www.aloeecell.com

let’s end the energy gap

PROBLEM DEFINITION

ALOE E-CELL

97% of the materials used in the batteries are imported

Batteries are removed when 20-30% of its energy left which can explode

Batteries end up in landfills Release **toxic materials** causing soil, water & air pollution.

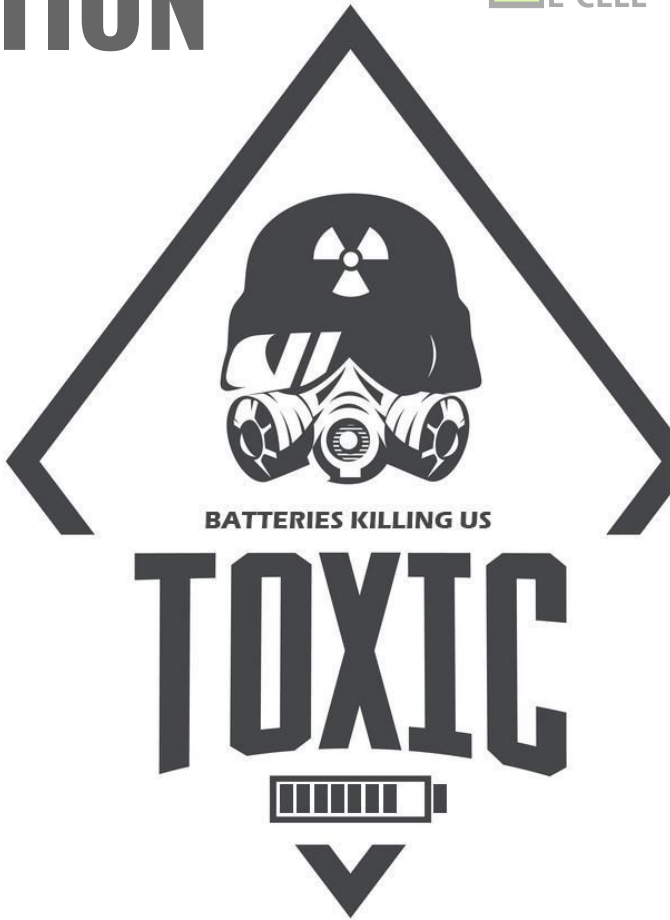
India generates **2 Million** Metric tonnes of waste every year. accounting to **82%** of E-Waste as reported by 'India Today'.

In India, chronic kidney disease is the **seventh** leading cause of death with over **100,000** patients.

Around **10 lakh** patients of liver cirrhosis are newly diagnosed every year in India.

Chronic Obstructive Pulmonary Disease (COPD) was the **second highest cause of death** in India

69%of these are adjacent to Landfill areas.



SOLUTION

THE SAFE ALTERNATIVE TO **LEGACY BATTERIES**

ALOE E-CELL

1.5V | ECO-FRIENDLY | NON TOXIC

ANTI-LEAK PROTECTION

ALOE E-CELL

WORLD'S FIRST 100% ECO-FRIENDLY BATTERY

- MADE FROM ALOE VERA
- NON EXPLOSIVE
- NON TOXIC

TECHNOLOGY & INNOVATION

MATERIAL EVOLUTION

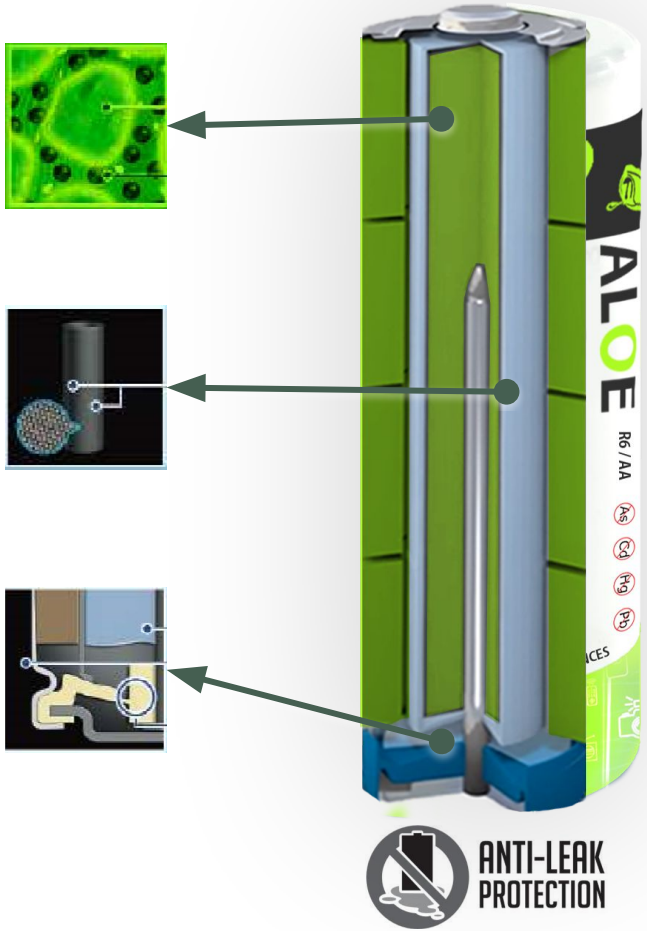
Aloe E-cell are created using aloe vera gel processing with natural & high-reactive ingredients, the Aloe E-Cell battery succeeds to generate stable potential for power-hungry devices.

ENGINEERING EVOLUTION

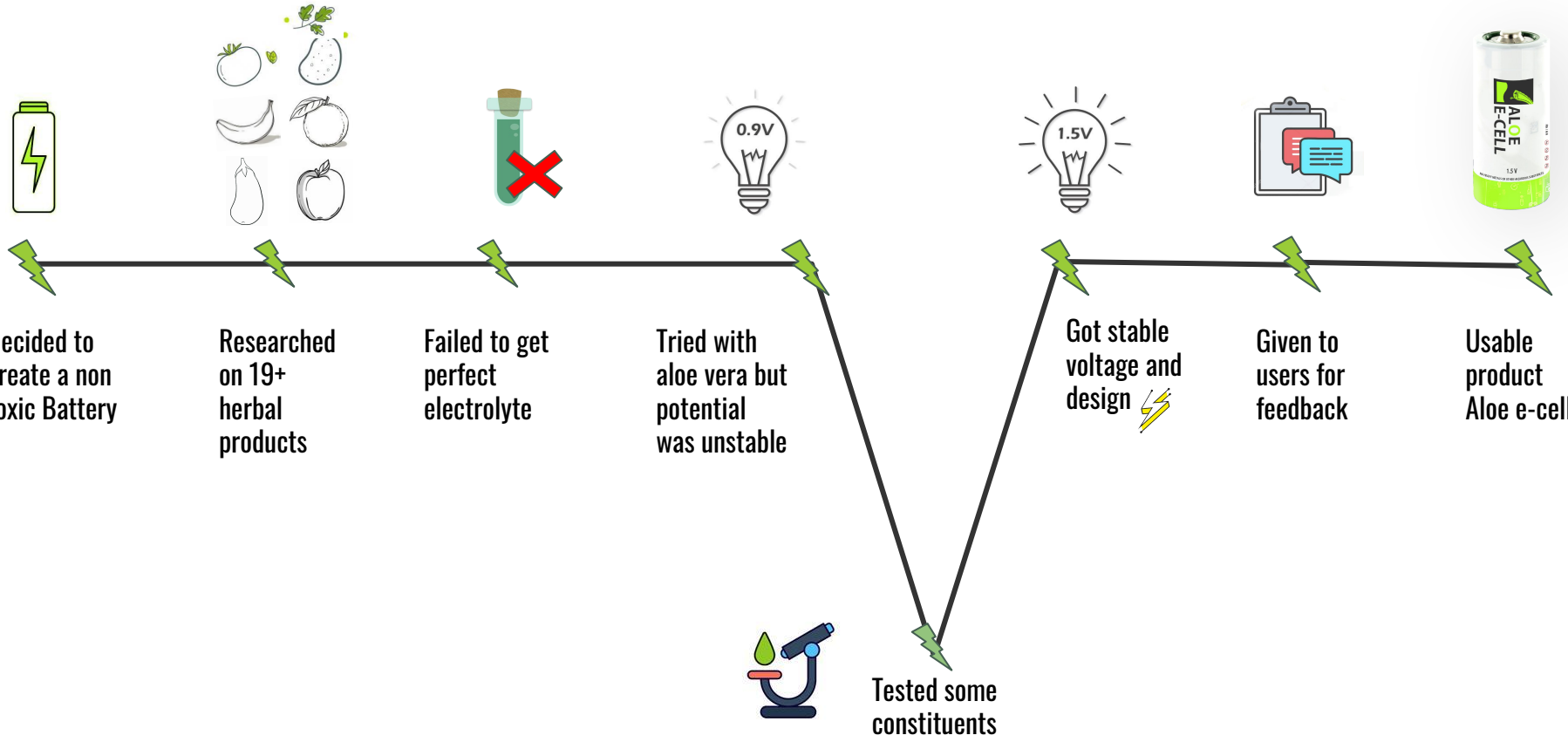
With an homogenised filling , the current is allowed to flow with much greater consistency, keeping these batteries working.
The design would include a separator for better ion transport.

DESIGN EVOLUTION

Structural design which provides a lot more space for active ingredients resulting in longer lasting performance. A strong internal structure and a tough outer coating ensures far better impact resistance.



HOW ALOE E-CELL CREATED



WHY ALOE ONLY ?

ALOE E-CELL

Why our Raw Material is the best choice :

CULTIVATION ADVANTAGE

Aloe Vera can grow in any condition ranging from dry to humid from hot to cold.Can be grown at a temp of 10°c-50°c

ECONOMIC ADVANTAGE

Aloe Vera is the cheapest raw material that can generate electricity at the lowest cost and great potential. 2 acres of land can grow 30 tons of Aloe Vera which can generate 72000 batteries. Regrows itself in 10 weeks.

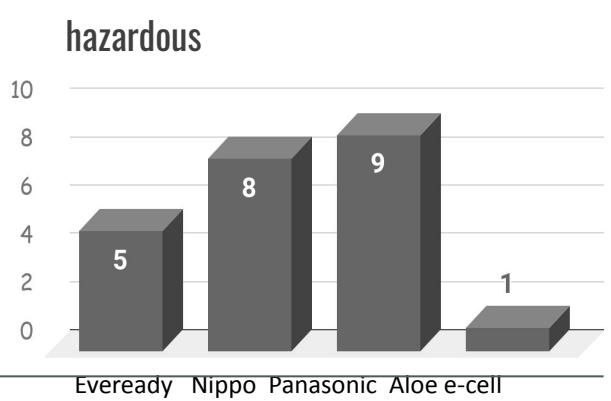
DISPOSAL ADVANTAGE

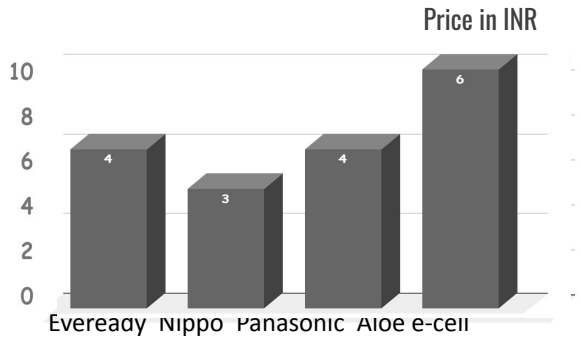
Aloe Vera can easily decompose in soil levying its vital nutrients to it which can increase the amount of nutrients in the soil

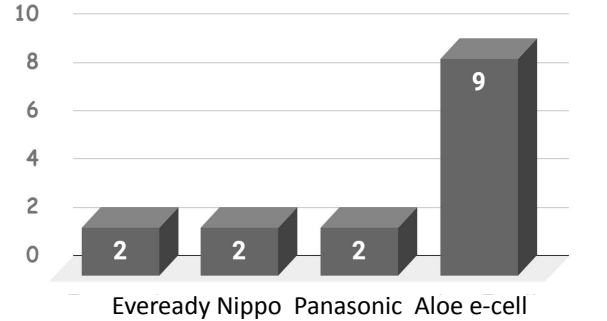
HEALTH ADVANTAGE

Aloe vera has no harmful substance present which makes it free from health hazard(unlike the ones present in other existing cells)

UNIQUE VALUE PROPOSITION



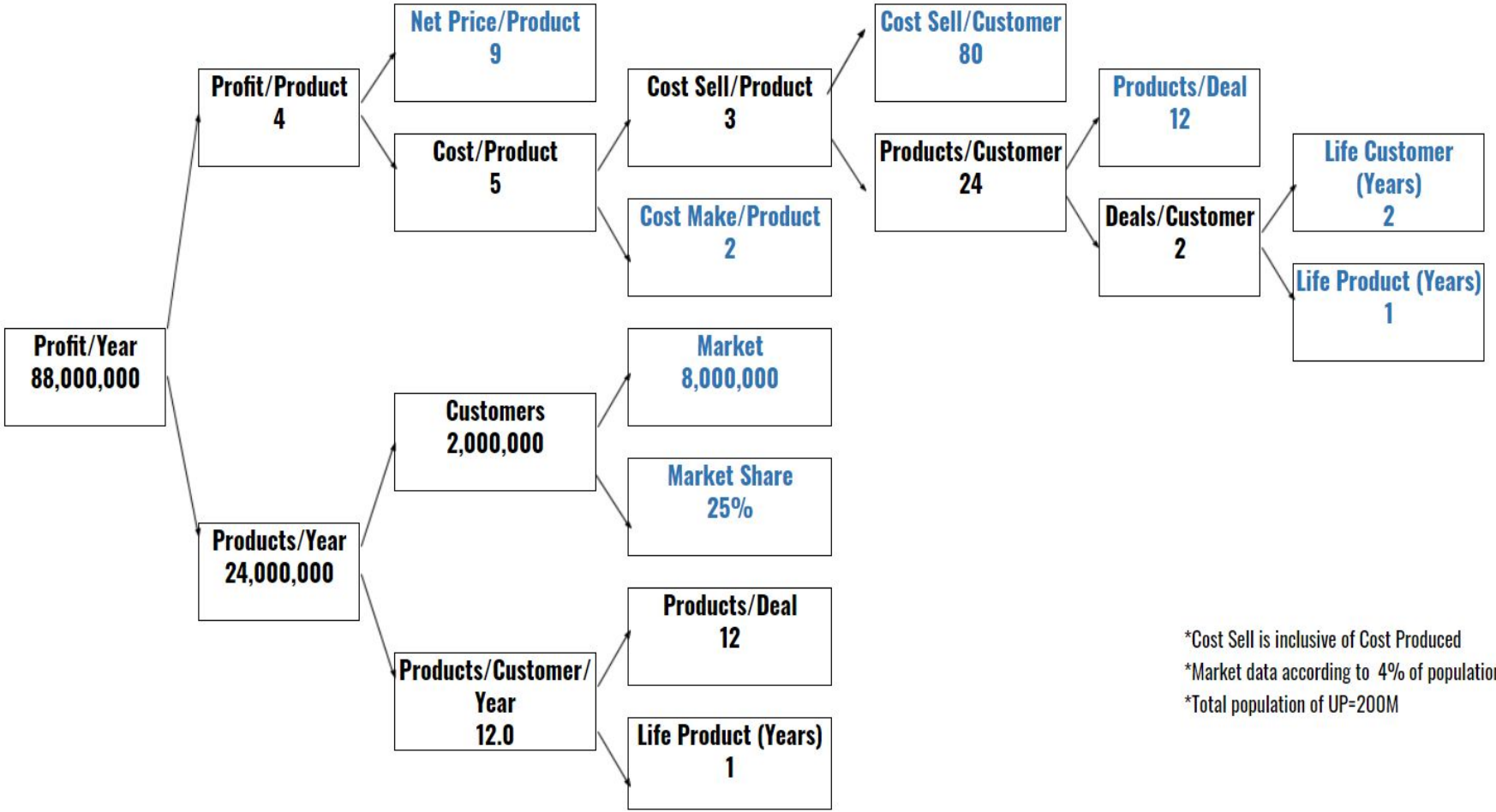




OUR UNIQUE VALUE PROPOSITIONS ARE IN TERMS OF

- MONEY SAVED
- TIME INCREASED
- PAIN RELIEVED
- ENJOYMENT & SAFE

FINANCIAL



*Cost Sell is inclusive of Cost Produced

*Market data according to 4% of population of UP,India

*Total population of UP=200M

MARKET SIZE & FACTS

ALOE E-CELL

OUR UNIQUE VALUE PROPOSITION

1. MONEY SAVED
2. TIME INCREASED
3. ECO FRIENDLINESS
4. ENJOYMENT & SAFE

We classified our market in three segments as :

- **Low** Drain Devices 1 2 3 4
- **Medium** Drain Devices 1 2 3 4
- **High** Drain Devices 1 2 3 4

	CONSUMPTION	CAGR		
INDIA	2.7B Units	35%	BY 2023	USD 29.8 billion by 2024
GLOBALLY	89B Units	27%	BY 2022	USD 139.36 billion by 2026

ENVIRONMENTAL & FINANCIAL POTENTIAL

- **78% saving approximately 109 Billion Dollars annually** which is wasted in importing raw materials from different countries.
- Source of income for farmers growing Aloe Vera as 2 acres of land can yield a profit of **8400 USD per harvest.**
- **71.6% Reduction** in environmental pollution caused due to usage of batteries(*battery University).
- **97% Reduction** in Disease statistics caused due to usage of dry cell batteries.
- Reduction in Carbon FootPrint, Landfills & **87% of E-waste** caused due to batteries.

JOURNEY SO FAR

#startupindia National Startup Award 2020 Winner In Energy Sector

Schneider Electric Declared Best bold Idea of the world 2019 & Global Winner By Schneider Electric

Represented at HQ

Google | intel | NASA | svb

Represented at Universities

Stanford University | Berkeley UNIVERSITY OF CALIFORNIA | DRAPER UNIVERSITY | NORTHEASTERN UNIVERSITY

Selected By

EO | eit | step CONFERENCE | IIM KOZHIKODE LIVE LABORATORY FOR INNOVATION VENTURING AND ENTREPRENEURSHIP | TIDE 2.0 Technology Incubation and Development of Entrepreneurs

Incubated At

NEXUS Startup Hub @ ACND | AMERICANCENTER | UNITED STATES OF AMERICA EMBASSY

OUR TEAM

CO-FOUNDER
NIMISHA VARMA

Research and Product Development Strategic Planner

CO-FOUNDER
NAVEEN SUMAN

Creative & Technical Development Market Analyst

ERIK AZULAY
(Technology & Commercialization)

VIKAS SOOD
(Marketing & Sales)

Rahul Singh
(Strategy Planning & Community Connects)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QUARTZ