

REPUBLIC OF RWANDA



RWANDA INFORMATION OFFICE (ORINFOR)
P.O BOX 83 KIGALI
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RE-ADVERTISEMENT OF NATIONAL TENDER NO: OROO2/2011-2012

TITLE: SUPPLY OF 1 BACKUP GENERATOR, THREE POWER REGULATION BOARDS OF THE FM TRANSMITTER FOR RADIO OB VAN, 800 SET TOP BOXES (STBs) AND THEIR ACCESSORIES TO ORINFOR.

SOURCE OF FUNDING: ORDINALY BUDGET

CLIENT: RWANDA INFORMATION OFFICE (ORINFOR)

The Rwanda information office "ORINFOR" here by invites national interested bidders to supply a backup generator, three power regulation boards of the FM transmitter for Radio OB VAN and 800 set top boxes STBs for TV system DVB-T with their antennas and accessories. This tender is divided into 3 lots which are to be bided separately from each other.

The tender document can be obtained on any working day from 14th/11/2011 in the ORINFOR's procurement office at KIMIHURURA opposite CADILLAC NIGHT CLUB former PSI premises, upon presentation of a prepaid bank slip of a non-refundable fee of Ten thousand Rwandan francs (10,000Rfw) on account 120.00.46 of "RRA" opened at the "National Bank of Rwanda".

Each lot shall be accompanied by a bid security of 300,000Rfw delivered by a well recognized Bank or Insurance company.

Well printed, properly bound bids presented in four copies one of which is original, must reach ORINFOR's procurement office at KIMIHURURA opposite CADILLAC NIGHT CLUB, not later than 6th Dec 2011 at 2: 00pm, bids will be opened in the presence of bidders who choose to attend at ORINFOR's conference room at the main offices/headquarters in town Kigali on the same day 13th Dec 2011 at 2:30pm.

Done in Kigali

Willy RUKUNDO
Ag. Director General

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N.B Any interested bidder may compete for one (1) lot and indicate this lot in the bid or, it can decide to bid for more than 1 lot and go ahead to specify these different lots separately in his/her offer **for example, you can draw separate tables showing quotations for different lots.**

TECHNICAL SPECIFICATIONS FOR DIFFERENT LOTS.

LOT1:

BACKUP GENERATOR, 3 POWER REGULATION BOARD OF THE FM TRANSMITTER FOR RADIO OB VAN,

Technical specifications of generator

- Nominal rating: 10kva
- Connection: 3-phase,4wire
- Frequency: 50hz
- Engine speed: 1500rpm
- Voltage: 400/230v
- Current: 14A
- Cos-phi: 0.8
- Noise level at 7m: 70dB
- Cooling Method: Fresh water forced circulation
- Coolant capacity: 1.8l
- Fuel consumption: 2.5l/h
- Exhaust gas flow: 170m³/h
- Exhaust gas temperature: 420⁰c

LOT2:
800 STBs AND THEIR ACCESSORIES.

STB Technical specifications

1. TV System: DVB-T

- Frequency Coverage : UHF: 470- 860MHZ
- Digital Tuner
- TV System (Digital) : DVB-T H.264/MPEG 4-AVC"
- Digital Terrestrial Receiver HD & SD (High definition and Standard)
- Compatible formats: 1080i, 720p, 576p and 576i
- HDMI and Digital Optical SPDIF output
- PVR (Personal Video Recorder) For viewing and recording into External devices (Hard Disks, USB Pen drive....)
- 2.0 USB Connection
- Playback MP3 music, JPEG pictures and Video
- Full HD and HD Ready TVs compatible
- Full MPEG-2, H264/MPG4 and AVC compliant
- High sensitivity tuner & demodulator
- Multi language OSD and subtitles
- Automatic and manual search for all channels
- Aspect ratio: 4:3, 16:9 and letterbox

Tuner (Terrestrial): DVB-T

2. STB with integrated DVB-T tuner as follows:

- Integrated tuner with RF Input Range
- UHF-Band 470MHz ~ 860 MHz
- Input signal level: -75 to -20dBm
- Input impedance: 75Ω Demodulation

- IF bandwidth 8MHZ for UHF
- Video demodulation: COFDM
- Transmission mode: 2k and 8k
- Constellation: QPSK, 16-QAM, 64-QAM
- Code rate: 1/2, 2/3, 3/4, 5/6, 7/8

3. Provide the following accessories:

Antenna and accessories:

- Antenna frequency range: UHF 470 – 860 MHz (Band 8MHZ)
- Antenna gain 15 dB
- 25 meters coaxial cable 75 Ω
- IEC connectors
- AC Power Cord
- Remote Control
- Batteries
- SCART cable
- HDMI cable
- RF cable

4. Provide a customizable STB for CAS & SMS for future use in channels subscription

LOT 3:

The technical specifications for the three FM transmitters for the Radio outside broadcasting purpose
Audio.

Audio Input Levels	-10dB to +18dB for limiting
Audio Input Connectors	XLR Balanced (RF shielded)
Input CMRR	> 60dB
Audio Distortion	< 0.1% at limiting 1 kHz (clarity mode)
Frequency Response	20Hz to 20kHz +/- 0.5dB (0 is Pre-emphasis)
Limiter Control Range	>22dB (0 is Pre-emphasis)
Input Impedance	10k Ohm
Pre-Emphasis	0,50 and 75 is (jumper selectable)
Audio Process Modes	Clarity and Loud (jumper selectable)
Clipping	On or Off (jumper selectable)

STEREO ENCODER

Subcarrier Generation	Microprocessor Generated (oversampled)
Pilot	19kHz +/- 1 Hz (adjustable)
Pilot Generation	Microprocessor Generated (oversampled)
MPX Output	BNC
Output Level	0dB
15 kHz Filtering	>40dB at 19kHz
15kHz OS Filter	Clipping On or Off
Spurious Signals	>80 kHz >60dB, >160 kHz >80dB
Stereo Separation	>60dB (20Hz-15kHz)

RF

Output Power	250 or 300W continuous
Frequency Range	87.5 - 108 MHz (steps 100kHz from front panel)
Frequency Selection	Front Panel control menu or RS232 control menu
Frequency Stability	+/- 200 Hz (fine adjustment available)
Frequency Control Type	Dual Speed Phase Locked Loop (PLL)
Connector	7/16 - 50 Ohm
Harmonics	>88dBc
Spurious	>90dBc
VSWR Fold Back	above 2.1
MPX Input	BNC Connector
MPX Input Response	+/- 0.3dB 5 Hz to 100 kHz
MPX Input Level	-10dB to +10dB (adjustable)
Modulation	Direct Frequency Modulation
Synchronous AM Noise	0.31% (at normal deviation)

Asynchronous AM Noise 0.18% (at centre frequency of 92.8MHz)

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Participation is open on equal conditions to all companies in the field and the qualifying bidders must present the following documents and requirements;

- a) Certified copy of trading license.
- b) Original or certified copy of certificate delivered by social security funds.
- c) A valid original or a certified copy of tax clearance certificate from RRA
- d) Copy of the prepaid BNR bank slip for proof of payment for the tender document.
- e) Proof of work carried out or supplies well completed with other relevant organizations.
- f) A bid security of the amount totaling Three Hundred Thousand Rwandan Francs Only (300,000) issued by a recognized bank or an insurance company.
- g) Financial statement from 2009-2010.

Well sealed signed and stamped bids bearing the name and address of the bidder's company and the reference tender notice number, addressed to the Ag. Director General of ORINFOR and clearly marked:

TO THE AG. DIRECTOR GENERAL OF ORINFOR

TITLE: SUPPLY OF A BACKUP GENERATOR, THREE POWER REGULATION BOARD OF THE FM TRANSMITTER FOR RADIO OB VAN, 800 SET TOP BOXES (STBs) AND THEIR ACCESSORIES TO ORINFOR.

Tender number: OR002//2011-2012

To be only opened in public session.

Bidding will be conducted in accordance with the law No 12/2007 of 27/03/2007 on public procurement

Done at Kigali, 9th Nov, 2011

Willy RUKUNDO
Ag. Director General