



The Malaysian Communications and Multimedia Commission (MCMC) invites bidders for the following quotation:

<b>REQUEST FOR QUOTATION</b>	<b>VHF RAPID DEPLOYMENT COMMUNICATION SYSTEM</b>
<b>RFQ NUMBER</b>	<b>SKMM(T)02-PMAD/110/10-14/RFQ-201400113</b>
<b>SUBMISSION DATE</b>	<b>27 OCTOBER 2014 (MONDAY) Before 12.00noon</b>

Your submission shall be deposited in the Quotation Box which is provided at the Ground Floor of the office of the MCMC and addressed to:

Malaysian Communications and Multimedia Commission  
Off Persiaran Multimedia  
63000 Cyberjaya  
Selangor Darul Ehsan  
Attn: Chairman of the Quotation Committee

Kindly submit your quotation in a sealed envelope and mark our reference number on top of the envelope. Any queries please contact Mr. Moris Miting @ Maiting at 019-600 2315

Please be informed that your quotation should be valid for minimum period 3 months.

[www.mcmc.gov.my](http://www.mcmc.gov.my)



**TO REQUEST FOR QUOTATION**  
**TO**  
**SUPPLY, INSTALL AND TESTING**  
**RAPID DEPLOYMENT UNIT (RDU) VHF EMERGENCY RADIO COMMUNICATION**

**BRIEF EXPLANATION**

1. The Rapid Deployment Unit (RDU) VHF Emergency Radio Communication must be ideal for quick response and deployment during disaster.
2. The frequencies to be used for this system are:

No.	Transmit (MHz)	Receive (MHz)
1.	150.500	140.500
2.	150.850	140.850

3. The system will be deployed throughout the country for use during disaster, search and rescue operation and major events.
4. The system can be transported to targeted location using any means of transportation available (vehicle, boat, helicopter etc).
5. The system will be capable of:
  - a. Two way voice communication (point to point and point to multipoint);
  - b. Text messaging via digital handheld device;
  - c. Operations using multiple power sources i.e. existing power grid and generator.
  - d. To interconnect with other system such as HF, 3G/4G and Satellite Phone for future expansion.
  - e. IP enable.
6. The system should be user friendly. The communication system devices are able to easily launch and quickly setup.
7. The system must be scalable and interoperable for future expansion.
8. The successful bidder is preferably to deliver the system not later than one month from the date of award.
9. The bidder prior the installation of the full system must provide appropriate testing, commissioning and warranty for at least one year.

10. In your quotation, please state:

- a. Detailed description of your system to include features, advantages and disadvantages.
- b. Timeline for the complete system to be delivered and commissioned.

## **DETAILS EQUIPMENT SPECIFICATIONS**

### **1. VHF PORTABLE REPEATER**

The Portable VHF Repeater System ("Repeater System") is to be deployed and used by MCMC on the field during emergency and disaster with a view of covering at least 40km radius LoS. The Repeater shall be operating at the designated VHF frequency (Rx) with offset at **+10MHz**. The Repeater System shall be housed in a transportable weatherproof and shockproof case that can be transported by any 4x4 or SUV vehicle to the field.

Specification:

i.	Band	:	VHF FM
ii.	Frequency range	:	136 - 174 MHz
iii.	Min number of channels	:	30
iv.	Max weight (net)	:	10 Kg
v.	Standards	:	SIRIM TYPE APPROVED
vi.	Controller unit	:	to be included by supplier
vii.	Duplexer	:	to be included by supplier
viii.	Connectors and other necessary accessories	:	to be included by supplier

### **2. VHF PORTABLE REPEATER ACCESSORIES**

#### **a. PORTABLE CASING**

The Repeater System, the controller and duplexer shall be installed in a portable carrying case that is weatherproof, shockproof and waterproof.

#### **b. POWER SUPPLY**

Specification

i.	Output Voltage	:	13.8 V
ii.	Input Voltage	:	220 VAC
iii.	Output Current	:	15 A
iv.	Protection	:	Overload, Short Circuit

**c. ANTENNA**

## Specification

i.	Band	:	VHF FM
ii.	Frequency range	:	136 - 174 MHz
iii.	Max weight	:	1.3kg
iv.	Connector (to be included)	:	MJ
v.	Boom, brackets & clamps	:	(to be included by supplier)

**d. CABLES**

## Specification

i.	Length	:	2 x 50 meters
ii.	Type	:	RG 213
iii.	Connectors	:	(to be included by supplier)

**e. 18FT TELESCOPIC PORTABLE MAST/POLE**

The minimum 18ft telescopic portable mast shall be able to mount at least 3Kg of antenna weight to be mounted at the top. The telescopic mast shall be portable and light enough to be carried by a 4x4 or SUV.

**f. PORTABLE POWER GENERATOR**

## Specification

i.	Type	:	Brushless inverter
ii.	Maximum AC Output	:	2000 W
iii.	Rated AC Output	:	1600 W
iv.	Max dry weight	:	20 Kg
v.	Continuous Operation at 1/4 Rated Load	:	10.5 Hrs
vi.	Noise Level	:	51.5 - 61 dBA
vii.	Power extension cables	:	1 x 50 meters in roller drum with plug connectors

### 3. VHF HANDHELD TRANCEIVER

Total unit to be provided is 10.

Specification:

i.	Band	:	VHF FM
ii.	Frequency range	:	136 - 174 MHz
iii.	Min number of channels	:	512
iv.	Max weight (radio only)	:	300 g
v.	Standards	:	SIRIM TYPE APPROVED MIL-STD-810 C/D/E/F/G IP54/55 Dust & water protection
vi.	Standard battery, desktop / rapid charger, antenna	:	to be included by supplier
vii.	Additional 1 battery unit & carrying case / belt clip	:	to be included by supplier

### 4. VHF HANDHELD TRANCEIVER ACCESSORIES

#### a. PORTABLE CASING

All 10 units of the Handhelds shall be carried in a portable carrying case that is weatherproof, shockproof and waterproof.

# SYSTEM CONFIGURATION EXAMPLE

