SOLAR LAJJA

"Social Innovations for a better Life"

World's First Solar Powered Sanitary Pad Incinerator

SolarLajja For Swachh Bharat



FOR HER

Putting Women at the centre of sanitation and hygiene

Smart Sanitation by

DR.YUVRAJ KAGINKAR & DR.MADHURITA GUPTA

ARNAV GREENTECH INNOVATIONS PVT LTD

OUR TEAM

Seasoned Social Innovators AWARDS

- TOP 10 INNOVATION IN HEALTHCARE CHOSEN BY HIGH COMMISSION SINGAPORE FOR INSPRENEUER 3.0
- 100 TOP INNOVATION BY MAHARSHTRA STATE INNOVATION SOCIETY



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SOCIAL INNOVATIONS AWARDED BY TATA TRUSTS & RELIANCE FOUNDATION





INDIA – SINGAPORE NEXT PHASE INNOVATION SUMMIT

Top 10 Innovation by AIC –IIT –BHU for Inspreneuer 3.0

Top 100 Innovations by Maharashtra State Innovation Society

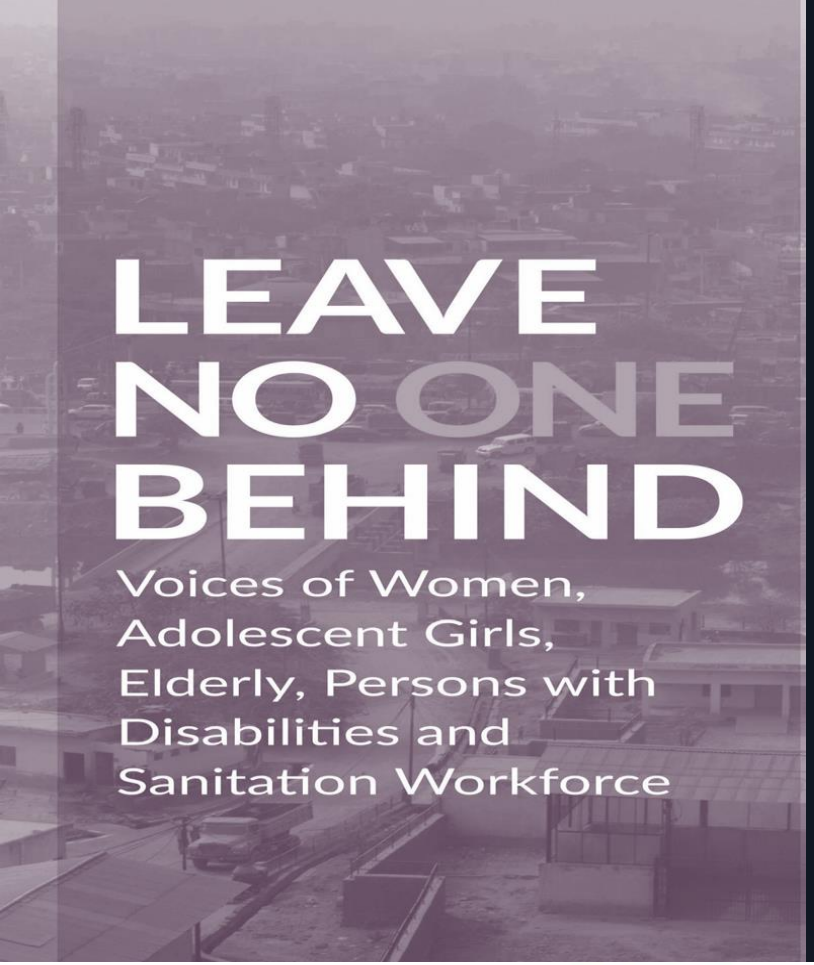
NITI – AYOG , ATAL INNOVATION MISSION , NIF



India - Singapore Next Phase - Entrepreneur Exchange Program by ATAL INNOVATION MISSION







ABOUT US

ARNAV GREENTECH INNOVATIONS PVT LTD is a Social Innovation centric company and is well known to create Unique Sustainable Technological Solutions for Urban Livability & to transform lives of Women in Rural India

- Solarlajja is World's First Solar Powered Sanitary Pad Incinerator. This product is the Simplest Smart Solution to sanitary waste management problem in India

- Solarlajja's groundbreaking Patent Pending - Quick Burn Solar-Therm technology that allows industrial level incineration of 800 degree Celsius to be safe and easy to use by any one.

"The Power to write a better future"

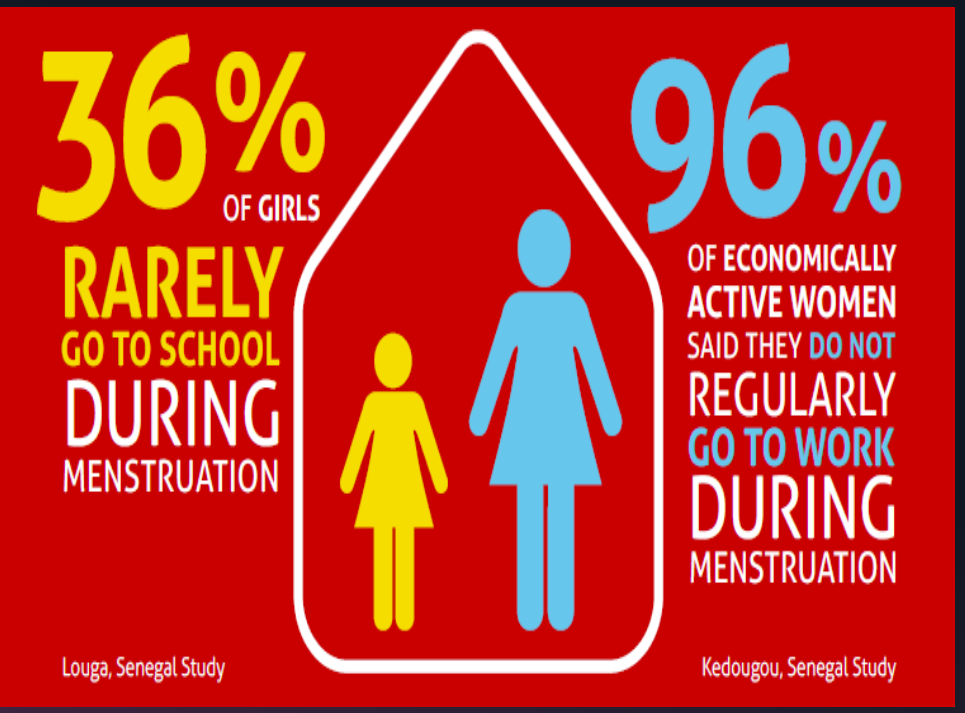


power to empower

- Selected as 100 Top Social Innovation by Maharashtra State Innovation Society
- Selected by AIM- AIC –IIT –BHU for India- Singapore Next Phase 2019

PROBLEM

Reasons for Poor Menstrual Hygiene in India



- · 336 million menstruating women
- · 36% Uses Sanitary Napkins
- · **121 million** Women using Sanitary Napkins
- · Average Number of Napkin being used per cycle of menstruation – 10 Pads (Approximate)
- · Average Number of Menstrual Cycle per Year: 14
- · **12 billion pads** (approximately) disposed monthly, majority of which are **not biodegradable**
- · **63 %** girls do **not change** their **absorbent** in school due to lack of disposal facility
- · Adding to the above facts are some of our Socio-Cultural practices & believes, making it more difficult to ensure Hygienic disposal of these Soiled Napkins
- · In some areas the sight of menstrual blood is considered inauspicious.
- · Some girls and women may buries their used absorbent in an attempt to remove all traces of menstrual blood
- · In some culture Girls are not allowed to use available sanitation facilities during menstruation

VALUE PROPOSITION : SOLUTION
STANDALONE DESIGN & MODULAR DESIGN

- Sanitary Napkin Dispensing facility with each disposal as a perk for Smart Disposal to create awareness
- Audio Visual – Player attached with innovation for Education & Awareness on Menstrual Hygiene Management in regional languages
- Auto Burn: Automatically triggers a burn cycle, factoring Date & Capacity
- Smart capacity detection: Survey calculated Capacity for best power to burn ratio
- Anti-odor System: "Anti-odor system" deodorizes the waste for confidant system
- Smart algorithm Controlled Burn: Using an array of sensors , Solarlajja controls the burn environment for maximum efficiency.
- Energy Saving: "Patent Pending" INSTA-MATIC Technology creates efficient Burn
- "Quick Link App"
- Clean & Discreet
- Zero: Electricity Bill/ Cycle / Yes: Empty Sensor // 5: Time settings
- Yes: Weekend Settings



MODULAR DESIGN OF SOLAR LAJJA FOR INDOOR TOILETS

MODULAR DESIGN: (Main Unit + Solar Panel)This product design format is typically engineered for the INDOOR APPLICATIONS where the machine will be installed inside Girls Toilets, Changing Rooms & Female Washrooms of Girls School, Shopping Malls, Hotels & Corporate Offices. In this design the machine format the Main Incineration Unit will NOT require Direct sunlight; but instead the de-attachable solar panels will be installed in a suitable place of direct sunlight access like rooftop, side walls, where the sunshine will fall over Solar Panels and wires will be connected from Solar Panel to the Main Incinerator Unit and subsequently it will power the Machine Unit. In this design format it requires some easy local level product installation & assembly



CUSTOMERS FOR SOLAR LAJJA

- *Government Sector*
- *Hostels/ Resorts / Tourist*
- *Girls school & colleges*
- *Airports, Railway & Bus station*
- *Public Toilets*
- *Hospitals / Primary Health Care Centres*
- *Waiting / Rest rooms*
- *Shopping mall & complexes*
- *Spinning mills, factories*
- *Offices IT companies them parks.*
- *Housing Societies*
- *Movie malls*
- *Women Hostels.*
- *Villages*
- *Panchayat Samitis*

SOLAR LAJJA –Transforming Lives of Women from Marginalized Communities in Tribal Hamlets of Maharashtra , Urban & Slum Areas




SOLAR - LAJJA
SOLAR POWERED
Solar Lajja


SWACHH BHARAT MISSION
SOLAR - LAJJA
SOLAR POWERED
for her
Sustainable solutions for menstrual waste management
Incinerates 600 Pads/Day
No running cost
Portable device
Solar powered standalone machine for hostels, hotels, colleges, malls, rest room, housing societies, public places, etc.
Solar Lajja


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Solar Lajja

The Simplest Solution

QUICK TIP

Sanitary Napkins take 500 years to decompose and can swell up 20 times their size when flushed.

At any given moment...

There are 3 times more women on their periods then with a baby to care for yet we have baby care products only. Sanitary napkins provide personal hygiene to women and is not a luxury. It's time we made napkins easier to dispose of and simpler to deal with.

Welcome to Smart Sanitation For Women !!

Introduction

SOLAR LAJJA : Smart Solar Incinerators

QUICK TIP

Sanitary Napkins take 500 years to decompose and can swell up 20 times their size when flushed.

Performance

Just
15
min



Before the machine can even come on it will do several checks to see if all is a GO.

One of which is to check the door. If the door is kept open for whatever reason the machine will not start a burn cycle.

Why do you need it ?

If an incinerator comes on with its door open you can expect to find the entire location engulfed in smoke.

TREY Research

Product Design - SOLARLAJJA

ZERO ELECTRICITY TECH

Odor Free



It comes with automatic odor system which will never emit foul odor

Auto Fill Sensors



Will never be over filled to its capacity sensor.

Artificial Intelligence



Smart Waste Disposal Method

Rapid Burn Tech



Takes 2 Min to dispose the Pads & Diapers

Marketing Channel

Customer and Consumer

- GOVERNMENT AGENCIES
- PRIVATE SECTOR
- COOPERATIVE SOCIETIES
- PHC

Competitors

None

Target Market Size

36% Women Population of India

Competitive advantage of your technology with respect to existing products.

- Presently there is No Solar Sanitary Pad Incinerator Provider in India . We are the pioneers in India.

UNIQUE SELLING PROPOSITION

- **RUNS WITHOUT GRID ELECTRICITY**
- **CAN BE INSTALLED ANYWHERE IN OPEN AREAS**
- **LOW IN MAINTENANCE**
- **CONVERTS SANITARY WASTE / BIOMEDICAL WASTE INTO ASHES IN LESS THAN 2 MIN**
- **EASY TO INSTALL WITH MODULAR & STANDALONE DESIGN**

Revenue stream

SolarLajja is the ultimate solution to destroy the sanitary napkins in hygienic way.

Cost : 43,000/- + GST



What value or price point are customers really willing to pay for your solution? 43000 + GST

Is there a fixed cost to the customer at the time of buying the solution? YES

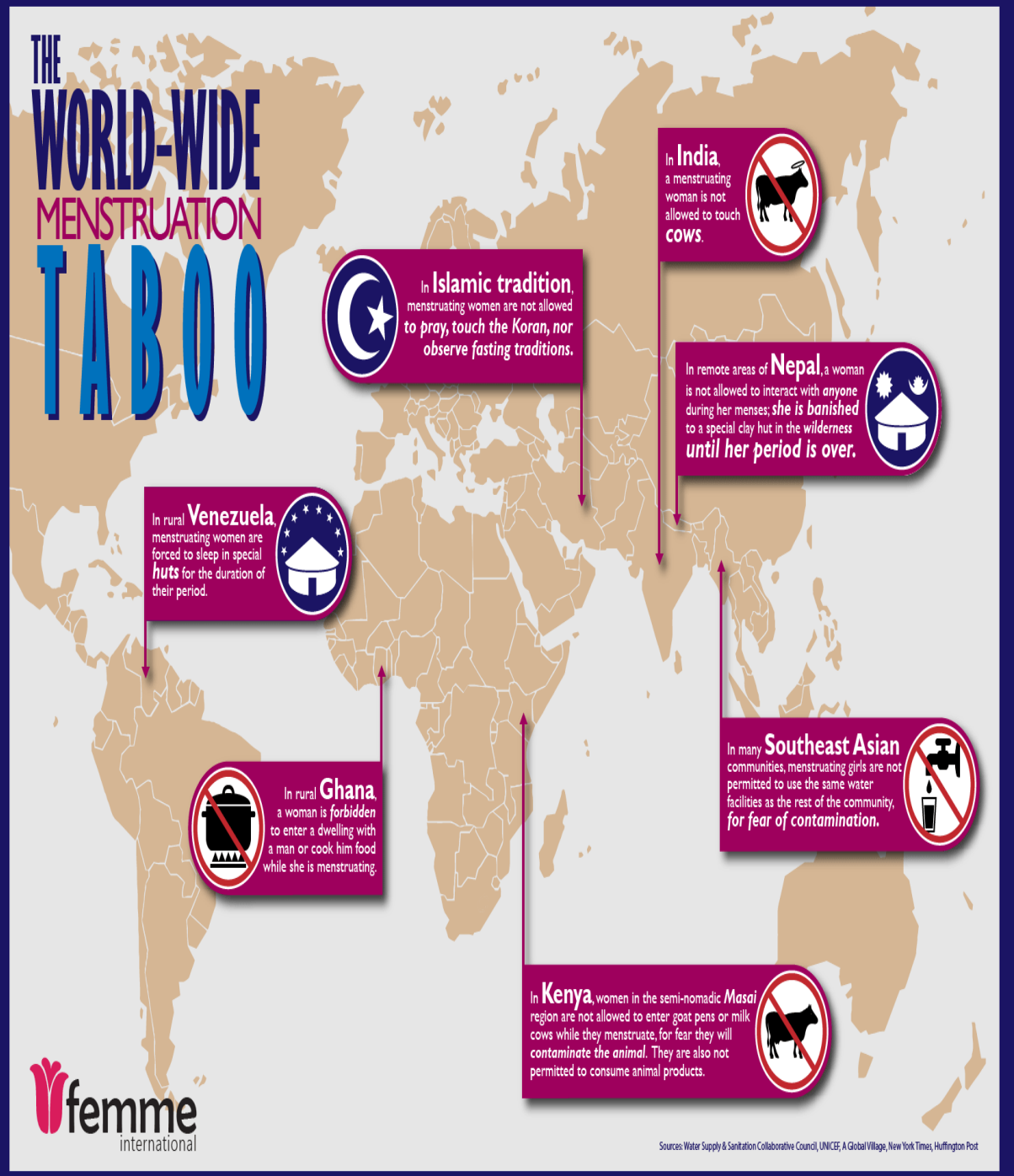
Is there a recurring cost (monthly / yearly subscription) fee to your solution? NO RECURRING COST BUT PMC AVAILABLE

What do they currently pay? How are they currently paying? How would they prefer to pay? DIRECTLY BY CASH / CARD OR UNDER CSR

Market Viable Product

Helping India to be the Best country for Adapting to SMART SOLUTIONS FOR WASTE DISPOSAL & WOMEN HELATHCARE HYGIENE

- **1,06,527** *Government Schools*
- **12,282** *Government Colleges*
- **26,879** *Secondary Schools*
- **17,632** *Government PHC*
- **2,709** *Government Girls Hostel*
- **27** *Municipal Corporations*



SMART SOCIAL INVENTIONS

WE INVENTED – THE IDEA OF SMART SANITATION !!

WHY IT IS NEEDED

With Sanitary Napkins, we also need to give solution to dispose these sanitary napkins. For that following things are needed to understand

Current Disposal Methods All over the world, the disposal of the used Sanitary Napkins has been a very general problem. Particularly in India, the used • Sanitary napkins are mixed with regular waste • Napkins are thrown to bathroom dustbins as it leads to embarrassing visuals and smells • used napkins are flushed into the Drain

EFFECTS OF UNHYGIENIC DISPOSAL METHODS

Sanitary napkins are mixed with regular waste and it's difficult to segregate them and dispose them off. • The Flushing in Drain results Clogging in Drain. The Drainage Line Chock-ups or Plumbing Line Blocking Problems occurs and

• Throwing in Dustbins results Health related Problems due to harmful matter in the used Sanitary napkins. • This exposes these viral borne wastes to the environment, animals and public at large causing diseases like Hepatitis B and C.

• It exposes waste pickers to disease-causing microorganisms 1. - E coli, 2. - Salmonella, 3. - Staphylococcus, HIV and 4. - Pathogens that cause hepatitis and tetanus

THANK YOU!

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