



## ANNEX 1: Mandatory Requirements for Calibrated Loop Antenna Kit

Item #	Category	Required Specifications	Evaluation Method	Cross Reference to Bid	Req. Met Yes/No
<b>Antenna Kit:</b>					
1	Calibrated Loop Antenna Kit	A complete pre-kitted package of all hardware including all parts such as the loop antenna, loop antenna mounts/holders/mechanical hardware, baluns, interconnecting cables, calibration charts (i.e. K-factor calibration tables/graphs by frequency) and a compact/rugged carrying case in a complete manufactured state in accordance with the Statement of Requirements.	Published vendor information review or signed OEM compliance attestation		
<b>Antennas</b>					
2	Antenna Calibration	The antenna must be individually calibrated in accordance with ANSI C63.5 or IEEE Standard 291.	Published vendor information review or signed OEM compliance attestation		
3	Antenna Documentation	The antenna must come with a chart showing the magnetic correction factors for the operating frequency range.	Published vendor information review or signed OEM compliance attestation		
4	Minimum Frequency	The minimum operating frequency of the antenna must be less than or equal to 9 kHz.	Published vendor information review or signed OEM compliance attestation		
5	Maximum Frequency	The maximum operating frequency of the antenna must be greater than or equal to 30 MHz.	Published vendor information review or signed OEM compliance attestation		
6	Antenna Power Handling	The antenna must be capable of handling input power greater than or equal to 20 watts.	Published vendor information review or signed OEM compliance attestation		
7	Antenna RF Connector Type	The RF connector must be type BNC, female.	Published vendor information review or signed OEM compliance attestation		
8	Nominal Antenna Impedance	The nominal antenna impedance must be 50 ohms.	Published vendor information review or signed OEM compliance attestation		
9	Passive Antenna	The loop antenna must be passive.	Published vendor information review or signed OEM compliance attestation		
10	Antenna Shielding	The antenna must include electrostatic (Faraday) shielding.	Published vendor information review or signed OEM compliance attestation		
11	Antenna Mounting Base	The mounting base of the antenna must accept a tripod mount with standard 1/4" x 20 thread.	Published vendor information review		

			or signed OEM compliance attestation		
12	Minimum Antenna Dimension	The minimum antenna loop diameter must be greater than or equal to 56 cm.	Published vendor information review or signed OEM compliance attestation		
13	Maximum Antenna Dimension	The maximum antenna loop diameter must be less than or equal to 61 cm.	Published vendor information review or signed OEM compliance attestation		
14	Antenna Weight	The maximum individual antenna weight must not exceed 1.8 Kg.	Published vendor information review or signed OEM compliance attestation		
<b>Antenna Carrying Case</b>					
15	Storage Case	The contractor must provide a hard transit case with form-fitting padding for the safe storage of the antenna.	Published vendor information review or signed OEM compliance attestation		