

PREGLED POSTUPKA #117218

1 PODACI O NARUČIOCU

Naziv naručioca	RADIO DIFUZIONI CENTAR DOO PODGORICA
PIB	02394294
E-mail	rdc@rdc.co.me
Telefon	020/408-000
Internet adresa	www.rdc.co.me
Fax	020/408-005
Adresa	Bulevar Svetog Petra Cetinjskog 130/V
Grad	Podgorica
Poštanski broj	81000

2 OSNOVNI PODACI

Opis predmeta javne nabavke	FM predajnici
Status	U toku
Vrsta predmeta	Robe
Vrsta postupka	Jednostavna nabavka
Službenik za javne nabavke	Aleksandar Vučinić
Kontakt	020-408-000
Datum objave	11.06.2026. 10:30
Napomena	

3 FAZE U POSTUPKU

Vrsta faze	Opis	Početak podnošenja	Kraj podnošenja	Datum otvaranja	Status
Zahtjev za podnošenje ponuda	zahtjev	11.06.2026 10:30	17.06.2026 09:00	17.06.2026 09:00	U toku

4 DODATNE INFORMACIJE

Predmet javne nabavke se nabavlja	kao cjelina
Posebni oblici javne nabavke	
Okvirni sporazum	Ne
Dinamički sistem nabavki	Ne
Elektronska aukcija	Ne
Elektronski katalog	Ne
Nabavka se sprovodi kao	
Zajednička nabavka	Ne
Centralizovana nabavka	Ne
Nabavka je	
Zelena	Ne
Društveno odgovorna	Ne

5 STAVKE PLANA

Godina	Opis	Vrijednost nabavke	Vrijednost PDV	Okvirni sporazum	Vrijednost OS	Vrijednost PDV OS	Vrsta postupka
2026	RADIO DIFUZIONI CENTAR DOO PODGORICA FM predajnici sa pripadajućom opremom 32522000 - Telekomunikaciona oprema	20.000,00 EUR	4.200,00 EUR	-	-	-	Jednostavna nabavka

6 USLOVI ZA UČEŠĆE U POSTUPKU I ZAHTJEVI U POGLEDU NAČINA IZVRŠAVANJA PREDMETA NABAVKE

Opis	Tip uslova / zahtjeva
Uz ponudu se dostavlja izjava ponuđača o ispunjenosti uslova utvrđenih zahtjevom i nepostojanju sukoba interesa, elektronski potpisana od strane ovlaštenog lica ponuđača, data na Obrascu 2, preuzimanjem na posebnom aplikativnom dijelu elektronskog sistema javnih nabavki.	Obrazac 2
•opis i karakteristike predmeta nabavke. Ponuđači su dužni u ponudi dostaviti: •tehničke listove ponuđenih predajnika sa kojim se potvrđuju tražene tehničke katakaarakteristike	Stručna i tehnička sposobnost
Rok za izvršenje ugovora: 40 dana od dana zaključivanja ugovora	Rok izvršenja ugovora
Mjesto izvršenja ugovora su poslovne prostorije Radio-difuznog centra doo-Magacin Plavnica	Mjesto izvršenja ugovora
Rok plaćanja: U roku od 7 dana od dana dostavljanja fakture, nakon potpisivanja zapisnika o kvantitativnom i kvalitativnom prijemu robe	Rok plaćanja
Način plaćanja:virmanski	Način plaćanja
Ponuđači su dužni isporučiti predajnike sa kompletnom i detaljnom tehničkom dokumentacijom i uputstvom za upotrebu u elektronskoj formi.	Drugi uslovi
Garantni rok je 36 mjeseci od dana potpisivanja zapisnika o kvantitativnom i kvalitativnom prijemu robe	Garantni rok
Ponuđač, ukoliko nije proizvođač, mora dokazati da je ovlašten za prodaju ponuđenih predajnika. Dostaviti potvrdu koja potvrđuje ispunjenost traženog uslova	Drugi uslovi
Ponuđač garantuje podršku za FM predajnike minimum 10 godina od dana isporuke. Dostaviti Izjavu.	Drugi uslovi

7 KRITERIJUMI ZA IZBOR NAJPOVOLJNIJE PONUDE

Opis
Cijena

8 PREDMET NABAVKE

Procijenjena vrijednost nabavke: 20.000,00 EUR

TEHNIČKA SPECIFIKACIJA PREDMETA NABAVKE

	Opis predmeta nabavke	Bitne karakteristike predmeta nabavke	Količina
		1. Main features a. The transmitter must be designed for continuous operation 24h/24h. b. The overall efficiency must be ≥70% for 1kW c. The transmitter must have a Digital Modulator witch must generate digital FM signal and goes through a final ADC to warranty an excellent signal quality. d. The transmitter must include at least the following program inputs: i. Analog audio (L/R) ii. AES audio iii. MPX input iv. SCA (RDS) input v. 19kHz sync output e. The transmitter must include configurable silence detectors on each input (threshold, delay...) f. The transmitter must switch automatically the program input based on silence detections and configurable priorities. g. In the case of loss of synchronization on digital input (AES), it must be possible to switch immediately to a back source. h. The transmitter must include a Web interface for remote control and monitoring of all parameters, including: Analog	

audio levels, AES audio level, MPX input level, configured frequency, configured power, configured audio/RDS/total deviation, forward power, reflected power, VSWR, total current deviation, warning state, fault state, 1dB alarm, 3dB alarm, VSWR alarm, interlock state, fan speed, pressure, temperature, internal voltages, currents, ..

- i. The Web interface must be protected by 2 access levels configurable credentials: Admin for read and write access level and Guest for read only access level
- j. The transmitter must include non-volatile memory and save a log of all events.
- k. The event log must be available on the web interface.
- l. The event log can be exported to CSV format.
- m. The transmitter must be compatible with SNMP.
- n. The SNMP feature can be used to GET and SET any parameter of the transmitter. The MIB must be provided by the bidder.
- o. The SNMP feature can send SNMP traps on alarm to up to 4 configurable SNMP managers.
- p. The transmitter can be configured to send alarms by emails

2. Built-in features

- a. The transmitter must include an audio backup based on SD card.
- b. The transmitter as an option must include a DSP based stereo encoder. This option is not required now, but it must be possible to enable it in the future through a software upgrade or licence instalment with no change in hardware
- c. The transmitter must include an activated internal RDS encoder with static parameters (PI, PS, AF, MS, TA, TP, RT, CT...) and Dynamic PS Scrolling capability

		d. The transmitter must include an MPX Power Limiter. e. The transmitter must include a composite hard clipper. f. The transmitter must include a Digital MPX input (over AES) g. The transmitter must include embedded measurement visualizations including RF, MPX and Audio spectrums h. The transmitter must include graphical history readings of key parameters such as RF power, reflected power, temperatures, currents, voltages... i. The transmitter must include a configurable scheduler to set any transmitter parameter at specific date/time j. The transmitter must include as an option a multiband sound processor with selectable presets and audio adjustment. This option is not required now, but it must be possible to enable it in the future through a software upgrade with no change in hardware	
1	Delivery of 1kW single drive FM transmitters	3. Environmental, the following minimum parameters must be met a. Nominal operating temperature: 5°C to 45°C b. Maximum operating temperature: 0°C to 50°C c. Warehousing temperature: -20°C to +70°C d. Humidity: 5 - 95 % non-condensing relative humidity e. Warehousing time: 10 years f. Cooling: Internal air cooling 4. Power supply, the following minimum parameters must be met a. Voltage 184 VAC to 264 VAC b. Frequency 47 Hz - 63 Hz c. Transmitter max consumption i. 1kW TX : 1550 W	1,00 kom

- d. Power factor > 0.9
- 5. Physical
 - a. Number of rack units
 - i. 1kW TX: 2u
- 6. Interface panel
 - a. Indicators: Front panel leds must indicate:
 - i. Life sign,
 - ii. Warning,
 - iii. Fault,
 - iv. RF ON/OFF
 - v. Local mode
 - b. Front panel control Possibility to adjust and monitor the transmitter using the front panel.
- 7. RF section
 - a. Frequency range 87.5 to 108 MHz
 - b. Summary of different steps 10 kHz
 - c. Frequency stability < 10^{-6} per year
 - d. Power range (permanent operation) at least
 - i. 1kW TX: 50-1000W
 - e. Spurious and harmonic suppression > 75 dBc
 - f. VSWR < 1.35
- 8. Composite operation
 - a. Bandwidth
 - i. > 40 Hz to 53 kHz @ 0.1 dB
 - ii. > 20 Hz to 60 kHz @ 0.2 dB
 - iii. > 60 kHz to 80 kHz @ 0.4 dB
 - b. Intermodulation distortion < 0.05%
 - c. FM S/N ratio > 80 dB RMS @ 75 kHz deviation
 - d. AM noise < 0.1% (50 dB) RMS (20-20 000 Hz)
- 9. Stereo operation
 - a. Bandwidth > 20 Hz to 15 kHz @ 0.1 dB

- b. 38 kHz discontinuance > 50 dB
- c. Stereophonic crosstalk > 50 dB
- d. Pre-emphasis 0 μ s, 50 μ s or 75 μ s
- 10. Mono operation
 - a. Bandwidth > 40 Hz to 15 kHz @ 0.1 dB
 - b. Out of band rejection > 40 dB @ 19 kHz
 - c. Preemphasis 0 μ s, 50 μ s or 75 μ s
- 11. AF inputs
 - a. Analog
 - i. Connector "XLR" type
 - ii. Impedance High impedance, balanced
 - iii. Level Software adjustable (-18/+18 dBu range)
 - b. AES
 - i. Connector "XLR" type
 - ii. Impedance > 110 Ω balanced
 - iii. Level Software adjustable (-20 to 0 dBFS range)
 - iv. Sampling rate Auto adjusted up to 192 kHz
 - v. Bit 16, 24, 32
 - c. Multiplex (MPX)
 - i. Connector "BNC" type
 - ii. Impedance > 5 k Ω unbalanced
 - iii. Level Software adjustable (-18/+18 dBu range)
- 12. HF output/input
 - a. FM transmitter output connector:
 - i. 1kW Tx83: 7/16
 - b. Impedance: 50 Ω
 - c. Monitoring (RF Monitor): BNC type output connector on front panel
- 13. Standards : the following standards must be met

		a. 1999/5/CE (R&TTE) b. ETS 302 018 (EMC) c. ETS 300 384 (Radio) d. NF EN 60215 (Safety)	
		1. Main features a. The transmitter must be designed for continuous operation 24h/24h. b. The overall efficiency must be $\geq 70\%$ for 600W c. The transmitter must have a Digital Modulator witch must generate digital FM signal and goes through a final ADC to warranty an excellent signal quality. d. The transmitter must include at least the following program inputs: i. Analog audio (L/R) ii. AES audio iii. MPX input iv. SCA (RDS) input v. 19kHz sync output e. The transmitter must include configurable silence detectors on each input (threshold, delay...) f. The transmitter must switch automatically the program input based on silence detections and configurable priorities. g. In the case of loss of synchronization on digital input (AES), it must be possible to switch immediately to a back source. h. The transmitter must include a Web interface for remote control and monitoring of all parameters, including: Analog audio levels, AES audio level, MPX input level, configured frequency, configured power, configured audio/RDS/total deviation, forward power, reflected power, VSWR, total current deviation, warning state, fault state, 1dB alarm, 3dB alarm, VSWR alarm, interlock state, fan speed, pressure,	

temperature, internal voltages, currents, ..

- i. The Web interface must be protected by 2 access levels configurable credentials: Admin for read and write access level and Guest for read only access level
- j. The transmitter must include non-volatile memory and save a log of all events.
- k. The event log must be available on the web interface.
- l. The event log can be exported to CSV format.
- m. The transmitter must be compatible with SNMP.
- n. The SNMP feature can be used to GET and SET any parameter of the transmitter. The MIB must be provided by the bidder.
- o. The SNMP feature can send SNMP traps on alarm to up to 4 configurable SNMP managers.
- p. The transmitter can be configured to send alarms by emails

2. Built-in features

- a. The transmitter must include an audio backup based on SD card.
- b. The transmitter as an option must include a DSP based stereo encoder. This option is not required now, but it must be possible to enable it in the future through a software upgrade or licence instalment with no change in hardware
- c. The transmitter must include an activated internal RDS encoder with static parameters (PI, PS, AF, MS, TA, TP, RT, CT...) and Dynamic PS Scrolling capability
- d. The transmitter must include an MPX Power Limiter.
- e. The transmitter must include a composite hard clipper.
- f. The transmitter must include a Digital MPX input (over AES)
- g. The transmitter must include embedded measurement

		visualizations including RF, MPX and Audio spectrums h. The transmitter must include graphical history readings of key parameters such as RF power, reflected power, temperatures, currents, voltages... i. The transmitter must include a configurable scheduler to set any transmitter parameter at specific date/time j. The transmitter must include as an option a multiband sound processor with selectable presets and audio adjustment. This option is not required now, but it must be possible to enable it in the future through a software upgrade with no change in hardware	
2	Delivery of 600W single drive FM transmitter	3. Environmental, the following minimum parameters must be met a. Nominal operating temperature: 5°C to 45°C b. Maximum operating temperature: 0°C to 50°C c. Warehousing temperature: -20°C to +70°C d. Humidity: 5 - 95 % non-condensing relative humidity e. Warehousing time: 10 years f. Cooling: Internal air cooling 4. Power supply, the following minimum parameters must be met a. Voltage 184 VAC to 264 VAC b. Frequency 47 Hz - 63 Hz c. Transmitter max consumption i. 600W TX : 830W d. Power factor > 0.9 5. Physical a. Number of rack units i. 600W TX: 2u 6. Interface panel	1,00 kom

- a. Indicators: Front panel leds must indicate:
 - i. Life sign,
 - ii. Warning,
 - iii. Fault,
 - iv. RF ON/OFF
 - v. Local mode
- b. Front panel control Possibility to adjust and monitor the transmitter using the front panel.
- 7. RF section
 - a. Frequency range 87.5 to 108 MHz
 - b. Summary of different steps 10 kHz
 - c. Frequency stability $< 10^{-6}$ per year
 - d. Power range (permanent operation) at least
 - i. 600W TX: 50-600W
 - e. Spurious and harmonic suppression > 75 dBc
 - f. VSWR < 1.35
- 8. Composite operation
 - a. Bandwidth
 - i. > 40 Hz to 53 kHz @ 0.1 dB
 - ii. > 20 Hz to 60 kHz @ 0.2 dB
 - iii. > 60 kHz to 80 kHz @ 0.4 dB
 - b. Intermodulation distortion $< 0.05\%$
 - c. FM S/N ratio > 80 dB RMS @ 75 kHz deviation
 - d. AM noise $< 0.1\%$ (50 dB) RMS (20-20 000 Hz)
- 9. Stereo operation
 - a. Bandwidth > 20 Hz to 15 kHz @ 0.1 dB
 - b. 38 kHz discontinuance > 50 dB
 - c. Stereophonic crosstalk > 50 dB
 - d. Pre-emphasis 0 μ s, 50 μ s or 75 μ s
- 10. Mono operation
 - a. Bandwidth > 40 Hz to 15 kHz @ 0.1 dB

- b. Out of band rejection > 40 dB @ 19 kHz
- c. Preemphasis 0 μ s, 50 μ s or 75 μ s
- 11. AF inputs
 - a. Analog
 - i. Connector "XLR" type
 - ii. Impedance High impedance, balanced
 - iii. Level Software adjustable (-18/+18 dBu range)
 - b. AES
 - i. Connector "XLR" type
 - ii. Impedance > 110 Ω balanced
 - iii. Level Software adjustable (-20 to 0 dBFS range)
 - iv. Sampling rate Auto adjusted up to 192 kHz
 - v. Bit 16, 24, 32
 - c. Multiplex (MPX)
 - i. Connector "BNC" type
 - ii. Impedance > 5 k Ω unbalanced
 - iii. Level Software adjustable (-18/+18 dBu range)
- 12. HF output/input
 - a. FM transmitter output connector:
 - i. 600W TX: 7/16
 - b. Impedance: 50 Ω
 - c. Monitoring (RF Monitor): BNC type output connector on front panel
- 13. Standards : the following standards must be met
 - a. 1999/5/CE (R&TTE)
 - b. ETS 302 018 (EMC)
 - c. ETS 300 384 (Radio)
 - d. NF EN 60215 (Safety)
- 1. Main features

- a. The transmitter must be designed for continuous operation 24h/24h.
- b. The overall efficiency must be $\geq 65\%$ for 300W
- c. The transmitter must have a Digital Modulator witch must generate digital FM signal and goes through a final ADC to warranty an excellent signal quality.
- d. The transmitter must include at least the following program inputs:
 - vi. Analog audio (L/R)
 - vii. AES audio
 - viii. MPX input
 - ix. SCA (RDS) input
 - x. 19kHz sync output
- e. The transmitter must include configurable silence detectors on each input (threshold, delay...)
- f. The transmitter must switch automatically the program input based on silence detections and configurable priorities.
- g. In the case of loss of synchronization on digital input (AES), it must be possible to switch immediately to a back source.
- h. The transmitter must include a Web interface for remote control and monitoring of all parameters, including: Analog audio levels, AES audio level, MPX input level, configured frequency, configured power, configured audio/RDS/total deviation, forward power, reflected power, VSWR, total current deviation, warning state, fault state, 1dB alarm, 3dB alarm, VSWR alarm, interlock state, fan speed, pressure, temperature, internal voltages, currents, ..
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- j. The transmitter must include non-volatile memory and save

- a log of all events.
- k. The event log must be available on the web interface.
- l. The event log can be exported to CSV format.
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2. Built-in features

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- b. The transmitter as an option must include a DSP based stereo encoder. This option is not required now, but it must be possible to enable it in the future through a software upgrade or licence instalment with no change in hardware
- c. The transmitter must include an activated internal RDS encoder with static parameters (PI, PS, AF, MS, TA, TP, RT, CT...) and Dynamic PS Scrolling capability
- d. The transmitter must include an MPX Power Limiter.
- e. The transmitter must include a composite hard clipper.
- f. The transmitter must include a Digital MPX input (over AES)
- g. The transmitter must include embedded measurement visualizations including RF, MPX and Audio spectrums
- h. The transmitter must include graphical history readings of key parameters such as RF power, reflected power, temperatures, currents, voltages...
- i. The transmitter must include a configurable scheduler to

		set any transmitter parameter at specific date/time j. The transmitter must include as an option a multiband sound processor with selectable presets and audio adjustment. This option is not required now, but it must be possible to enable it in the future through a software upgrade with no change in hardware 3. Environmental, the following minimum parameters must be met a. Nominal operating temperature: 5°C to 45°C b. Maximum operating temperature: 0°C to 50°C c. Warehousing temperature: -20°C to +70°C d. Humidity: 5 - 95 % non-condensing relative humidity e. Warehousing time: 10 years f. Cooling: Internal air cooling 4. Power supply, the following minimum parameters must be met a. Voltage 184 VAC to 264 VAC b. Frequency 47 Hz - 63 Hz c. Transmitter max consumption i. 300W TX: 420W d. Power factor > 0.9 5. Physical a. Number of rack units i. 300W TX: 2u 6. Interface panel a. Indicators: Front panel leds must indicate: i. Life sign, ii. Warning, iii. Fault, iv. RF ON/OFF	1,00 kom
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- v. Local mode
- b. Front panel control Possibility to adjust and monitor the transmitter using the front panel.
- 7. RF section
 - a. Frequency range 87.5 to 108 MHz
 - b. Summary of different steps 10 kHz
 - c. Frequency stability < 10⁻⁶ per year
 - d. Power range (permanent operation) at least
 - i. 300W TX: 20-330W
 - e. Spurious and harmonic suppression > 75 dBc
 - f. VSWR < 1.35
- 8. Composite operation
 - a. Bandwidth
 - i. > 40 Hz to 53 kHz @ 0.1 dB
 - ii. > 20 Hz to 60 kHz @ 0.2 dB
 - iii. > 60 kHz to 80 kHz @ 0.4 dB
 - b. Intermodulation distortion < 0.05%
 - c. FM S/N ratio > 80 dB RMS @ 75 kHz deviation
 - d. AM noise < 0.1% (50 dB) RMS (20-20 000 Hz)
- 9. Stereo operation
 - a. Bandwidth > 20 Hz to 15 kHz @ 0.1 dB
 - b. 38 kHz discontinuance > 50 dB
 - c. Stereophonic crosstalk > 50 dB
 - d. Pre-emphasis 0 µs, 50 µs or 75 µs
- 10. Mono operation
 - a. Bandwidth > 40 Hz to 15 kHz @ 0.1 dB
 - b. Out of band rejection > 40 dB @ 19 kHz
 - c. Preemphasis 0 µs, 50 µs or 75 µs
- 11. AF inputs
 - a. Analog
 - i. Connector "XLR" type

	ii. Impedance High impedance, balanced iii. Level Software adjustable (-18/+18 dBu range) b. AES i. Connector "XLR" type ii. Impedance > 110 Ω balanced iii. Level Software adjustable (-20 to 0 dBFS range) iv. Sampling rate Auto adjusted up to 192 kHz v. Bit 16, 24, 32 c. Multiplex (MPX) i. Connector "BNC" type ii. Impedance > 5 kΩ unbalanced iii. Level Software adjustable (-18/+18 dBu range) 12. HF output/input a. FM transmitter output connector: i. 300W TX: N(f) b. Impedance: 50 Ω c. Monitoring (RF Monitor): BNC type output connector on front panel 13. Warranty a. Warranty period must be a minimum of 36 months b. Supplier must guarantee to support the units for ten years from the point of sale 14. Standards : the following standards must be met a. 1999/5/CE (R&TTE) b. ETS 302 018 (EMC) c. ETS 300 384 (Radio) d. NF EN 60215 (Safety)	
	1. Main features a. The transmitter must be designed for continuous operation	

24h/24h.

b. The overall efficiency must be $\geq 55\%$ for 100W

c. The transmitter must have a Digital Modulator witch must generate digital FM signal and goes through a final ADC to warranty an excellent signal quality.

d. The transmitter must include at least the following program inputs:

xi. Analog audio (L/R)

xii. AES audio

xiii. MPX input

xiv. SCA (RDS) input

xv. 19kHz sync output

e. The transmitter must include configurable silence detectors on each input (threshold, delay...)

f. The transmitter must switch automatically the program input based on silence detections and configurable priorities.

g. In the case of loss of synchronization on digital input (AES), it must be possible to switch immediately to a back source.

h. The transmitter must include a Web interface for remote control and monitoring of all parameters, including: Analog audio levels, AES audio level, MPX input level, configured frequency, configured power, configured audio/RDS/total deviation, forward power, reflected power, VSWR, total current deviation, warning state, fault state, 1dB alarm, 3dB alarm, VSWR alarm, interlock state, fan speed, pressure, temperature, internal voltages, currents, ..

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2. Built-in features

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- b. The transmitter must include a DSP based stereo encoder
- c. The transmitter must include an activated internal RDS encoder with static parameters (PI, PS, AF, MS, TA, TP, RT, CT...) and Dynamic PS Scrolling capability
- d. The transmitter must include an MPX Power Limiter.
- e. The transmitter must include a composite hard clipper.
- f. The transmitter must include a Digital MPX input (over AES)
- g. The transmitter must include embedded measurement visualizations including RF, MPX and Audio spectrums
- h. The transmitter must include graphical history readings of key parameters such as RF power, reflected power, temperatures, currents, voltages...
- i. The transmitter must include a configurable scheduler to set any transmitter parameter at specific date/time
- j. The transmitter must include as an option a multiband sound processor with selectable presets and audio

		adjustment. This option is not required now, but it must be possible to enable it in the future through a software upgrade with no change in hardware 3. Environmental, the following minimum parameters must be met a. Nominal operating temperature: 5°C to 45°C b. Maximum operating temperature: 0°C to 50°C c. Warehousing temperature: -20°C to +70°C d. Humidity: 5 - 95 % non-condensing relative humidity e. Warehousing time: 10 years f. Cooling: Internal air cooling 4. Power supply, the following minimum parameters must be met a. Voltage 184 VAC to 264 VAC b. Frequency 47 Hz - 63 Hz c. Transmitter max consumption i. 100W TX : 175W d. Power factor > 0.9 5. Physical a. Number of rack units i. 100W TX: 2u 6. Interface panel a. Indicators: Front panel leds must indicate: i. Life sign, ii. Warning, iii. Fault, iv. RF ON/OFF v. Local mode b. Front panel control Possibility to adjust and monitor the transmitter using the front panel. 7. RF section	
4	Delivery of 100W single drive FM transmitter		1,00 kom

- a. Frequency range 87.5 to 108 MHz
- b. Summary of different steps 10 kHz
- c. Frequency stability $< 10^{-6}$ per year
- d. Power range (permanent operation) at least
 - i. 100W TX: 5-100W
- e. Spurious and harmonic suppression > 75 dBc
- f. VSWR < 1.35
- 8. Composite operation
 - a. Bandwidth
 - i. > 40 Hz to 53 kHz @ 0.1 dB
 - ii. > 20 Hz to 60 kHz @ 0.2 dB
 - iii. > 60 kHz to 80 kHz @ 0.4 dB
 - b. Intermodulation distortion $< 0.05\%$
 - c. FM S/N ratio > 80 dB RMS @ 75 kHz deviation
 - d. AM noise $< 0.1\%$ (50 dB) RMS (20-20 000 Hz)
- 9. Stereo operation
 - a. Bandwidth > 20 Hz to 15 kHz @ 0.1 dB
 - b. 38 kHz discontinuance > 50 dB
 - c. Stereophonic crosstalk > 50 dB
 - d. Pre-emphasis 0 μ s, 50 μ s or 75 μ s
- 10. Mono operation
 - a. Bandwidth > 40 Hz to 15 kHz @ 0.1 dB
 - b. Out of band rejection > 40 dB @ 19 kHz
 - c. Preemphasis 0 μ s, 50 μ s or 75 μ s
- 11. AF inputs
 - a. Analog
 - i. Connector "XLR" type
 - ii. Impedance High impedance, balanced
 - iii. Level Software adjustable (-18/+18 dBu range)
 - b. AES
 - i. Connector "XLR" type

- ii. Impedance > 110 Ω balanced
- iii. Level Software adjustable (-20 to 0 dBFS range)
- iv. Sampling rate Auto adjusted up to 192 kHz
- v. Bit 16, 24, 32
- c. Multiplex (MPX)
 - i. Connector "BNC" type
 - ii. Impedance > 5 k Ω unbalanced
 - iii. Level Software adjustable (-18/+18 dBu range)

12. HF output/input

a. FM transmitter output connector:

- i. 100W Tx: N(f)
- b. Impedance: 50 Ω
- c. Monitoring (RF Monitor): BNC type output connector on front panel

13. Standards : the following standards must be met

- a. 1999/5/CE (R&TTE)
- b. ETS 302 018 (EMC)
- c. ETS 300 384 (Radio)
- d. NF EN 60215 (Safety)