



DOCUMENT TITLE	Invitation to Tender MAG/2009/02/Communications Equipment and Airtime	DOCUMENT REFERENCE	CSS/ITT/002
AUTHOR	Peter Wright	DATE	11/06/2009
ISSUE	1	DOCUMENT TYPE	Invitation to Tender

Quotation requirement

Provision of MAG's requirement for HF, VHF, Satellite communications equipment and Air time and MAG requirement for hand held GPS systems

Procurement Volume through HQ 2007 and 2008

Indicative estimates of procurement volume of items to be tendered for the past two years: 2007 and 2008

	2007	2008
	Quantity	Quantity
Codan NGT VR	16	52
T+T Explorer BGAN 500	4	23
Thuraya 2510	7	14
Motorola GP340	36	85
Motorola GM340		18
Motorola GM360	8	14
Garmin GPS		113

MAG offers no guarantees that the level of purchase for the period cover by this invention to tender will meet or exceed the indicative figures supplied above.



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Technical specifications:

Provide as an example, based on past MAG purchases, alternative makes and models the meet these specifications as a minimum will be actively considered.

Item 1

HF Vehicle Radio

e.g. Codan NGT VR Mobile

- 20 channels, 1.6-30MHz
- 125 watts (PEP), 12V.DC, USB/LSB/AM
- In-built Easitalk speech processing
- Emergency call
- Selective call
- Codan Automated Link Management (CALM) compatible with FED-STD-1045 ALE systems (optional)
- Voice Encryption Facility (Optional)
- Scanning
- Handset programming
- Remote diagnostics with remote configuration and remote disable (Optional)
- Morse call capability
- Meets MIL-STD 810E for shock and vibration

Item 2

HF base Radio

Eq. Codan NGT VR Base

- NGT VR 2010 RF Unit, NGT VR 2020 Handset, NGT VR 2030 Junction Box, external speaker. (optional desk console available)
- 3020 Transceiver Supply 100-240V AC
- Optional battery float charging kit (Code 702) available
- C411 Terminated folded dipole antenna 150W PEP complete with installation hardware and 30m coaxial cable



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Item 3

Portable broadband

Eq. Thrane and Thrane Explorer 500

- 220 x 200mm <1.5kgs
- Standard IP: up to 464/448kbps (send /receive)
- Streaming IP: 32, 64, 128kbps (send/receive)
- ISDN via USB
- Voice capabilities
- Ingress protection IP54

Item 4

Satellite Phone

Eq. Thuraya SO2510

Item 5

VHF Vehicle radio

Eq. Motorola GM360

GM360 Mobile, Select 5, VHF (136-174MHz), 1-25W, 255 Channels

- Fist Microphone
- Mounting bracket
- Mobile whip antenna
- Power & antenna cables
- Connector
- Manual

Item 6

VHF Base radio

Eq. Motorola GM360

- Up to 255 Channels
- 1 Line 14 character Display Menu navigation keypad
- 4 programmable buttons
- 3 Status LEDS
- Internal Loudspeaker
- Select 5 (5 Tone) Signalling
- Channel Scan



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- Programmable Channel Spacing (12.5 / 20 / 25 kHz)
- Lone Worker
- Voice Operated Transmit (VOX)
- Emergency Signalling
- Adjustable Power Levels (1-25W)
- Call Forward
- Option Board Expandability
- Car Radio Mute
- Talkaround Memory Channel DTMF capability (with enhanced keypad microphone option) Status and Contact Lists
- Public Address Mode
- Voice Compression/Low Level Expansion
- External Alarm

Item 7

VHF Handheld radio

- Voice Operated Transmit (VOX)
- Adjustable Power Levels
- Emergency Signaling
- Programmable Channel Spacing (12.5/20/25 KHz)
- Option Board Expandability
You can expand the existing capabilities by adding one of the following option boards:
 - Encryption for message security
 - SmarTrunk II for low cost trunking
 - Voice Storage option board provides dictaphone features allowing you to store and retrieve voice messages.
- Talkaround
Freedom to communicate utilising a system or dispatcher for wide area coverage, or bypass and talk directly to another unit for easy local unit-to-unit communications.
- Call Forward



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Item 8

Garmin 60 CSX

- High-sensitivity GPS receiver gives you improved satellite reception even in heavy tree cover or deep canyons
- Barometric altimeter provides extremely accurate elevation data
- Electronic compass can determine your heading and direction, even when you're standing still
- IPX7 waterproof case can withstand an accidental dunk in the water and still perform
- Large, colour TFT display makes viewing the screen easy, day or night
- Built-in autoroute basemap, including major roads, exits and tide data, gives you automatic, turn-by-turn directions