

Bill Of Material for Drone Neutralization :-

Component	Quantity	For RF Jamming	For GNSS Spoofing	For HPM Lite	Estimated Price
SDR Transceiver	1	HackRF One	Pluto SDR	Not Required	₹20,000– ₹30,000
Power Amplifier (TX Path)	2	Mini-Circuits ZHL-42W+	Mini-Circuits ZHL-42W+	Mini-Circuits ZHL-100W+	₹10,719– ₹15,000
Low Noise Amplifier (RX)	1	Mini-Circuits ZX60-83LN+	Not Required	Not Required	₹2,000
GNSS Simulator Software	1	Not Required	GPS-SDR-SIM (Open Source)	Not Required	Free
Antenna (Directional/High-Gain)	2	Yagi Antenna	Patch Antenna	Parabolic Antenna	₹2,000– ₹5,000
Bandpass Filter	2	Mini-Circuits Filter	Mini-Circuits Filter	Not Required	₹1,500– ₹2,000
Voltage Regulator	1	XL4016 DC-DC Step Down Converter	LM2596 DC-DC Converter	XL4016 DC-DC Step Down Converter	₹500
Microwave Oscillator	1	Not Required	Not Required	Mini-Circuits Synthesizer	₹20,000
Cooling System	1	120mm Cooling Fan	Not Required	120mm Cooling Fan	₹800
Power Supply Unit	1	12V Rechargeable Battery	12V Rechargeable Battery	24V Rechargeable Battery	₹800– ₹2,500
Miscellaneous (Cables, PLA)	-	RF Cables, Connectors, Prototyping	RF Cables, Connectors, Enclosure	RF Cables, Prototyping Materials	₹4,000– ₹6,000

Total Estimated Cost:

- **RF Jamming:** ₹75,000–₹85,000
- **GNSS Spoofing:** ₹50,000–₹70,000
- **HPM Lite:** ₹70,000–₹90,000

