearing service, in total and split by asset type Quarterly - As at quarter end | | |
|--------|---|-----------------------------|--------------------------------|
| 4.3.1 | Cash deposited at a central bank of issue of the currency concerned | Pre-haircut Post-haircut | Not applicable |
| 4.3.2 | Cash deposited at other central banks | Pre-haircut Post-haircut | Not applicable |
| 4.3.3 | Secured cash deposited at commercial banks (including reverse repo) | Pre-haircut Post-haircut | - - |
| 4.3.4 | Unsecured cash deposited at commercial banks | Pre-haircut PostHaircut | - - |
| 4.3.5 | Non-cash Sovereign government bonds - Domestic | Pre-haircut Post-haircut | 3,411,265,659 3,385,083,747 |
| 4.3.6 | Non-cash Sovereign government bonds - Other | Pre-haircut Post-haircut | Not eligible |
| 4.3.7 | Non-cash Agency bonds | Pre-haircut Post-haircut | Not eligible |
| 4.3.8 | Non-cash State/municipal bonds | Pre-haircut Post-haircut | Not eligible |
| 4.3.9 | Non-cash Corporate bonds | Pre-haircut Post-haircut | Not eligible |
| 4.3.10 | Non-cash Equities | Pre-haircut PostHaircut | - - |
| 4.3.11 | Non-cash Commodities - gold | Pre-haircut Post-haircut | - - |
| 4.3.12 | Non-cash Commodities - other | Pre-haircut Post-haircut | Not eligible |
| 4.3.13 | Non-cash Mutual funds / UCITs | Pre-haircut Post-haircut | Not eligible |
| 4.3.14 | Non-cash Other (explanation of type of asset must be provided) | Pre-haircut Post-haircut | 111,521,000 111,521,000 |
| 4.3.15 | Total | Pre-haircut Post-haircut | 3,522,786,659 3,496,604,747 |

| 4.4 | Credit risk disclosures Quarterly | | |
|-------|---|---|--|
| 4.4.1 | Minimum requirement the CCP is subject to in relation to total pre-funded default resources ("Cover 1" or "Cover 2") | | Cover 2 |
| 4.4.2 | Number of business days within which the CCP assumes it will close out the default when calculating credit exposures that would potentially need to be covered by the default fund. | | Up to 10 For details per contract type and liquidity constraints, please refer to 6.4.11. |
| 4.4.3 | The estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions. | Peak Day Amount In Previous 12 Months Mean Average Over Previous 12 Months | 317.000.000 Please refer to note 4.4 287,000,000 |

| | | | |
|--------|---|---------------------------------------|---|
| 4.4.4 | Number of business days, if any, on which the above amount (4.4.3) exceeded actual pre-funded default resources (in excess of initial margin) | | - |
| 4.4.5 | The amount in 4.4.3 which exceeded actual pre-funded default resources (in excess of initial margin) | Amount Exceeded (on each day) | - |
| 4.4.6 | The actual largest aggregate credit exposure (in excess of initial margin) to any single participant and its affiliates (including transactions cleared for indirect participants) | Peak Day Amount In Previous 12 Months | 1,893,289,604 |
| | | Mean Average Over Previous 12 Months | 44,840,249 |
| 4.4.7 | The estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any two participants and their affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions. | Peak Day Amount In Previous 12 Months | 539.000.000 Please refer to note 4.4 |
| | | Mean Average Over Previous 12 Months | 500.000.000 Please refer to note 4.4 |
| 4.4.8 | Number of business days, if any, on which the above amount (4.4.7) exceeded actual pre-funded default resources (in excess of initial margin). | | - |
| 4.4.9 | The amount in 4.4.7 which exceeded actual pre-funded default resources (in excess of initial margin) | Amount Exceeded | - |
| 4.4.10 | The actual largest aggregate credit exposure (in excess of initial margin) to any two participants and their affiliates (including transactions cleared for indirect participants) | Peak Day Amount In Previous 12 Months | 1,893,649,278 |
| | | Mean Average Over Previous 12 Months | 66,141,594 |

COLLATERAL

| | | | |
|-------|--|--|--|
| 5.1 | Assets eligible as initial margin and the respective haircuts applied <i>Update as changes are made</i> | | |
| 5.1.1 | Assets eligible as initial margin and the respective haircuts applied | | Link Link |

| | | | |
|-------|---|--|--|
| 5.2 | Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied (if different from 5.1) <i>Update as changes are made</i> | | |
| 5.2.1 | Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied (if different from 5.1) | | Same assets and haircuts as 5.1.1, except by US dollars and US treasuries. |

| | | | |
|-------|---|--|--------------------------|
| 5.3 | Results of testing of haircuts <i>Quarterly</i> | | |
| 5.3.1 | Confidence interval targeted through the calculation of haircuts | | 99.96% See note 5.3.1 |
| 5.3.2 | Assumed holding/liquidation period for the assets accepted | | From 1 to 10 days |
| 5.3.3 | Look-back period used for testing the haircuts | | See note 5.3.3 |
| 5.3.4 | Number of days during the look-back period on which the fall in value during the assumed holding/liquidation period exceeded the haircut on an asset. | | See note 5.3.4 |

MARGIN

| | | | |
|-------|---|--------------|---------------------------------|
| 6.1 | For each clearing service, total initial margin required, split by house and client (or combined total if not segregated) <i>Quarterly - As at quarter end</i> | | |
| 6.1.1 | Total initial margin required At BM&FBOVESPA Clearinghouse initial margin is required at the individual client level (i.e initial margin is provided for the positions of each individual client's own positions). | House net | Not applicable. See note 6.1 |
| | | Client gross | 131,945,531,141 |
| | | Client net | Not applicable. See note 6.1 |
| | | Total | 131,945,531,141 |

| | | | |
|-------|---|--------------------------|-----------------|
| 6.2 | For each clearing service, total initial margin held, split by house and client <i>Quarterly - As at quarter end</i> | | |
| 6.2.1 | Cash deposited at a central bank of issue of the currency concerned | | Not applicable |
| 6.2.2 | Cash deposited at other central banks | | Not applicable |
| 6.2.3 | Secured cash deposited at commercial banks (including reverse repo) | House IM - Pre haircut | See note 6.1 |
| | | House IM - Post haircut | |
| | | Client IM - Pre haircut | 812,250 |
| | | Client IM - Post haircut | 812,250 |
| | | Total IM - Pre haircut | 812,250 |
| | | Total IM - Post haircut | 812,250 |
| 6.2.4 | Unsecured cash deposited at commercial banks | House IM - Pre haircut | See note 6.1 |
| | | House IM - Post haircut | |
| | | Client IM - Pre haircut | 46,004,177 |
| | | Client IM - Post haircut | 46,008,500 |
| | | Total IM - Pre haircut | 46,004,177 |
| | | Total IM - Post haircut | 46,008,500 |
| 6.2.5 | Non-cash Sovereign government bonds - Domestic | House IM - Pre haircut | See note 6.1 |
| | | House IM - Post haircut | |
| | | Client IM - Pre haircut | 160,225,889,250 |
| | | Client IM - Post haircut | 160,423,428,357 |
| | | Total IM - Pre haircut | 160,225,889,250 |
| | | Total IM - Post haircut | 160,423,428,357 |
| 6.2.6 | Non-cash Sovereign government bonds - Other | House IM - Pre haircut | See note 6.1 |
| | | House IM - Post haircut | |
| | | Client IM - Pre haircut | - |
| | | Client IM - Post haircut | - |
| | | Total IM - Pre haircut | - |
| | | Total IM - Post haircut | - |
| 6.2.7 | Non-cash Agency bonds | House IM - Pre haircut | Not eligible |
| | | House IM - Post haircut | |
| | | Client IM - Pre haircut | |
| | | Client IM - Post haircut | |
| | | Total IM - Pre haircut | |
| | | Total IM - Post haircut | |

| | | | |
|--------|-----------------------------------|--------------------------|---------------|
| 6.2.8 | Non-cash State/municipal bonds | House IM - Pre haircut | Not eligible |
| | | House IM - Post haircut | |
| | | Client IM - Pre haircut | |
| | | Client IM - Post haircut | |
| | | Total IM - Pre haircut | |
| | | Total IM - Post haircut | |
| 6.2.9 | Non-cash Corporate bonds | House IM - Pre haircut | Not eligible |
| | | House IM - Post haircut | |
| | | Client IM - Pre haircut | |
| | | Client IM - Post haircut | |
| | | Total IM - Pre haircut | |
| | | Total IM - Post haircut | |
| 6.2.10 | Non-cash Equities | House IM - Pre haircut | See note 6.1 |
| | | House IM - Post haircut | |
| | | Client IM - Pre haircut | 6,651,968,135 |
| | | Client IM - Post haircut | 5,036,052,147 |
| | | Total IM - Pre haircut | 6,651,968,135 |
| | | Total IM - Post haircut | 5,036,052,147 |
| 6.2.11 | Non-cash Commodities - gold | House IM - Pre haircut | See note 6.1 |
| | | House IM - Post haircut | |
| | | Client IM - Pre haircut | |
| | | Client IM - Post haircut | |
| | | Total IM - Pre haircut | |
| | | Total IM - Post haircut | |
| 6.2.12 | Non-cash Commodities - other | House IM - Pre haircut | Not eligible |
| | | House IM - Post haircut | |
| | | Client IM Pre haircut | |
| | | Client IM - Post haircut | |
| | | Total IM - Pre haircut | |
| | | Total IM -Post haircut | |
| 6.2.13 | Non-cash Mutual funds / UCITs | House IM - Pre haircut | Not eligible |
| | | House IM - Post haircut | |
| | | Client IM - Pre haircut | |
| | | Client IM - Post haircut | |
| | | Total IM - Pre haircut | |
| | | Total IM - Post haircut | |
| 6.2.14 | Non-cash Other | House IM - Pre haircut | See note 6.1 |
| | | House IM - Post haircut | |
| | | Client IM - Pre haircut | |
| | | Client IM - Post haircut | |
| | | Total IM - Pre haircut | |
| | | Total IM - Post haircut | |
| 6.2.15 | Total initial margin held | HouseIM PreHaircut | See note 6.1 |
| | | HouseIM PostHaircut | |
| | | ClientIM PreHaircut | |
| | | ClientIM PostHaircut | |

| | | | |
|-------|--|--|--|
| 6.3 | Initial margin rates on individual contracts, where the CCP sets such rates <i>Update as changes are made</i> | | |
| 6.3.1 | Initial margin rates on individual contracts where the CCP sets such rates | | Link See note 6.3.1 |

| | | | |
|--------|---|--|---------------------------------|
| 6.4 | Type of initial margin model used and the key model design parameters for each initial margin model <i>Quarterly (all changes made during the quarter, including effective dates, shall be listed)</i> | | |
| 6.4.1 | Type of initial margin model | | See note 6.4.1 |
| 6.4.2 | Type of initial margin model change - effective date | | August 18, 2014 |
| 6.4.3 | Initial margin model name | | CORE - Closeout Risk Evaluation |
| 6.4.4 | Initial margin model name change - effective date | | August 18, 2014 |
| 6.4.5 | Single tailed confidence level targeted | | 99.96% |
| 6.4.6 | Single tailed confidence level targeted change - effective date | | August 18, 2014 |
| 6.4.7 | Sample/data look back period for calibrating the model | | January 2002 to May 2016 |
| 6.4.8 | Sample/data look back period for calibrating the model change - effective date | | July 15, 2016 |
| 6.4.9 | Adjustments or scalars or weighting, if any, applied to historical data (e.g. to reflect changes in volatility) | | See note 6.4.9 |
| 6.4.10 | Adjustments change - effective date | | July 15, 2016 |
| 6.4.11 | Close out/holding periods by product (or, if varying, contract type) | Futures | From 2 to 10 days |
| | | Options - exchange traded | 5th day |
| | | OTC derivatives (swaps, forward contracts, flexible options) | 10th day |
| 6.4.12 | Close out/holdng period change - effective date | | August 18, 2014 |
| 6.4.13 | Initial margin rates link (margin rate per contract and details of the offsets between different contracts) | | See 6.3.1 |
| 6.4.14 | Frequency of parameter review | | Daily |
| 6.4.15 | Frequency of parameter review change - effective date | | August 18, 2014 |

| 6.5 | Results of back-testing of initial margin Quarterly - Peak and average amount of excess | | |
|---------|--|--|---|
| 6.5.1.1 | Number of times over the past 12 months that margin coverage held against any account fell below the actual marked-to-market exposure of that member account - based on daily back-testing results | | 275 (the back testing applies at the individual client account) |
| 6.5.1.2 | Frequency of daily back-testing result measurements. | | Once a day |
| 6.5.1.3 | Time of daily back-testing result if measured once a day. | | End of day |
| 6.5.2 | Number of observations | | 7.194 (average of observations per day; an observation means an individual client's portfolio) |
| 6.5.3 | Achieved coverage level | | 99.98% |
| 6.5.4 | Where breaches of initial margin coverage have occurred, size of uncovered exposure - peak size | | 1,442,967 |
| 6.5.5 | Where breaches of initial margin coverage have occurred, size of uncovered exposure - average size | | 38,295 |

| 6.6 | Average total variation margin paid to the CCP by participants each business day Quarterly - Average per business day over the quarter | | |
|-------|---|--|---------------|
| 6.6.1 | Average total variation margin paid to the CCP by participants each business day | | 1,259,272,970 |

| 6.7 | Maximum total variation margin paid to the CCP on any given business day over the period Quarterly - Maximum over quarter | | |
|-------|--|--|---------------|
| 6.7.1 | Maximum total variation margin paid to the CCP on any given business day over the period | | 4,931,009,977 |

| 6.8 | Maximum aggregate initial margin call on any given business day over the period Quarterly - Maximum over quarter | | |
|-------|---|--|---------------|
| 6.8.1 | Maximum aggregate initial margin call on any given business day over the period | | 1,960,705,742 |

LIQUIDITY RISK

| 7.1 | Liquidity risk - size and composition of qualifying liquid resources Quarterly - As at quarter end | | |
|--------|--|--|---------------------------|
| 7.1.1 | Sufficiency of liquid resources maintained by the clearing service: 'Cover 1' or 'Cover 2' | | Cover 2 |
| 7.1.2 | Cash deposited at a central bank of issue of the currency concerned | | Not applicable |
| 7.1.3 | Cash deposited at other central banks | | Not applicable |
| 7.1.4 | Secured cash deposited at commercial banks (including reverse repo) | | - |
| 7.1.5 | Unsecured cash deposited at commercial banks | | - |
| 7.1.6 | Secured committed lines of credit (those for which collateral/security will be provided by the CCP if drawn) including committed foreign exchange swaps and committed repos | | 11,500,000,000 |
| 7.1.7 | Unsecured committed lines of credit (which the CCP may draw without providing collateral/security) | | 2,240,000,000 |
| 7.1.8 | Highly marketable collateral held in custody and investments that are readily available and convertible into cash with prearranged and highly reliable funding arrangements even in extreme but plausible market conditions. | | 592,000,000 |
| 7.1.9 | Other (please specify) | | 1,200,000,000 |
| 7.1.10 | CCP routine access to central bank liquidity or facilities | | Yes, via BM&FBOVESPA BANK |
| 7.1.11 | Details regarding the schedule of payments or priority for allocating payments, if such exists, and any applicable rule, policy, procedure, and governance arrangement around such decision making. | | - |

| 7.2 | Liquidity risk - Size and composition of any supplementary liquidity risk resources above those qualifying liquid resources above Quarterly - As at quarter end | | |
|-------|--|--|----------------|
| 7.2.1 | Size and composition of any supplementary liquidity risk resources for each clearing service above those qualifying liquid resources in 7.1 | | Not applicable |

| 7.3 | Liquidity risk - multiple items Quarterly | | |
|-------|--|------------------------|----------------|
| 7.3.1 | Estimated largest same-day and, where relevant, intraday and multiday payment obligation in total that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions; Forward looking measure reported quarterly | Same Day Payment Total | 9,304,000,000 |
| | | Same Day Payment | 9,304,000,000 |
| | | Intra Day Payment | Not applicable |
| | | Multi Day Payment | Not applicable |
| 7.3.2 | Report the number of business days, if any, on which the above amount exceeded its qualifying liquid resources (identified as in 7.1, and available at the point the breach occurred), and by how much. | No. of days in quarter | - |
| | | Amount Exceeded | - |

| | | | |
|-------|---|-------------------------|---|
| 7.3.3 | Actual largest intraday and multiday payment obligation of a single participant and its affiliates (including transactions cleared for indirect participants) over the past twelve months Peak day amount in previous twelve months | Same Day Payment_ Total | 2,726,988,020 |
| | | Same Day Payment | 2,726,988,020 |
| | | Intra Day Payment | Not applicable |
| | | Multi Day Payment | Not applicable |
| 7.3.4 | Estimated largest same-day and, where relevant, intraday and multiday payment obligation in each relevant currency that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions; Forward looking measure reported quarterly | Same Day Payment_ Total | Clearing members settle exclusively in local currency. Please refer to the above items. |
| | | Same Day Payment | |
| | | Intra Day Payment | |
| | | Multi Day Payment | |
| 7.3.5 | Number of business days, if any, on which the above amounts exceeded its qualifying liquid resources in each relevant currency (as identified in 7.1 and available at the point the breach occurred), and by how much | Number Of Days_ USD | |
| | | Number Of Days_ EUR | |
| | | Number Of Days_ GBP | |
| | | Amount Exceeded | |

EXCHANGE-OF-VALUE SETTLEMENT SYSTEMS

| | | | |
|--------|--|--|-----------------|
| 12.1 | Percentage of settlements by value effected using a DvP, DvD or Pvp settlement mechanism Quarterly | | |
| 12.1.1 | Percentage of settlements by value effected using a DvP settlement mechanism | | See note 12.1.1 |
| 12.1.2 | Percentage of settlements by value effected using a DvD settlement mechanism | | Not applicable |
| 12.1.3 | Percentage of settlements by value effected using a Pvp settlement mechanism | | Not applicable |

| | | | |
|--------|---|--|-----------------|
| 12.2 | Percentage of settlements by volume effected using a DvP, DvD or Pvp settlement mechanism Quarterly | | |
| 12.2.1 | Percentage of settlements by volume effected using a DvP settlement mechanism | | See note 12.1.1 |
| 12.2.2 | Percentage of settlements by volume effected using a DvD settlement mechanism | | Not applicable |
| 12.2.3 | Percentage of settlements by volume effected using a Pvp settlement mechanism | | Not applicable |

DEFAULT RULES AND PROCEDURES

| | | | |
|----------|--|--|--|
| 13.1 | Quantitative information related to defaults Ad-hoc | | |
| 13.1.1 | Amount of loss versus amount of initial margin | | No default during the relevant quarter |
| 13.1.2 | Amount of other financial resources used to cover losses | | |
| 13.1.3.1 | Proportion of client positions closed-out | | |
| 13.1.3.2 | Proportion of client positions ported | | |
| 13.1.4 | Appropriate references to other published material related to the defaults | | |

SEGREGATION AND PORTABILITY

| | | | |
|--------|---|--|------|
| 14.1 | Total client positions held as a share of notional values cleared or of the settlement value of securities transactions Quarterly - As at quarter end | | |
| 14.1.1 | Total client positions held in individually segregated accounts | | 100% |
| 14.1.2 | Total client positions held in omnibus client-only accounts, other than LSOC accounts | | 0% |
| 14.1.3 | Total client positions held in legally segregated but operationally comingled (LSOC) accounts | | 0% |
| 14.1.4 | Total client positions held in comingled house and client accounts | | 0% |

GENERAL BUSINESS RISK

| | | | |
|--------|---|--|-------------|
| 15.1 | General business risk Annual | | |
| 15.1.1 | Value of liquid net assets funded by equity | | 700,000,000 |
| 15.1.2 | Six months of current operating expenses | | 307,174,500 |

| | | | |
|--------|---|--|-----------------|
| 15.2 | General business risk - financial disclosures Annual | | |
| 15.2.1 | Total Revenue | | 2,412,603,000 |
| 15.2.2 | Total Expenditure | | 831,698,000 |
| 15.2.3 | Profits | | 2,202,238,000 |
| 15.2.4 | Total Assets | | 25,911,666,000 |
| 15.2.5 | Total Liabilities | | 7,569,567,000 |
| 15.2.6 | Explain if collateral posted by clearing participants is held on or off the CCP's balance sheet | | See note 15.2.6 |
| 15.2.7 | Additional items as necessary | | Not applicable |

| | | | |
|--------|--|--|-----------------|
| 15.3 | General business risk - income breakdown Annual | | |
| 15.3.1 | Percentage of total income that comes from fees related to provision of clearing services | | See note 15.3.1 |
| 15.3.2 | Percentage of total income that comes from the reinvestment (or rehypothecation) of assets provided by clearing participants | | 3.8% |

CUSTODY AND INVESTMENT RISKS

| | | | |
|--------|--|--|---------------|
| 16.1 | Total cash (but not securities) received from participants, regardless of the form in which it is held, deposited or invested, split by whether it was received as initial margin or default fund contribution Quarterly - As at quarter end | | |
| 16.1.1 | Total cash (but not securities) received from participants, regardless of the form in which it is held, deposited or invested, received as initial margin | | 1,352,773,085 |
| 16.1.2 | Total cash (but not securities) received from participants, regardless of the form in which it is held, deposited or invested, received as default fund contribution | | - |

| 16.2 | How total cash received from participants (ie the combined total of initial margin and default fund contributions in 16.1) is held/deposited/invested, including; Quarterly - As at quarter end | | |
|---------|--|----------------|--|
| 16.2.1 | Percentage of total participant cash held as cash deposits (including through reverse repo) | | 3.46% |
| 16.2.2 | Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at central banks of issue of the currency deposited | | Not applicable |
| 16.2.3 | Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at other central banks | | Not applicable |
| 16.2.4 | Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at commercial banks (Secured, including through reverse repo) | | 0.06% |
| 16.2.5 | Percentage of total participant cash held as cash deposits (including through reverse repo); as cash deposits at commercial banks (Unsecured) | | 3.40% |
| 16.2.6 | Percentage of total participant cash held as cash deposits (including through reverse repo); in money market funds | | 0% |
| 16.2.7 | Percentage of total participant cash held as cash deposits (including through reverse repo); in other forms | | 0% |
| 16.2.8 | Percentage of total participant cash held as cash deposits (including through reverse repo), split by currency of these cash deposits (including reverse repo) and money market funds by CCY | Percentage_USD | 100.00% |
| | | Percentage_EUR | 0% |
| | | Percentage_GBP | 0% |
| 16.2.9 | Percentage of total participant cash held as cash deposits (including through reverse repo) - weighted average maturity of these cash deposits (including reverse repo) and money market funds | | Not applicable |
| 16.2.10 | Percentage of total participant cash invested in securities Domestic sovereign government bonds | | 96.54% |
| 16.2.11 | Percentage of total participant cash invested in securities Other sovereign government bonds | | 0% |
| 16.2.12 | Percentage of total participant cash invested in securities Agency Bonds | | 0% |
| 16.2.13 | Percentage of total participant cash invested in securities State/municipal bonds | | 0% |
| 16.2.14 | Percentage of total participant cash invested in securities Other instruments | | 0.00% |
| 16.2.15 | Percentage of total participant cash invested in securities, split by currency of these securities Specify local currency in comments | BRL | 100.00% |
| 16.2.16 | Weighted average maturity of securities | | 128,39 days |
| 16.2.17 | Estimate of the risk on the investment portfolio (excluding central bank and commercial bank deposits) (99% one-day VaR, or equivalent) | | Not applicable See note 16.2.17 |
| 16.2.18 | Does the CCP investment policy set a limit on the proportion of the investment portfolio that may be allocated to a single counterparty? Size of that limit | | BM&FBOVESPA's investment policy only allow investments in Brazilian government Bonds |
| 16.2.19 | Number of times over the previous quarter in which this limit has been exceeded. | | Not applicable |
| 16.2.20 | Percentage of total participant cash held as securities. | | 96.54% |

| 16.3 | Rehypothecation of participant assets (ie non-cash) by the CCP where allowed, split by initial margin and default fund Quarterly - As at quarter end | | |
|--------|---|-------|--|
| 16.3.1 | Total value of participant non-cash rehypothecated (Initial margin) | | Not applicable. BM&FBOVESPA does not rehypotecate participant's assets |
| 16.3.2 | Total value of participant non-cash rehypothecated (Default fund) | | Not applicable. BM&FBOVESPA does not rehypotecate participant's assets |
| 16.3.3 | Rehypothecation of participant assets (ie non-cash) by the CCP where allowed - initial margin Over the following maturities: Overnight/one day; one day and up to one week; One week and up to one month; One month and up to one year; One year and up to two years; Over two years | ON_1D | Not applicable. BM&FBOVESPA does not rehypotecate participant's assets |
| | | 1D_1W | |
| | | 1W_1M | |
| | | 1M_1Y | |
| | | 1Y_2Y | |
| 16.3.4 | Rehypothecation of participant assets (ie non-cash); default fund Over the following maturities: Overnight/one day; one day and up to one week; One week and up to one month; One month and up to one year; One year and up to two years; Over two years | 2Y+ | Not applicable. BM&FBOVESPA does not rehypotecate participant's assets |
| | | ON_1D | |
| | | 1D_1W | |
| | | 1W_1M | |
| | | 1M_1Y | |
| | | 1Y_2Y | |
| | | 2Y+ | |

OPERATIONAL RISK

| 17.1 | Operational availability target for the core system(s) involved in clearing (whether or not outsourced) over specified period for the system (e.g. 99.99% over a twelve-month period) Quarterly | | |
|--------|--|---------------------|---|
| 17.1.1 | Operational availability target for the core system(s) involved in clearing (whether or not outsourced) over specified period for the system | | 99.8% |
| 17.2 | Actual availability of the core system(s) over the previous twelve month period Quarterly | | |
| 17.2.1 | Actual availability of the core system(s) over the previous twelve month period | | 99.989% |
| 17.3 | Total number of failures Quarterly | | |
| 17.3.1 | Total number of failures and duration affecting the core system(s) involved in clearing over the previous twelve month period | Duration of Failure | Number of failures is not available 20:14:00 |
| 17.4 | Recovery time objective(s) (e.g. within two hours) Quarterly | | |
| 17.4.1 | Recovery time objective(s) | | Two hours |

ACCESS AND PARTICIPATION

| 18.1 | Number of clearing members, by clearing service Quarterly - As at quarter end | | |
|----------|--|--|-------------------|
| 18.1.1.1 | Number of general clearing members | | 51 |
| 18.1.1.2 | Number of direct clearing members | | 4 |
| 18.1.1.3 | Number of other categories (describe in comments) | | See note 18.1.1.3 |
| 18.1.2.1 | Number of central bank participants | | - |
| 18.1.2.2 | Number of CCP participants | | - |
| 18.1.2.3 | Number of bank participants | | 27 |
| 18.1.2.4 | Number of other participants (describe in comments) | | 28 |
| 18.1.3.1 | Number of domestic participants | | 55 |
| 18.1.3.2 | Number of foreign participants | | - |

| 18.2 | Open position concentration Quarterly | | |
|--------|--|--------------------|----------------|
| 18.2.1 | For each clearing service with 10 to 25 members, percentage of open positions held by the largest 5 clearing members, including both house and client, in aggregate | Average In Quarter | Not applicable |
| | | Peak In Quarter | Not applicable |
| 18.2.2 | For each clearing service with 25 or more members, percentage of open positions held by the largest 5 clearing members, including both house and client, in aggregate | Average In Quarter | 10% |
| | | Peak In Quarter | 21% |
| 18.2.3 | For each clearing service with 25 or more members, percentage of open positions held by the largest 10 clearing members, including both house and client, in aggregate | Average In Quarter | 16% |
| | | Peak In Quarter | 27% |

| 18.3 | Initial margin concentration Quarterly | | |
|--------|--|--------------------|----------------|
| 18.3.1 | For each clearing service with 10 - 25 members, percentage of initial margin posted by the largest 5 clearing members, including both house and client, in aggregate | Average In Quarter | Not applicable |
| | | Peak In Quarter | Not applicable |
| 18.3.2 | For each clearing service with 25 or more members, percentage of initial margin posted by the largest 5 clearing members, including both house and client, in aggregate | Average In Quarter | 30% |
| | | Peak In Quarter | 49% |
| 18.3.3 | For each clearing service with 25 or more members, percentage of initial margin posted by the largest 10 clearing members, including both house and client, in aggregate | Average In Quarter | 48% |
| | | Peak In Quarter | 65% |

| 18.4 | Segregated default fund concentration Quarterly | | |
|--------|---|--|----------------|
| 18.4.1 | For each segregated default fund with 10 to 25 members, percentage of participant contributions to the default fund contributed by largest 5 clearing members in aggregate | | Not applicable |
| 18.4.2 | For each segregated default fund with 25 or more members, percentage of participant contributions to the default fund contributed by largest 5 clearing members in aggregate | | 10% |
| 18.4.3 | For each segregated default fund with 25 or more members, percentage of participant contributions to the default fund contributed by largest 10 clearing members in aggregate | | 20% |

TIERED PARTICIPATION ARRANGEMENTS

| 19.1 | Tiered participation arrangements, measures of concentration of client clearing Quarterly - As at quarter end | | |
|----------|--|---------|--------|
| 19.1.1 | Number of clients (if known) | | 11,908 |
| 19.1.2 | Number of direct members that clear for clients | | 55 |
| 19.1.3.1 | Per cent of client transactions (by total gross notional for derivatives or total cleared value of securities transactions or similar) attributable to the top 5 clearing members (if the | Peak | 100% |
| 19.1.3.2 | | Average | 100% |
| 19.1.4.1 | Per cent of client transactions (by total gross notional for derivatives or total cleared value of securities transactions or similar) attributable to the top 10 clearing members (if the | Peak | 100% |
| 19.1.4.2 | | Average | 100% |

FMI LINKS

| 20.1 | FMI links - value of trades Quarterly | | |
|--------|--|--|----------------|
| 20.1.1 | Value of trades cleared through each link – as a share of total trade values/total notional values cleared | | Not applicable |

| 20.2 | FMI links - initial margin or equivalent financial resources provided Quarterly - As at quarter end | | |
|--------|--|--|----------------|
| 20.2.1 | Initial margin or equivalent financial resources provided to each linked CCP by the CCP to cover the potential future exposure of the linked CCP on contracts cleared across link | | Not applicable |

| 20.3 | FMI links - initial margin or equivalent financial resources collected Quarterly - As at quarter end | | |
|--------|---|--|----------------|
| 20.3.1 | Initial margin or equivalent financial resources collected from each linked CCP to cover potential future exposure to the linked CCP on contracts cleared across link (at market value and post haircut) | | Not applicable |

| 20.4 | FMI links - results of back-testing coverage Quarterly | | |
|----------|---|--|----------------|
| 20.4.1.1 | Number of times over the past twelve months that coverage provided by margin and equivalent financial resources held against each linked CCP fell below the actual marked-to-market exposure to that linked CCP – based on daily back testing results; Intraday or Continuous or Once-a-day | | Not applicable |
| 20.4.1.2 | Back-testing results frequency - state if measured intraday/continuously/once a day | | Not applicable |
| 20.4.1.3 | If 20.4.1.2 is 'once a day' then the time of day measure is taken, otherwise blank | | Not applicable |
| 20.4.2 | Number of observations (i.e. number of accounts multiplied by number of days covered in the back test); Intraday or Continuous or Once-a-day | | Not applicable |
| 20.4.3 | Achieved coverage level $[(20.4.2)-(20.4.1.1)]/(20.4.2)$ | | Not applicable |

| 20.5 | FMI links - additional pre-funded financial resources provided to each linked CCP Quarterly - As at quarter end | | |
|----------|--|--|----------------|
| 20.5.1.1 | Additional pre-funded financial resources (if any) beyond initial margin and equivalent financial resources provided to each linked CCP, that are available to the linked CCP to cover exposures to the CCP | | Not applicable |
| 20.5.1.2 | Whether part of, additional to, or separate from the standard default fund (please specify) | | Not applicable |

| 20.6 | FMI links - additional pre-funded financial resources collected from each linked CCP Quarterly - As at quarter end | | |
|----------|---|--|----------------|
| 20.6.1.1 | Additional pre-funded financial resources (if any) beyond initial margin and equivalent financial resources collected from each linked CCP, that are available to the linked CCP to cover exposures to the CCP | | Not applicable |
| 20.6.1.2 | Whether part of, additional to, or separate from the standard default fund (please specify) | | Not applicable |

| 20.7 | FMI links - cross margining Quarterly / Quarterly - As at quarter end | | |
|--------|--|--|----------------|
| 20.7.1 | Value of trades subject to cross margining, by clearing service, as a percentage of total trade values/total notional values cleared | | Not applicable |
| 20.7.2 | Reduction in total initial margin held by the CCP as a result of cross margining, as a percentage of total initial margin that would otherwise have been held. | | Not applicable |

DISCLOSURE OF RULES, KEY PROCEDURES, AND MARKET DATA

| 23.1 | Disclosure of rules, key procedures, and market data - average daily volumes Quarterly - Average per business day over the quarter | | |
|--------|---|--------------------------------|-----------------|
| 23.1.1 | Average daily volumes of new trades by asset class, instrument, CCY, split by OTC or ETD | OTC - swap | 4,709 |
| | | OTC - flexible option | 6,422 |
| | | OTC - FX forward | 184 |
| | | ETD - Futures - interest rates | 1,655,907 |
| | | ETD - Options - interest rates | 226,843 |
| | | ETD - Futures - FX | 799,377 |
| | | ETD - Options - FX | 31,237 |
| | | ETD - Futures - Equities | 926,717 |
| | | ETD - Options - Equities | 12 |
| | | ETD - Futures - Commodities | 4,851 |
| | | ETD - Options - Commodities | 1,736 |
| | | ETD - Spot - Commodities | 216 |
| 23.1.2 | Average notional value of new trades cleared by asset class, CCY, split by OTC or ETD | OTC - swap | 235,469,909 |
| | | OTC - flexible option | 1,964,171,331 |
| | | OTC - FX forward | 371,202 |
| | | ETD - Futures - interest rates | 166,847,761,044 |
| | | ETD - Options - interest rates | 9,306,370 |
| | | ETD - Futures - FX | 78,560,405,165 |
| | | ETD - Options - FX | 87,945,851 |
| | | ETD - Futures - Equities | 16,895,817,426 |
| | | ETD - Options - Equities | 53,431 |
| | | ETD - Futures - Commodities | 163,910,161 |
| | | ETD - Options - Commodities | 753,815 |
| | | ETD - Spot - Commodities | 1,089,189 |

| 23.2 | Disclosure of rules, key procedures, and market data - Non-yet-settled Quarterly - At end of quarter | | |
|--------|---|--------------------------------|-------------------|
| 23.2.1 | Gross notional outstanding / total settlement value of novated but not-yet settled securities transactions by asset class, instrument, CCY, split by OTC or ETD | OTC - swap | 203,074,997,391 |
| | | OTC - flexible option | 102,173,595,085 |
| | | OTC - FX forward | 57,171,694 |
| | | ETD - Futures - interest rates | 2,413,975,764,065 |
| | | ETD - Options - interest rates | 629,280,872 |
| | | ETD - Futures - FX | 162,142,310,553 |
| | | ETD - Options - FX | 5,173,418,945 |
| | | ETD - Futures - Equities | 21,398,366,237 |
| | | ETD - Options - Equities | 497,902 |
| | | ETD - Futures - Commodities | 1,208,972,160 |
| | | ETD - Options - Commodities | 21,753,659 |
| | | ETD - Spot - Commodities | 169,550 |

| 23.3 | Disclosure of rules, key procedures, and market data - execution facility Quarterly | | |
|--------|---|-------------------------------------|-------------------|
| 23.3.1 | Average daily volumes submitted by execution facility or matching / confirmation venue | BM&FBOVESPA OTC Registration System | 11,315 |
| | | BM&FBOVESPA PUMA Trading System | 3,646,896 |
| 23.3.2 | Average notional contract values submitted by execution facility or matching / confirmation venue | BM&FBOVESPA OTC Registration System | 305,305,764,171 |
| | | BM&FBOVESPA PUMA Trading System | 2,604,550,533,945 |

| Principle | Qualitative Notes Statement |
|-----------|--|
| General | The figures reported herein refer to BM&FBOVESPA Clearinghouse. |
| 4 | 4.1.6 - The figure reported herein consists in the sum of (i) the contributions of brokerage houses and clearing members as Minimum Nonoperational Collateral (pre-funded and nonmutualized access requirement), (ii) collateral posted for Operating Balance adjustment purposes (nonmutualized) and (iii) BM&FBOVESPA's own resources dedicated to support the activities of its clearinghouses, in addition to its contribution to default funds. Item iii represents 40% of the total reported under 4.1.6. For further details about the sequence of use of collateral, please refer to the BM&FBOVESPA Clearinghouse Risk Management Manual. The amount of the contribution required of brokerage houses and clearing members as Minimum Nonoperational Collateral is established in the BM&FBOVESPA Access Manual. Both manuals are available on BM&FBOVESPA's website (http://www.bmfbovespa.com.br/en_us/regulation/regulations-and-manuals/#item-4). |
| 4 | 4.1.9 - Total to be replenished by default event (total amount of required contributions minus the largest contribution). Replenished resources can only be used in future defaults. During any 20-day period, a clearing member's total replenishment obligation cannot surpass 3 times such clearing member's required contribution, regardless of the number of default events that may have occurred. Please refer to the BM&FBOVESPA Clearinghouse Rule – articles 110 thru 113. |
| 4 | 4.2. US regulation. |
| 4 | 4.3.5 - The figure reported herein includes mutualized, nonmutualized and BM&FBOVESPA's own resources. Please refer to note 4.1.6. With regard to BM&FBOVESPA's own resources, it is worth mentioning that according to the BM&FBOVESPA's Financial Investment Policy, such resources must comply with allocation limits relating to: (i) the type of asset (100% in Brazilian government bonds, Brazilian government bond repos, and investment funds with same-day redemption that hold in portfolio only such bonds and repos, and have as managers, administrators and custodians only institutions authorised by the policy (basically institutions with high credit ratings)); (ii) the type of return (at least 85% floating rate); and (iii) liquidity (at least 90% with immediate liquidity, i.e. same-day redemption). |
| 4 | 4.3.14 - The figure reported herein includes bank letters of credit and certificates of deposit. No haircuts apply. |
| 4 | 4.4 - In mid-December 2016, the CCP implemented methodological changes to its credit stress test, adding new stress testing scenario and increasing the frequency of stress testing. Considering that data under the new methodology are not available before mid-December 2016, it was decided to report the available data. Therefore, note that data have not been reported over the previous 12 months, but over the period from mid-December 2016 to the end of the reference period of this Quantitative Disclosure. |
| 5 | 5.1.1 - Collateral limits: The limits defined by BM&FBOVESPA to restrict the use of assets in the constitution of collateral are: (i) Limits for bank letters of credit and certificates of deposit; (ii) Limits for the deposit of assets as third-party collateral; (iii) Acceptance limits for shares, ETF shares and units; and (iv) Utilization limits for illiquid collateral. For the relevant criteria, please refer to section 6.3 of the BM&FBOVESPA Clearinghouse Risk Management Manual. |
| 5 | 5.3.1 - Haircuts are given by the same scenarios (for risk factors) used in the valuation of positions for margin calculation (CORE) purposes. Therefore, collateral valuation is inherent in margin calculation, being evaluated jointly with positions. Considering that margin is calculated by individual client, the joint assessment of positions and collateral means that the same asset may be valued at different prices for different clients (for instance, if customers A and B have posted asset X as collateral, CORE may assign one value for X when calculating customer A's margin and another value for X when calculating customer B's margin). Hence, haircut tests are embedded in the CORE backtesting. |
| 5 | 5.3.2 - The assumed holding/liquidation period for the assets accepted as collateral vary from 1 to 10 days, depending on the volume to be liquidated and on the daily liquidity of collateral, considering an orderly liquidation process. |

| | |
|----|---|
| 5 | 5.3.3 - As explained in note 5.3.1, haircut tests are embedded in margin backtesting. Margin backtesting is performed daily at individual client level – the closeout of each client’s portfolio is simulated based on the actual prices observed in the closeout period (the previous 10 days), and the financial outcome, if negative, is compared with the client’s posted collateral. The haircuts are also tested in risk factor testing (the haircuts applicable to an asset are determined by the scenarios for the risk factors of this asset). The margin methodology stress tests assess positions and collateral jointly, and the asset posted as collateral may be valued at different prices, depending on the portfolio to which it belongs. The scenarios for the risk factors are of three types – historical, quantitative and prospective – and are limited by the envelope scenarios. The CCP compares on a daily basis the actual variation of each risk factor with the corresponding current envelope scenario. |
| 5 | 5.3.4 - Collateral haircut must be considered within CORE methodology. CORE calculates the risk of collateral and positions jointly, which means that the same scenarios (for variations in risk factor prices) are used to define collateral value and to evaluate positions held in the same portfolio. The value of collateral will be determined not only by the collateral itself but also by the other positions that make up an investor’s portfolio. Therefore a backtesting of the collateral haircuts alone may not be a meaningful measure for the evaluation of the robustness of the risk model. Results for a backtesting of the risk model can be found in 6.5. |
| 6 | 6.1 - BM&FBOVESPA adopts an individual client segregation model, meaning that positions and collateral are registered in individually segregated accounts and margins are calculated at individual client level ("client gross" margin model). A clearing member's proprietary portfolio (house) is deemed as an individual customer's portfolio, since it corresponds to a CM acting as a customer, and therefore the individual margin requirement applies. For the purposes of this report, the sum of margins required of CMs due to their proprietary portfolios is informed in note 6.1.1. |
| 6 | 6.2 -Collateral haircut must be considered within CORE methodology. CORE assesses collateral and positions jointly, which means that the same scenarios (for variations in primitive risk factors) are used in the definition of collateral amounts and in the evaluation of positions. The value of collateral will be determined not only by the collateral itself but also by the other positions that make up an investor’s portfolio, which means that collateral may be valued at higher prices than mark-to-market prices. The possible occurrence of such an event must not be understood as a "negative haircut," but as a feature of the CORE methodology. |
| 6 | 6.2.5 - The information reported herein includes Brazilian sovereign government bonds and also shares of the investment fund named "FIC Garantia," which is managed by BM&FBOVESPA through the BM&FBOVESPA Bank. The acquired “FIC Garantia” shares are automatically pledged in favor of the clearinghouse as collateral. The “FIC Garantia”’s resources are invested in Brazilian sovereign government bonds, either directly or via financial instruments backed by such bonds. |
| 6 | 6.2.14 - The information reported herein includes letters of credit and certificates of deposit issued by commercial banks and also cash collateral that is received as cash but is held as an investment (resources from such investment are made available on the same day, for the most part within the hour). No haircuts apply to letters of credit, certificates of deposit, or cash collateral. |
| 6 | 6.3.1 - BM&FBOVESPA discloses on a daily basis, on its website, the maximum theoretical margin required of any instrument. Such maximum theoretical margin represents the value of margin that would be required of a portfolio made up of a unit of the relevant instrument and no collateral. |
| 6 | 6.4.1 - CORE, or Closeout Risk Evaluation (proprietary model): The CORE methodology consists in a portfolio (positions and collateral) stress test model where market, liquidity and cash flow risks are modeled so as to provide a measure for collateral deficit as the worst financial outcome of the portfolio closeout process, if negative. The stress test is based on a set of 10,000 scenarios for the price variations of risk factors, among prospective, historical and quantitative scenarios. Positions and collateral are jointly valued across the scenarios. |
| 6 | 6.4.9 - A weighing scheme is applied to the time series of Brazilian nominal and real interest rates, in order to adjust for structural breaks in interest rate volatility. This weighing scheme works by splitting the time series in three different time periods (2002-2004, 2004-2005 and 2005 onwards), standardizing the rate variations in each period by the maximum and minimum variations observed in the relevant period and then using the envelope scenario for the risk factors to scale back the variations. |
| 6 | 6.4.14 - Every two weeks the BM&FBOVESPA Market Risk Technical Committee (internal committee) reviews all key margin methodology parameters (such as stress scenarios and risk horizons), reexamining the more stable or less important parameters at least once a month. Additionally the parameters are monitored in a daily basis and can be reviewed/changed whenever the committee deems necessary. |
| 6 | 6.5.1.1 - Back testing applies at the individual client account. Therefore, the figure reported herein refers to the total number of times over the past 12 months that margin coverage held against any individual client account fell below the actual marked-to-market exposure of that individual client account (violation) - based on daily back-testing results. The information reported here does not refer to violations at clearing member's level. |
| 7 | 7.1.6 - Out of the amount reported in 7.1.6, BRL10 billion represents committed lines with the BM&FBOVESPA Bank, through which the CCP accesses the Central Bank of Brazil’s intraday liquidity mechanism; although a limit of BRL10 billion is set up in the agreement, liquidity may be provided up to the total government bonds the CCP provides as collateral. The other committed lines are established with major banks, and they are also backed by Brazilian federal government bonds. |
| 7 | 7.1.7 - Unsecured committed lines of credit are not clearinghouse-specific, in the sense that they may be used by any of BM&FBOVESPA's clearinghouses. |
| 7 | 7.1.8 - The figure reported in 7.1.8 does not include collateral reported in 6.2. |
| 7 | 7.1.10 - Under the legal framework in force in Brazil, only financial institutions such as banks may have full access to the services provided by the Central Bank of Brazil. This provision excludes clearinghouses. |
| 7 | 7.2.1 - In addition to collateral posted by participants, liquid funds are available to the BM&FBOVESPA Clearinghouse through (i) indirect access to the Central Bank of Brazil’s discount window via the BM&FBOVESPA Bank, (ii) liquidity assistance facilities from financial institutions and (iii) BM&FBOVESPA's own cash. Other than such resources, there are no supplementary liquid resources. |
| 7 | 7.3 - In October 2016, the CCP implemented methodological changes to its liquidity stress test, adding liquidity-specific stress testing scenarios. |
| 12 | 12.1.1 - The BM&FBOVESPA Clearinghouse adopts the principle of delivery-versus-payment (DvP) only in the settlement of transactions involving physical delivery (arabica coffee, anhydrous ethanol, and gold). When compared with cash settlement volumes, figures from settlement by physical delivery are irrelevant. The percentages for 12.1.1 and 12.2.2 would be really close to 0%. |
| 15 | 15.2 - The figures presented herein refer to individual BM&FBOVESPA information. Consolidated figures for both BM&FBOVESPA and its subsidiaries may be looked up in the BM&FBOVESPA financial statements (http://ri.bmfbovespa.com.br , Financial Information, Results Release). |
| 15 | 15.2.6 - Considering BM&FBOVESPA's financial statements, collateral received in cash is recorded as a liability under “Collateral for transactions” and other non-cash collateral is recorded under memorandum accounts. |
| 15 | 15.3.1 - The percentage of total income that comes from fees related to provision of post-trading services is 34.88%, where post-trading services include clearing and depository services. The company does not disclose the fees related to clearing and depository services separately. |
| 16 | 16.2.10 - This cash is invested in Brazilian government bonds or in financial instruments backed by such bonds, with floating-rate returns, immediate liquidity, and minimal exposure to private credit risk. |
| 16 | 16.2.17 - BM&FBOVESPA maintains cash collateral invested in fixed-income investment funds, which are mostly made up of floating-rate Brazilian government bonds and floating-rate repo transactions (backed by Brazilian government bonds) for 1 day. Hence, given the portfolio's characteristics, the returns on the portfolio are always positive, thus preserving the amount received as third-party collateral, being VaR calculations not applicable. |
| 17 | 17.1.1 - The BM&FBOVESPA Clearinghouse is considered as systemically important in Brazil. Therefore, it must achieve an operational availability index greater than or equal to 99.8%, as required under article 10 of Circular #3057 issued by the Central Bank of Brazil. |

| | |
|----|---|
| 17 | 17.2.1 - The methodology used in the measurement of the actual availability of BM&FBOVESPA's core systems has been modified. The data presented in this item refer to the period from January 2016 on. |
| 18 | <p>18.1.1.3 - The BM&FBOVESPA Clearinghouse has three types of clearing members: 1, 2 and 3, which are defined as follows:</p> <p>A type 1 clearing member settles proprietary transactions and transactions ordered by any other member of its financial conglomerate, as well as transactions executed for the portfolios of funds to which this clearing member or any member of its financial conglomerate has been formally appointed as manager or administrator (fund manager or portfolio manager).</p> <p>A type 2 clearing member settles any of the transactions permitted for the type 1 clearing member, as well as transactions executed for customers by any member of its financial conglomerate when acting in the capacity of a full trading participant.</p> <p>A type 3 clearing member settles any of the transactions permitted for the type 1 or the type 2 clearing member, as well as transactions executed for customers by any full trading participant, regardless of the financial conglomerate membership.</p> <p>For the purposes of this report, we have considered type 1 clearing members as Direct Clearing Members, and type 2 and type 3 clearing members as General Clearing Members.</p> |
| 18 | 18.1.2.4 - "Other participants" basically include Brokerage Firms and Broker-Dealer Firms. |
| 18 | 18.1.3.2 - Please note that the parent company of a participant (clearing member) can be established in a foreign country. The figures reported herein refer to clearing members only, and not to their parent companies. |
| 23 | 23.1 and 23.2 - Figures reported in these items are not double counted, i.e. it is been reported: absolute value of long plus absolute value of short divided by two. |