

Startup Profile Summary

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Startup Details-1			
Name	EARTHSAATHI PRIVATE LIMITED	Email	shauryamohan22@gmail.com
DPIIT Recognition Number	DIPP193711	Upload DIPP Certificate	Yes
Registered name of startup	EarthSaathi Private Limited	Startup Logo	Yes
Mobile No.	8291530384	Stage	Prototype
Brief on the business concept			
EarthSaathi is a climate-tech startup focused on making carbon capture and biogas upgrading more efficient, affordable, and scalable, especially for small and medium-scale industries. Across India, a large number of biogas plants and industrial units generate gas streams containing significant amounts of CO₂ along with methane. Due to limitations in current technologies, these systems often face high energy costs and methane losses, reducing both environmental and economic efficiency. At the same time, industries are under increasing pressure to reduce emissions and transition to cleaner fuels. Our solution is built around a proprietary solvent system called NS-Max, which enables efficient CO₂ removal at lower temperatures (below 90°C). This significantly reduces the energy required for regeneration compared to conventional systems. By improving separation efficiency, our technology also helps maximize methane recovery, allowing plants to produce high-purity biomethane suitable for fuel applications. We offer our solution as modular, easy-to-integrate systems that can be deployed at existing biogas plants, industrial gas streams, or post-PSA/VP SA setups. This reduces installation time and capital barriers for customers. Our business model includes technology licensing, engineering design, and system deployment, with future expansion into operations, carbon credit monetization, and CO₂ utilization products. Overall, EarthSaathi aims to enable industries to turn emissions into value, supporting a cleaner and more self-reliant energy ecosystem.			
Innovation Model		Technology Innovation	
Explain Innovation Model			
Our innovation model is built around process intensification through solvent engineering, rather than reinventing the entire carbon capture system. Existing technologies like amine scrubbing, membranes, or PSA/VP SA are already mature at the equipment level. The real inefficiency lies in the high energy demand for CO₂ regeneration and methane losses during upgrading. At EarthSaathi, we focus on designing advanced solvent systems (NS-Max) that combine sterically hindered amines, tertiary amines, and physical solvents to optimize both absorption kinetics and low-temperature regeneration. This allows CO₂ to be captured efficiently at near-ambient conditions and released at temperatures below 90°C, significantly reducing energy consumption (target: ~2–3 GJ/t CO₂). Our model follows a modular and distributed deployment approach, where systems are integrated directly into existing biogas plants or industrial gas streams (e.g., VP SA tail gas). This enables on-site upgrading and methane recovery, minimizing losses and avoiding costly compression and transport of CO₂. Additionally, we combine capture with localized utilization pathways (such as eco-materials or mineralization), creating a closed-loop carbon system. In essence, our innovation is not just a new product, but a chemistry-led, energy-efficient, and scalable model that makes carbon capture economically viable for decentralized and medium-scale applications			
Funding/Grants received for your business	Bootstrapped	Website Url	www.earthsaathi.com
Upload Pitch Deck			Uploaded
Startup Details -2			
Industry Group	Others (Diverse Industries)	Sector	Environmental Technologies
Sub Sector	Clean tech innovations		
Udyog Aadhaar No.	NA	Upload Udyog Aadhaar	NA
Nature of Entity	Private Limited Company		

Attach Articles of Association (AoA) copy	Yes	Attach Memorandum of Association(Moa) copy	Yes
Brand Name	EarthSaathi		
Has your startup applied for any IPR (Intellectual Property Right)			Yes
Please provide the patent status and details	patent application "WATER-LEAN SOLVENT COMPOSITION FOR ENERGY-EFFICIENT CARBON DIOXIDE CAPTURE		
Applied For **	Registered/Granted	Application No	Certificate
Patent	☒	No.202511133273 A	Yes
Trademark	☐	NA	NA
Copyright	☐	NA	
Company Registration Details			
Company Incorporation / Registration Number	U38210UP2024PTC197466	Company Incorporation / Registration Date	12-02-2024
Company Incorporation / Registration Certificate	Yes	Registered Address	A2-1604 PARIJAT APARTMENT, VIKRANT KHAND 3, Gomtinagar, Lucknow, Lucknow- 226010, Uttar Pradesh
State	Uttar Pradesh	City/District	Lucknow
Tehsil	Lucknow	Pincode	226010
PAN No. of the Entity	AAICE0189R	Copy of PAN of the Entity	Yes
GST No. of the Entity		Copy of GST of the Entity	NA
TAN No. of the Entity		Copy of TAN of the Entity	No
Founder Details			
Person : 1			
Co-founder	Namrata Upreti	Gender	Female
Mobile No.	7007751704	Email Id	dr.namrata@earthsaathi.com
Pan No.	AFDPU5812L	Pan Card	Uploaded
Aadhaar no	392295303014	Aadhaar Card	Uploaded
Designation/ Role	Founder	Address	B/1139, Indira Nagar Lucknow
Equity%	50.00	Share Certificate	uploaded
Person : 2			
Co-founder	SHAURYA MOHAN	Gender	Female
Mobile No.	8291530384	Email Id	info@earthsaathi.com
Pan No.	DUZPM1633M	Pan Card	Uploaded
Aadhaar no	547201847244	Aadhaar Card	Uploaded

Designation/ Role	Founder	Address	A2-1604 PARIJAT APARTMENT, VIKRANT KHAND 3, Gomtinagar, Lucknow, Lucknow- 226010, Uttar Pradesh
Equity%	50.00	Share Certificate	uploaded