

## Program 1 “Brent oil, gold and silver futures contracts”

1. The table below shows instruments and their designations for which the Contractors must maintain quotes during the trading sessions on the Moscow Exchange Derivatives Market in accordance with this Program:

Instrument designation	Instrument name
k=1	Futures on Brent oil
k=2	Gold futures
k=3	Futures on Silver

2. Conditions for the Contractors’ obligations to be fulfilled.

2.1. The following definitions are used to set the Contractors’ obligations parameters:

<u>Bid/ask quote spread</u>	The maximum difference between the best bid and the best ask made by Contractor 1 with respect to the Instrument. The spread is determined by the value used for determination of the Instrument’s price as set out in the Specifications.
<u>Best bid</u>	The price of an order to buy entered by Contractor 1 with respect to the Instrument, which volume (considering the volume of all Contractor 1’s orders to buy at the same price or higher) is no less than the minimum required order volume.
<u>Best ask</u>	The price of an order to sell entered by Contractor 1 with respect to the Instrument, which volume (considering the volume of all Contractor 1’s orders to sell at the same price or lower) is no less than the minimum required order volume.
<u>Quantum</u>	The period of the Trading Session during which the Contractor 1 must enter orders. Quanta are designated as $q= 1, 2, \dots$ (where $1, 2, \dots$ – the Quantum sequence number). The Quantum duration ( $T_s$ ) is in seconds.
<u>Nearest contract month for the Instrument</u>	The contract month of the Instrument that is as close as possible to the Trading Day on which quotes are maintained for such Instrument. Such contract month is designated as $i=n$ (where $n= 1, 2, \dots$ – the sequence number of the expiration date of the Instrument).
<u>Next contract month for the Instrument</u>	The contract month determined as $i= n+1$ .
<u>Reporting Period</u>	A calendar month.

Terms that are not specified in this Program are used in the values, the land of internal documents of the Public Joint-Stock Company "Moscow Exchange MICEX-RTS" (hereinafter - the Exchange) and the National Settlement Depository, and in the absence of such terms - in accordance with the current legislation of the Russian Federation.

2.2. Contractors' obligations parameters

2.2.1. The Contractors shall perform only with regard to contract months specified in Tables 1-3 below:

**Table 1**

Conditions for maintaining two-sided quotes for the Futures on Brent oil k=1 during quanta q=1 and q=2				
Market making obligations parameters	The second contract month (i=2)	The third contract month (i=3)	Quantum start-Quantum end (q=1)	Quantum start-Quantum end (q=2)
	Whole period	Whole period		
1. Bid/ask quote spread (in the Instrument price unit as per the Specification) ( $Spread_{MM}$ )	0,11	0,12	10:00 MSK (UTC+3) – 18:45 MSK (UTC+3)	19:00 MSK (UTC+3) – 23:50 MSK (UTC+3)
2. Minimum quoted size (in contracts)	1000	500		
3. Minimum length of time to maintain two-sided quotes (in per cent of the Quantum)	60	60		

**Table 2**

Conditions for maintaining two-sided quotes for Gold futures k=2 during quanta q=1 and q=2				
MM obligations parameters	The first contract month (i=1)	The second contract month (i=2)	Quantum start-Quantum end (q=1)	Quantum start-Quantum end (q=2)
	Whole period	Whole period		
1. Bid/ask quote spread (in the Instrument price unit as per the Specification) ( $Spread_{MM}$ )	1	1,2	10:00 MSK (UTC+3) – 18:45 MSK (UTC+3)	19:00 MSK (UTC+3) – 23:50 MSK (UTC+3)
2. Minimum quoted size (in contracts)	1000	500		
3. Minimum length of time to maintain two-sided quotes (in per cent of the Quantum)	60	60		

**Table 3**

Conditions for maintaining two-sided quotes for the Futures on Silver k=3 during quanta q=1 and q=2				
Market making obligations parameters	The first contract month (i=1)	The second contract month (i=2)	Quantum start-Quantum end (q=1)	Quantum start-Quantum end (q=2)
	Whole period	Whole period		
1. Bid/ask quote spread (in the Instrument price unit as per the Specification) ( $Spread_{MM}$ )	0,05	0,06	10:00 MSK (UTC+3) – 18:45 MSK (UTC+3)	19:00 MSK (UTC+3) – 23:50 MSK (UTC+3)
2. Minimum quoted size (in contracts)	2000	1000		
3. Minimum length of time to maintain two-sided quotes (in per cent of the Quantum)	60	60		

2.2.2. The nearest and the next contract month of the Instrument are the nearest and the next dates of the expiration of the Instruments k=2 and k=3, attributable to March, June, September and December, respectively.

The nearest and the next contract month of the Instrument are the nearest and the next dates of the expiration of the Instrument k=1, attributable to every calendar month.

2.3. During the Reporting Period, the Market Maker shall have the right not more than 5 (five) times to not perform during each q-th Quantum of each Trading day the obligation in respect of the k-th Instrument with the i-th contract month specified in clause 2.2. of this Program. If the Contractors have failed to comply with this clause with respect to any k<sup>th</sup> Instrument during q-th

Quantum, their services with respect to the k-th Instrument and q-th Quantum specified in Clause 1 are considered to have not been provided.

### 3. Market Maker's compensation

3.1 The amount of compensation that the Contractors receive for fulfilling their obligations during the Reporting Period on terms set out in Clauses 1-2 above, is the sum of compensation values determined in accordance with formulas 1-2 below with regard to every group of position register section codes with which the Contractors perform under this Program on the basis of the market making agreement with the Exchange:

#### Formula 1:

$$X \times \sum_{q,j,k,i} BSMM_{active}^{k,i,j,q} \times (I_{q,i}(Pcf_{j,q}^{k,i}; Pcn_{j,q}^{k,i}) + 1) + Y \times \sum_{q,j,k,i} BSMM_{passive}^{k,i,j,q} \times (I_{q,i}(Pcf_{j,q}^{k,i}; Pcn_{j,q}^{k,i}) + 1), \text{ where:}$$

- $X$  – the coefficient which equals 0.375 if  $k=1$  and  $k=3$ , 0.2 if  $k=2$ ;
- $Y$  – the coefficient which equals 0.625 if  $k=1$  and  $k=3$ , 0.325 if  $k=2$ ;
- $I_{q,i}$  is determined as follows:

$$I_{q,i}(Pcf_{j,q}^{k,i}; Pcn_{j,q}^{k,i}) = \begin{cases} 1, & \text{if } Pcf_{j,q}^{k,i} \geq 80\% \\ \left( \frac{(Pcf_{j,q}^{k,i} - Pcn_{j,q}^{k,i})}{(80\% - Pcn_{j,q}^{k,i})} \right)^5, & \text{if } Pcn_{j,q}^{k,i} \leq Pcf_{j,q}^{k,i} < 80\% \\ -1, & \text{otherwise} \end{cases}$$

- $Fee_{active}^{k,i,j,q}$  – the amount of exchange fee and commission for clearing charged to Contractor 1 for market trades executed in the  $k^{\text{th}}$  Instrument with the  $i^{\text{th}}$  contract month similar to those specified in Clause 2.2 above, during the  $q^{\text{th}}$  Quantum on the  $j^{\text{th}}$  Trading Day based on unaddressed orders entered by such Contractor 1 as instructed by Contractor 2 and with the clearing registers section codes which are used to perform the Contractors' obligations under this Program based on the market making agreement with the Exchange, provided that these orders are registered in the Order Register with larger numbers than the relevant counter orders for the corresponding Paired Transactions;
- $Fee_{passive}^{k,i,j,q}$  – the amount of exchange fee and commission for clearing charged to Contractor 1 for market trades executed in the  $k^{\text{th}}$  Instrument with the  $i^{\text{th}}$  contract month similar to those specified in Clause 2.2 above, during the  $q^{\text{th}}$  Quantum on the  $j^{\text{th}}$  Trading Day based on unaddressed orders entered by such Contractor 1 as instructed by Contractor 2 and with the clearing registers section codes which are used to perform the Contractors' obligations under this Program based on the market making agreement with the Exchange, provided that these orders are registered in the Order Register with lower numbers than the relevant counter orders for the corresponding Paired Transactions;
- $Pcf_{j,q}^{k,i}$  – the actual length of time during which the Contractors maintain Bid/Ask Quote Spread for the  $k^{\text{th}}$  Instrument with the  $i^{\text{th}}$  contract month during the  $q^{\text{th}}$  Quantum on the  $j^{\text{th}}$  Trading Day, on terms set out in Clause 2.2 above (per cent of the Quantum length);

- $Pcn_{j,q}^{k,i}$  – the minimum length of time during which the Contractors shall maintain Bid/Ask Quote Spread for the  $k^{\text{th}}$  Instrument with the  $i^{\text{th}}$  contract month during the  $q^{\text{th}}$  Quantum on the  $j^{\text{th}}$  Trading Day, on terms set out in Clause 2.2 above (per cent of the Quantum length);
- $k = 1, 2, \dots$  – the sequence number of the relevant Instrument as specified in Clause 1 above;
- $i = 1, 2, \dots$  – the sequence number of the contract month as specified in Clause 1 above;
- $j = 1, 2, \dots$  - the sequence number of the Trading Day in the relevant month;
- $q = 1, 2, \dots$  - the sequence number of the Quantum as specified in Clause 2.2.1 above.

**Formula 2:**

$$Z \times \frac{\sum_{q,j,k,i} \max(0; I_{q,i}(Pcf_{j,q}^{k,i}; Pcn_{j,q}^{k,i}) \times (S_2 - S_1) + S_1)}{\sum_{j,k,q} K_j^{k,q}}$$

, where:

- $S_1$  – RUB 100,000 (one hundred thousand);
- $S_2$  – RUB 200,000 (two hundred thousand);
- $Z$  – the coefficient determined as follows:

Instrument designation	Instrument name	Volume of derivative trades in Contracts, $VT$	Coefficient $Z$ , if $\sum_{j,k} VT_{j,MM}^k \geq VT$
k=2	Gold futures	200,000	1
k=3	Futures on Silver	150,000	1

- $VT_{j,MM}^k$  – the actual volume of Derivative trades in Contracts executed in the  $k^{\text{th}}$  Instrument on the  $j^{\text{th}}$  Trading Day based on unaddressed orders entered by Contractor 1 as instructed by Contractor 2 and with the position register section codes specified which are used to perform the Contractors' obligations under this Program based on the market making agreement with the Exchange;
- $K_j^{k,q}$  – the number of maturities for the  $k^{\text{th}}$  Instrument for which the Contractors must adhere to terms of maintain Bid/Ask Quote Spread as set out in Clause 2.2 above during the  $q^{\text{th}}$  quant on the  $j^{\text{th}}$  Trading Day.