

Sustainable & Economical Solution For Waste / Wastewater Treatment

Industry : Cleantech

Sub sector : Clean & Renewable Energy

Dr. Vanita Prasad
Founder and CTO



REVV Environmental Solutions Pvt. Ltd.
Committed for a Greener Earth!

OUR VISION

Make Mother Earth Greener and Cleaner

OUR MISSION

To provide **scientifically proven** products and services for end-to-end **microbial health management**, enabling **optimized** organic **waste/wastewater treatment** along with **renewable energy** generation

Team and Advisors



Dr. Vanita Prasad
Director & CTO

- Exp - 28 Yrs
- Innovator
- WM R & D
- Patents in Renewable energy



Rajneesh Prasad
Director & CEO

- Exp – 28 Yrs
- Product Launch
- Strategic Planning
- Dom.& International Marketing



Bhavik Kathrani
Director & CFO

- Exp - 23 Yrs
- Finance
- Accounting
- Taxation & Audits

MENTORS

Dr. Sandeep Garg,
Prof & Head (Micro),
Goa University

- Microbiologist
- >25 Yrs Exp
- Bioremediation of Waste



Mr. Deep Modi,
CEO & MD, Environponics

- Environmental Engineer
- >28 Yrs Exp
- EPC of Anaerobic ETP & STP



SUPPORTED BY



Who we are

Pioneers of converting waste to energy



VISION - To Make Mother Earth More Cleaner and Greener

MISSION - To Provide Scientifically proven Optimized Product & Services enabling Improved Waste Water Treatment / Organic Waste Management along with Energy Recovery

Why

India's rapid economic development and population growth, inadequate infrastructure and expertise and land scarcity has turned the management of municipal solid – liquid waste into one of most critical environmental issues. India's quest for energy security and sustainable development rests a great deal on the ability to tap energy from the renewable sources. However, any expensive solution to treat waste or waste water is not an ideal solution for developing country like India.

What

REVY Environmental Solutions has answers to all that take place in every step of the waste management and has proven competency in transforming waste into re-usable resources. Waste treatment and bio-methane production through Anaerobic Digestion (AD) process is our core area of expertise. We do provide Bio-cultures to enhance aeration unit of ETPs for Industrial Waste containing High Phenol and High TDS. Treatability Studies on waste water from Dairy, Vegetable market waste, Kitchen waste, also on most complex Paper mills, Pharmaceutical, Fertilizer, Dye and Dye Intermediates, Distilleries and Petrochemicals industries adopting pre-treatment, advanced anaerobic treatment, aerobic and tertiary treatment methods.

How

Industries and Municipal corporation, eg: Food & Beverages industries who needs to treat their waste/wastewater are supplied with REVY's innovative Bacterial Consortia called REVY-S. This particular consortium aids in effective treatment of waste/wastewater in an economical way unlike other anaerobic cultures. REVY S also provides 50% more biogas and 60% more savings along with 100% recovery of process water.

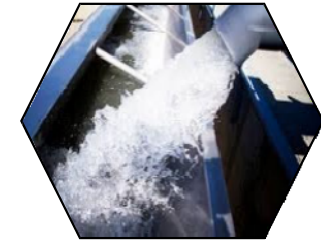
Problem



70 % Untreated Sewage



40 % Effluent



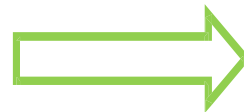
62 MT/Yr OFMSW



0.12 MT/day Fecal sludge

225 MW from sewage
1500 MW from OFMSW
1300 MW from industrial waste
3600 MW from faecal sludge

Waste to Energy Potential



Source for meeting our Country's increasing energy demands



Solution



WHY

India's quest for energy security and sustainable development rests a great deal on the ability to tap energy from the renewable sources.

- The management of waste/wastewater is most critical environmental issues.
- Expensive solution to treat waste/wastewater is not an ideal solution.

WHAT

- REVY-S - "Designer Bio-culture" combinations of 650 different microbes - A software for commissioning/re-commissioning of existing under performing anaerobic reactors
- REVY's 'Biomass Growth Enhancement Formulations (BGEF)' - a nutritional supplement for maintaining the health of the microbes.
- REVY's customized app, R-EMAPP for evaluation and maintenance of the plant.

HOW

- REVY consortium aids in effective treatment of waste/wastewater in an economical way unlike other anaerobic cultures.
- REVY S also provides 50% more biogas
- REVY S provides 60% more savings
- Utilizing REVY S, 100% recovery of process water is feasible.

- REVY intends to scale up from its pilot plant of 20 m³ to 200 m³ for bulk production and supplies.
- REVY product is suitable for both Government and Industrial ETP's, STP's, FSTP's and Biogas plants.

Products / Services



REVY PRODUCTS

Bioculture Product

Microbial Cultures: Inoculum For Quick Commissioning or Re-commissioning of new or existing organic waste and wastewater treatment plants



REVY-S*
**Patented*

REVY-ANB

REVY-AER

Nutritional Formulation Product

Stabilize & Enhance Plant Operations With Biomass Growth Enhancement Formulations: Nutrients on need-basis for healthy microbes, enabling reliable, efficient ongoing/existing waste treatment operations



Activator

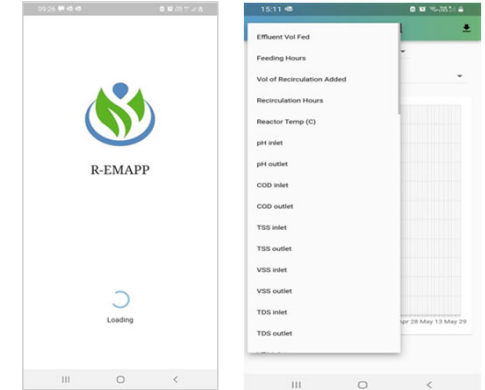
Enhancer

Stabilizer

REVY SERVICE

Remote Monitoring & Consultancy Service R-EMAPP

- Tracks microbial health and plant performance
 - Digital early warnings
 - Suggests nutrient dosages



Unique Selling Proposition

Significant Cost Saving

25 % Cost saving
 10X Loading Rate
 1.5X Pollutant Reduction



Total Circular Economy

Waste to Resource Conversion
Linear to Circular Economy
 Employment Generation



Re-usable Water

Improved waste water Treatment
Treated Water Fit for Irrigation
 Nutritional Values intact



Enhanced Bio Energy

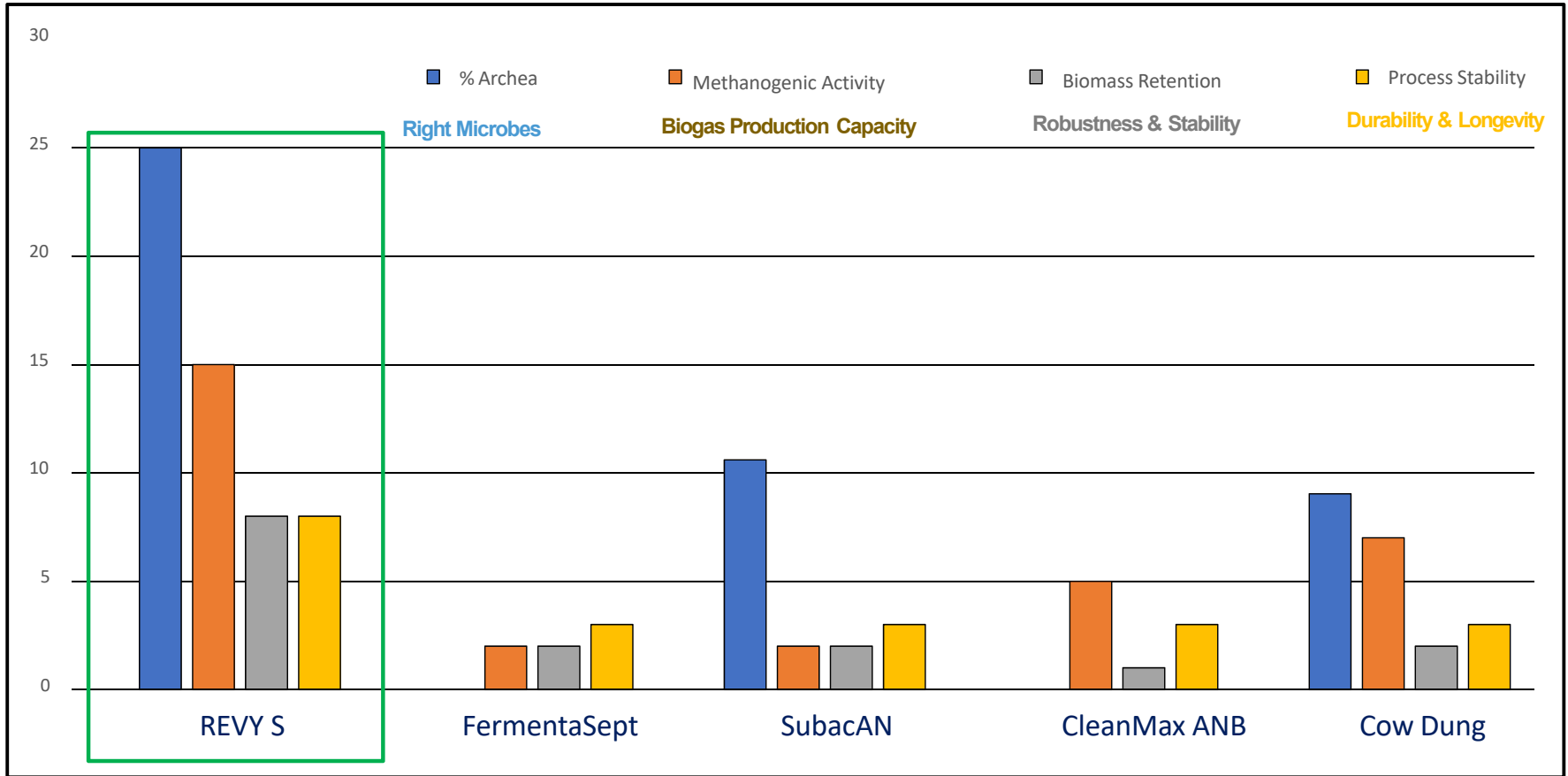
Reliable Bio-Energy
2X Biogas Yield
 Co-digestion of Sewage & OFMSW

Reduced GHG Emission

Energy Efficient Solution
6X Reduction in CO₂ Emissions
 Very Low Sludge Generation.



Competitive Matrix



Market Opportunity



- WWT Market – Global
- Food & Beverages
 - Dairy
 - Textile
 - Petrochemicals
 - Dye & Dye intermediates



- WWT Market - India
- Food & Beverages
 - Dairy



- Specialized Biomass - India
- Food & Beverages

Supported by



Customer Persona & Business Model



Profile

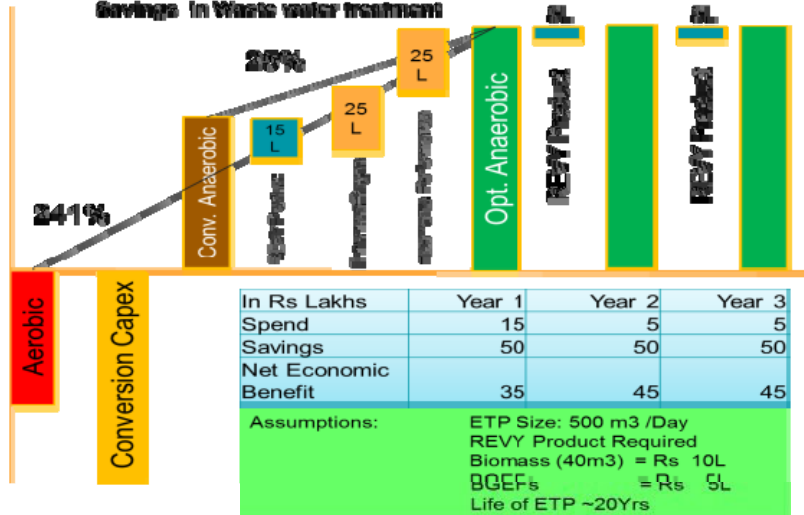
- F & B Manufacturing Unit
- Generates ~ 5000m3 waste water /day
- Underperforming ETP/ UASB Reactor

Pain points

- Unable to run Mother Plant on full load
- Wastage of Raw Material (F&B sector - perishable raw material)
- Loss of Revenue & Market share
- Closure notice from GPCB

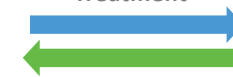
Commercial Potential

Economic Return for Clients Savings in Waste water treatment



REVY Products

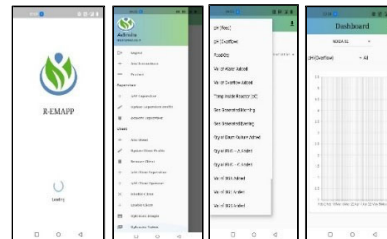
Microbial Consortia & BGEF
For Waste/Wastewater
Treatment



Rs 50000 / m3



Food Industry ETPs



App – R-EMAPP

Target Segment / Customer



Sewage Treatment
Plants



F & B



Fabric



Chemical



Biogas Plants

Progress So far...



Scale Up Plan



Commercialization

- Product: REVY ANB & BGEF
- Market Focus: Gujarat
- Segment: F & B industries
- Licensing & Royalties

2022-23

TRL8



Gain Market Traction

- Product: REVY ANB, REVY-S & BGEF, Specialized Consortia
- Market Focus: All India,
- Segment: F & B industries, Dairy Textile, Chemical Ind.

2024-25

TRL9

Tapping International Opportunities

- Product: REVY ANB, REVY-S & BGEF, Specialized Consortia
- Our own offshore bases
- International JV
- Tech Transfer

2026-27

TRL9



Manufacturing Plant Set Up



2023-24

Domestic Expansion

- Product: REVY ANB, REVY-S & BGEF
- Market Focus: West India
- Segment: F & B industries, Dairy

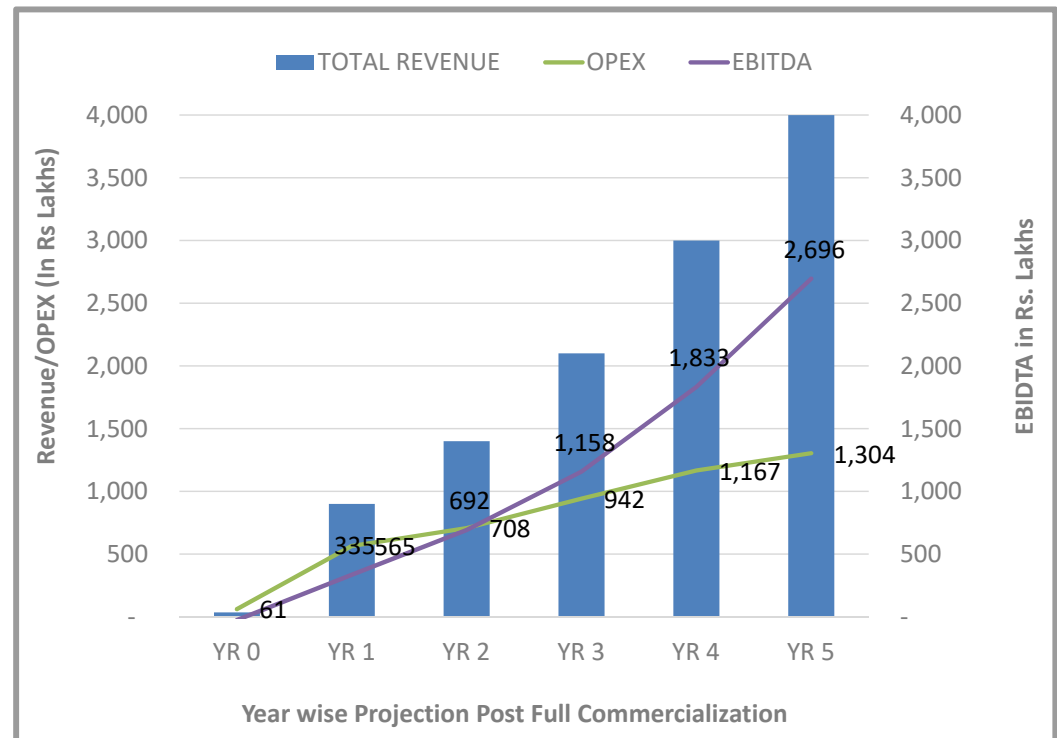
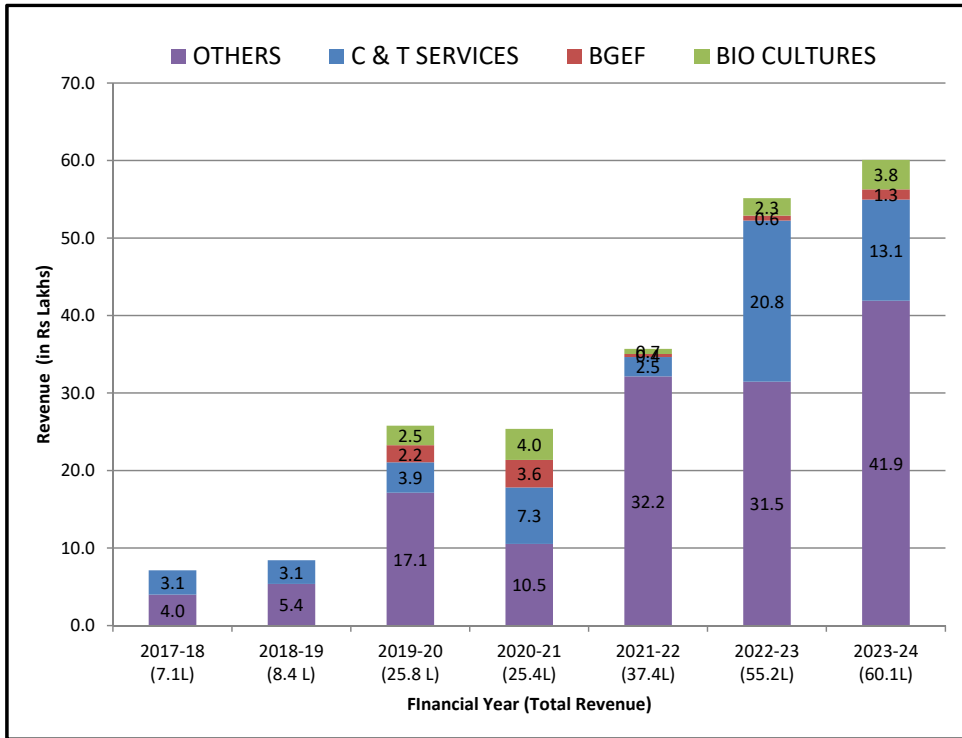
2025-26

Create Strategic Alliances

- Product: REVY ANB, REVY-S & BGEF, Specialized Consortia
- Segment: F & B industries, Dairy Textile, Chemical IndPetrochemicals, STPs



Revenue Model & Projection



Awards & Accolades



“India – Israel Innovation Challenge”



“BIRAC-TiE WiNner Award”



“Awardee AMRUT 2.0”



“National Start-ups Awards Winner”



“Smart Fifty ideas”



“DBT: Success Story Award”



“Gita Awards Winner”



“BRICS Mulan Award”



“WBA 2023”



“Sankalp Forum”



Media Coverage

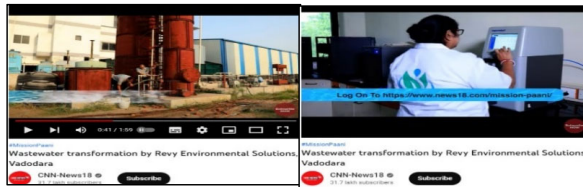


“National Start-ups Awards



Telecast Recording in Hindi: <https://www.youtube.com/watch?v=Vt600OigQ1Y>
 Telecast Recording in English: <https://www.youtube.com/watch?v=tkshAoScIjM>

“Broadcasted on DD National”



Broadcasted by CNN News 18.
<https://www.youtube.com/watch?v=CRxaA0I2Oow>

“Brics 2022, Womens Innovation Awards”



<http://bricswomen.com/en/results-contest>
<https://news.cgtn.com/news/2022-06-21/VHJhbnNjmlwdDY2NDIw/index.html>

प्रवाह **अमरउजाला**
 23 दिवसीय • बुधवार, 23 फरवरी 2017
नज़िलें और भी हैं
 >> **वाणिज्य प्रसार**
कचरे से बनने वाली बिजली बदल देगी जिंदगी

मैं कचरा पर्व नहीं हूँ, मैं अत्यंत सफल होने पर नाराज़ नहीं हूँ। यह बात 1980 के दशक के शुरूआती वर्षों की है, जब अखिलेश भस्तीजी ने सीटी बोलना था। काम कर रहे थे। दिल्ली विश्व अर्थशास्त्र विद्यापीठ के अर्थशास्त्र विभाग के अध्यक्ष (एडमिन) के रूप में। कचरे से बनने वाली बिजली बदल देगी जिंदगी। कचरे से बनने वाली बिजली बदल देगी जिंदगी। कचरे से बनने वाली बिजली बदल देगी जिंदगी।

हम जैसे बायोमैस पर काम कर रहे हैं, जिससे कचरे का पूरी तरह से प्रबंधन हो जाए।

Success Stories: Her Story Her Way

Baroda-based startup REVV Environmental Solutions Private Ltd. (REVV) has been selected as one of the winners of the Her Story Her Way award. The award is given to women entrepreneurs who have made significant contributions to their respective industries.

WIL Program Contact us Support

https://iwilindia.com/home/story_detail/134

HERSTORY

WOMAN ENTREPRENEUR

This woman entrepreneur wants to solve India's water crisis with her wastewater treatment solution

By **Teslin Noram**
 July 14, 2020. Updated on: Tue Apr 20 2021 15:59:56 GMT+0530

Baroda-based startup REVV Environmental solutions, founded by Vanita Prasad in 2017, provides low-cost wastewater treatment solutions, which also generates electricity.

<https://yourstory.com/herstory/2020/07/woman-entrepreneur-india-waste-water-management>

बैक्टेरिया और जैविक वेस्ट रासायनिक चीत हूट करे

मिथेनोबन्स बैक्टेरिया, माइक्रोऑर्गेनिज्म टोमथ स्पेसिफिक ट्रेटमेंटस मिश्रणाला डेवलपमेंटनी तैयार करी विकसायवामा आवेदी लवी पद्धतिशी प्वाल्नले वुट्टे व शबु करी शकय छे. ऑर्गेनिक वेस्ट थलो होब तेवी उदेी. इट डे प्वाल्स मेन्सु डैकटिडि कपनीओसे ओइटीपी प्वाल्नटे तैयार क वयामा सानो समक शब छे. सा कशरो प्रोडक्शन लोस नय छे. प्रोडक्शन शरु कर वयामा मिथेन गैस ते हेवुवी गूज रात स्टेट वायोटेकनोलोवु मिशलना इन्सुलेटेडमा के वनिता प्रसाद द्वारा टैकनोलोवु तैयार क वयामा आवेदी छे. नगरोनी इन्वेष्ट शिस्टम टोमथ एन्डस्ट्रीना ऑर्गेनिक वेस्टने प्रोसेस करीने शुद्ध पानी परत मेवानी शकय छे. सा पानीमे ऑर्गनिक प्वाल्स प्रोसेसमा विपबोयमा लव शकय छे. सा टैकनोलोवुमा वायोगेस लनवी शकय छे. वायोगेसना लवणतयामा विपबोय करी शकय छे. **रखनीस प्रसाद** भय करवा छाता गूज आर्बिड चीने पर व प्री शके.

WIRE

How An Environmental Biotechnologist is Turning Waste Into Wealth

With the help of a government grant, Vanita Prasad, a scientist-turned-entrepreneur from Baroda, is developing an innovative solution to the mammoth problem of waste management in India.

<https://thewire.in/science/environmental-biotechnologist-turning-waste-wealth>

Highest Honor

The President with People, Hon'ble President of India, Smt. Droupadi Murmu's interaction opportunity



On the occasion of Republic Day

The President of Bharat

requests the pleasure of the company of

MR. RAJNEESH PRASAD

to

'At-Home' Reception

at Rashtrapati Bhavan, New Delhi

on Friday, January 26, 2024 at 1600 hrs.

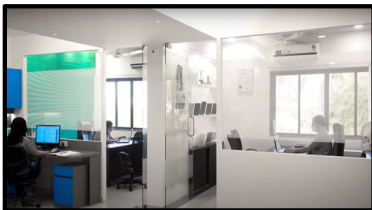
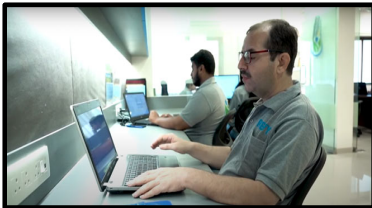
R.S.V.P. Tel : 23012960, 230188345, 23015321 Extn. 4229
e-mail:- invtaion@rb.nic.in

Dress : Formal/Winter Ceremonial Dress

REVY Setup



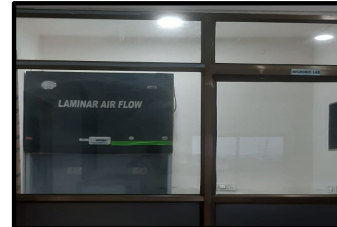
Poc Lab @ STBI



Registered Office



R & D Facility



R & D Labs



Pilot plant



**LET'S GIFT THEM ...
THEIR TOMORROW !**



Contact

REVY Environmental Solutions Pvt. Ltd.
313-314, Siddharth Upscale, Vasna Road
Vadodara, GJ- 390007, India
www.revy.co.in
mail@revy.co.in
[@revyenvironment](https://www.instagram.com/revyenvironment)

Thank You !