

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-011-26107493, Email-Id: comncell@crpf.gov.in)

No. B.V-7-C/2025-26-C(DMR/S)-Q

Dated, the **3** June'2025

Subject: - REQUEST FOR COMMENTS OF STAKEHOLDERS /OEM/FIRMS
ON DRAFT QRS & TDS OF "Digital Monitoring Receiver
(Static/Mobile/Manpack version)"

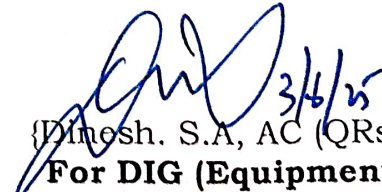
1. The Draft QRs/TDs of **"Digital Monitoring Receiver (Static/Mobile/Manpack version)"** is attached as **Appendix 'A'**. The OEMs/Vendors are requested to forward information of the product, which they can offer and also forward correct specifications of their system against each parameter. Only complied 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 **18** June'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.


{Dinesh. S.A, AC (QRs)}
For DIG (Equipment)
Communication & IT Branch
Directorate General, C R P F

Draft QRs/ TDs of Monitoring Receiver (Static/Mobile/Manpack version)

S/No.	Parameter	Specifications	Trial Directives
1. General			
a.	Role	Static/Mobile/Manpack version.	BOO will check physically and practically.
b	Frequency Range	10 KHz to 3.5 GHz	BOO will check practically.
c	No of memory channel	Minimum 2000 memory channel	BOO will check practically.
d.	Memory bank	40 or More	BOO will check practically.
e.	Search bank	40 or More	BOO will check practically.
f.	Tuning steps/Frequency resolution.	Minimum step size 10 Hz.	BOO will check practically.
g.	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.	BOO will check practically with available radio sets and firm will also submit OEM certificate.
		b)Analog Mode- AM,USB,LSB,CW,NFM etc.	
h.	Antenna Impedance	50 Ohm	Firm will submit OEM certificate.
i.	Selectivity	Better than 60 dB for full range	Firm will submit OEM certificate.
j.	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.
k.	VFO (Variable Freq. Oscillator)	Minimum 3 Nos. for full range	Firm will submit OEM certificate.
l.	Frequency stability	<±2.5 ppm	Firm will submit OEM certificate.
m.	AF Power Output	1W (Approx.)	Firm will submit OEM certificate.
n.	Weight & Dimensions	Less than 2kg and Dimension 200 mm(W)x 65mm(H)x250(D) ±10%	Firm will submit OEM certificate.
2.Power Supply: Should operate with AC and DC Power Supply			
a.	AC power	230V±10%	BOO will check practically.
b.	DC Power	12V DC±10%	
3.Environmental Parameters			
a.	Operating Temperature	-10° to +55°C	Firm will submit certificate of any Govt Lab or NABL or ILAC accredited lab.

4. Antenna with accessories. Provide suitable antenna for interception (As per requirement)

a.	Manpack Role	i) VHF Tape Antenna. ii) UHF Tape Antenna. iii) Flexible Whip VHF & UHF Antenna. iv) Battery capacity -7Ah & 12V v) DC cable, Carry bag, Battery Charger, Head Gear (Single side).	BOO will check practically.
b.	Mobile Role	i) 0/3 dB VHF antenna with 3 mtrs. Cable bracket mount. ii) 0/3 dB UHF antenna with 3 mtrs. Cable bracket mount. iii) Flexible Whip VHF & UHF Ant. (iv) DC Power cable.	BOO will check practically.
c.	Static Role	i) 0/3/6 dB VHF GP Antenna. ii) 0/3/6 dB UHF GP Antenna. iii) HF Broad band Dipole Ant. with 30mtrs. RG213 Cable. iv) Discone Wide band Antenna. v) HF, VHF &UHF Antenna. vi) 1/2 inch Low Loss RF Cable 30mtrs (Loss-0.03dB/ mtrs) (vii) DC Cable, Power supply unit.	BOO will check practically.
d.	Telescopic Mast (Optional as per user requirement)	20 feet Telescopic mast with supporting rope (3 sections), base plate, and fixing piccle should be available.	BOO will check practically.
e.	Connector jack for external speaker/headphone	Should be available.	BOO will check practically.
f.	External speaker (Optional as per user requirement)	Should be available.	BOO will check practically.
g.	Technical/ operation Manual	Should be provided by firm.	BOO will check practically.

5. Receiver Features.

a.	Display	Alphanumeric LCD/LED display should be available.	BOO will check practically.
b.	Priority scanning	Should be available (pause for 10 sec as any signal intercepted)	BOO will check practically.
c.	Auto store of frequency of signal received	Should be available	BOO will check practically.
d.	AFC(Automatic Freq. Control)	AFC function for spot on tuning should be available.	BOO will check practically.
e.	Squelch	NSQ, LSQ Should be available.	BOO will check practically.

f.	Squelch & Volume control knob	Should be available	BOO will check practically.
g.	Pass frequency mode	Should be available	BOO will check practically.
h.	Multiple IF bandwidth	3/6/16/100/200 KHz Should be available	BOO will check practically.
i.	Audio recording (Built-in)	>200 Hrs. Should be available	BOO will check practically.
j.	Built in playback facility	Should be available.	BOO will check practically.
k.	Data clone Lead To interface with computer.	Should be available	BOO will check practically.
l.	Data backup & Restore data facility via SD/SDHC card.(memory channel/search bank/configuration) facility	Should be available.	BOO will check practically.
m.	Real time clock	Should be available.	BOO will check practically.
n.	Auto sleep. Alarm, Record Timer.	Should be available.	BOO will check practically.

6.Optional system

a.	Life time online firmware update support for newly added features.	Should be available.	Firm will submit OEM certificate.
	Receiver should have facility to operate by window based PC.	Should be available.	BOO will check practically.
	Audio Analyzer Software.	Should be available.	BOO will check practically.