

**GOVERNMENT OF INDIA**  
**(Ministry of Home Affairs)**  
**Communication & IT Directorate**  
**CENTRAL RESERVE POLICE FORCE**  
**EAST BLOCK-7, SEC-1, R.K. PURAM, NEW DELHI-110066**  
**(Tele/Fax No-011-26109038, Email-Id: comncell@crpf.gov.in)**

No. B.V-7-C/2025-26-C(DMR/H)-QRC

Dated, the *m* June'2025

**Subject: - REQUEST FOR COMMENTS OF STAKEHOLDERS /OEM/FIRMS ON DRAFT QRS & TDS OF "DIGITAL MONITORING RECEIVER (HAND HELD)" REGARDING.**

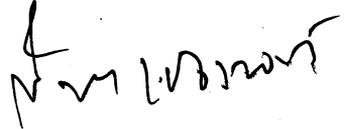
The Draft QRs/TDs of "**Digital Monitoring Receiver (Hand Held)**" are attached as **Appendix 'A'**. The OEMs/Vendors are requested to forward information of the product, which they can offer and also forward correct specifications of their product against each parameter. Only complied or not complied remarks will not be accepted. The firms are also requested to furnish the following details: -

- Whether you are OEM/Vendor?
- If vendor details of OEM.
- Authorization certificate from OEM.

2. The required information/details may please be forwarded at the following addresses by **09 July'2025**.

Communication Directorate, CRPF  
East Block-7, Sec-1, R.K. Puram, New Delhi-110066  
Email: comncell@crpf.gov.in

3. An early response is requested.

  
(Megh Raj)  
**DIG (Equipment)**  
**Communication & IT Branch**  
**Directorate General, CRPF**

**Draft QRs/ TDs Monitoring Receiver (Hand Held)**

<b>S/N.</b>	<b>Parameter</b>	<b>Specifications</b>	<b>Trial Directives</b>
<b>1. General</b>			
a.	Role	Hand Held	BOO will check physically and practically.
b.	Operational Mode	Memory scan, Programme scan	BOO will check practically.
c.	Frequency Range	10 KHz to 3.5 GHz	BOO will check practically.
d.	No of memory channel	Minimum 2000 memory channel	BOO will check practically.
e.	Memory bank	40 or More	BOO will check practically.
f.	Search bank	40 or More	BOO will check practically.
g.	Tuning steps/Frequency resolution.	Minimum step size 10 Hz.	BOO will check practically.
h.	Receive Mode	Intercept both digital and analog modes:- a)Digital Mode- DMR(4FSK),DPMR,NXDN,P25 (APCO25),TETRA,D-STAR, ALNICO EJ-47U, YAESU, DIGITAL-CR etc. b)Analog Mode- AM,USB,LSB,CW,NFM etc.	BOO will check practically with available radio sets and firm will also submit OEM certificate.
i.	Antenna Impedance	50 Ohm	Firm will submit OEM certificate.
j.	Selectivity	Better than 60 dB for full range	Firm will submit OEM certificate.
k.	Sensitivity	10 KHz-17.99999 MHz: 0.75µV(12dB SINAD), 18 MHz-3.5 GHz: 0.35 µV(12 dB SINAD), 10 dB S/N @3 kHz bandwidth for full range	Firm will submit OEM certificate.
l.	VFO (Variable Freq. Oscillator)	Minimum 3 Nos. for full range	Firm will submit OEM certificate.
m.	Frequency stability	< ±5 PPM or better	Firm will submit OEM certificate.
n.	AF Power Output	400 mw or better	Firm will submit OEM certificate.
o.	Weight & Dimensions	Less than 600 gms and 80 mm(W) x150mm(H) x50mm(D) ±10%	Firm will submit OEM certificate.
<b>2.Power Supply: Should operate with AC and DC Power Supply</b>			
a.	Battery Rating	Maximum 7.5 V, 2000mAh (Min)	BOO will check practically.
b.	Charger	Charging of rechargeable batteries	BOO will check practically.
c.	Battery working hours	Not less than 8 Hours	BOO will check practically.

d.	Current consumption	500mA (Max)	BOO will check practically.
<b>3.Environmental Parameters</b>			
a.	Operating Temperature	-10° to +55°C	Firm will submit certificate of any Govt Lab or NABL or ILAC accredited lab.
b.	Water protection	IPX5 or superior	Firm will submit certificate of any Govt Lab or NABL or ILAC accredited laboratory.
<b>4.</b>	<b>Antenna</b>	Suitable antenna for all receiving mode	BOO will check practically.
<b>5.</b>	Connector Jack for External speaker/Head phone	Earphone jack for head phone	BOO will check practically.
<b>6. Receiver Features.</b>			
a.	Display	Alphanumeric LCD/LED display should be available.	BOO will check practically.
b.	Keypad back-lit	Should be available	BOO will check practically.
c.	Priority scanning	Should be available (pause for 10 sec as any signal intercepted)	BOO will check practically.
d.	Auto store of frequency of signal received	Should be available	BOO will check practically.
e.	AFC(Automatic Freq. Control)	AFC function for spot on tuning should be available.	BOO will check practically.
f.	Squelch	NSQ, LSQ Should be available.	BOO will check practically.
g.	Squelch & Volume control knob	Should be available	BOO will check practically.
h.	Pass frequency mode	Should be available	BOO will check practically.
i.	Multiple IF bandwidth	3/6/16/100/200 KHz Should be available	BOO will check practically.
j.	Audio recording (Built-in)	>50 Hrs. Should be available	BOO will check practically.
k.	Built in playback facility	Should be available.	BOO will check practically.
l.	Data clone Lead To interface with computer.	Should be available	BOO will check practically.
m.	Data backup & Restore data facility via SD/SDHC card.(memory channel/search bank/configuration) facility	Should be available.	BOO will check practically.
n.	Real time clock	Should be available.	BOO will check practically.
o.	Auto sleep. Alarm, Record Timer.	Should be available.	BOO will check practically.

p.	Optional system	Life time online firmware update support for newly added features.	Firm will submit OEM certificate.
		Receiver should have facility to operate by window based PC.	BOO will check practically.
		Audio Analyzer Software.	BOO will check practically.
q.	Dual Band operation	Should be available.	BOO will check practically.
<b>7. Receiver Accessories</b>			
a.	Carrying Case	Should be available.	
b.	Belt Clip	Swivel belt clip or alligator type	
<b>8. Literature</b>			
a.	User Hand Book	As per requirement	BOO will check practically.
b.	Technical Manual for receiver (optional)	Should give out full technical descriptions of equipment and circuit layout etc.	BOO will check practically.