

S.No	Project Name	Description	Area of work
1	Choya Machine	A machine that is used to splice bamboo and the strips can be used to make traditional baskets, toothpicks and brooms.	Optimizing existing design.
2	Duna Tapari Making Machine	A machine that can make plates of leaves which can be used as	Optimizing existing design.
3	Potato Planter with Digger	A machine that can efficiently dig soil and place potato seeds.	Optimizing the mechanical designs.
4	Chaff Cutter Machine	A machine used fo cutting straw or hay into small pieces before being mixed together with other forage and fed to horses and	Optimizing the mechanical designs.
5	Banana Fiber Extraction Machine	A machine that can extract fiber from Bananas which can be used for making ropes and even threads.	Working on making fine fibers for threads.
6	Dung Dwatering Machine	A machine that removes water and extracts fiber from cow dung which can be stored easily in a small space.	Optimizing the mechanical designs.
7	Electric Pottery Machine	Electrically spun pottery machine.	Optimizing the mechanical designs.
8	Reaper Machine	A machine to cut crops during harvesting season.	Optimizing the mechanical designs, making it compact.
9	Mulching Machine	A machine that reduces limbs, tops, and cull material intto shredded particles on the fields so that it can degrade more quickly back into the soil	Optimizing the mechanical designs, making it compact.
10	Log Splitter Machine	A machine that split large logs into smaller ones which is used for	On-Hold
11	Corn Thresher Machine	A machine that removes maize kernels from the cobs, useful for medium-scale production.	Portable versions required.
12	Rice Thresher Project	A machine that mechanically removes or separates the rice grains from the panicle or straw.	Optimizing the mechanical designs, making it compact.
13	Plastic Recycling Project	A system that upcycles waste plastics into chairs and tables.	Optimizing existing design: working on filtering fumes released during extrusion
14	CAAN Project	NIC has setup cameras in the hills to observe the weather conditions	Needs work on preventing lightning strikes and power efficiency.
15	Coffee Roaster Machine (2kg)	Locally built coffee roasting machine that is 50% cheaper than competitors in the same segment.	Integration of data logger and control systems that provide repeatable roasting profiles.
16	Drone X1 Project	A long-range drone that delivers medicine in the rural areas.	Working on designs based on composite materials.
17	EHR Project	Open Source Electronic Health Recording system for hospitals and medical institutions.	Working on Data Science and Machine Learning Integration.
18	Electric Vehicle Project.	Conversion of combustion engines based vehicles into electric.	Preparation of Standardization Process for the Government. Currently, converted vehicles cannot be driven on the road.
19	Fish De-Scaling Machine	A machine that removes the scales of the fishes. Useful for	Optimizing existing design.
20	Food Lab	Researching and producing healthier biscuits, candies and food for local market.	Need more innovative ideas.
21	Dance Game	A dancing arcade game that is made in Nepal.	Designing for new and commercializable version.

22	Interactive Learning Models	Models made from locally available materials and arduino that can provide interactive learning for STEM education.	Need more innovative ideas.
23	Haate(hand) Krishi Tools	Small hand held gardening and agricultural tools.	Need more innovative ideas.
24	ICT Lab	Software department in Pokhara, currently building a biomedical equipment tracking system for hospitals.	Development of new features.
25	Infrared Cooker	Locally made, easily repairable and affordable infrared cooker for rural nepal.	Needs R&D for making the first version.
26	Khuwa Making Machine	A machine that produces dried evaporated milk solids (Khuwa) which is popular in Nepal and India.	Optimizing existing design.
27	Monkey Chasing Gun Project	A pipe filled with Calcium Carbide and water that makes loud sound when ignited. Used to chase monkeys in agricultural fields	Need ideas for sustainable, long-term monkey deterrents.
28	Multi Grain Roaster Project	A drum that spins while being heated to roast grains like corn, soybean etc.	Needs optimization in spinning mechanism, reducing power consumption.
29	Controlled Environment Chamber P	A project that aims to mimic ambient environmental conditions inside an enclosed room for commercial, research and	Being tested/ optimized for Mushroom.
30	Nyano Nani Project	A low cost infant radiant warmer made for newborn babies in rural areas in Nepal.	Development of new features.
31	Hydraulic Ram Pump Project	A pump that uses large flow of moving water from river to pump water into communities living far from the river.	Need ideas for making it low cost and easy to install.
32	Solar Dryer Project	A dryer constructed with special poly-carbonate sheet that dehydrates vegetables and meat for small-medium enterprises.	Electrical control system can be optimized.
33	Vending Machine Project	Locally made automated machine that dispenses snacks, drinks and other items.	Looking into integrating cooling system for summer, and reducing overall weight and materials used.
34	Wheel Chair Project	Simple, electrical wheel chair machine for differently abled people.	Needs optimization for rugged roads in Nepal.