COST REPORT

INTRODUCTION:

Building a economic vehicle has Cost as its main parameter. The cost report is classified based on the departments. The cost of the components are estimated based on the market survey by respective departments. The cost limit is <=80,000 rupees (rulebook). With added up features and designs to reduce weight and cost, we have brought down the cost nearer to the limit. On further market survey during fabrication cost may be brought down more closer to the limit.

Cost are in Rupees.

	MOTOR AND CIRCUITS			
S no.	Components	Quantity	Cost	
1	Hub Motor (Motor+Rim+Wheel+Drum brake)	1	10000	
2	Driver Circuit	1	3000	
3	Accelerator pedal	1	200	
	TOTAL 13200			

	SOLAR PANEL				
S no.	Component	Quantity	Cost		
1	Solar Panel	50 Feet	30000		
2.	MPPT Algorithm circuit	1	5000		
3	Aerodynamic adjustments	4	200		
	TOTAL 35200				

	BATTERY & OTHER ACCESORRIES			
S no.	Components	Quantity	Cost	
1	Batteries	4	14000	
2	Wires	15m	500	
3	Switch(DPST)	1	50	
	TOTAL 14550			

	FRAME				
S no.	Component	Quantity	Cost		
1	1" Pipe 1.2mm thick	9kg	3500		
2	0.75" Pipe 1mm thick	5kg	2000		
3	0.5" Pipe 1mm thick	3kg	1250		
4	Welding (Gas + filler rods)	As required	1000		
5	Base covering	600			
	TOTAL 8350				

	STEERING SYSTEM				
S no.	Components	Quantity	Cost		
1	Steering Wheel	1	150		
2	Steering rod	1	50		
3	0.75" Bearing	1	65		
4	Steering arm	2	100		
	TOTAL 365				

	BRAKING SYSTEM				
S. no	Component	Quantity	Cost		
Front D	Pisc Brake				
1	Caliper & Brake pad	2	800		
2	Rotor Disc	2	600		
3	Tandem Cylinder	1	800		
4	Brake Pedal	1	50		
5	Tubes	Required	150		
6	Brake Fluid	150ml	50		
	Total 2600				

	SUSPENSION SYSTEM				
S no.	Component	Quantity	Cost		
1	Front Suspension	2	800		
2	Rear Suspension	1	500		
3	King Pin (Machining)	2	400		
4	A arm	2	100		
5	C Arm	2	100		
6	Bearing (in Kingpin)	2	300		
7	Ball Joint	2	400		
8	Front wheel	2	1200		
	TOTAL 3800				

	ERGONOMICS				
S no.	Component	Quantity	Cost		
1	Seat(Seat + seat belt)	1	500		
2	Extinguisher	1 (2 Kg)	1500		
3	Lock nuts	25	800		
4	Kill Switch	2	100		
5	Wire covering(PVC)	10m	150		
6	Brake light	1	50		
7	Steering Indicator	4	200		
8	Rear View mirrors	2	200`		
	TOTAL 3500				

	INNOVATIONS			
S no	Components	Quantity	Cost	
1	Cruze control	1	300	
2	Steering retraction	1	400	
3	Power source	1	250	
	TOTAL 950			

	Miscellaneous				
S no.	Component	Quantity	cost		
1	Nut + Bolt	80+80	750		
2	Primer and Paint	2.5 liter	400		
3	Sticker		100		
4	Machining process & tools		1200		
5	Lubrication	150ml	70		
6	Shaft (King pin to wheel)	2	400		
	TOTAL 2920				

TOTAL COST =85285/-Cost Distribution

