



Market Report

Team Astra

Sri Krishna College of Engineering and Technology

Cost Report

SUBSYSTEMS	S.No.	Component	Company	Unit Cost	Quantity	Material Cost	Process Cost	Fasteners	Tooling Cost	Total Cost	Vendor
Roll Cage (Frame and Body)	1	AISI 4130		15000						15000	
Steering	1	Steering Wheel	Shop2Race(A Brand Of Credible Future India Pvt. Ltd.)	2000	1					2000	Shop2Race(A Brand Of Credible Future India Pvt. Ltd.)
	2	Steering Shaft	Joyful Wears Private Limited	700	1					700	Joyful Wears Private Limited
	3	Rock and pinion	Shop2Race(A Brand Of Credible Future India Pvt. Ltd.)	4000	1					4000	
			Joyful Wears Private Limited								Joyful Wears Private Limited
	4	Tie Rod	Shop2Race(A Brand Of Credible Future India Pvt. Ltd.)	700	2					1400	Shop2Race(A Brand Of Credible Future India Pvt. Ltd.)
	5	Universal Coupling	Joyful Wears Private Limited	700	1					700	Joyful Wears Private Limited

SUBSYSTEMS	S.No.	Component	Company	Unit Cost	Quantity	Material Cost	Process Cost	Fasteners	Tooling Cost	Total Cost	Vendor
Power Train (Motors and its Accessories)	1	BLDC Motor 2000W 60V		26000	1					26000	Sri Krishna College of Engineering and Technology
	2	BLDC motor controller 2000 W 60 V		15000	1					15000	
	3	CV joint		700	2					1400	
	4	Chain		2000	1					2000	
	5	Sprocket		700	2					1400	
	6	Axle shaft		700	1					700	
Brakes	1	Caliper		1000	4					4000	
	2	Master Cylinder	Generic	1000	1					1000	Generic
	3	Disc	Barhorst Manufacturing	1000	4					4000	Barhorst Manufacturing
	4	Pedal		200	1					200	
	5	Brake Hose	Shanrya	1500	1					1500	Shanrya
	6	Brake oil	Castrol	300	1					300	Castrol

SUBSYSTEMS	S.No.	Component	Company	Unit Cost	Quantity	Material Cost	Process Cost	Fasteners	Tooling Cost	Total Cost	Vendor
Suspension (Shocks, Dampers and Wishbones)	1	Coil-Overs	Allied Auto Tech International Private Limited	2000	4					20000	Allied Auto Tech International Private Limited
			Indian Automobile Corporation	1800							Indian Automobile Corporation
	2	Knuckles			4						
	3	A arms			8						
	4	Hub assembly			4						

SUBSYSTEMS	S.No.	Component	Company	Unit Cost	Quantity	Material Cost	Process Cost	Fasteners	Tooling Cost	Total Cost	Vendor
Solar PV System (Panels and its Accessories)	1	Solar panel 220W 12/24V	Sundaramurugan,Kcp Sixwell Solar	10000	6					60000	Sundaramurugan,Kcp Sixwell Solar
	2	Charge Controller 12/24V 50 A	Sundaramurugan,Kcp Sixwell Solar	8000	1					8000	Sundaramurugan,Kcp Sixwell Solar

SUBSYSTEMS	S.No.	Component	Company	Unit Cost	Quantity	Material Cost	Process Cost	Fasteners	Tooling Cost	Total Cost	Vendor
Wheel Assembly	1	Jupiter tyre	SKCET	2500	4					10000	Sri Krishna College of Engineering and Technology
Battery System	1	Battery (Tractive) 48V,100Ah		80000	1					80000	Sri Krishna College of Engineering and Technology
	2	SLI Battery 12V,20Ah		2500	1					2500	Sri Krishna College of Engineering and Technology

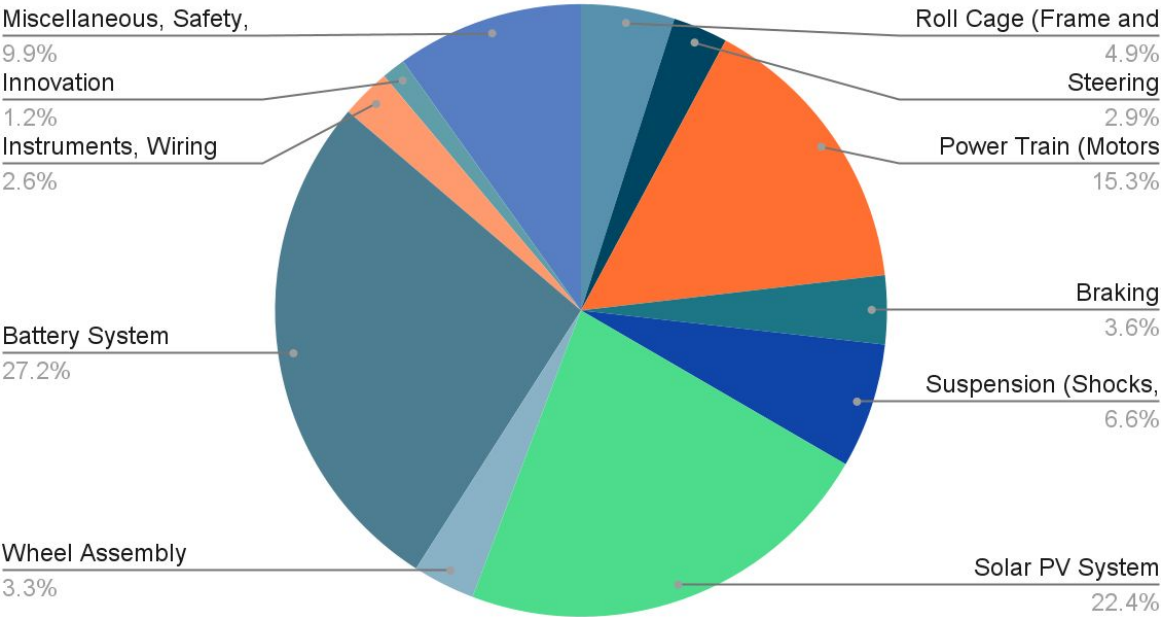
SUBSYSTEMS	S.No.	Component	Company	Unit Cost	Quantity	Material Cost	Process Cost	Fasteners	Tooling Cost	Total Cost	Vendor
Instruments, Wiring and its Accessories	1	Wire								8000	
	2	Connectors									
	3	Relays									
	4	Fuse									
	5	Kill Switch			1						
	6	Brake Lights			1						
	7	Horns			1						
	8	Wire Labels									
	9	Flexible Hose									
	10	LED Car Fog Light			2						

SUBSYSTEMS	S.No.	Component	Company	Unit Cost	Quantity	Material Cost	Process Cost	Fasteners	Tooling Cost	Total Cost	Vendor
Innovation	1	Arduino Uno	Electronicshobby.com	550	1					550	Electronicshobby.com
			Robu.in	499						499	Robu.in
	2	LM75	Electronicshobby.com	180	1					180	Electronicshobby.com
			Flyrobo.in	189						189	Flyrobo.in
			Electromegamart.com	175						175	Electromegamart.com
	3	ADXL335 Module	Electronicshobby.com	379	1					379	Electronicshobby.com
			robocraze.com	316						316	robocraze.com
			Knowledge Electronics	250						250	Knowledge Electronics

SUBSYSTEMS	S.No.	Component	Company	Unit Cost	Quantity	Material Cost	Process Cost	Fasteners	Tooling Cost	Total Cost	Vendor
Innovation	4	NEO-6M GPS Module	Robu.in	399	1	-	-	-	-	399	Robu.in
			Knowledge Electronics	300		-	-	-	-	300	Knowledge Electronics
	5	Auto Coupler (817 Module)	Knowledge Electronics	150	1	-	-	-	-	150	Knowledge Electronics
			Electronicscomp.com	195		-	-	-	-	195	Electronicscomp.com
			Robu.in	199		-	-	-	-	199	Robu.in

SUBSYSTEMS	S.No.	Component	Company	Unit Cost	Quantity	Material Cost	Process Cost	Fasteners	Tooling Cost	Total Cost	Vendor
Miscellaneous, Safety, Finish and Assembly	1	Helmet	Sri Krishna College of Engineering and Technology	20000	1					20000	Sri Krishna College of Engineering and Technology
	2	Driver Suit			1						
	3	Harness			1						
	4	Fire Extinguisher			1						
	5	Bucket Seat			1						
	6	First-aid Kit			1						

Cost Pie Chart



Roll Cage (Frame and Body)	15000
Steering	8800
Power Train (Motors and its Accessories)	46500
Braking	11000
Suspension (Shocks, Dampers and Wishbones)	20000
Solar PV System (Panels and its Accessories)	68000
Wheel Assembly	10000
Battery System	82500
Instruments, Wiring and its Accessories	8000
Innovation	3781
Miscellaneous, Safety, Finish and Assembly	30000
Total	303581

Weight Report

SubSystems	S.NO	Parts	Quantity	weight	Total weight
Roll cage	1	AISI 4130	1	20kg	20
Steering	1	Steering Wheel	1	500g	5
	2	Steering Shaft	1	700g	
	3	Rack and pinion	1	1.5kg	
	4	Tie Rod	2	2kg	
	5	Universal Coupling	1	300g	
Power Train (Motors and its Accessories)	1	Motor	1	15kg	32
	2	Chain	1	1kg	
	3	Sproket	2	2kg	
	4	CV joint	2	7kg	
	5	Axle shaft	1	6kg	
Brakes	1	Caliper	2	4kg	9.5
	2	master cylinder	1	1 kg	
	3	disc	4	3 kg	
	4	pedal	1	0.5 kg	
	5	Brake Hose	1	1 kg	
	6	Brake oil	350ml		

SubSystems	S.NO	Parts	Quantity	weight	Total weight
Suspension (Shocks, Dampers and Wishbones)	1	Coil-Overs	4	9kg	28.5
	2	Knuckles	4	5kg	
	3	A arms	8	5.5kg	
	4	Hub assembly	4	9kg	
Battery	1	Battery(Tractive)	1	37Kg	38.7
	2	SLI Battery	1	1.7 Kg	
Wiring	1	wire		2kg	3.8
	2	connectors		100g	
	3	relays		200g	
	4	fuse		50g	
	5	kill switch		200g	
	6	brake lights		100g	
	7	horns		400g	
	8	wire labels		100g	
	9	flexible hose		100g	
	10	LED Car Fog Light		450g	

SubSystems	S.NO	Parts	Quantity	weight	Total weight
Wheel Assembly	1	Jupiter tyre	4	8kg	8
Miscellaneous, Safety, Finish and Assembly	1	Helmet	1	1.2kg	6.72
	2	Driver Suit	1	2kg	
	3	Harness	1	500g	
	4	Fire Extinguisher	1	2kg	
	5	Bucket Seat	1	1kg	
	6	First-aid Kit	1	20g	
Solar	1	Solar panel	6	27	30.6
	2	Charge Controller	1	3.6	

