



**An invitation to submit bids**  
**for a tender to issue individual permits to use**  
**frequencies**  
**from the**  
**800 MHz, 1800 MHz, and 2600 MHz frequency**  
**bands**  
**in the form of an electronic auction**

Bratislava, 27 August 2013

# 1 Introduction

The Telecommunications Office of the Slovak Republic (just “the office” from here on), as a national regulator and price authority in the electronic telecommunications sector, according to Paragraph 6, Section 1, b). Section 3, a), and Paragraph 11, Section 3, c) of Act No. 351/2011 Coll. on Electronic Communications as amended (just “Act on Electronic Communications” from here on) is announcing an invitation to submit bids under Paragraph 33, Section 1, 2, 3, and 4 of Act on Electronic Communications

**for a tender to issue individual permits to use frequency bands of 800 MHz, 1800 MHz, and 2600 MHz, in the form of an electronic auction (just “tender” from here on).**

The conditions for “the tender to issue individual permits to use frequency bands of 800 MHz, 1800 MHz, and 2600 MHz, in the form of an electronic auction” were the subject of public consultation according to Paragraph 10 of the Act on Electronic Communications. These consultation documents were published on 6 June 2013 on the office’s website. The office assessed and published the comments to the consultation on 9 August 2013. The office took into account the relevant comments when determining the final conditions for this tender.

## 2 General Provisions

### 2.1 Tender’s Objectives

The aim is to allow efficient usage of the frequencies reserved to ensure electronic communications services in accordance with an effective fulfillment of the following objectives:

- promotion of technological innovations and development of new services
- promotion of economic competition
- efficient utilization of the spectrum

#### 2.1.1 Promotion of technological innovations and development of new services

In accordance with the mid- and long-term objectives of the national strategy for Slovakia’s broadband access, the tender’s objective is to increase the accessibility of broadband connection.

The bid for frequencies from the 800 MHz, 1800 MHz, and 2600 MHz bands, which is the subject to the tender, is suitable for fulfilling this objective, and the usage of the offered frequencies for the construction of high-speed networks is the purpose of this

tender, in accordance with Decision 243/2012/EU – The Radio Spectrum Policy Program.<sup>1</sup>

The prerequisite for ensuring broadband connection for all citizens is that the 800 MHz frequency band, with the most favorable promotional characteristics, will be used for this purpose within the offered frequency bands. Regarding the 1800 MHz and 2600 MHz frequency bands, the purpose of their utilization is to ensure sufficient transmission capacity for the connection.

### **2.1.2 Promoting Economic Competition**

In accordance with Article 8 of Directive 2002/21/ES, among the regulator's primary tasks is the support of citizens' interests concerning the provision of electronic communications services and the promotion of economic competition. The end customers will see the economic competition in the market become more effective in the combination of competitive prices, quality of broadband services, and sufficient coverage.

Given the existing state of economic competition on the internal telecommunications market, the office proceeded with the specification of tender conditions in order to promote economic competition in accordance with Decision 243/2012/EU.

In order to promote economic competition, it's necessary to ensure equal, fair, and undiscriminatory conditions for all market subjects. In this sense, the office is obliged to prevent spectrum hoarding that may lead to market distortions with negative implications on economic competition and customer interests in terms of selection, prices, and the quality of services.

### **2.1.3 Effective Utilization of the Frequency Spectrum**

The regulator's primary tasks also include the efficient administration of the frequency spectrum. Access to the spectrum is the key to the provision of electronic communication services. A frequency spectrum is a limited source and its efficient usage is the prerequisite for ensuring a social benefit from communication services.

To ensure efficient spectrum usage, it's necessary to respect the principles of technological and service objectivity. These principles ensure that the spectrum will be used by technologies and services that are most advantageous in terms of maximizing customer benefits. At the same time, they ensure the independency of conditions for spectrum usage from possible future changes in customer requirements or technological options for ensuring services.

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<sup>1</sup><http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:081:0007:0017:EN:PDF> – 243/2012/EU – Decision on the Radio Spectrum Policy Program

## 2.2 Tender's Scope

The subjects of this tender are frequencies from the 800 MHz, 1800 MHz, and 2600 MHz bands.

### The 800 MHz frequency band:

- 6 blocks 2 x 5.0 MHz in the A1 Category

### The 1800 MHz frequency band:

- 1 block 2 x 5.0 MHz in the B1 Category
- 1 block 2 x 1.2 MHz in the B2 Category
- 1 block 2 x 1.0 MHz in the B3 Category
- 1 block 2 x 2.2 MHz in the B4 Category
- 1 block 2 x 0.4 MHz in the B5 Category
- 1 block 2 x 0.6 MHz in the B6 Category
- 2 blocks 2 x 5.0 MHz in the B7 Category

### The 2600 MHz frequency band:

- 14 blocks of the 2 x 5.0 MHz paired spectrum section in the C1 Category
- 10 blocks of the 5.0 MHz unpaired spectrum section in the C2 Category

## 2.3 Basic principles of the tender

The office is obliged to act in accordance with Paragraph 11, Section 1 of the Act on Electronic Communications, and issue all its decisions in accordance with the principles of efficiency, objectivity, transparency, non-discrimination, adequacy, and justification.

### Tender's Form

The tender will be carried out in the form of an electronic auction.

The auction will take place in the CCA format. This auction format allows submitting bids for the combinations of spectrum blocks within one process, providing the participants with flexibility and an opportunity to try for various frequency block combinations across several spectrum sections at the same time. The conditions are described in the Auction Rules, Appendix 7 of this invitation.

### Tender Process

The process is divided into three stages:

- **Qualification stage**, in which the tender participants submit their bids and announce the number of required competence points. The amount of the bank guarantee derives from the number of required competence points. Those participants who comply with the tender conditions given by the law on

electronic communications and the tender announcement will advance to the auction.

- **The main auction stage**, in which the number of general auction blocks is determined and assigned to each successful participant. The main stage consists of one or more primary rounds and one additional round.
- **Assigning auction stage**, in which the successful participants from the main stage are assigned specific frequency blocks corresponding to the number of general auction blocks gained in the main stage.

### **Tender Participation Costs**

The costs related to the tender participation are paid by the participant.

### **Tender Cancellation**

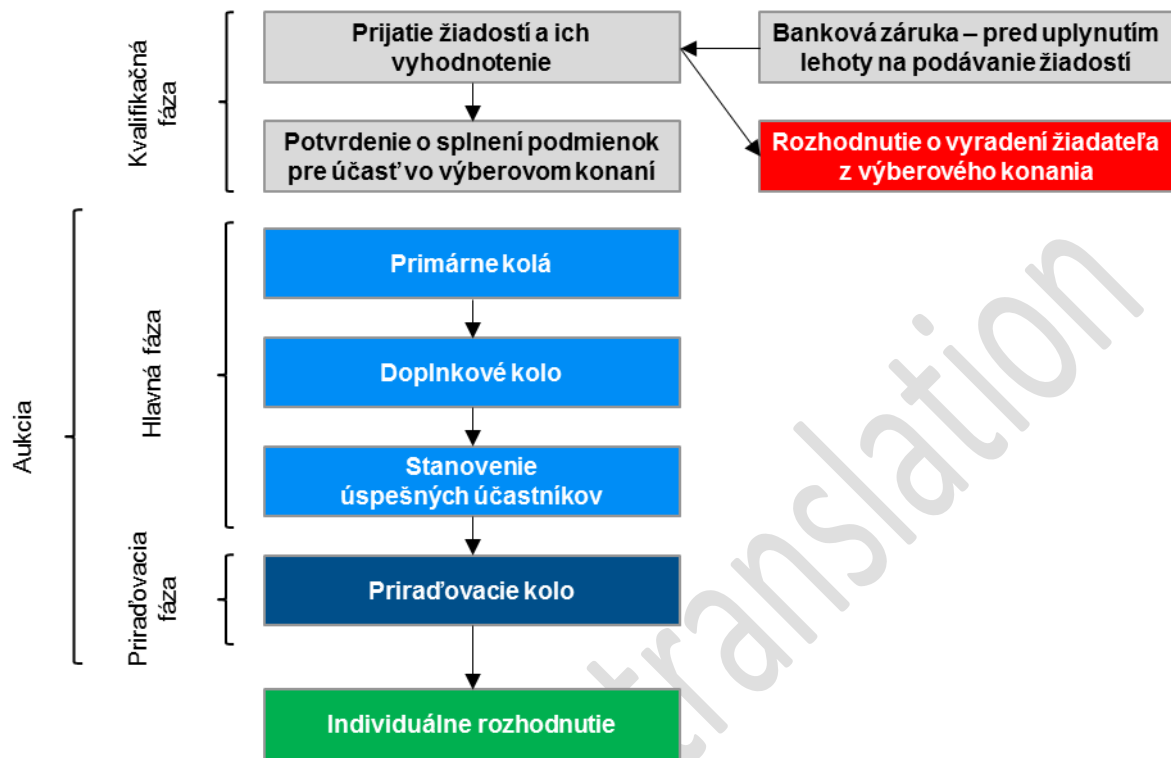
The office has the right to cancel the tender if the circumstances under which the tender was announced have significantly changed. The office shall immediately notify all participants about the tender cancellation along with stating the reason for this.

### **Tender's Organizer**

<b>Name of Office:</b>	Telecommunications Regulatory Authority of the Slovak Republic
<b>Representative:</b>	Ing. Ladislav Mikuš, Chairman of the Telecommunications Office of the Slovak Republic
<b>Location:</b>	Továrenská 7, P. O. Box 40, 828 55 Bratislava 24.
<b>ID:</b>	30844355
<b>TAX ID:</b>	2020872689

## 2.4 Scheme of the Tender Process

Figure 1: Scheme of the tender process



### Legend :

Aukcia = Auction

Kvalifikačná fáza = Qualification stage

Hlavná fáza = Main stage

Priradovacia fáza = Assigning stage

Prijatie žiadostí a ich vyhodnotenie = Accepting and evaluating submissions

Potvrdenie o splnení podmienok pre účasť vo výberovom konaní = Confirmation about meeting the conditions for tender participation

Primárne kolá = Primary rounds

Doplnkové kolo = Additional round

Stanovenie úspešných účastníkov = Selecting successful participants

Priradovacie kolo = Assigning round

Individuálne rozhodnutie = Individual decision

Banková záruka – pred uplynutím lehoty pre podávanie žiadostí = Bank guarantee – before the deadline for tender submissions

Rozhodnutie o vyradení žiadateľa z výberového konania = Decision on excluding the candidate from the tender

### 3 Subject of the Tender

#### 3.1 The 800 MHz Frequency Band

The 800 MHz frequency band is defined for the 791 – 821 MHz frequency sections paired with the 832 – 862 MHz through Decisions ECC/DEC/(09)03<sup>2</sup> and 2010/267/EU. Based on these decisions, the Slovak Republic executed the process of releasing the 790–862 MHz frequency band, defined as a digital dividend for broadband networks to provide electronic telecommunication services, and prepared an assignment for them in accordance with the above decisions.

The frequency spectrum assigned to one company, according to the appendix of the Frequency utilization plan FP/MS - 12 is currently 2 x 10.0 MHz. In total, it's possible to assign 2 x 30.0 MHz in this band, being the subject of this tender.

Figure 2: The 800 MHz frequency band

790 – 791	791 – 796	796 – 801	801 – 806	806 – 811	811 – 816	816 – 821	821 – 832	832 – 837	837 – 842	842 – 847	847 – 852	852 – 857	857 – 862
Ochranné pásmo	Zostupný smer						Deliaci úsek	Vzostupný smer					
1 MHz	30 MHz (6 blokov so šírkou 5 MHz)						11 MHz	30 MHz (6 blokov so šírkou 5 MHz)					

**Legend:**

Ochranné pásmo = Guardband

Zostupný smer = Downward direction

Deliaci úsek = Splitting section

Vzostupný smer = Upward direction

30 MHz (6 blokov so šírkou 5 MHz) = 30 MHz (6 blocks, each 5 MHz wide)

<sup>2</sup> ECC/DEC/(09)03 (ECC Decision of 30 October 2009 on harmonized conditions for mobile/fixed communications networks (MFCN) operating on the 790 - 862 MHz band)  
<http://www.erodocdb.dk/Docs/doc98/official/pdf/ECCDEC0903.PDF>

**Table 1: Auction blocks for the 800 MHz frequency band**

Auction block category	Auction block designation	Frequency spectrum - upward direction in MHz	Frequency spectrum – downward direction in MHz	Spectrum amount in MHz
A1	A1.1	832 – 837	791 – 796	2 x 5.0
	A1.2	837 – 842	796 – 801	2 x 5.0
	A1.3	842 – 847	801 – 806	2 x 5.0
	A1.4	847 – 852	806 – 811	2 x 5.0
	A1.5	852 – 857	811 – 816	2 x 5.0
	A1.6	857 – 862	816 – 821	2 x 5.0

### 3.2 The 1800 MHz Frequency Band

The 1800 MHz frequency band is defined for the 1710 – 1785 MHz frequency sections paired with the 1805 – 1880 MHz through Decisions ECC/DEC/(06)13<sup>3</sup>, and 2009/766/EC<sup>4</sup>, amended by Decision 2011/251/EU<sup>5</sup>. Frequencies from the mentioned band are used to provide public electronic communication services, and in Slovakia they are designated for three mobile operators: Orange Slovensko, a.s., Slovak Telekom, a.s., and Telefónica Slovakia, s.r.o. Each operator has rights to use the frequencies from this band in the range of 30.4 MHz.

Frequencies from the 1800 MHz band aren't currently used at full capacity. Still available channels are listed in Table 2, together representing frequencies in the range of 40.8 MHz, being the subject of this tender.

The frequency spectrum assigned to one company, according to the appendix of the Frequency utilization plan FP/MS-02 rev.3 is currently 2 x 15.2 MHz.

**Table 2: Free channels on the 1800 MHz frequency band**

Channel no.	Frequency section	Spectrum amount in MHz
512 – 542	1710.1-1716.3 MHz/ 1805.1-1811.3 MHz	2 x 6.2 MHz
582 – 586	1724.1-1725.1 MHz/ 1819.1-1820.1 MHz	2 x 1.0 MHz
681 – 691	1743.9-1746.1 MHz/ 1838.9-1841.1 MHz	2 x 2.2 MHz
711 – 712	1749.9-1750.3 MHz/ 1844.9-1845.3 MHz	2 x 0.4 MHz
789 – 841/	1765.5-1776.1 MHz/	2 x 10.6 MHz

<sup>3</sup> ECC/DEC/(06)13 (ECC Decision of 1 December 2006 on the designation of bands 880-915 MHz, 925-960 MHz, 1710-1785 MHz and 1805-1880 MHz for terrestrial IMT-2000/UMTS systems) [www.ero-docdb.dk/docs/doc98/official/pdf/ECCDec0613.pdf](http://www.ero-docdb.dk/docs/doc98/official/pdf/ECCDec0613.pdf)

<sup>4</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:274:0032:0035:EN:PDF> – 2009/766/EC – Decision on the harmonization of frequency bands 900 MHz and 1800 MHz

<sup>5</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:106:0009:0010:EN:PDF> – 2011/251/EU – Decision about the amendment and appendix to Decision 2009/766/EC



Channel no.	Frequency section	Spectrum amount in MHz
	1860.5-1871.1 MHz	

**Table 3: Auction blocks for the 1800 MHz frequency band**

Auction block category	Auction block designation	Frequency spectrum – upward direction in MHz	Frequency spectrum – downward direction in MHz	Spectrum amount in MHz
B1	B1.1	1710.1-1715.1	1805.1-1810.1	2 x 5.0
B2	B2.1	1715.1-1716.3	1810.1-1811.3	2 x 1.2
B3	B3.1	1724.1-1725.1	1819.1-1820.1	2 x 1.0
B4	B4.1	1743.9-1746.1	1838.9-1841.1	2 x 2.2
B5	B5.1	1749.9-1750.3	1844.9-1845.3	2 x 0.4
B6	B6.1	1765.5-1766.1	1860.5-1861.1	2 x 0.6
B7	B7.1	1766.1-1771.1	1861.1-1866.1	2 x 5.0
	B7.2	1771.1-1776.1	1866.1-1871.1	2 x 5.0

### 3.3 The 2600 MHz Frequency Band

The 2600 MHz frequency band is defined for the 2500 - 2570 MHz/2620 - 2690 MHz frequency sections (paired spectrum section – the FDD system) and the 2570 - 2620 MHz frequency sections (unpaired spectrum section – the TDD system) through Decisions ECC/DEC/(05)05<sup>6</sup> and 2008/477/EC<sup>7</sup>.

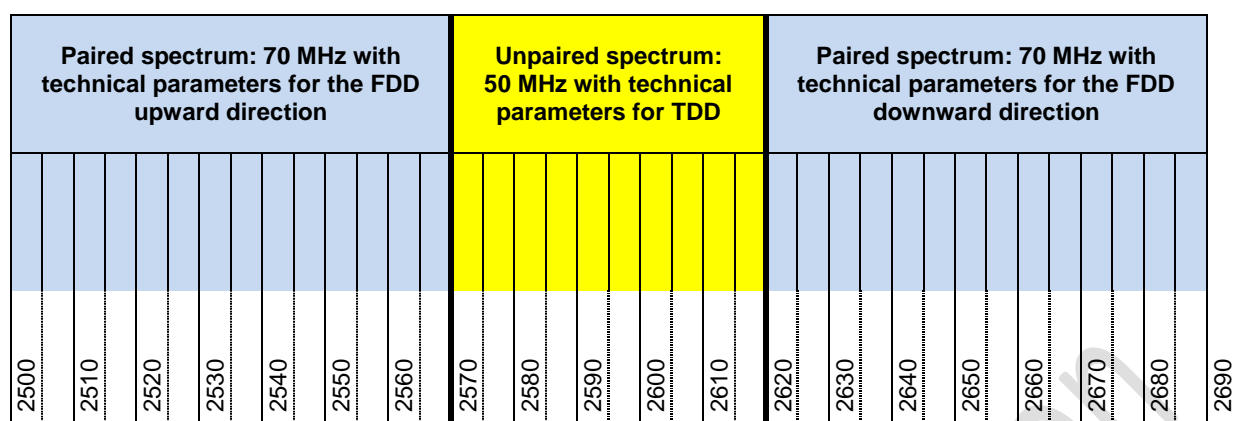
Presently, this band is used for the retransmission of unchanged TV programs using the MMDS systems (networks for local usage). Since the frequencies from this channel weren't used in the past, the office issued individual permits with a limited validity, i.e. until they become assigned in accordance with their designation. According to NTFS, the validity for the Plan for Frequency spectrum Usage, as well as the verdict in the Decisions themselves (individual permits to use frequencies), expires on 31 December 2013. After this date, this frequency band will be available for broadband access networks for the provision of communication services according to the technological objectivity principles.

Figure 3 shows the channel layout within this frequency band in accordance with Decision ECC/DEC/(05)05, laying down the 2500 – 2570 MHz frequency sections paired with the 2620 – 2690 MHz section for FDD (Frequency Division Duplex) and the 2570 – 2620 MHz section for TDD (Time Division Duplex), being the subject of this tender.

<sup>6</sup> ECC/DEC/(05)05 (ECC Decision of 18 March 2005 on the harmonized utilisation of the spectrum for IMT-2000/UMTS systems operating on the 2500 – 2690 MHz band) <http://www.ero-docdb.dk/Docs/doc98/official/pdf/ECCDEC0505.PDF>

<sup>7</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:163:0037:0041:EN:PDF> – 2008/477/EC – Decision 2.6 GHz

**Figure 3: Channel layout in the 2600 MHz frequency band**



**Table 4: Auction blocks in the FDD part of the 2600 MHz frequency band**

Auction block category	Auction block designation	Frequency spectrum – upward direction in MHz	Frequency spectrum – downward direction in MHz	Spectrum amount in MHz
C1	C1.1	2500 – 2505	2620 – 2625	2 x 5.0
	C1.2	2505 – 2510	2625 – 2630	2 x 5.0
	C1.3	2510 – 2515	2630 – 2635	2 x 5.0
	C1.4	2515 – 2520	2635 – 2640	2 x 5.0
	C1.5	2520 – 2525	2640 – 2645	2 x 5.0
	C1.6	2525 – 2530	2645 – 2650	2 x 5.0
	C1.7	2530 – 2535	2650 – 2655	2 x 5.0
	C1.8	2535 – 2540	2655 – 2660	2 x 5.0
	C1.9	2540 – 2545	2660 – 2665	2 x 5.0
	C1.10	2545 – 2550	2665 – 2670	2 x 5.0
	C1.11	2550 – 2555	2670 – 2675	2 x 5.0
	C1.12	2555 – 2560	2675 – 2680	2 x 5.0
	C1.13	2560 – 2565	2680 – 2685	2 x 5.0
	C1.14	2565 – 2570	2685 – 2690	2 x 5.0

**Table 5: Auction blocks in the TDD part of the 2600 MHz frequency band**

Auction block category	Auction block designation	Frequency spectrum in MHz	Spectrum amount in MHz
C2	C2.1	2570 – 2575	1 x 5.0
	C2.2	2575 – 2580	1 x 5.0
	C2.3	2580 – 2585	1 x 5.0
	C2.4	2585 – 2590	1 x 5.0
	C2.5	2590 – 2595	1 x 5.0
	C2.6	2595 – 2600	1 x 5.0
	C2.7	2600 – 2605	1 x 5.0
	C2.8	2605 – 2610	1 x 5.0
	C2.9	2610 – 2615	1 x 5.0
	C2.10	2615 – 2620	1 x 5.0

### 3.4 One-time Payment for Assigning Frequencies

Based on Paragraph 33, Section 2, g) of the Act on Electronic Communications, the office shall determine the lowest bid for the offered auction blocks in all categories of the invitation to submit tender bids. The lowest bid is the starting one. Starting bids are based on the benchmark analyses of bids in the European auctions of the relevant frequency bands.

**Table 6: Starting bids and eligibility points for the auction block categories**

Auction block category	Starting bid (in eur)	Eligibility points
A1	19,000,000	18
B1	2,200,000	3
B2	500,000	1
B3	400,000	1
B4	1,000,000	1
B5	200,000	1
B6	300,000	1
B7	2,200,000	3
C1	1,100,000	2
C2	400,000	1

The amount of the one-time payment for assigning frequencies will be equal to the summary of the basic price for the winning bid from the main auction stage, and the relevant assignment bids in all relevant auction block categories.

The eligibility points are assigned to the offered auction blocks.

The participant's competence is determined by the highest possible number of auction blocks upon which the participant can submit a combined bid within the primary rounds of the main auction stage. In each round, the participant can submit bids only to such block combinations with the number of eligibility points lower or equal to the competence of the given participant for the given round.

The number of the participant's eligibility points for the first primary round of the main auction stage must be secured by a bank guarantee (see Chapter 5.1.3) at the time of the tender submission deadline.

## 4 Conditions and Liabilities Related to the Issuance of Individual Licenses to Use Frequencies – the Office's Decision on Assigning Frequencies

Conditions related to the issuance of individual licenses to use frequencies – the office's decision on assigning frequencies, including the conditions for efficient frequency usage, and liabilities taken over by the tender participant during the selection process, will be stated in the office's decision on assigning frequencies issued based on the tender results and in accordance with the conditions below.

## 4.1 Basic Conditions for the Usage of Assigned Frequencies

Individual permits to use frequencies offered within the tender are nationwide for all Slovakia.

### 4.1.1 Conditions for Using Frequencies in the 800 MHz Frequency Band

Conditions for using frequencies on the 800 MHz band are listed in the Appendix to the plan for utilizing frequency spectrum no. FP/MS-12, and will be reflected in individual permits to use frequencies, and perhaps other issued documents based on the Act on Electronic Communications.

The public electronic communication network operated on the 800 MHz frequency band must comply with technical conditions listed in European Commission Decision 2010/267/EU, Recommendation ECC/REC/(11)04<sup>8</sup>, and within the standard selected by the tender participant, also the conditions listed in the ETSI standards and other relevant European Commission, CEPT, and ITU documents.

#### Frequency section:

832 – 862 MHz – Frequency section for terminal stations

791 – 821 MHz - Frequency section for base stations

821 – 832 MHz – Dividing section

790 – 791 MHz – Guard band

Channel width: 5.0 MHz

Duplex distance: 41.0 MHz

Harmonized ETSI standards: EN 302 326-2, EN 302 326-3

Relevant documents: 2010/267/EC, ECC/DEC/(09)03, ECC/REC/(11)04

Range of assigned frequencies: Presently, maximum 2 x 10.0 MHz for one company.

European Commission Decision 2010/267/EU specifies the basic technical conditions for utilizing the 800 MHz frequency band, using the concept of the spectral Block Edge Mask (BEM). Ordered by the European Commission, the technical conditions for the 800 MHz band were created within the European Conference of Postal and Telecommunications Administrations (CEPT). The electromagnetic field's intensity levels for the used frequencies in border areas are stated in international agreements to which the Slovak Republic is bound.

The office provides the original full text of these international agreements between individual administrations upon request.

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<sup>8</sup> ECC/REC/(11)04 (Frequency planning and frequency coordination for terrestrial systems for mobile/fixed communication networks (MFCN) capable of providing electronic communications services on the 790-862 Mhz frequency band)

<http://www.erodocdb.dk/docs/doc98/official/pdf/Rec1104.pdf>

CEPT Report 30<sup>9</sup> determines the least restrictive technical conditions using the concept of the spectral Block Edge Mask (BEM), being the regulatory requirements focused on reducing the risk of harmful interference between neighboring networks, with a special regard to the protection of digital terrestrial television services provided on a frequency band below 790 MHz.

CEPT Report 31<sup>10</sup> contains the conclusion that the prior frequency arrangement for the 800 MHz band should be based on a duplex mode with the FDD frequency division (compared to duplex with the TDD time division) in order to simplify the international coordination with radio services.

CEPT Report 32<sup>11</sup> respects the interest in continuing the operation of the PMSE applications (ensuring news programs and organizing collective social events – Program-Making and Special Events). The conditions for using the 800 MHz frequency band in Slovakia are coordinated in accordance with European Commission Decision 2010/267/EZ and these Reports, based on which the following main terms of use are defined:

- The e.i.r.p. BEM limits outside the block in the case of base stations on frequencies below 790 MHz are set at the Case A level, listed in Table 7 of European Commission Decision 2010/267/EU:

**Table 7: The e.i.r.p. BEM limits outside the block in the case of base stations on frequencies below 790 MHz**

(P) e.i.r.p. capacity inside the block for base stations [dBm/10 MHz]	Maximum medium e.i.r.p. outside the block
$P \geq 59$	0 dBm/(8 MHz)
$36 \leq P < 59$	$(P - 59)$ dBm/(8 MHz)
$P < 36$	- 23 dBm/(8 MHz)

- The BEM radiation threshold inside the terminal blocks is on the FDD uplink frequency mode = +23 dBm. This capacity value is stated as the e.i.r.p. of construction terminals designed as fixed or built in, and as TRP (Total Radiated Power) for terminals designed as mobile or portable. The e.i.r.p. and TRP values are equivalent for isotropic antennas. With this value, a deviation of up to +2 dB can be accepted, taking into account the operation in extreme environments and production tolerance.

<sup>9</sup> - CEPT Report 30 (The identification of common and minimal (least restrictive) technical conditions for 790 - 862 MHz for the digital dividend in the European Union)

<http://www.eroocdb.dk/Docs/doc98/official/pdf/CEPTREP030.PDF>

<sup>10</sup> - CEPT Report 31 (Frequency (channeling) arrangements for the 790-862 MHz band)

<http://www.eroocdb.dk/Docs/doc98/official/pdf/CEPTREP031.PDF>

<sup>11</sup> - CEPT Report 32 (Recommendation on the best approach to ensure the continuation of existing Program Making and Special Events (PMSE) services operating on UHF (470-862 MHz), including the assessment of the advantage of an EU-level approach)

<http://www.eroocdb.dk/Docs/doc98/official/pdf/CEPTREP032.PDF>

All above-mentioned technical conditions based on the European Commission Decision will be included as specific technical requirements when granting rights to use frequencies for the operation of a public electronic communications radio network on the 800 MHz band, and for individual permits to use the 800 MHz frequency band.

#### **4.1.2 Conditions for Using Frequencies on the 1800 MHz Frequency Band**

Conditions for using frequencies on the 1800 MHz band are listed in the Appendix of the Frequency utilization plan no. FP/MS-02 rev. 4, and will be reflected in individual permits to use frequencies, and perhaps other issued documents based on the Act on Electronic Communications.

The public electronic communication network operated on the 1800 MHz frequency band must comply with technical conditions listed in European Commission Decision 2011/251/EU, Recommendation ECC/REC/(08)02<sup>12</sup>, and within the standard selected by the tender participant, also the conditions listed in the ETSI standards and other relevant European Commission, CEPT, and ITU documents. Stations in the 1805 – 1880 MHz/1710 – 1785 MHz bands are operated in a mode with a duplex distance of 95 MHz. Base stations transmit on a higher frequency from the frequency pair.

Frequencies from the stated band are used to provide public electronic communications services, and in Slovakia assigned to three mobile operators – Orange Slovensko, a.s., Slovak Telekom, a.s., and Telefónica Slovakia, s.r.o. Each operator has the right to use frequencies on this band in the range of 30.4 MHz.

Frequencies from the 1800 MHz band aren't currently used at full capacity. Still available channels are listed in Table 2, together representing frequencies in the 40.8 MHz range.

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##### Frequency section:

Tx 1805 – 1880 MHz

Rx 1710 – 1785 MHz

Channel width: 200 kHz; 1.25 MHz; 5.0 MHz

Duplex distance: 95.0 MHz

Harmonized ETSI standards:

EN 301 502 V8.1.2; EN 300 609-4 V8.0.2; TS 101 087 V8.11.0

Relevant documents: ECC/DEC/(06)07, ECC/REC/(05)08, ECC/DEC/(06)13, ERC/DEC/(98)21, ECC/DEC/(08)08, ERC/DEC/(95)03, 2011/251/EU, 2010/166/EU, 2009/766/EC, 2008/294/EC, ECC/REC/(08)02, ECC/DEC/(12)01

Range of assigned frequencies: Maximum of 2 x 20.0 MHz for one company.

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<sup>12</sup> ECC/REC/(11)04 (Frequency planning and frequency coordination for terrestrial systems for mobile/fixed communication networks (MFCN) capable of providing electronic communications services on the 790-862 Mhz frequency band)

<http://www.erodocdb.dk/docs/doc98/official/pdf/Rec1104.pdf>

The issue of the coexistence of GSM systems and systems from the IMT standards group is addressed in the stated documents. The coexistence of the above-stated systems on the 1800 MHz frequency band is possible if the following technical parameters are ensured (if the operators of the neighboring networks don't agree otherwise):

**Table 8: Technical parameters of coexisting systems on the 1800 MHz frequency band**

Systems	Technical parameters
UMTS in compliance with the UMTS standards issued by ETSI, especially standards EN 301908-1, EN 301908-2, EN 301908-3, and EN 301908-11	<ol style="list-style-type: none"> <li>1. Distance of at least 5 MHz between two neighboring UMTS networks' carrying frequencies.</li> <li>2. Distance of at least 2.8 MHz between the UMTS's and neighboring GSM network's carrying frequencies.</li> </ol>
LTE in compliance with the LTE standards issued by ETSI, especially standards EN 301908-1, EN 301908-13, EN 301908-14, and EN 301908-11	<ol style="list-style-type: none"> <li>1. Distance of at least 200 kHz between the LTE channel's edge and the GSM carrying frequency's channel edge between the neighboring LTE and GSM.</li> <li>2. No distance is required between the LTE channel edge and the UMTS carrying frequency's channel edge between the neighboring LTE and UMTS networks.</li> <li>3. No distance is required between the LTE channel borders of two neighboring LTE networks.</li> </ol>
WiMAX in compliance with the WiMAX standards issued by ETSI, especially standards EN 301908-1, EN 301908-21, and EN 301908-22	<ol style="list-style-type: none"> <li>1. Distance of at least 200 kHz between the WiMAX channel edge and the GSM carrying frequency's channel edge between the neighboring WiMAX and GSM networks.</li> <li>2. No distance is required between the WiMax channel edge and the UMTS carrying frequency's channel edge between the WiMAX and UMTS neighboring networks.</li> <li>3. No distance is required between the WiMAX channel borders of two neighboring WiMAX networks.</li> </ol>

In case of interference between different technologies used on this frequency band, the GSM system is always first, i.e. the mitigation measure to reduce interference is carried out by the operator of a network other than GSM.

#### **4.1.3 Conditions for Using Frequencies on the 2600 MHz Frequency Band**

Conditions for using frequencies on the 2600 MHz band are listed in the Appendix of the Frequency utilization plan no. FP/MS-11 rev. 3, and will be reflected in individual permits to use frequencies, and perhaps other issued documents based on the Act on Electronic Communications.



The public communication network operated on the 2600 MHz frequency band must comply with the technical conditions listed in European Commission Decision 2008/477/EC, Recommendation ERC/REC/(11)05<sup>13</sup>, and within the standard selected by the tender participant, also the conditions listed in the ETSI standards and other relevant European Commission, CEPT, and ITU documents.

Frequency section:

2500 – 2570 MHz – Frequency section for terminal stations (FDD uplink)

2620 – 2690 MHz - Frequency section for base stations (FDD downlink)

2570 – 2620 MHz - Frequency section for TDD

Channel width: 5.0 MHz

Duplex distance: 120.0 MHz (for FDD)

Harmonized ETSI standards: EN 302 326-2, EN 302 326-3

Relevant documents: 2008/477/EC, ERC/REC/(01)01, ERC/REC/(11)05, ECC/DEC/(05)05

Channel arrangement within this frequency band complies with Decision ECC/DEC/(05)05, laying down the 2500 – 2570 MHz frequency sections paired with the 2620 – 2690 MHz section for FDD (Frequency Division Duplex) and the 2570 – 2620 MHz section for TDD (Time Division Duplex). Conditions for using the 2600 MHz band in Slovakia are coordinated in accordance with the above-stated documents, based on which the following terms of use are defined in particular:

- stations on the 2620 – 2690 MHz/2500 – 2570 MHz bands operate in a duplex mode with a duplex distance of 120 MHz. Base stations transmit on the higher frequency from the pair. Stations on the 2570 – 2620 MHz band operate in a simplex mode.
- the e.i.r.p. limits for base stations inside the block = +61 dBm/(5 MHz).

The electromagnetic field's intensity levels in border areas are stated in international agreements. The office provides the original full text of these international agreements between individual administrations upon request.

#### **4.1.4 Using Assigned Frequencies**

Before starting to use the assigned frequencies, the successful tender participant is obliged to request the office for the issuance of an individual permit to use frequencies – the office decision on the determination of conditions under which it's possible to use the frequencies.

#### **Technologies and services provided using the assigned frequencies**

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<sup>13</sup> ECC/REC/(11)04 (Frequency planning and frequency coordination for terrestrial systems for mobile/fixed communication networks (MFCN) capable of providing electronic communications services on the 790-862 Mhz frequency band)

<http://www.erodocdb.dk/docs/doc98/official/pdf/Rec1104.pdf>



In accordance with the technology objectivity principle, the office doesn't determine any conditions or limitations in relation to the technologies that the tender participant plans to use along with the frequencies in order to provide publicly available electronic communication services.

Frequencies assigned in this tender can only be used via radio devices that comply with the applicable technical standards and other general legal regulations. The office reserves the right to modify the minimum requirements for technical devices related to the usage of these frequencies at any time.

## **4.2 Conditions for Efficient Frequency Usage**

There are criteria specified for the use of frequencies that are the subject of the prepared tender, applicable to the holder of an individual permit in terms of fulfilling the conditions for the efficient usage of frequencies gained in this tender.

The successful tender participant is obliged to start using the assigned frequencies within six months from the day the permit becomes valid. Otherwise, the assigned frequencies will be removed.

The permit can be cancelled in the case of validating the development criteria determined in this Chapter, according to Paragraph 34, Section 3, c) of the Act on Electronic Communications, without any right for refunding the one-time payment for using frequencies, or its aliquot part.

### **4.2.1 Development Criteria for the 800 MHz Frequency Band**

A successful tender participant who has been issued an individual permit to use the 800 MHz frequency band is obliged to cover the following percentage of the population with mobile communication services using their own network with frequencies from the 800 MHz band, assigned in this tender:

- Minimum 25% of the Slovak population, no later than 31 December 2015
- Minimum 50% of the Slovak population, no later than 31 December 2017
- Minimum 70% of the Slovak population, no later than 31 December 2018

### **4.2.2 Development Criteria for the 1800 MHz Frequency Band**

A successful tender participant who has been issued an individual permit to use the 1800 MHz frequency band corresponding to the auction blocks in the B1 or B7 Categories is obliged to cover the following percentage of the population with mobile communication services using their own network with frequencies from the 1800 MHz band, assigned in this tender:

- 25% of the Slovak population, no later than 31 December 2015
- 50% of the Slovak population, no later than 31 December 2018

### **4.2.3 Development Criteria for the 2600 MHz Frequency Band**

A successful tender participant who has been issued an individual permit to use the 2600 MHz frequency band is obliged to cover the following percentage of the population with mobile communication services using their own network with frequencies from the 2600 MHz band, assigned in this tender:

- 10% of the Slovak population, no later than 31 December 2015
- 25% of the Slovak population, no later than 31 December 2018

#### 4.2.4 The Minimum Guaranteed Transmission Speed

The minimum guaranteed transmission speed for the end service user (without aggregation), crucial for meeting the transmission criteria specified in Chapters [4.2.14.2.1](#), [4.2.2](#), and [Chyba! Nenašiel sa žiaden zdroj odkazov.4.2.3](#), is the outdoor transmission speed:

- In the 800 MHz band: 2 Mbit/s for downlink and 256 kbit/s for uplink
- In the 1800 MHz band:
  - 12.2 kbit/s for the GSM technology for voice phone services
  - 2 Mbit/s for downlink and 256 kbit/s for uplink in the case of other technologies
- In the 2600 MHz band: 2 Mbit/s for downlink and 256 kbit/s for uplink

The office shall prepare a methodology for assessing compliance with the development criteria. The precise methodology will be publicly consulted and prepared in collaboration with the successful tender participants. The office shall ensure that the methodology is prepared by the time it will be necessary to verify compliance with the development criteria the first time.

#### 4.2.5 Verifying the Conditions of Efficient Frequency Usage

The coverage level is defined as the percentage share of the population with available service with the minimum guaranteed transmission speed according to Chapter 4.2.4, compared to the total population of Slovakia.

For the purpose of verifying the coverage level and its compliance with the required development criteria specified in Chapters [4.2.14.2.1](#), [4.2.2](#), and [Chyba! Nenašiel sa žiaden zdroj odkazov.4.2.3](#), the individual permit holder must submit to the office the results of simulation calculations performed using standard simulation tools. The foundation for these calculations is the list of base stations operating to the given date, as well as their technical parameters. The levels of capacity utilization and realistic quality parameters obtained from real measurements will be used as the input parameters for the calculations.

The final theoretical coverage level must be determined based on the submitted simulation calculations. The 100m x 100m squares on the map of Slovakia with 100m x 100m grids will be used as population units, i.e. the smallest areas considered as covered or non-covered. The given population unit is considered to be covered if the geometric center of the associated 100m x 100m square is covered. If the point corresponding to the geometric center of the given square is not publicly accessible, and therefore the coverage of this point is not verifiable, the closest publicly accessible point will be used to verify the coverage of the given population unit.

For the purpose of verifying the coverage level and its compliance with the required development criteria specified in Chapters [4.2.14.2.1](#), [4.2.2](#), and [Chyba! Nenašiel sa žiaden zdroj odkazov.4.2.3](#), the individual permit holder must submit to the office the following information in electronic form no later than four weeks after the deadline for fulfilling the relevant development criterion:

- List with locations of all base stations, along with the relevant geo-coded data (GIS format, vector graphics), and the information about the frequency blocks used on each square
- Information about the operation level and capacity utilization within the squares
- Other input parameters necessary to perform simulation calculations
- Map of the Slovak Republic with the locations of base stations and identified population units covered (GIS format, vector graphics)
- List of covered population units and the final coverage level calculated from this list

In order to verify the coverage level, the office can perform verification measurements at any time.

#### **4.2.6 Penalties for Violating Conditions Determined for Individual Permits**

In the case of violating conditions determined for individual permits, the office shall proceed in accordance with Paragraph 34, Section 3, c) of the Act on Electronic Communications.

#### **4.3 Validity Period of the Individual Frequency Usage Permit**

Individual permits for using frequencies in the 800 MHz and 2600 MHz bands that are the subject of the tender will be granted 31 December 2028 as the expiration date.

Individual permits for using frequencies on the 1800 MHz band that are the subject of this tender will be granted with the 7 September 2026 expiration date.

#### **4.4 Obligation of the national roaming which the Tender Participant Adopts During the Tender**

Is to ensure efficient usage of the frequency spectrum, economic competition development in the market of services provided at the frequencies that are the subject of this tender, and in order to achieve the tender objectives, the tender participants will adopt the commitment to provide national roaming during the tender, under the conditions listed in this Chapter.

#### **National Roaming**

When submitting the tender bid, each participant shall adopt the commitment to provide national roaming, if they are assigned the minimum of 2 x 15.0 MHz after the tender on the 800 MHz and 900 MHz bands.

According to the national roaming commitment, the eligible candidates for national roaming are those tender participants who are issued the following permits after this tender's announcement:

Formátov  
Arial, 12 p

Formátov  
Arial, 12 p

- participants with an individual permit to use the 1800 MHz frequency band in the range of 2 x 15.0 MHz, who at the same time don't obtain the permit to use the 800 MHz band, or
- participants with an individual permit to use the 800 MHz frequency band, who are not holders of permits to use the 900 MHz frequency band at the same time.

The national roaming commits the participants to provide roaming for networks using frequencies from the 900 MHz and 1800 MHz bands to eligible roaming candidates until 31 December 2018.

If the parties don't agree otherwise, the tender participant commits to start providing the network access based on their roaming commitment to every eligible roaming candidate, no later than on the day when the following condition is met:

- An eligible candidate for national roaming shall cover at least 20% of the Slovak population using the frequencies assigned after the tender announcement, on the 800 MHz and/or 1800 MHz bands. In case of a dispute, the office shall confirm compliance with the coverage condition.

If the parties don't agree otherwise, the tender participant's commitment to continue providing access to the electronic communications network terminates if:

- If the eligible candidate for national roaming doesn't cover at least 40% of the Slovak population in 12 months, at least 60% in 24 months, and at least 80% of the population in 36 months from the fulfillment of the condition according to the previous section, using the frequencies on the 800 MHz and 1800 MHz bands assigned after the tender announcement.

#### **4.5 Modification and Cancellation of an Individual Permit, or Removal of Assigned Frequencies**

The modification, cancellation of the decision about assigning frequencies, and their removal, is governed in Paragraph 34, Section 2 and 3 of the Act on Electronic Communications. The office doesn't set any other conditions in relation to these issues.

## **5 Terms and Conditions of Tender Participation**

### **5.1 Requirements for the Bid Submitted by the Tender Participant**

The office determines the requirements for tender bids.

All requirements listed in the invitation to submit tender bids must be met at the time of the deadline for submitting bids. If a change in the participant's qualification occurs during this tender that may lead to failure to comply with the qualification requirements, the affected participant is obliged to notify the office about this fact within 7 days in writing.

### 5.1.1 Financial Requirements

Financial requirements will be met by a participant who submits the bank guarantee no later than on the last day of the period for submitting tender bids.

### 5.1.2 Bank Guarantee

The requirement is to submit the original letter of the bank guarantee, according to Paragraph 313 and what follows, of the Commercial Register, along with the tender bid. The guarantee letter must show that the bank will satisfy the creditor (the office) for the debtor (participant), if the situation described in this chapter occurs. This shall be done at the first written request by the creditor (office), no later than 10 days after receiving such a request. The bank guarantee must be irrevocable. The guarantee letter between the bank and debtor (participant) cannot contain any objections of the debtor towards the creditor.

The guarantee letter must be provided by a bank institution registered in one of the European Union countries, and this institution must have a long-term credit rating at least at the investment level, i.e.:

- BBB- and higher from Standard & Poor, or
- Baa3 and higher from Moody's, or
- BBB- and higher from Fitch.

A sample of a guarantee letter can be found in Appendix 5.

### Amount of Bank Guarantee

The minimum bank guarantee is set to the amount equal to the product of the required eligibility points stated in the tender bid, and the sum of €500,000. If the bank guarantee isn't sufficient to secure the required number of eligibility points, they will be reduced to the amount secured by the guarantee.

At the same time, restrictions related to the maximum price bid in the primary and supplementary rounds of the main auction stage are devoted from this guarantee as specified in the following table:

**Table 9: Bank guarantee in relation to the maximum price bid**

Amount of the bank guarantee	The highest price bid in the main auction stage
< €10 mil.	€20 mil.
≥ €10 mil. and < €20 mil.	€40 mil.
≥ €20 mil. and < €50 mil.	€80 mil.
≥ €50 mil.	Unlimited

In order to maintain the adequacy of the bank guarantee in terms of the purposes specified in this Chapter, the minimum bank guarantee is set at €5 million, corresponding to 10 eligibility points.

The bank guarantee must be higher than €5 million. If the submitted bank guarantee is lower than €5 million, the selection board will exclude the participant from the tender.

The bank guarantee must also be higher than the proportion of the required eligibility points and the amount of €500,000. If the bank guarantee isn't sufficient to secure the required number of eligibility points, they will be reduced to the amount secured by the guarantee.

### **Validity Period of Bank Guarantee**

The bank guarantee is effective from the day of the guarantee letter's receipt by the office along with the tender bid, and terminates on 31 December 2015, if it's not returned or forfeited to the state during its validity period, according to this Chapter.

### **Purpose of Bank Guarantee**

The purpose is to protect the office in case of inappropriate behavior on the part of the tender participants, especially to ensure:

- a) payment of the entire one-time amount for granting the successful tender participants an individual permit to use frequencies for all auctioned blocks
- b) preventing such behavior that may lead to thwarting the auction purpose or process.

The bank guarantee deposited by a tender participant shall be forfeited to the state if:

- a) the successful tender participant fails to make the one-time payment for the right to use frequencies within the set period
- b) the successful tender participant takes their application back before the decision on assigning frequencies is issued
- c) the tender participant causes the thwarting of the auction purpose or process with their behavior.

The unsuccessful tender participant will be returned the original guarantee letter without any delays after the suspension of proceedings concerning their application.

The successful tender participant will be returned the guarantee letter after making the complete one-time payment for assigning frequencies determined in the permit – the office's decision on assigning frequencies.

## **5.2 Bid Submitted For the Tender**

### **5.2.1 Formalities Concerning the Tender Bid**

The bid submitted for the tender is also an application for the issuance of an individual permit to use frequencies. A bid sample can be found in Appendix 1.

Tender bids must contain all requirements according to the tender invitation.

In the case of legal persons, the bid must be signed by a person or persons entitled to act on the participant's behalf in accordance with the registration in the Commercial Register or a similar register. In the case of legal persons whose bid is not signed by the person or persons entitled to this in accordance with the registration in the Commercial Register or a similar register, the participant is obliged to include a notarized authorization proving the entitlement of the signed natural persons to sign the bid.

Tender bids shall be submitted in two copies of the written version, from which one is marked as the original and the other as the copy. The participant is responsible for the exactitude of both copies. It's necessary to enclose the original documents or their notarized copies with the original bid. The copy can include ordinary unnotarized copies of the relevant documents. The original must be secured against the removal or additional insertions of papers. The participant shall submit the full electronic version of the tender bid in PDF along with the printed version, on a physical data medium without the option to rewrite (eg, USB, DVD, CD).

If the tender bid or its appendices contain classified information, a bank, tax, or trade secret, or if the confidentiality imposed or recognized by the law is violated by disclosing this information, the participant shall also enclose another copy without this information, so that the office can use this version to look into the file, under Paragraph 23 of Act No. 71/1967 Coll. on Administrative Procedure as amended. According to Paragraph 9, Section 2 of the Act on Electronic Communications, the tender participant shall further enclose a written justification for marking the information as classified, and provide this information in a form that excludes the trade secret.

The participant shall provide the identity and phone number of one or two authorized persons in Appendix 2, entitled to communication with the office during the tender, to appropriate the login information to sign into the electronic auction system, and to telephone communication between the office and tender participant during the tender. The authorized person shall appropriate the login information for the participant pursuant to the office's summons. When appropriating the login information, the authorized person must prove their identity.

The tender bid must be prepared in the official language (Slovak). Other papers and documents enclosed with the bid may be in a language other than official, but with an official translation in Slovak. Documents in Czech don't need an official translation.

The tender bid must be delivered to the office's address before the deadline stated in Chapter 5.3. The original bid copy, as well as the copy including the electronic medium must be delivered together in one sealed envelope secured against accidental opening, showing a clear inscription "NEOTVÁRAŤ – VÝBEROVÉ KONANIE 800 MHz, 1800 MHz, 2600 MHz."

## **5.2.2 Mandatory Appendices for the Tender Bid**

The participant must enclose the following documents with their tender bid:

- a) The original or notarized copy of the extract from the Commercial Register, Trade Register, or similar register, or other similar document of the candidate's registration issued by a competent state authority, not older than three months
- b) In the case of legal persons whose bid isn't signed by a person or persons entitled to this in accordance with the registration in the Commercial Register or similar register, the authorization proving the entitlement of the signed natural persons for signing the bid
- c) Authorization entitling communication with the office and appropriation of the login information during the tender (Appendix 2 of the invitation)
- d) Declaration about accepting the commitment the participant adopts during the tender (Appendix 3)
- e) Declaration about the bid's completeness (Appendix 4)
- f) Original of the guarantee letter from the bank guarantee (Appendix 5)
- g) Consent to the processing of the personal data of all people whose information is listed in the bid (Appendix 6)

### **5.2.3 Tender Bid's Obligation**

The participant is entitled to modify or withdraw their bid anytime before the deadline for submitting bids. Such a change or withdrawal must be signed by a person or persons entitled to act on the participant's behalf or representing them.

### **5.3 Deadline for Submitting Tender Bids**

The tender bid must be delivered to the office in person, **no later than 7 October 2013 by 1.30 PM** to the following address: Telekomunikačný úrad Slovenskej republiky, Továrenská 7, P. O. Box 40, 828 55 Bratislava 24.

The office's mailroom is open during working days from Monday to Thursday from 8 AM to 11.30 AM, and from 12.15 PM to 3 PM, and on Fridays from 8 AM to 11.30 AM, and from 12.15 PM to 13.30 PM.

Bids delivered after the deadline will be returned unopened.

### **5.4 Opening Envelopes with Tender Bids**

The office shall create a selection committee to assess the submitted bids according to Paragraph 33, Section 5 of the Act on Electronic Communications.

Opening envelopes is not public and takes place exclusively in the presence of the selection committee members. The committee shall prepare a record about the opening of the envelopes.

The selection committee shall exclude participants from the tender whose bid doesn't comply with the requirements stated in the invitation or whose individual permit was cancelled by the office in the last three years under Paragraph 34, Section 3 of the Act on Electronic Communications.

### **5.5 Assessment of Submitted Bids**



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The selection committee shall assess whether the submitted bids comply with the requirements stated in the tender invitations. If the bid fails to comply with the conditions, the committee shall exclude such a participant from the tender.

The office shall invite to the auction those participants who weren't excluded.

The office is entitled to exclude a participant from the auction if the participant violates the auction rules with their behavior, according to the Act on Electronic Communications.

The office shall cancel the tender auction, if only one tender participant proceeds to the auction.

non-binding translation

## 6 Explanation of Terms and Abbreviations

**Auction** – a form of assessing applications for using frequencies. The auction is a part of the tender, whose purpose is to issue individual permits to use the frequencies that are the subject of this tender. Its aim is to determine the price and permit holders to use frequencies corresponding to individual auction blocks.

**Auction block** – a frequency spectrum block, offered within the auction. The frequency bands that are the subject of this tender correspond with the individual frequency spectrum blocks. If an auction block is defined as specific, this block is assigned a specific frequency band. If an auction block is defined as abstract, a specific frequency band is given in the assignment stage.

**Auction stage** – auction stage in which auction blocks are assigned or allocated using the auction methodology. An auction stage can be divided into several rounds.

**BEM** – “Block Edge Mask” – spectral mask of block edges.

**CCA** – “Combinatorial Clock Auction” is an auction format allowing the participants to submit bids for spectrum block combinations within one process, providing flexibility and the opportunity to try for various frequency block combinations across several spectrum sections at the same time.

**CEPT** – European Conference of Postal and Telecommunications Administrations.

**Digital dividend** – a part of the frequency spectrum released after the transition from analog to digital transmission on the 800 MHz frequency band.

**Individual permit holder for using frequencies** – successful auction participant who meets all tender conditions and who is issued an individual permit to use frequencies based on the tender results.

**ETSI** – “European Telecommunications Standards Institute”

**EU** – European Union.

**FDD** – “Frequency Division Duplex” – type of duplex operation with frequency channel division.

**ITU** – “International Telecommunications Union.”

**Category** – see “auction block category.”

**Auction block category** – set of auction blocks of the same size and technological restriction from one continuous part of the frequency spectrum.

**Commission** – The European Commission is one of the main bodies of the European Union, representing and defending the Union’s interests as a whole. The Commission prepares drafts of new European regulations and is responsible for the implementation of EU policies and the use of EU funds.

**Qualification stage** – tender stage in which it is assessed, whether the participants meet the qualification requirements and conditions defined in Chapter 5.1.

**NTFS** – National Table of Frequency Spectrum of the Slovak Republic

**Commercial Register** – Act No. 513/1991 Coll., Commercial Code as amended and supplemented.

**Eligible candidates for national roaming** – candidates for access to the electronic communications network based on the national roaming commitment meeting the conditions listed in Chapter 4.4.

**PMSE** – “Program-Making Special Events” – ensuring news programs and organizing collective social events

**Tender bid**– bid submitted for the tender. It is also the application for the issuance of an individual permit to use frequencies.

**Assigning stage** – auction stage whose purpose is to assign specific frequency bands to successful auction participants in the range corresponding to the number and structure of obtained auction blocks.

**RSC** – Radio Spectrum Committee (Commission authority).

**RSPG** – Radio Spectrum Policy Group (Commission authority)

**SMRA** – “Simultaneous Multiple Round Auction” – auction format based on simultaneous multiple round auction.

**Competence** – authorization to realize the bids in the given auction round. The competence determines the maximum eligibility points for submitting bids in that round.

**TDD** – “Time Division Duplex” – type of duplex operation with time channel division.

**UMTS** – “Universal Mobile Telecommunications System” – system from the third generation of the mobile cellular technologies group (3G).

**Participant** – who submitted their bid within the period determined in the tender invitation; tender participant.

**Office** – Telecommunications Office of the Slovak Republic

**Successful participant** – a participant who was assigned frequencies by the office based on the tender.

**Act on Electronic Communications** – Act No. 351/2011 Coll. on Electronic Communications as amended.

**National roaming commitment** – tender participant’s commitment to provide any eligible candidate for national roaming access to the communication network or public networks operated by the participant, using the frequencies on the 900 MHz and 1800 MHz bands, in accordance with the conditions stated in Chapter 4.4

## **7 List of Appendices**

Appendix 1 – Sample of the “Bid submitted for the tender” form

Appendix 2 – Sample of the authorization entitling communication with the office during the tender and to appropriate the login information

Appendix 3 – Sample of the declaration on accepting the commitments adopted by the participant during the tender

Appendix 4 – Sample of the declaration on the submitted bid’s completeness

Appendix 5 – Sample of the guarantee letter of the bank guarantee

Appendix 6 – Sample of the consent to process personal information

Appendix 7 – Auction Rules

Bratislava, 27 August 2013

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Ing. Ladislav Mikuš  
Chairman of the Telecommunications  
Office of the Slovak Republic