

**Business Name**

बिज़नेस नाम / व्यवसाय का नाम  
व्यवसार नाम-\* Darukaa.Earth

**City**

शहर / शहर- Mumbai

**Name**

नाम / नाम-\* Vikram Singh

**Email**

ईमेल / ईमेल\* vikram.singh@darukaa.com

**Contact No.**

संपर्कनंबर / योगायोग नम्बर-

**Qualification**

योग्यता / एजुकेशनल क्वालिफिकेशन / शिक्षागत योग्यता- MBA

**Gender**

लिंग / लिङ्ग- Male

**Designation**

देसिग्नेशन / औहदा / पद / पद- CEO & Co-founder

**Website**

वेबसाइट- <https://www.darukaa.earth/>

**Sector**

आपके प्रयास का क्षेत्र क्या है / आपनार उद्योगेर क्षेत्र की?- Technology and Development

**Stage**

व्यवसाय किस स्थिति में है व्य वसाय का चरण / आपनार व्यवसा कोन पर्याये रखेछे -

Early Revenue

**Business Structure**

आपके व्यवसाय का संरचना क्या है/ आपनार व्यवसार काठामो की? -

Private Limited

**Detailed Information**

Market Need / बाजारेर चाहिदा : ( आप किस बाजार की आवश्यकता को हल कर रहे हैं? / ( आपनि कोन बाजारेर चाहिदा मेटाछ्हेन? (आपनार उद्योग कोन समस्या वा प्रयोजन समाधान करछे एवं समस्याटिर व्यापकता कतौतूकु) - \* Biodiversity and carbon markets lack scalable, real-time MRV (Monitoring, Reporting, Verification) systems, especially in developing regions.

A \$700B annual biodiversity funding gap and invalidation of 30% of carbon credits due to poor verification highlight the scale of the problem.

Lack of transparency, poor data, and exclusion of local communities make nature finance slow, costly, and inaccessible.

Solution / समाधान (समाधान क्या है और आप समस्या / आवश्यकता का समाधान कैसे कर रहे हैं? / आपनार समाधान की एवं आपनि कीभावे समस्या वा प्रयोजन मेटाज्ञन? - \*

- Darukaa.Earth provides an AI-powered dMRV platform that integrates satellite data, bioacoustics, and on-ground inputs for real-time biodiversity & environmental monitoring.
- It enables measurable carbon and biodiversity credits while directly involving communities in the data collection and benefit-sharing process.
- Our platform ensures traceable, credible, and cost-effective MRV across project lifecycles — from feasibility to credit issuance.

Target Customer / लक्ष्य ग्राहक : (आपके ग्राहक कौन हैं और वे आपका समाधान क्यों उपयोग करेंगे? [लक्ष्य बाजार (Target Market), ग्राहक or उपभोक्ता (User)/ • आपनार ग्राहक कान्ना एवं ताना आपनार समाधान केन ग्रहण करवेन? (लक्ष्य बाजार / ग्राहक वा भोक्ता)- \*

Our target customers:

**Project Developers & Landowners:**

Need an **efficient, low-cost solution** to measure biodiversity & carbon impact, ensuring higher credit prices and project financing.

**Investors & Corporations:**

Struggle with **transparency & compliance** in biodiversity finance. Darukaa.Earth provides **AI-backed, verifiable carbon and biodiversity credits**.

**Governments & NGOs:**

Need **scalable, real-time data** to track conservation impact, align with policy frameworks like the **Kunming-Montreal Agreement**, and drive **large-scale reforestation & ecosystem restoration efforts**.

**Local & Indigenous Communities:**

Currently **excluded from carbon markets** due to **high costs and complex verification**. Our **mobile-friendly monitoring tools** enable communities to track biodiversity & earn revenue from biodiversity credits.

Revenue Model / नाजस्व मडेल : (व्रवीन्यू मॉडल / आय-सूजन मॉडल(व्यापार कैसे रवीन्यू/राजस्व कमाएगा और आप कितने राजस्व की उम्मीद कर रहे हैं?) / • व्यवसा कीभावे नाजस्व / आय तेत्रि करवे एवं आपनि कठटूकु आयेर प्रत्याशा करच्छेन?-

1. **SaaS Platform:**

- Cloud-based analytics platform for species identification and health diagnostics, carbon analysis & environmental reporting

2. **Revenue Sharing: For projects we co-develop, we share a % of the credits issued.**

3. **Consulting Services:**

- Custom setup for large-scale biodiversity monitoring projects.
- Pollinator health assessments for farms and production sites.

4. **Data Licensing:**

- Licensing biodiversity data for research and environmental impact assessments.

How is your solution different from others / आपका समाधान अन्यों से कैसे अलग है? / आपनार समाधान कीभाबे अन्यदेव थेके आलादा?- \*

Darukaa.Earth leverages AI-driven MRV to track biodiversity & carbon in real time, enabling high-integrity nature credits & financial incentives for conservation.

## Biodiversity Monitoring & AI-Driven Insights

- ◆ **AI-Powered Species Identification** – We train **custom regional foundational models** using **site-specific bioacoustics data**, addressing **dataset gaps in South & Southeast Asia** while enhancing **keystone species tracking**.
- ◆ **Multimodal Data Fusion & Acoustic Indices** – AI integrates satellite, drone, sensor, and bioacoustic data, contextualizing acoustic indices (e.g., NDSI, ACI) with ground data for better ecosystem insights.
- ◆ **Global Partnerships** – Collaborating with **Cornell Lab of Ornithology, IISER Tirupati, and others**, we refine AI models for biodiversity monitoring.

## Carbon & Climate Risk Modeling

- ◆ **AI-Driven Carbon Modeling** – Deep-learning **biomass calibration models** estimate carbon sequestration, aligning with **global credit standards**.
- ◆ **Predictive Climate Risk** – ML forecasting analyzes **CMIP6, NOAA, and regional data**, predicting **extreme weather risks** for resilience planning.
- ◆ **Scalability & Finance** – AI-backed **real-time MRV** lowers costs, enhances **trust in nature-based credits**, and ensures **transparent conservation finance**.

Social Impact / सामाजिक प्रभाव : आपके उत्पाद या सेवा का सामाजिक प्रभाव क्या है? सकारात्मक सामाजिक परिणाम / सामाजिक प्रभावों की समीक्षा / सामाजिकप्रभाव आकलन/ आपनार पल्य वा परिषेवार सामाजिक प्रभाव की? (इतिवाचक सामाजिक फलाफल / सामाजिक प्रभाव मूल्यायन)- \*

We have launched **INDIA'S FIRST BIODIVERSITY CREDIT PROJECT** in Indian Sundarbans- one of the world's largest mangrove forests where we:

Empowered 300+ local individuals (including forest dwellers and women) as data stewards — creating green jobs.

Democratizing climate finance by ensuring rural communities benefit directly from credit revenue.

Projects aligned with Sustainable Development Goals: climate action, life on land, reduced inequalities.

Current Status / वर्तमान अवश्य : प्रयास की वर्तमान स्थिति क्या है? प्रयास / व्यवसाय की वर्तमान स्थिति? वर्तमान स्थिति / ट्रैक्शन (आपने अब तक कौन-कौन सी उपलब्धियां प्राप्त की हैं, जैसे राजस्व/ रेवीन्यू, माइलस्टोन, और जुटाए गए अनुसंधान राशि)? • आपनार उद्योगेन वर्तमान अवश्य की? (आपनार अर्जित माईलस्टोन, नाज़म वा उद्दिष्ट संग्रहन विवरण)-

Darukaa.Earth has achieved significant traction, including:

- Secured LOIs for SaaS worth ~\$100K/year.
- Filed 1 patent, with 3 more close to filing.
- Established multiple global MOUs with Samudra Ocean, Terrra
- Piloted a 500-hectare conservation project in the Indian Sundarbans, a RAMSAR-recognized site.
- Got selected for renowned global accelerators programs:- AirMiners, Brainforest Venture Program, Airminers & Google AI program for startups.
- 1000+ hours of bioacoustic data processed
- Empowered 300+ locals with sustainable livelihoods.
- Research collaborations with leading institutional bodies.

Differentiation / भिन्नता एवं प्रयुक्तिगत सूचिधा : (What is the unique selling proposition of the business?) and Does your business have a Technology Advantage (Elaborate on how your technology plays a role in making the solution better for the customers?) (व्यापार का अद्वितीय बिक्री प्रस्ताव क्या है?) और क्या आपके व्यापार में तकनीकी अवांछन है? (यह स्पष्ट करें कि आपकी तकनीकग्राहकों के लिए समाधान को बेहतर बनाने में कैसे भूमिका निभाती है?) / आपनार व्यवसार इटेनिक सेलिंग प्रोजेक्शन (USP) की? आपनार व्यवसार कोनो प्रयुक्तिगत सूचिधा आचे कि? (आपनार प्रयुक्ति कीभावे समाधानके ग्राहकदेऱ जन्य आरओ उल्लङ्घन करछे?)-

Darukaa.Earth's Unique Selling Point (USP) is its all-encompassing platform that **serves as a one-stop solution for carbon management + biodiversity monitoring and environmental risk assessment**. By seamlessly integrating advanced technologies with community-driven initiatives, we offer a comprehensive approach to environmental conservation and sustainability.

This multi-dimensional approach addresses growing market demand for **high-integrity nature-based solutions** that go beyond carbon accounting to demonstrate **measurable ecosystem resilience and social co-benefits**.

#### Technology Advantage:

Our **AI-driven digital MRV (dMRV)** , ensures **real-world scalability and accuracy**. Our **multimodal AI approach** tackles the **lack of real-time, high-accuracy biodiversity and carbon monitoring** by integrating **bioacoustics, satellite, drone, and IoT data** into a **unified, actionable system**.

By combining environmental science, community-centered technology, and high-frequency data fusion, we deliver **future-proofed MRV solutions** that are ready for **the next generation of nature and carbon markets**.

#### Customers Benefit from the technology:

 **Project Developers** – Benefit from **AI-driven feasibility assessments, precision project design, and automated monitoring**, ensuring measurable carbon and biodiversity impact.

 **Investors** – Gain access to **verifiable, high-quality carbon and biodiversity credits** with AI-powered tracking, ensuring **transparency, reduced financial risk, and long-term sustainability**.

 **Corporates** – Companies with **net-zero targets, ESG goals, and supply chain sustainability mandates** can **track emissions, monitor biodiversity impact, and ensure regulatory compliance** using AI-powered analytics, enhancing transparency and corporate responsibility.

Our **AI-driven solution bridges data gaps, enhances transparency, and ensures scalable, measurable climate action** for all stakeholders.