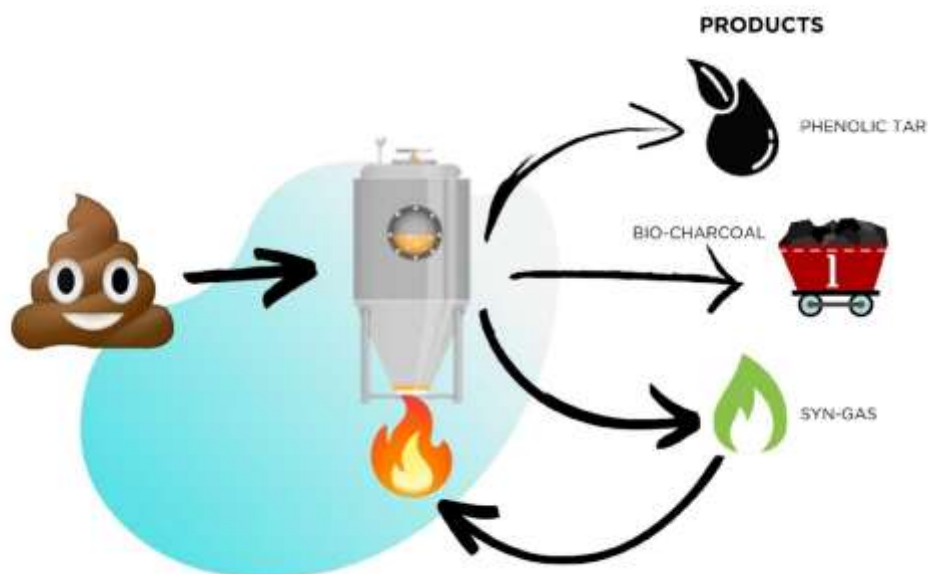


Name of startup - WETCOAL

Founders Name – Dr Devanshi Soni, Anchal Shah

Industry/Category/Sector – Clean Tech - Environmental Engineering

Brief about the startup - The conversion of liquid sewage sludge into solid charcoal presents an innovative and sustainable solution to the growing sewage sludge management problem. Through a process such as pyrolysis or hydrothermal carbonization, the organic components of sewage sludge are thermally decomposed in the absence of oxygen, resulting in the formation of charcoal. This charcoal holds immense potential for multiple applications—it can serve as a renewable fuel source, a soil amendment to improve agricultural productivity, or a biosorbent for removing pollutants from water and air. Additionally, it can be further processed into activated carbon, widely used in water purification, air filtration, and industrial processes. This approach not only reduces the environmental impact of sewage waste disposal but also creates value-added products, supporting circular economy practices. By transforming waste into a resource, this technology addresses both waste management and sustainability challenges in urban infrastructure and environmental conservation.



The startup has received **INR 5,83,000/- fund support** from the University. The support for the co-production space also provided by the University to the startups.

Output of the startup: Till date the ideation is converted to the prototype to MVP. The use of the startup Idea is to develop a clean technology with Carbon footprint impact where the human waste can be managed as coal or fertilizer as output. Additionally, the startup was recognised by CM Sir Shri Bhupendra Patel too.

LET'S TOGETHER, TRANSFORMING

WASTE INTO SUSTAINABILITY

Join us to understanding the critical processes involved in waste treatment & their significant impact on our environment. Let's together work for world implementing sustainable waste management practices that benefit all.



WETCOAL

WASTE INTO RESOURCE

Transforming Waste Management with Aqua
Phase Reforming (APR)

Innovative Solutions For A Greener Planet
Transforming Sewage Sludge Into Valuable Resources Like
Clean Fuel And Better Soil.

A Step Towards A Sustainable, Eco-friendly World.

WETCOAL ||

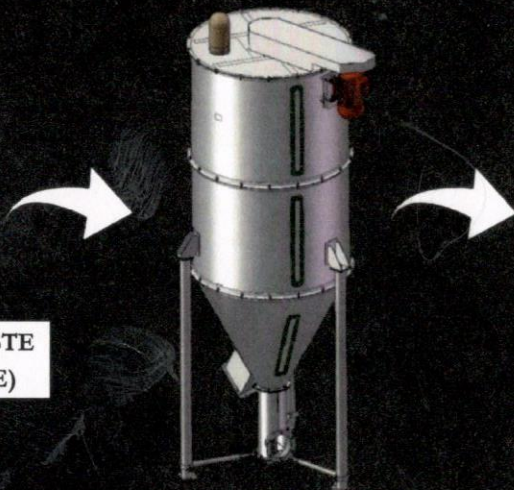
We specialize in efficient and eco-friendly waste treatment, producing biofuels and green energy. our mission is to contribute to a cleaner and more prosperous energy future, benefit both the environment and the economy

WHAT WE SOLVED ? ||

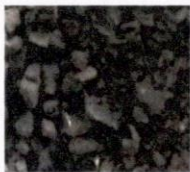
Reducing greenhouse gas emissions by converting biomass into a carbonrich fuel. Reducing the amount of waste sent to landfills by converting it into a valuable resources.



WET BIO-MASS WASTE
(SEWAGE SLUDGE)



AQUA PHASE REFORMING
PROCESS



BIO-COAL

WHAT WASTE WE TREATED ? ||

SEWAGE SLUDGE

Semi-solid Waste Product generated as a residual during the biological treatment of the waste water.

DIGESTED WASTE

Solid & Liquid Material that remains after the digestion process.

USP OF APR TECHNOLOGY ||

- Technology Differential
- Fast processing, use less Space
- Eco friendly (No Harmful Gas Emissions)
- Adjust with other exiting processes
- Total waste management



WHY IT MATTERS TO YOU ? ||

FOR THE ENVIRONMENT

Reduces landfill waste & harmful emissions, helps fight climate change with cleannern energy solution.

FOR COMMUNITIES

Supports sustainable farming practices creates opportunity for green jobs & education.

| SERVICES |

Sustainable Biomass Solutions
Value-Added Product Development
Eco-Credentials Services



WETCOAL

WASTE INTO RESOURCE

✉ info.wetcoal@gmail.com

🌐 www.wetcoal.in

☎ : +91 78028 69411

Meet WETCOAL

At WETCOAL, waste isn't a problem—it's potential.

We transform biodegradable and non-biodegradable waste into valuable resources through innovative, sustainable technology. Our mission: reduce waste, create value, and build a cleaner future.

In India's Waste Generation (2024–2025)

1. Biodegradable Waste



- **Volume:** Approximately 90,000–100,000 tons per day.
- **Composition:** Food scraps, garden waste, agricultural residues, paper, sewage sludge and other organic materials.

2. Non-Biodegradable Waste



- **Volume:** Approximately 60,000–70,000 tons per day.
- India generates about 26,000 tons of plastic waste daily, with only 8% being recycled.

WHY WETCOAL?

- Technology Differentiators.
- All waste solution under one roof.
- with minimum energy consumptions .
- Fast processing Eco-Friendly.
- maximum utilization of green energy for cleaner environment.
- complete waste management.
- An IoT-driven MSW transport management system for smarter, cleaner rural and urban regions.
- We offer expert technology, engineering, and consultancy services for innovative waste management.

♻️ WETCOAL's Waste-to-Value Solutions

1. Biodegradable Waste

- Converted waste into bio coal/pellets + soil amendment.

2. Plastic Waste

- Processed and Converted into paver block, plastic bricks etc..

🌱 Our Sustainable Outputs

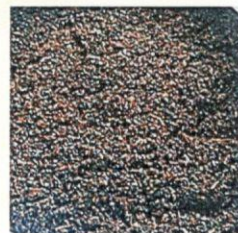


Eco Coal

Clean-burning bio coal

SoilGro

Nutrient-rich
soil amendment
-Soil enrichment



PlastiBrick

Durable construction paver
block & bricks

🌟 Our Ask: A Chance to Serve Humanity Sustainably

We seek the opportunity to scale our impact by deploying cutting-edge, sustainable waste management technology.

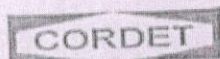
To continue transforming waste into value, we need:

- Access to waste materials (biodegradable & plastic)
- Processing space/infrastructure to set up our technology

With the right support, we aim to serve both the planet and the people—turning today's waste into tomorrow's solutions.



Soil Testing Laboratory



CO – OPERATIVE RURAL DEVELOPMENT TRUST
C/O, IFFCO Kalol Unit, P.O. – Kasturinagar – 382423, Dist.- G.Nagar (N.G.)

SOIL TESTING LABORATORY

Date – 23.04.2026

To
Ms. Devanshi Soni
Student of Homoeopathic
Department of Homoeopathic
Swarnim Startup & Innovation University – Bhoyan Rathod, Opposite Iffco,
Adalaj Kalol Highway, Gandhinagar, Gujarat - 382422

Soil sample analysis result

Sr.No.	Name of Element	Unit	Sample ID		
			Sample- 1	Sample-2	Sample-3
1	PH	Direct	6.3	5.9	6.6
2	Electrical Conductivity	(milli.moh/cm)	3.0	5.10	3.10
3	Org. – C	In %	4.5	4.95	5.4
4	Organic Matter	In %	7.758	8.533	9.309
5	Nitrogen	In %	0.38	0.42	0.46
6	Phosphorus	Microgram / gram	18.14	22.03	12.96
7	Potash	Microgram / gram	120	95	90
8	Copper	mg/kg	39.84	40.08	12.24
9	Zinc	mg/kg	13.95	13.32	14.31
10	Manganese	mg/kg	1.22	28.62	154.68
11	Iron	mg/kg	120.25	108.33	120.75
12	Boron	mg/kg	1.55	1.75	1.60
13	Sulphur	mg/kg	567	466	810



Analysis Report of Sludge Samples
Bio Science Research Centre
S. D. Agricultural University
Sardarkrushinagar-385 506
Dist: Banaskantha

Dr. S. R. Vyas
Head of Unit

E-mail: bsrc@sdau.edu.in
Mo- 9106274642

No.: SDAU/BSRC/SWPL/1433/2025

Date : 07-04-2025

To,
Incubation Manager,
Swarnim Incubation Centre,
Swarnim Startup & Innovation University,
Bhoyan Rathod, Opp. IFFCO,
Near ONGC WSS, Adalaj Kalol Highway
Gandhinagar - 382 422 (Gujarat)

Subject:- Analysis report of sludge samples....
Reference:- Your letter dated 24.03.2025

With reference to above subject and reference, we analyze the sludge Samples provided by Ms. Devanshi Soni, student of Homeopathic Department for her startups project 'Wetcoal' operating in Swarnim Startup and Innovation University, Gandhinagar. The results of analysis are as under.

Parameters	Detail of samples		
	New STP Sludge	Old STP Sludge	155 STP Sludge
pH (1:10)	6.32	6.41	6.06
EC (1:10) (dS/m)	2.15	2.10	4.40
Organic Carbon (%)	9.648	5.380	12.059
Total Nitrogen (%)	1.103	0.971	2.941
Total Phosphorus (%)	0.502	0.597	1.330
Total Potassium (%)	0.262	0.215	0.160
Total Sulphur (%)	0.913	0.332	1.942
Total Iron (ppm)	19874.3	19480.3	31739.3
Total Manganese (ppm)	331.3	321.8	289.8
Total Zinc (ppm)	857.3	868.8	825.3
Total Copper (ppm)	773.8	960.3	1678.8

Note: This analysis report is represent only the sample supplied by you and it for own purpose. This report cannot be used for legal purpose

Head of Unit
Bio Science Research Centre
S. D. Agricultural University
Sardarkrushinagar