Estimated Budget for Drone

Electronic Components

Component	Model & Description	Price (₹)	Quantity	Estimated Cost (Low)	Estimated Cost (High)
Flight Controller	Pixhawk PX4	₹15,000	1	₹15,000	₹20,000
GPS Module	Ublox NEO-M8N GPS	₹2,500	1	₹2,500	₹3,500
Batteries	Tattu 6S 22000mAh 22.2V 25C LiPo	₹25,000	1	₹25,000	₹30,000
Power Distribution Board (PDB)	Matek Systems PDB-XT90	₹1,500	1	₹1,500	₹2,000
Multispectral Camera Filters	Filters: Hoya R72, Schott RG630 + BG40, Schott RG715 + BG40, Wratten 58 Green	₹12,000	1	₹12,000	₹16,000
Thermal Camera	Waveshare MLX90640 Thermal Camera Module	₹15,000	1	₹15,000	₹20,000
RGB Cameras	Raspberry Pi Camera Module 3 NoIR	₹3,500	5	₹17,500	₹25,000
Communication Module	RFM95 LoRa Module	₹1,500	1	₹1,500	₹2,000
Microcontroller	Raspberry Pi 4/5	₹5,500	1	₹5,500	₹7,500
Minor Sensors (Set)	DHT22, BMP280, MH-Z19, HC-SR04	₹1,500	1 set	₹1,500	₹2,500
BLDC Motors	3508 700KV (4 Motors)	₹5,000	4	₹20,000	₹28,000
Propellers	Gemfan 15x6 (4 Propellers)	₹1,000	4	₹4,000	₹6,000
Electronic Speed Controllers (ESC)	T-Motor F60A ESC (4 ESCs)	₹3,500	4	₹14,000	₹18,000
Sprinklers	TeeJet AIXR 11004-VP	₹1,000	1	₹1,000	₹1,500
Controller	Ground station interface (PC-based software)	₹0	1	₹0	₹0

Mechanical Components

Component	Model & Description	Price (₹)	Quantity	Estimated Cost (Low)	Estimated Cost (High)
Tank (HDPE)	10L Capacity	₹1,500	1	₹1,500	₹2,000
Frame	Carbon Fibre/Aluminium Alloy (1000mm-1200mm)	₹6,000	1	₹6,000	₹10,000

Total Estimated Cost

Component Type	Low Estimate (₹)	High Estimate (₹)
Electronic Components	₹1,41,500	₹2,05,000
Mechanical Components	₹7,500	₹12,000

Grand Total

Total	Low Estimate (₹)	High Estimate (₹)
Grand Total	₹1,49,000	₹2,17,000