

REQUEST FOR COMMENTS OF STAKEHOLDERS/OEM/FIRMS ON
QRS (QUALITY REQUIREMENT) & TDS (TRIAL DIRECTIVES) OF
HALF LOOP ANTENNA

1. SSB has proposed formulation of QRs/TDs of HALF LOOP ANTENNA in Mod Plan-III. The parameters/specifications of the item are mentioned in QRs/TDs is attached as **Appendix 'A & B'**. 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. Complied or not complied remarks will not be accepted.

2. The required information/details may please be forwarded at the following addresses by **17th August 2018**.

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

3. An early response is requested.

Trial directive for Half Loop Antenna (NVIS)

S. No.	Parameter	Specification	Trial Directives
1. General Parameters			
i.	Frequency range	2.0 MHz to 29.9999 MHz	BOO will check practically.
ii.	Power Rating	Max 100 Watts PEP or better	BOO will check practically.
iii.	Role	Static and Mobile	
iv.	Input Impedance	50 Ohms	
v.	VSWR	Better than 2.5 : 1 at the resonance peak	
vi.	Pattern Radiation	Omni directional, HRP Offsets less than 1 dB at two opposite minima, Vertical Elevation Radiation towards Zenith @ 90° (NVIS)	Firm will submit OEM certificate
vii.	Power Supply Voltage	12 VDC Nominal (10.8 V to 32 V DC)	BOO will check practically
viii.	ATU Tuning Method	Continuous Variable Tuning	BOO will check practically in the entire freq range
ix.	Tuning Time	< 3 seconds average, 8 seconds max.	BOO will check practically
x.	Compatible	The loop antenna should be compatible with existing HF Radios of 100 Watts HF trans receiver.	BOO will check physically and practically
xi.	Programming port	RS-232 / USB	BOO will check physical and practically.
xii.	Shape and Dimensions of antenna	Radiating element i) Semi Circular : Max Length : 2.4 Meters Max Height : 1.0 Meters ii) Rectangular : Max (750mm x 1250mm x 1850mm) (H x B x L)	BOO will check practically.
xiii.	Weight (without mounting brackets)	Less than 15 Kg.	BOO will check practically.
2. Environmental Parameters			
i.	Operating Temperature	-30°C to + 55°C	Firm will produce certificate of Govt. Lab or NABL accredited or ILAC accredited laboratory.
ii.	Storage Temperature	-30°C to + 60°C	
iii.	Humidity	95% max at +20 °C non – condensing	
iv.	Dust	MIL STD 810 C/D/E	
v.	Vibration	MIL STD 810 C/D/E	
vi.	Water Intrusion	MIL STD 810 C/D/E	
vii.	Shock	MIL STD 810 C/D/E	
viii.	Attitude	MIL STD 810 C/D/E	