**WORKSHEET – 2**

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

Q1. WHAT’S THE PROBLEM ?

Occurrence of huge fire explosions due to LPG leakage, which further reslts in human loss, property loss, etc.

1. IS IT REAL: Yes,it is real
2. HOW BIG IS THE PROBLEM: The problem might not occur frequently, but it causes huge loss if any such accidents occur.
3. WHEN DOES IT OCCUR: Rarely
4. FREQUENCY OF OCCURRENCE: 30%
5. CURRENT SOLUTIONS : Only LPG leakage detectors are available in the market, but they don’t completely solve the problem of fire explosions.

Q2. WHO HAS THE PROBLEM-customer identification

* PROFILE: Who ever uses LPG
* SEGMENT: both commercial and domestic users of LPG.
* POSITION-CRITICALITY OF NEED

Q3. WHAT’S YOUR SOLUTION: According to the statistics most of the fire explosions are due ignite of sparks or due to short circuits when there is a gas leakage. So, turning off the main supply of the unit where ever LPG is leaking and alerting the user and Fire station department would be the solution.

WHATS YOUR UNIQUE PROPOSITION: Turning Off the main supply of the unit when ever there is a gas leakage.

* DO YOU OWN IT- IPR: Yes. This idea may not be unique, but how product implements is unique.

Q4. WHO IS COMPETITION :

* HOW ARE YOU DIFFERENT : As we are using IoT technology to provide ultimate safety and avoid Fire accidents, this product iis completely different from ordinary LPG detectors.

Q5. HOW IS IT MADE POSSIBLE-

* RESOURCES/ TECHNOLOGY/: IOT, clickSend (for sending SMS), IFTTT
* SOCIAL/ECOLOGICAL FEASABILTY: Ecological feasability
* Man,money ,machine,materials.: micro controller, gas senor, relays – Rs. 1500 /-

IDEA EVALUATION- SUMUP

CUSTOMERS: Domestic and commercial users of LPG

MOST UNDERSERVED SEGMENT

SIZE

TARGET: This product is needed by everyone who ever has a fear of LPG leakage and Where ever LPG is mostly used.

COMPETITION:

DIFFERENTIATOR

ECONOMIC FEASABILITY: yes,it is feasible.

IP: yes,it can be patentable.

Technology needed: embedded C, Arduino.

COMPETENCIES

KNOWLEDGE NEEDED: ASSEMBLY LANGUAGE,CONNECTING ELECTRONIC DEVICES

SKILLS NEEDED:PROGRAMMING SKILLS AND ELECTRONIC CONNECTING SKILLS

TEAM COHESIVENESS: TO DEVOLOP PRODUCT ECONOMICALLY.

NETWORK