

## TDs OF DIGITAL HAND HELD WIDE BAND RECEIVER

S. N	Parameters	Specifications	Trial Directive
1.	Role	Hand Held	Board will check practically.
a)	Operational Mode	Memory scan, Programme scan	Board will check practically.
b)	Frequency range	100 KHz to 1300MHz or better	Board will check practically.
c)	No. of memory channel	Minimum 2000 memory channel	Board will check practically.
d)	Memory bank	40 or more	Board will check practically.
e)	Search bank	40 or more	Board will check practically.
f)	Tuning steps/ frequency resolution	Minimum step size 10 Hz	Board will check practically.
g)	Receive mode	Intercept both digital and analog modes: a) Digital mode – DMR(4FSK), DPMR, NXDN, P25 (APCO25), TETRA, D-STAR, ALINCO EJ-47U, YAESU, DIGITAL-CR etc b) Analog mode – AM, USB, LSB, CW, NFM etc	Board will check practically with available radio set and firm will also submit OEM certificate.
h)	Antenna Impedance	50 $\Omega$	Firm will submit OEM certificate.
i)	Selectivity	CW 0.2 / 0.5 KHz (-3dB)	BOO will check practically.
		SSB 1.8 / 2.6 KHz (-3dB)	
		AM 3.8 / 5.5 / 8 / 15 KHz (-3dB)	
		FM 6 / 15 / 30 KHz (-3dB)	
		WFM 100 KHz (-3dB)	
j)	Sensitivity	530 KHz – 17.99999 MHz: 0.75 $\mu$ v (12 dB SINAD, 18 MHz-1300 MHz: 0.35 $\mu$ v (12 dB SINAD)	BOO will check practically.

*(BSF)*

*Sham (NSG)*

*(LOR)*

*(SIS)*

*(DEPW)*

*(VST)*

S. N	Parameters	Specifications	Trial Directive
k)	VFO	Minimum 3 Nos (0.5-1300 MHz)	BOO will check practically.
l)	Frequency stability	$\leq \pm 5$ PPM or better	
m)	AF Power output	400mw or better	
n)	Weight & dimensions	Less than 600 gms and 80 mm (W) x 150 mm (H) x 50 mm (D)	
<b>2. Power Supply</b>			
a)	Battery rating	Maximum 7.5V, 2000 mAh(min)	BOO will check practically.
b)	Charger	Charging of rechargeable batteries	
c)	Battery working hours	Not less than 8 hours	
d)	Current consumption	500 mA (Max)	
<b>3. Environmental Parameters</b>			
a)	Operating temperature	-10° C to + 50° C	Firm will submit certificate of any Govt. Lab or NABL OR ILAC accredited laboratory.
b)	Water protection	IPX5 or superior	Firm will submit certificate of any Govt. Lab or NABL OR ILAC accredited laboratory.
4.	Antenna	Suitable antenna for all receiving mode	BOO will check practically.
5.	Connector Jack for External speaker/Head phone	Earphone jack for headphone	BOO will check practically.
<b>6. Receiver Feature</b>			
	Display	Alphanumeric LCD/LED display	BOO will check practically.
a)	Keypad back-lit	Should be available	BOO will check practically.
b)	Priority scanning	Should be available	BOO will check practically.
c)	Auto store of frequencies	Should be available, (2000 channel or more)	BOO will check practically.
d)	AFC(Automatic frequency control)	Frequency control function for spot on tuning	BOO will check practically.
e)	Squelch	NSQ, LSQ	BOO will check practically.

*Amal*  
(BSP)

*Shaf*  
(NSG)

*(LOR)*

*Sub*

*12/11*  
(DCP)

*M/S*