

	MOD.: +91 600/9 /9413 / +9	
Sr. No	Electricity gene	eration Based
1.	Pedal powered electricity generation	1. Pedaling setup
	3 2	2. Electricity Generation.
		3. Gear ratio selection
2.	Vertical Axis wind Turbine	1. Use of Wind Energy.
		2. Electricity Generation
		3. Fabrication of System.
3.	Energy recovery from engine fins	1. Energy Recovery.
		2. Electricity Generation.
		3. Application Based.
4.	Solar powered	1. Use of Solar Energy
		2. Electricity Generation
		3. Application Based.
5.	Electricity Generation From Speed Breaker	1. Rack & Pinion Setup.
		2. Gear ratio Selection.
		3. Electricity Generation.
6.	Steam powered mini Power Plant	1. Steam Generation.
		2. Electricity Generation.
		3. Application Based.
7.	Electricity Generation Unit For Bicycle	1. Fixture design for unit.
		2. Electricity Generation.
		3. Measure of Electricity generated.
8.	Hand Powered gear box for Electricity	1. Fabrication of gear box
	generation	2. Portable Unit.
		3. Measure of Electricity generated.
9.	Hydro-Electric Mini power Plant	1. Use of Kinetic Energy.
		2. Electricity Generation Setup.
1.0		3. Application Based.
10.	Compressed Air Electricity Generation	1. Air Compression &
		Storage unit.
		2. Electricity Generation
		Setup.



	Mob.: +91 80079 79413 / +91 97671 98369		
Sr. No	Agricultu	re Based	
1.	Ground Nut De-shelling Machine	 Pedal Operated Motor Attachment Ground-nut Separation unit 	
2.	Pedal operated High Head Water pumping System.	 Variable stroke adjustment. Speed ratio Selection. +ve Displacement Pump. 	
3.	Portable Vegetable Cutter & slicer	 Slicing of Vegetable. Portable Unit Easy to handle. 	
4.	Solar/Wind power Irrigation System.	 Use of Solar /Wind Energy Electricity Generation unit Water pumping using centrifugal DC pump. 	
5.	Intelligent oil skimming Robot	Oil Skimming arrangement. Cleaning Water.	
6.	Fabrication of Solar Water Fountain.	 Use of Solar Energy. Fountain Arrangement. Water pumping Unit. 	
7.	Fabrication of Solar Seed Dryer	Drying chamber Air heating unit	
8.	Fabrication of Seed Dryer using Electric heater.	 Drying chamber Air heating unit Electric heater arrangement 	
9.	Soil Fertilizing unit using Waste Material	 Crushing of waste Agri-product. Spreading of crushed material. 	
10.	Pedal operated fertilizer sprayer unit	 Pedalling attachment. Spraying unit. Water pumping unit. 	
11	Flour milling Pedal operated	 Using Pedalling System Motor adjustment unit. Portable Unit. 	
12	Robotic Vehicle for Multi-Purpose fertilizer spraying.	 Robotic Unit . Height adjustment for spraying depending upon crop height. 	
13	Lawn mover with Ground grass cutting arrangement.	 Lawn mover Grass cutting arrangement. Portable unit 	
14	Defective fruit Detection & Separation Unit.	 Using camera to detect defective piece. Separate the defective in one side. Separate the defective fruits 	



Sr. No	Productio	n Based
1.	U-shape sheet rolling Machine	 SPM for rolling. Prototype.
2.	Universal crushing machine	SPM for crushing waste material. E.g. Paper , cardboard, wood, plastic etc.
3.	Coconut Dehusking	 De-husking unit. Setup fabrication.
4.	Material handling unit using pneumatic arm	Use of compressed air. Accuracy in handling
5.	Potato peeling Unit	 Pedal operated unit. Capacity 1-2 kg
6.	Advance Sugar cane Juice Extractor M/c	 Single pass unit. Juice collecting arrangement.
7.	Automation for spring testing Unit	 Helical spring testing. Deflection measuring using distance sensor.
8.	Automation for spray painting	 Use of compressed air. Multi-Axis painting arrangement.
9.	Aluminium can crushing & recycling Unit	 Can Crushing unit. Furnace for melting. Aluminium block.
10.	Waste Paper recycling Unit.	 Paper Crushing. Pulp formation. Card board formation.
11	Glass Recycling Unit	 Glass Crushing unit. Furnace for melting. Aluminium block.
12	Motorized wood cutting machine.	 Fabrication for cutting blade. Cutting adjustment. Fabrication of complete system.
13	Sugar cane surface cleaning M/c.	 Surface Cleaning unit. Fwd Feeding simultaneously.
14	Press machine.	1.High Power.2. Portable unit.3. Application based.
15	Bowling machine.	 Variable Speed Bowling. Bouncer adjustment.



	MOD.: +91 80079 79413 / +9	3. Portable unit.	
	T 1 1		
	Production Based		
16.	Leakage testing machine for strainer.	 High Pressurizing system. 	
		2. Pressure indicator attachment.	
		3. Portable unit for testing	
17.	Pneumatic Press machine	1. Portable unit.	
		2. Highly precise unit.	
		3. Application based pressing	
		attachment.	
18.	SPM for Drilling	1. Easy positioning.	
		2. Simple control unit.	
		3. Reliable system	
19.	Automation for profile cutting proto-type	 Bed Design for multi axis 	
		movement.	
		2. Speed adjustment.	
20	Box transportation using linkage mechanism.	1. Linear box movement.	
		2. Linkages & setup fabrication.	
21.	Semi-Automatic sugarcane Node cutting	1. Linear motion.	
		2. Cutting of sugar cane.	
		3. Rotary motion for node	
		visualization.	
22.	Magnetic conveyer system for scrap	Magnetic conveyer.	
	handling.	2. Collect scrap from shop flour	
		3. Portable unit.	
23.	Advance flour cleaning	1. Gear ratio selection.	
		2. Cleaning brush attachment.	
		3. Movable & portable	
		4. Electricity generation unit.	



Sr. No	Electro-Mech	
1.	Smart Irrigation System	 Sense moisture level. ON/OFF water supply. Smart control system.
2.	Smart Parking System	 Less space max vehicle. Systematic Arrangement. Smart Card system.
3.	Smart spy Robotic Vehicle	 Spy robot . Terrain Travel. Wireless camera connectivity.
4.	Remote operated gear changing system.	 Smart gear changing. Simultaneous clutching & gear changing. Gear Shift UP/Down.
5.	Emergency Braking system	 Obstacle detection. Automatic Braking. Easy Handling.
6.	Automation for bottle filling & capping Unit.	 Bottle filling. Cap placing. Cap tightening.
7.	Automation for sugar-cane node cutting unit	 Using Camera node sensing. Actuation of cutting blade. Cutting of node.
8.	Object Sorting System	 Object sorting Application based for sorting.
9.	Kinematic linkage Robot	 Linkage design. Low weight. Spy robot.
10.	PCB drilling multi-point using ECU	 Programming of ECU. Structure Manufacturing



Mail Id .: dsengineeringproject@gmail.com Mob.: +91 80079 79413 / +91 97671 98369

	Mob.: +91 80079 79413 / +91 97671 98369		
Sr. No	Solar	Based	
1.	Solar/Wind powered hybrid system	 Electricity generation. Hybrid system. 24 power supply arrangement. 	
2.	Solar mini Water heater	 Electricity storage. Water heating. 	
3.	Solar Air dryer	 Dehydrating unit. De-moisturizing Unit. Increase Efficiency. 	
4.	Hydraulic Based Solar Tracking	 Tracking of Solar panel acc to sun movement. Adjustment of tracking speed. 	
5.	Solar sprayer pump	 Fertilizer Unit. Solar operated . Portable Unit. 	
6.	Solar powered High head reciprocating Pump.	 High head water pumping. High efficiency. Variable Stroke adjustment. 	
7.	Solar powered Refrigeration	 Use of solar energy. Portable unit. Eco-Friendly 	
8.	Solar powered water desalination	 Water purification Unit. Use of Solar Energy. 	
9.	Parabolic Solar System for water heating	 Use of solar radiation. Water heating > 60°C Increase the effectiveness of system. 	
10.	Solar powered Tricycle	 Use of solar energy. Electricity driven. Use of Tricycle for handicap people. 	
11	Solar Cooker	 Solar Radiation tracking. Use of Heat energy for cooking. 	
12	Solar powered Air compressor	 Solar energy storage in battery . Air compression system. 	
13	Robotic vehicle solar /wind powered	 Electricity generation. Hybrid system. Use of Dual power source. 	