**WORKSHEET – 2**

**IDEA EVALUATION WORKSHEET- Based on 5q by Prof.EdRubaesch**

Q1. WHAT’S THE PROBLEM ?

1. IS IT REAL - Yes
2. HOW BIG IS THE PROBLEM –70% of rural population still depends on agriculture. Almost every farmer faces many problems in the process of sowing seeds.
3. WHEN DOES IT OCCUR – Due to heavy work in ploughing the land, sowing the seeds and again covering it, the farmers face lot of spine problems which may sometimes become main severe health issue.
4. FREQUENCY OF OCCURENCE – Every farmer faces this problem whenever he/she does agricultural work.
5. CURRENT SOLUTIONS – There are many seed sowing machines in the market to make a farmer’s work easier, but the main difference between our project and the availble machines is – our machine consists of the weed cutter, water sprinkler, seed planter and mud coverer which is like an integration of all available individual machines.

Q2. WHO HAS THE PROBLEM-customer identification

* PROFILE – Farmers
* LIFESTYLE - People who work in agricultural sector.
* SEGMENT – Mainly rural sector.
* POSITION-CRITICALITY OF NEED – The machines required to solve these problems are available as individual machines. A small scale farmer cannot afford to buy all the machines and hence there is a need to develop a machine that integrates all the actions/mechanisms required to solve the problem, making it affordable to any farmer.

Q3. WHAT’S YOUR SOLUTION

* WHATS YOUR UNIQUE PROPOSITION – Our “Solar Seed Fling Machine” is an integration of all the ideas and features of machines that are currently available to solve the problem. The highlightening part is that the machine runs completely on clean energy(through solar power) and the excess energy will be stored in batteries. If in case the solar energy is not available, the machine acts completely like an EV and runs on electrical energy which is rechargable.
* DO YOU OWN IT- IPR – No.

Q4. WHO IS COMPETITION

* HOW ARE YOU DIFFERENT – Our competition is currently available seed sowing machines with high demand like Johndeer, Mahindra, Swaraj etc. All these machines have only one or two features but not all. Our machine will be more efficient in this way as it is affordable even by small farmers.
* ARE YOU THE UBER OR YOU UBERED -- Ubered

Q5. HOW IS IT MADE POSSIBLE-

* RESOURCES/ TECHNOLOGY/ - We used Arduino , Servo motors , dc motors and for integrating all these we used Arduino IDE
* Man,money ,machine,materials.

IDEA EVALUATION- SUMUP

CUSTOMERS:

MOST UNDERSERVED SEGMENT

SIZE

TARGET

COMPETITION

DIFFERENTIATOR

ECONOMIC FEASABILITY

IP

TECHNOLOGY NEEDED

COMPETENCIES

KNOWLEDGE NEEDED knowledge about Arduino IDE platform,

SKILLS NEEDED embedded c coding

TEAM COHESIVENESS

NETWORK