

**Total Budget - Design & Development of a Smart Ball Based Surveillance System using AI (BKV-1)**

#	Details	Price (Million)
1	Equipment and Consumables	2.062
2	Human Resource	2.5248
3	Contingency	0.3632
4	Travel	0.01
	<b>Total</b>	<b>4.96</b>

**Human Resources**

#	Personnel	% Time Spent	Salary / Month	Months	Sub-Total
1	Principal Investigator - I	11%	273000	12	360360
2	Principal Investigator - II	19%	160000	12	364800
3	Research Assistant	100%	74000	12	888000
4	Research Assistant	100%	74000	12	888000
5	Masters Student	20%	80000	12	192000
6	Masters Student	20%	80000	12	192000
				<b>Total</b>	<b>2524800</b>

**Equipment and Consumables**

#	Equipment	Est. Unit Price (PKR)	Units	Sub-Total
1	3D Printer / TPU Filaments	250000	1	250000
2	Filaments (TPU)	8000	6	48000
-	<b>Computation</b>			
3	WorkStation	350000	1	350000
4	Field Laptop (Rugged)	500000	1	500000
5	Single Board Computers (NVIDIA)	60000	2	120000
6	Microcontrollers	5000	8	40000
-	<b>Other Sensors</b>			
7	Vision Sensor Board	5000	30	150000
8	Camera Lenses (160', 180')	5000	30	150000
9	IMU Sensor	2000	5	10000
-	<b>Electronics (Consumables)</b>			
9	Batteries (Li-ion / LiPo)	2000	5	10000
10	Battery Chargers	1500	6	9000
11	Battery Management System	1500	10	15000
12	Switches, Wires, Soldering Iron, DMM, ICs etc.	5000	30	150000
-	<b>Networking Equipment</b>			

13	Wifi Router	10000	2	20000
14	Portable Wifi Router / Dongle (MBB)	20000	2	40000
15	Tablet PC	50000	1	50000
16	Miscellaneous	50000	3	150000
			<b>Total</b>	<b>2062000</b>