



ANNUAL REPORT

FY 2023 - 2024

31st
Edition

TECHNOLOGY INFORMATICS
DESIGN ENDEAVOUR



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Table Of Content

01	Foreword	2
02	About Us	4
03	TIDE'S Priority SDGs	5
04	Our Presence in India	6
05	TIDE's Impact in 2023-2024	7
06	TIDE's Work in 2023-2024	8
07	Our Patrons	28
08	Concept Note	29
09	Council of Management	30
10	Our People	31
11	Abridged Financials	32

Foreword



Gautam Lahiri

Executive Director

Fiscal Year 23-24 marks 31 years of a successful journey with continuous learning for Collectives for our Sustainable Communities and Skilling & Livelihood initiatives. The focused approach of engaging with the communities and trying to understand their need and aspirations through the lens of Sustainability not only forms the foundation of TIDE but also underscores the integral role of our stakeholders in our success. Their support and collaboration give TIDE the energy to regularly innovate, design scalable programmes and implement them systematically with ownership within the communities.

2023-24 has also been a milestone year for TIDE with our Operations expanding in Maharashtra to implement Environment Sustainable solutions in the rural schools of Raigad district. Also as promised last year we had made our first mark in the digital space by applying Artificial Intelligence led models to predict environmental parameters for a proof of concept study in a village.



1.31 Lakhs

People were benefitted through the various interventions and initiatives conducted by TIDE

Our key programs in the areas of Environment Sustainability, Skilling & Livelihood, WASH and Model Schools continued with all efforts to achieve the desired impact on the communities and environment. These programs, made possible by your support, have made significant strides in improving the lives of the communities we serve. TIDE programs have benefited a total of 1,31,346 people through our various interventions, we reduced 1200+ MT of CO2 per annum, our skilling programs have generated a total income of INR 9.5 Mil earned by the community and our Teams have nurtured a total of 179 Entrepreneurs. Our WASH and Waste management programs are undergoing innovative transformation to focus and deliver more in mitigating and adapting climate related changes.

Our systems and processes continues to ensure Governance and compliance with extant rules and guidelines. TIDE followed a stringent monitoring and evaluation framework along with deep evaluation and analytics of interconnected survey metrics.

The team at TIDE continues to blend creative ways to harness knowledge through Speaker series where Sector and Industry leaders share current trends and perspectives on wide range of topics. Celebrate@work initiative is designed towards employee engagement and peer inspiration. Through collaboration with our different stakeholders and partners we have successfully created a space for ourselves in the development landscape. We commence a new chapter in FY 2024- 25, dedicated to expanding our reach and redefining our strategy. I extend my heartfelt gratitude to our team at TIDE, as they continue to raise the bar and set new benchmarks for creating a positive impact on the lives of our Communities and for the Planet.

I am pleased to present TIDE's Annual Report for 2023-24, which provides a comprehensive account of our activities over the year. All of us at TIDE would like to take this opportunity to thank our stakeholders for their support, and I look forward to our continued association.

Join us in shaping a better future for India !

Through collaboration with our different stakeholders and partners we have successfully created a space for ourselves in the development landscape. We commence a new chapter in FY 2024- 25, dedicated to expanding our reach and redefining our strategy

About Us



Established 30 years ago, TIDE is a not-for-profit organization operating under the Karnataka Societies Registration Act. Our mission is to bridge the gap between research institutions and communities, fostering the adaptation of technologies for a greener, more resilient future.

Throughout our three decades of operation, we have demonstrated that technology, when customized to meet local needs, can effectively tackle a range of societal challenges. To date, TIDE has successfully implemented over 250 projects across Energy, Livelihoods, Climate Education, and Water, Sanitation, and Hygiene (WASH). These initiatives have positively impacted the lives of **over One million individuals across 15 states in India.**

Our longstanding partnership with the Department of Science and Technology, Government of India, underscores our commitment to advancing science and technology. Additionally, our collaborations with esteemed national and international organizations further reinforce our dedication to creating meaningful and sustainable change.

Legal & Statutory Information

Registration No: S.No. 131/93-94 dated 11/05/1993 of
Karnataka Societies Registration Act, 1960
FCRA: 094420769, valid till December 2026
80G: AAATT1118NF19941, valid till AY 2026 - 2027
12A: AAATT1118NE19943, valid till AY 2026 - 2027
CSR Registration: CSR00002810
PAN: AAATT1118N
GST: 29AAATT1118N2Z7
TAN: BLRT00701B

Our Vision

A world where Technology positively equitably impacts societies and environment

Our Mission

To provide technology solutions for livelihood, sustainable communities and to build climate resilience

TIDE Social Media Handles

-  @Technology Informatics Design Endeavour
-  @Technology Informatics Design Endeavour
-  @TIDE_NGO
-  @TIDE.NGO
-  @TIDE_NGO
-  <https://tide-india.org/>



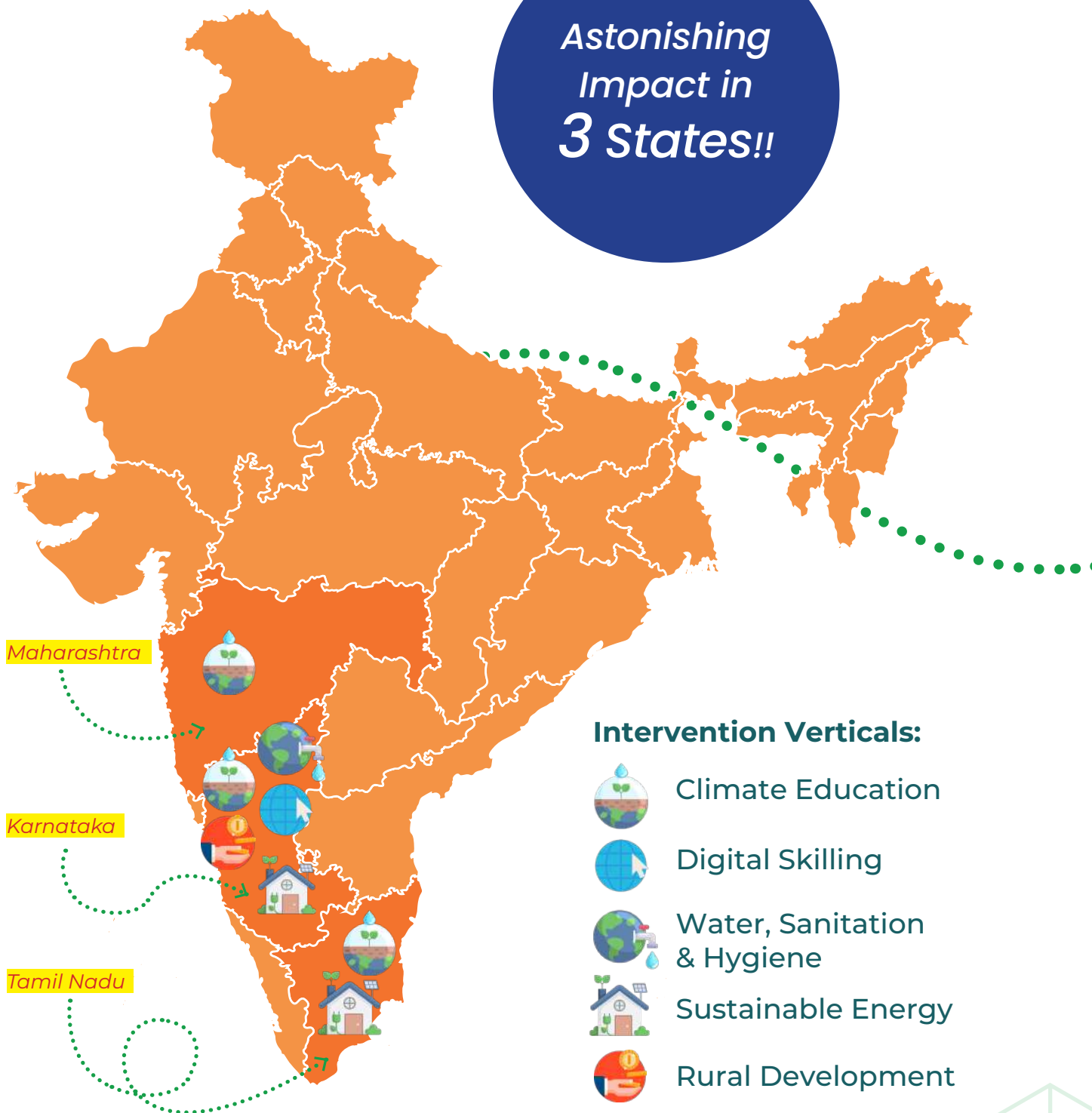
TIDE'S Priority SDGs

Technology Informatics Design Endeavour (TIDE) is a forward-thinking organization dedicated to leveraging technology for sustainable development. Committed to the United Nations' Sustainable Development Goals (SDGs), TIDE focuses on creating innovative solutions to address pressing global challenges. Through our work, we strive to contribute to various SDGs such as clean energy, climate action, sustainable cities, and more. With our unwavering commitment to the SDGs, TIDE continues to drive positive change and work towards a sustainable future for all.



Our Presence in India

*Astonishing
Impact in
3 States!!*



TIDE's Impact in 2023 -2024

1,31,346
Total People
Benefitted



1260 MT
per annum
Tonnes of CO²
emissions
reduced



Rs 95,51,957
Income earned by
the communities
through the
earned skill



179
Number of
Entrepreneurs
nurtured



TIDE's Work in 2023 - 2024



Climate Education

Over the past year, our organization has expanded and deepened its environmental and social impact through several key programs. Our Climate Education initiative successfully reached 23 schools across Maharashtra, Karnataka, and Chennai, engaging 6,000 students in sustainability practices like energy conservation, renewable energy, water conservation, and waste management. A highlight was Jawahar Navodaya Vidyalaya, Bengaluru Rural, receiving a 5-star GRIHA rating for green building practices, showcasing the program's success. The program combined classroom learning with hands-on interventions, such as solar panel installations and rainwater harvesting systems, inspiring students to adopt sustainable habits.



Digital Skilling

The Digital Kiosk Fellowship program aligned with Digital India's vision by empowering 17 'Digipreneurs' across Karnataka. They earned livelihoods by providing essential digital services to underserved communities, extending these services to over 25,000 households. Building on this success, we are now expanding the program with 42 new participants.



Water, Sanitation & Hygiene

Our WASH program delivered decentralized water and sanitation solutions in two towns of Karnataka, benefiting 20,000 people. The introduction of the state-of-the-art interventions like WASH facility, DEWATS system and our technical support to the

municipal officials resulted in the citizens getting access to better services, upliftment in the lives of the sanitation workers and capacity enhancement of the officials. Encouraged by our success, we are now extending the WASH program to 17 small towns across Karnataka.



Sustainable Energy

Our improved cookstove initiative transformed kitchens into smokeless environments in 11 villages of Kodagu, Karnataka. Additionally, we introduced our improved cookstove to 7 villages in Chikballapura and received good support and acceptance from the community. We designed and installed an innovative, fuel-efficient pottery kiln in Sivagangai, Tamil Nadu, supporting local potters by enhancing productivity while reducing environmental impact.



Rural Development

Our Rural Development initiative also made strides, skilling 1,546 women and youth across 32 villages, promoting economic sustainability through entrepreneurial ventures. Training programs included advanced tailoring, poultry, cotton batti production, areca plate making and entrepreneurship development, empowering participants with the skills and resources needed to improve their livelihoods. Through this program, we nurtured 100 entrepreneurs and introduced new income-generating opportunities, contributing to the economic sustainability of rural communities.



6,000 Students

**Across 23 Schools
impacted by Climate
Education Initiative**



17 Digipreneurs

**Empowered via Digital
Kiosk Fellowship**



20,000 people

**Benefitted due to
WASH Program**



18 villages

**Impacted by Improved
Cookstove Initiative**



**1,546 women
& youth**

**Across 32 villages
impacted by Rural
Development Initiative**

Climate Education

Project: Nurturing Environmental Ambassadors

Overview

This program aimed to enhance environmental awareness and sustainability through equipping the next generation of students with the right tools, knowledge, and civic engagement. This program is designed to cover key areas such as energy conservation, renewable energy, water conservation, waste management and biodiversity. Through interactive classroom sessions, practical activities, and community engagement, students learn the importance of sustainable living and how their actions can contribute to the health of the planet.

Over the past year, our Environmental Education Program has made significant strides in expanding its reach and impact. We successfully scaled the program to a new state, Maharashtra, where we worked closely with 8 schools to instill sustainable practices and environmental awareness among students. In Karnataka, we continued our efforts in 10 schools, building on our previous successes and deepening the students' understanding of environmental conservation. Similarly, our work in 5 schools in Chennai has further strengthened our commitment to fostering sustainable habits in urban settings.

Our program not only expanded geographically but also deepened its impact through a combination of classroom sessions and practical interventions.

SDGs Aligned



Project Vision

Integrating Classroom Learning with Hands-On experience

The program's strength lies in its holistic approach, where theoretical concepts taught in classroom sessions are reinforced through pilot interventions. These interventions include:

Energy Conservation: Students participated in projects that emphasized the importance of reducing energy consumption through simple, actionable measures, such as using energy-efficient lighting and promoting behavioral changes.

Renewable Energy: Schools were introduced to solar energy systems, allowing students to see firsthand how renewable energy can power their school's needs, reducing reliance on conventional energy sources.

Water Conservation: Rainwater harvesting systems, Groundwater recharge pits and nature-based grey water recharge systems were installed in several schools, giving students a tangible understanding of water management, water recharging, water-reuse concepts and its importance in a water-scarce future.

Waste Management: Composting initiatives, and waste segregation programs were introduced teaching students how to manage waste responsibly and the value of recycling and composting organic waste.

Kitchen Gardens: By setting up kitchen gardens, students learned about sustainable agriculture, the importance of local food production, and the benefits of organic farming practices.

These interventions were designed not just as learning tools but as living examples of sustainable practices that students can replicate in their homes and communities.



Highlights

- ▶ One of our partner schools, Jawahar Navodaya Vidyalaya – Bengaluru Rural, received a prestigious **5-star rating in the GRIHA** (Green Rating for Integrated Habitat Assessment) rating system.
- ▶ This accomplishment underscores the **effectiveness of our program** and the **dedication of the school community to sustainability**.



Impact:

- ▶ Number of students engaged – **6000**
- ▶ Number of schools – **23**
- ▶ Number of sessions handled – **60**
- ▶ Number of clean-tech interventions installed – **46** (cumulative)
- ▶ Number of teachers sensitized – **23**



Case Study

Nurturing Environmental Ambassadors in Government Schools in Uran and Talaja

Background

In November 2023, the “Nurturing Environmental Ambassadors in Government Schools in Uran and Talaja” project was launched to raise environmental awareness among students. It aimed to equip eight schools with both the knowledge and tools to address sustainability issues. By combining education with practical interventions, the project sought to reduce the carbon footprint of schools while empowering students as environmental leaders.

Opportunity Identification

The project identified that students lacked awareness about sustainability and that the schools were using outdated, energy-inefficient systems. This created an opportunity to both educate students and upgrade school infrastructure to reduce energy consumption. Additionally, students were seen as potential ambassadors who could spread the message of environmental responsibility within their communities.

Intervention

The intervention focused on two areas: education and infrastructure. Workshops were conducted to teach students about sustainability and climate change. Meanwhile, the project installed solar panels and replaced traditional lights and fans with energy-efficient models, reducing the schools' carbon footprint and providing students with a hands-on example of sustainable practices.

Implementation

Between November 2023 and March 2024, the project was implemented across eight schools. Students participated in educational workshops, while solar panels and energy-efficient lighting and fans were installed. Throughout this period, the schools' energy usage was monitored to track the impact of the changes.

Results

The project raised environmental awareness among students and teachers, empowering them as environmental advocates. Schools reduced their carbon emissions through the installation of solar panels and energy-efficient technologies. The improved infrastructure created a better learning environment, while energy costs dropped, leading to financial savings.



Conclusion

The project successfully combined education and sustainability practices to create long-term benefits. Students became environmental leaders, schools reduced their energy usage, and significant financial savings were achieved. This initiative highlights how targeted interventions can foster environmental responsibility and generate lasting community impact.

Testimonials

Mr Rajesh - Principal, RZP Tondre School

"Things have changed since TIDE installed solar panels improving Energy Efficiency and have also provided connection in washrooms and classrooms at our school. Before the solar panels, we had a lot of problems with electricity. We had power cuts almost every day for full day or sometimes it goes for half day. This made it hard for students to concentrate in classrooms because it was too hot and the teachers couldn't teach properly. When it rained, it got dark, and students couldn't see what the teachers were writing on the blackboard due to darkness in the classrooms. This was especially tough for subjects like science, where students couldn't do experiments in the science lab. Also, we didn't get any help from the government to pay our electricity bills, so the teachers had to pay for it themselves. Another big problem was water. We needed electricity to get water and purify it. When the power went out, we couldn't use the toilets or get clean water for the kids and teachers. We also couldn't watch TV or use computers when the power was out. All of this made it hard for students to learn and stay healthy. But now that we have solar panels, everything has changed for the better. We have electricity all the time, so students can focus on their studies without any distractions. We also save money on electricity bills, which we can use to improve our school buildings. And best of all, we never have to worry about the lights going out again, so students can use science and computer lab and study well. Our school has even been recognized by the Education Officer of Raigad district because we're the first school in Taloja to use solar panels. We're proud to be leading the way in using clean energy to make our school a better place for everyone. We are very grateful to TIDE for taking such initiative and make the school sustainable."

8 Schools

Impacted by
significant reduction
of Carbon Footprint

Significant Financial
Savings

Empowering
students & teachers
as Environmental
Advocates



Mr Chakravarthy - Principal, JNV Bengaluru Rural

"It gives immense pleasure to share with everyone that our school has got 5 Star Rating for GRIHA counsel implementation. Out 50 marks we got 48. My credit goes to TIDE who are the patrons behind every intervention."

Digital Skilling

Project: Digipreneurs (Digital Kiosk)

Overview

Digital Kiosk Fellowship program is an initiative aligned with the Digital India vision, designed to empower underprivileged communities by bridging the digital divide. This program stands out for its deep community integration, fostering trust and a sense of service while addressing the livelihoods of women and unemployed youth.

Participants in the program referred to as 'Digipreneurs', are trained to become digital service enablers. By establishing a 'Kiosk Centre', our Digipreneurs bring essential digital services and government schemes to communities that lack awareness, digital literacy, and the necessary infrastructure to access these benefits. While the program primarily targets underprivileged women aged 21-45, it remains open to all genders.

This year TIDE nurtured 17 Digipreneurs from 8 taluks across Karnataka. All 17 Digipreneurs have successfully completed the 18-month program and have formed an alumni network to support each other in addition to supporting their communities. Our Digipreneurs earned a livelihood through this program with an average income of Rs 5000/- to Rs 20000/- per month extending their digital services to over 25000+ households.

Building on this success, the next cohort comprises 42 Digipreneurs and 42 Digisahayaks (helpers), who will extend the program into additional districts across India. We have strategically selected the taluks in geographically contiguous districts with limited access to common services centre, ensuring that citizens in these areas no longer need to travel long distances to avail themselves of banking and e-services.

Through this program, our Digipreneurs are not only advancing the goals of Digital India but also gaining sustainable livelihood opportunities and enhancing digital inclusion in underserved regions.

SDGs Aligned



Project Vision

To bridge the digital divide by empowering underprivileged communities, the program trains women and unemployed youth as "Digipreneurs" to deliver essential digital services and government schemes to underserved areas. Through Kiosk Centres, they enhance digital literacy, provide critical services, and support community growth, aligning with the Digital India vision while fostering self-reliance and inclusion.



Highlights

- ▶ This year, **17 Digipreneurs** from Karnataka completed the program, serving over **25,000** households and earning **Rs 5,000 to Rs 20,000** monthly.
- ▶ The next cohort will include **42 Digipreneurs** and **42 helpers**, expanding the program to more districts with limited access to **digital services**.



Impact: Social & Financial

- ▶ Number of rural women and youth trained – **20**
- ▶ Average income per Digipreneur per month – **Rs 5000** to **Rs 20000**
- ▶ Number of Households with improved access to government schemes – **25000**
- ▶ Number of services availed – **60+**



Case Study

Asha GS, Digital Entrepreneur

Background

Asha G. S. Rangaswamy resides in Gollarahatti Godekere, Chikkanayakanahalli Taluk. Her husband works as a farmer. Asha completed her 12th standard education and married in 2011. Initially, she applied for a kitchen helper position at a government school but was not selected. Encouraged by her husband, she sought alternative employment opportunities within the village.

Opportunity Identification

In 2018, Asha learned about a job opening for an NRLM LCRP position in her gram panchayat. She applied and was successfully appointed. By 2020, she had received BC Saki training from NRLM and began receiving a monthly stipend of Rs. 2,500. During this period, she identified a gap in digital services within her village, where residents had to travel to nearby cities for such services.

Intervention

Recognizing the opportunity to address this gap, Asha decided to establish a digital service center in her village. In early 2022, she attended a 5-day training program at TIDE-WTP focused on digital services and self-business. As part of the “Digital Entrepreneur Development Project,” she received essential equipment including a laptop, printer, and biometric device, supported by Microland.

Implementation

Asha launched an online service center from her home, initially earning Rs. 3,000 per month. She further enhanced her business skills by participating in additional TIDE Business Development training. This training enabled her to introduce door-to-door services, engage with Self-Help Groups (SHGs), and promote her services through handbills and local advertisements.

Results

Asha's digital service center has significantly impacted her community, providing essential services to six surrounding villages. Her monthly earnings have increased to Rs. 15,000 - Rs. 20,000, and she aims to reach Rs. 40,000 per month. Her success has brought financial stability to her family, and her husband's support has been instrumental in her entrepreneurial journey.



Conclusion

Asha G. S. Rangaswamy's case highlights the transformative potential of targeted training and support for rural entrepreneurs. By leveraging opportunities provided through NRLM and TIDE, she has successfully created a vital service in her village, demonstrating the positive impact of digital entrepreneurship on local communities.



85.0%

**Increase in
monthly earnings**

92.5%

**Trageted revenue
increment with time**

**Achieved Financial
Independence &
Self Sufficiency**

Testimonials

Soumya – MLF

"On behalf of Microland Foundation we would like to appreciate the dedication and commitment of the entire TIDE team to partner to make the 'Digipreneur' program a role model to empower rural communities in Tumakuru with digital and entrepreneurial skills, enabling them to earn a livelihood while working to unlock Digital Schemes in their community. The existing goodwill and trust earned by the Tide Field Team along with 25 years of extensive experience has been pivotal in building the dream of a Digital India fostering meaningful relationships with diverse stakeholders in this community.

This partnership has not only advanced the goals of the Digipreneur Project but has also forged a strong and lasting commitment, rooted in mutual respect and a shared vision. TIDE's expertise and dedication have enriched several aspects of the project, driving innovation, and are fostering an inclusive environment for budding digital entrepreneurs. We are grateful for the open nurturing dialogues and look forward to continuing and expanding our collaboration."

Water, Sanitation & Hygiene (WASH)

Project: WASH Facility for Sanitation Workers

Overview

The vision of our WASH program is to deliver decentralized water, sanitation and hygiene solutions that serve the diverse needs of rural, semi-urban and urban populations. Our approach emphasizes sustainability, ensuring that the infrastructure and practices we implement are environmentally sound and climate resilient. By focusing on community-centric models, we actively involve local populations in decision-making, fostering ownership and long-term maintenance of WASH facilities. Our solutions are designed to be adaptable to various geographic and socio-economic contexts, promoting equitable access to clean water, improved sanitation, and better hygiene while safeguarding the environment for future generations.

In the past year, significant strides have been made in improving sanitation and waste management infrastructure across Chikkaballapura and Chintamani. A state-of-the-art WASH facility was constructed to uplift the working conditions and living standards of sanitation workers. This intervention has dignified the role of sanitation workers by providing essential services such as drinking water and sanitation facilities, while also attracting more workers to the sector. Furthermore, its success has caught the attention of other municipalities across the state, prompting replication of this model.

In collaboration with the local community, a 10 KLD DEWATs system integrated with a simplified sewer network was operationalized for effective liquid waste management. Additionally, enhanced solid waste management strategies, including door-to-door collection and community composting, were implemented. Community ownership over public toilets has empowered residents, fostering responsibility and improving utilization rates.

Furthermore, increased community engagement in waste segregation has significantly improved cleanliness and reduced health risks.

The retrofitting of the water treatment plant optimized the treatment process, ensuring access to safe drinking water and improving overall water quality. These efforts have greatly enhanced water treatment efficiency, ensuring the facility meets stringent quality standards.

On seeing the success of phase 1, we are extending the program to 17 small towns in Karnataka.

SDGs Aligned



Project Vision

To deliver sustainable and community-driven water, sanitation, and hygiene solutions that meet the needs of diverse populations. By focusing on environmental resilience and local involvement, we aim to ensure equitable access to clean water and sanitation while fostering long-term community ownership and protecting the environment.



Highlights

- ▶ Key achievements include a new **WASH facility** improving sanitation workers' conditions, a **10 KLD DEWATs system** for liquid waste management, and **enhanced solid waste strategies** in Chikkaballapura and Chintamani.
- ▶ The program is **expanding to 17 small towns** in Karnataka following the success of its initial phase.



Impact:

- ▶ No. of people with improved access to water, sanitation and hygiene services - **20000**
- ▶ Number of towns - **17**
- ▶ Tones of waste managed sustainably @Kandavara Colony- **3.624 tonnes**
- ▶ Litres of waste water treated sustainably @Kandavara Colony- **3.65 MLD**
- ▶ Municipal officials and Sanitation workers with improved capacity to deliver equitable WASH services - **394**



Case Study

Bhagya, Sanitation Worker in Chintamani

Background

Bhagya, a 45-year-old sanitation worker in Chintamani, starts her day early and works under tough conditions. Chintamani, a small town 100km from Bengaluru, requires her and her colleagues to manage street cleaning, waste collection, and other sanitation tasks. However, they faced significant challenges, including inadequate facilities for handwashing and dining.

Opportunity Identification

In early 2022, CMC recognized the need to improve working conditions for sanitation workers by refurbishing an unused garage on their premises. The existing facilities were insufficient, lacking proper handwashing units and functional toilets. The plan was to convert the garage into a dedicated space that would offer better amenities and improve the workers' quality of life.

Intervention

TIDE and BORDA proposed turning the unused garage into the Sanitation Workers Resting Facility. The intervention involved refurbishing the building to include a food serving platform, a dining area with proper seating, handwashing kiosks, a leg wash area, drinking water vending unit and a plate storage stand. The existing dysfunctional toilet was renovated. Additionally, artwork and landscaping were added to enhance the facility's aesthetics.

Implementation

The project was completed by September 2022 and inaugurated on Sanitation Workers Day. The garage was transformed into a functional Resting Facility with amenities like a dining area, handwashing and leg wash stations, a drinking water unit, and a renovated toilet. Artwork and landscaping were added to enhance the facility's environment.

Results

The new Resting Facility has markedly improved the working conditions for Bhagya and her colleagues. They now have access to clean handwashing and leg wash stations after their work. The dining area provides proper seating and a hygienic environment for meals. The renovated toilet, now functional, is easily accessible via a newly constructed footpath. These improvements have enhanced the workers' comfort and dignity, contributing to their overall well-being.



Conclusion

Transforming the unused garage into the Sanitation Workers Resting Facility has significantly improved conditions for Chintamani's sanitation workers. By providing essential amenities and fostering a respectful environment, the project has elevated the workers' quality of life and job satisfaction. This initiative highlights the importance of investing in facilities that support the well-being of essential workers.

ಪೌರ ಕಾರ್ಮಿಕರ ಶೌಚಾಲಯ SANITATION WORKERS TOILET FACILITY



**Remarkable
improvement in
working conditions of
Sanitation Workers**

**Essential amenities
fostered a respectful
environment,
elevating the
workers' quality of
life & job satisfaction**

Testimonials

Umashankar, AEE, CMC Chikkaballapura

"CMC Chikkaballapura's 3-year association with TIDE and BORDA has been invaluable. They provided crucial support for sanitation workers' welfare, including informative training where workers felt heard. Their contributions include a WASH facility for pourakarmikas, allowing them to clean up and rest comfortably, and a DEWATS facility for areas lacking UGD systems. They also refurbished an aspirational toilet which is maintained really well as those toilets we see in metro cities.

We're truly grateful to TIDE and BORDA for their comprehensive support in improving our municipal services."

Jeevan Roy, Urban Planner, BORDA

"Four years ago, we began our journey with the small-town WASH initiative in Karnataka under the IUWM project. The recognition we've received in the state is a testament to the impactful projects we've implemented in partner towns, leading to increased demand and expansion across the state. This success wouldn't have been possible without the unwavering dedication of the TIDE's team. Their commitment has been the driving force behind our growth. TIDE's strength lies in strong ground presence and deep community engagement, which have been crucial in understanding local needs, building trust, and making a meaningful impact. Together, we look forward to achieving even greater milestones, continuing to provide innovative and sustainable WASH solutions, and further solidifying TIDE's role as a key go-to organization in the region"

Sustainable Energy

Project: Community driven Improved Cookstoves installation

Overview

Our goal in Sustainable Energy is to deliver climate-friendly energy solutions that are both sustainable and adaptable to diverse needs. We design solutions that are customizable and scalable, ensuring they can be tailored to the specific requirements of each community. By focusing on community-centric approaches, we aim to empower local populations with clean, reliable energy that not only addresses current demands but also contributes to long-term environmental sustainability. Through our efforts, we are driving the transition toward a greener future, creating energy solutions that support both people and the planet.

Building on the success of the previous year, we expanded our improved cookstove initiative in Kodagu, Karnataka, and introduced it to 7 villages in Chikkaballapur. We successfully transformed kitchens in 11 villages of Kodagu into smokeless environments, significantly improving indoor air quality. Additionally, we provided training to local women and youth on stove construction and pipe installation, creating new livelihood opportunities within these communities. This approach not only fosters local ownership but also ensures the long-term sustainability of our interventions, as communities are equipped with the skills needed to maintain and replicate the cookstove installations.

We designed and installed an innovative, fuel-efficient community pottery kiln in Sivagangai, Tamil Nadu. This unique kiln allows 4 to 6 potters to operate simultaneously, reducing firing time by 75% and cutting fuel consumption by 40%. The kiln's efficiency enhances productivity and supports sustainable practices among local potters.

Additionally, the Sivagangai pots, recognized with a Geography Identification Tag by the Government of India, benefit from this eco-friendly intervention, helping preserve traditional craftsmanship while promoting environmental conservation. This initiative not only reduces the environmental footprint but also strengthens the local pottery industry.

SDGs Aligned



Project Vision

To deliver adaptable, climate-friendly energy solutions that meet diverse community needs. We focus on scalable, clean energy designs that promote local empowerment and long-term environmental sustainability.



Highlights

- ▶ The cookstove initiative expanded, *improving indoor air quality* and providing *training for local livelihoods*.
- ▶ A fuel-efficient pottery kiln in Sivagangai *cut fuel use by 40%* and *firing time by 75%*, boosting productivity.
- ▶ The eco-friendly kiln supports traditional *Sivagangai pottery*, promoting sustainability and craftsmanship.



Impact:

- ▶ Number of households with improved cookstove – **840**
- ▶ Tonnes of CO2 mitigated – **1260 per annum**
- ▶ Tonnes of biomass reduction – **1090 per annum**
- ▶ Total income earned by the community during stove building activity – **Rs 5,17,757**



Rural Development

Project: Livelihood Enhancement

Overview

As part of our Rural Development program, we offer skill training to rural women and youth, tailored to the specific needs of each community. The training is localized, ensuring it is relevant and impactful. Beyond skill development, we support participants in securing employment or assist those who wish to start their own enterprises. By fostering both job placements and entrepreneurial ventures, our program empowers individuals to improve their livelihoods, contributing to the economic growth and sustainability of rural communities. This initiative plays a crucial role in building self-reliant, skilled communities with long-term development prospects.

This year, we conducted 44 awareness sessions across 32 villages, reaching 1,173 women and youth, introducing new skilling and income generation options. Through these sessions, we developed a selection process based on participants' willingness to commit to job requirements, including travel and investment needs. In addition, product and service catalogues for tailoring and cotton batti were created, engaging buyers and influencing procurement from rural areas.

Our training initiatives included 6 sessions on advanced tailoring, skilling 117 women, 6 sessions on poultry, training 102 participants, and 4 sessions on cotton batti production, upskilling 109 women. We also delivered 2 soft skill training sessions and Agarbatti training, benefiting 45 women. To strengthen the training, we procured 5 advanced tailoring machines and smaller equipment like sealing machines for cotton batti makers.

To support existing micro and nano enterprises, we provided training in product labelling, marketing, and development to 100 entrepreneurs, while facilitating access to resources and potential buyers. Additionally, our Queens Training program empowered over 190 women entrepreneurs, focusing on leadership development.



SDGs Aligned



TIDE's Project Vision

To empower rural women and youth through localized skill training that enhances job placements and entrepreneurial opportunities. By addressing community-specific needs and fostering self-reliance, our program aims to drive economic growth and sustainability in rural areas, building a foundation for long-term development and self-sufficiency.



Highlights

- ▶ This year, **44 awareness sessions** reached **1,173 people**, introducing **new income opportunities** and creating product catalogues.
- ▶ Training in tailoring, poultry, and cotton batti benefited **373 women**, while **100 entrepreneurs** received marketing support, and **190 women** were trained in leadership.



Impact:

- ▶ Number of women with improved skills – **1546**
- ▶ Number of entrepreneurs nurtured – **100**
- ▶ Income generated during FY 23-24 – **Rs 18,48,000**



2023/11/1

Case Study

Vinay Ramesh, Areca Leaf Plate Entrepreneur

Background

Vinay, 26, from Honnavile, Shivamoga Taluk, completed a computer science diploma in Shimoga. Initially seeking work in Bangalore, he followed his father's advice to find opportunities closer to home. He took a job in Bhadravathi with a salary of Rs. 8,000 but faced issues with work conditions.

Opportunity Identification

In 2021, Vinay learned about self-business opportunities through TIDE from his mother's friend, Parvathi. He attended an orientation on areca leaf plate making. Seeing the demand in his village—where residents had to travel 19 km to buy plates—Vinay decided to pursue this business, with strong support from his family.

Intervention

Vinay participated in a two-day training at TIDE, focusing on areca leaf plate making and machine operation. TIDE provided essential information on subsidy schemes, loan facilities, and project reports through SVP. Vinay applied for a loan under the PMEGP scheme at the SBI Machenalli Branch. After nine months of processing, the loan of Rs. 3 lakhs was approved.

Implementation

With the sanctioned loan, Vinay established a plate-making unit in his village, purchasing three pressing machines. He promoted his business by informing friends, villagers, SHGs, and schools, using banners and setting up a shop for supply services. This outreach helped in reaching all households in the village. Awareness increased, and local residents began purchasing areca plates from Vinay's unit. TIDE assisted in marketing, connecting him with local and export buyers.

Results

One year later, Vinay expanded his operations by adding three more pressing machines, making a total of six. His business now generates a monthly income of Rs. 30,000 to Rs. 40,000. Vinay is focused on increasing production and improving export quality, with a goal of reaching Rs. 50,000 per month. His family is pleased with the success of the business, and Vinay attributes much of his success to TIDE's support.



Conclusion

Vinay's case demonstrates the impact of targeted support and training in fostering entrepreneurial success. By leveraging the opportunities provided by TIDE and securing necessary financial backing, Vinay established a thriving areca leaf plate making business that meets local demand and supports his family. His story highlights the potential of self-business initiatives to create meaningful economic opportunities in rural areas.



80.0%

**Increase in
monthly earnings**

84.0%

**Trageted revenue
increment with time**

**Achieved Financial
Independence &
Self Sufficiency**

Testimonials



Anjana Kaul - SVP

"It has been an enriching experience to work with TIDE these past years. We hope that it has been beneficial for TIDE to work with SVP as a partner as well. Look forward to continued engagement in some form after the current grant is completed."

Mohan Alexander - SVP

"The TIDE organization is very professional and accountable for the projects it oversees. Over the past 24 months, SVP has been involved with the Areca farmers initiative and the TIDE team worked hard to ensure that the income generated for the farmers was profitable and more than sufficient to meet the needs of the farmers. I was not trying to make it difficult but I wanted to add something specific related to the Areca project so that readers of the TIDE annual report appreciate that the Areca project was well run."

Our Patrons

Commemorating 31 years of TIDE is more than just reaching a milestone; it represents decades of dedication, hard work from our team, and unwavering support from our funders and partners.

Reflecting on our journey, we are deeply grateful for the pivotal role our partners have played, both in the past and present. A special thanks to the funders and partners who maintained their trust in TIDE during its successful leadership transition. We take immense pride in our team, who honored that trust by successfully delivering projects and expanding TIDE's impact under new leadership.

As we look to the future, we are excited and eager for the next chapter of our journey. Together, with a shared vision and strong commitment to sustainability, livelihoods, and climate resilience, we will continue to collaborate, push boundaries, innovate, and create transformative change.

HCLFoundation

**MICROLAND[®]
FOUNDATION**



Concept Note: Building Hyperlocal, Sustainable, & Predictable Interventions in Rural Villages Using AI and Machine Learning

Rural communities face interconnected challenges from climate change, including impacts on water, waste, agriculture, energy, and gender inequality. The proposed initiative leverages AI and machine learning to build sustainable, hyperlocal solutions by analyzing and predicting outcomes from complex data across these areas.

Using primary, secondary, and tertiary data sources, this approach will establish relationships between environmental and socio-economic variables, enabling data-driven, context-specific interventions. Predictive models will identify the effects of agricultural practices, water availability, and other local factors to avoid unintended consequences.

This initiative aims to create a comprehensive "village index" for planning sustainable interventions. Grounded in machine learning models, the goal is to empower rural communities with tailored, sustainable solutions to mitigate climate impacts, drive resource optimization, and foster long-term resilience. The proof of concept will be developed by Q3, ensuring measurable impact and sustainability.

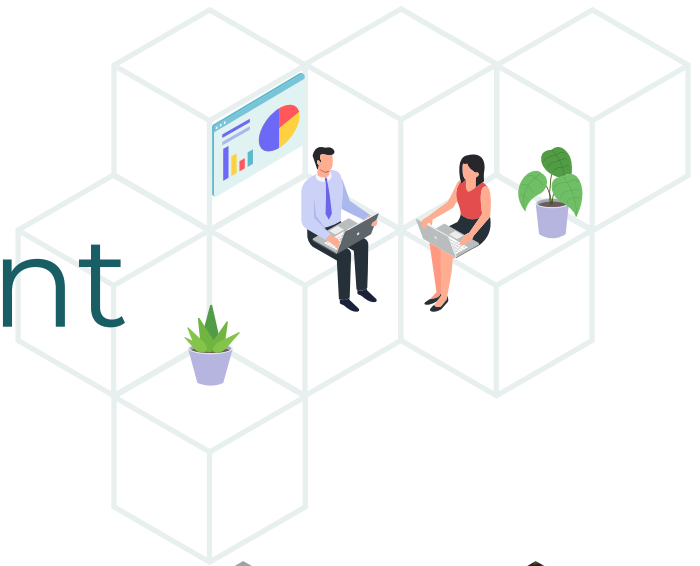
Testimonials

Kaushik Roy (AI Mentor) – Graduate Student at the Artificial Intelligence Institute, University of South Carolina

"It has been an enriching experience to work with TIDE. As a mentor with TIDE, I have had the pleasure and privilege of guiding the application of AI to this project implementation, specifically for informing insights that can help improve water quality and sanitation in rural areas. I have thoroughly enjoyed seeing the benefits of my subject matter expertise incorporated in designing innovative AI models that can analyze complex data sets and extract actionable insights. The main goal I aim to realize is to develop solutions that are accurate, interpretable, and aligned with the practical realities of the rural communities we seek to serve. Furthermore, my mentorship skills have been honed beyond technical guidance; I work closely with our interns and domain experts to ensure our AI solutions are contextually relevant and sustainable. By translating advanced AI concepts into practical strategies, I have seen first-hand how we can empower a team to make informed decisions, ultimately significantly impacting public health and environmental sustainability."



Council of Management



Our Board



Mr. Dinesh
Kagathi



Mr. Jayachandra
A N



Mr. S. Vishwanath



Ms. Gopi
Venkatraman



Ms. Sruthi
Krishnan

Our General Body



Bithi
Agarwal



Deepak
Krishnan



Dinesh
Kagathi



Dr. Hoysala
Chanakya



Dr. Rajagopalan
S



Gopi
Venkatraman



Jayachandra
A N



Ravichandran
K



Sampath
Kumar



Sonali
Srivatsav



Sruthi
Krishnan



Sumathy
Krishnan



Sunita
Suresh



Svati
Bhogle



S. Vishwanath



Dr. Sreekanta
Swamy



Our People



Amrita
Das



Anjali
Wagle K



Anuja
Bageshwar



Anuradha
S Nagaraj



Arjun
Kumar D



Ashwin
Kumar B



Atharva
Sawalkar



Balaji
Rao G



Dheepak
Khumar



Ganashree
K S



Gautam
Lahiri



Hansaprabha
Potdar



Jaswanth
C J



Jyothi
T B



Kiran
B



Nagalakshmi
V



Naveen
Kumar D E



Nishanth
K



Prahlad
Kumar



Pramod
P



Premanath
S K



Priya
Dharshani H



Priyanka
R



Rangaswamy
G



Samitha
M



Santhosh
Cibi V



Shankar
M



Shilakumari
A S



Shruti
Nimbargi



Sitara
Ayanna



Suma
H M



Suman
A



Sunil
Patil

Abridged Financials

TECHNOLOGY INFORMATICS DESIGN ENDEAVOUR

FF1, Sapthagiri Aparments, No.30, 10th Cross, 15th Main Road,
RMV Extension, Sadashivanagar, Bengaluru - 560080

Balance Sheet as at 31st March 2024

Particulars	Note No.	As at 31st March, 2024	As at 31st March, 2023
		In Rupees	In Rupees
SOURCE OF FUNDS			
Corpus - Award	1	7,36,970	7,36,970
General Fund	2	1,16,14,546	1,27,03,507
Entrepreneur Development Fund [EDF]	3	10,68,402	10,17,838
Staff Welfare Fund [SWF]	4	6,80,208	6,80,315
Total		1,41,00,126	1,51,38,630
APPLICATION OF FUNDS			
Fixed Assets	5	10,34,107	11,29,546
Current Assets			
- Advances & Deposits	6	4,33,700	4,82,700
- Receivables	11	512	80,301
- Fixed Deposit with Bank	7	1,00,50,000	1,29,50,000
- Other Current Assets	8	9,97,218	3,58,750
- Cash & Bank Balances	9	51,21,057	54,18,124
Total (A)		1,66,02,487	1,92,89,875
Less: Current Liabilities			
- Sundry Creditors	10	3,55,486	3,50,810
- Unspent Balances	11	31,80,982	49,29,981
Total (B)		35,36,468	52,80,791
Net Current Assets C = (A-B)		1,30,66,019	1,40,09,084
Total		1,41,00,126	1,51,38,630

Refer our Report of Even Date

For MSSV & Co.,
Chartered Accountants
FRN 001987S

Ravi Prasad
Partner

Membership No.203414

Place: Bangalore

Date: September 18, 2024



For Technology Informatics Design Endeavour

Dinesh J Kagathi

Dinesh J Kagathi
Chairman

A.N. Jayachandra

A.N. Jayachandra
Secretary

Gautam Lahiri

Gautam Lahiri
Executive Director

Place: Bangalore

Date: September 18, 2024

TECHNOLOGY INFORMATICS DESIGN ENDEAVOUR
FF1, Sapthagiri Apartments, No.30, 10th Cross, 15th Main Road,
RMV Extension, Sadashivanagar, Bengaluru - 560080

Income and Expenditure account for the year ending 31st March 2024

Particulars	Schedule No.	For the year ended 31st March, 2024	For the year ended 31st March, 2023
		In Rupees	In Rupees
INCOME			
(A) Project grants	11	4,29,01,341	3,80,33,110
Add: Interest earned on project grants	11	1,08,163	1,10,371
Unspent balance b/f from previous year	11	48,08,393	32,51,946
Less: Unspent Balance at the end of the year	11	31,04,767	48,08,393
		4,47,13,130	3,65,87,034
(B) Donations received	11	94,025	1,43,715
Add: Unspent balance b/f from previous year	11	41,287	72,381
Less: unspent balance at the end of the year	11	75,703	41,287
		59,609	1,74,809
(C) Other income			
- Overhead recovery	11	29,75,700	23,40,818
- Usage of TIDE facilities	11	-	52,654
- Interest received		5,99,664	5,29,759
- Miscellaneous income		-	11,148
- Admin cost of sarala stoves		400	3,050
- Other Admin cost recovered		12,500	6,250
- Other Activities unspent balance from Previous Project		-	-
(D) Service income		10,23,650	4,74,861
Total Income (A)		4,93,84,653	4,01,80,383
EXPENDITURE			
(A) Project expenses during the year	11	4,47,00,742	3,65,87,035
(B) Donation related expenses	11	70,117	1,74,808
(C) Administration expenses			
- Secretariat expenditure	12	46,26,006	31,17,117
- Depreciation	5	1,03,109	1,24,416
(D) Expenses Against Service Income		9,73,640	4,70,091
(E) Claims from DST not receivable		-	4,42,506
Total Expenditure (B)		5,04,73,614	4,09,15,973
Excess of expenditure over income for the year carried to Balance sheet	C = (A-B)	(10,88,961)	(7,35,590)

Refer our Report of Even Date

For MSSV & Co
Chartered Accountants
FRN 001987S

Ravi Prasad
Partner
Membership No.203414

Place: Bangalore
Date: September 18, 2024



For Technology Informatics Design Endeavour

Sinesh
Dinesh J Kagathi
Chairman

A.N. Jayachandra
A.N. Jayachandra
Secretary

Gautam Lahiri
Gautam Lahiri
Executive Director

Place: Bangalore
Date: September 18, 2024

TECHNOLOGY INFORMATICS DESIGN ENDEAVOUR FFI, Sapthagiri Apartments, No.30, 10th Cross, 15th Main Road, RMV Extension, Sadashivanagar, Bengaluru - 560080								
Receipts and Payment account for the year ending 31.03.2024								
Particulars		TIDE	FCRA	Project	EDF	SWF	For the year ended 31st March, 2024	
							In Rupees	In Rupees
RECEIPTS								
Opening Balance								
- Cash on Hand	9	1,590	5	12	-	326	1,933	
- Cash at Bank	9	24,46,290	25,73,216	57,482	2,13,694	1,25,507	54,16,189	54,18,122
Project Receipts								
- Grant - Specific Projects / Programmes	11	1,64,88,002	2,64,13,339	-	-	-	4,29,01,341	
- Donations	11	76,702	17,323	-	-	-	94,025	4,29,95,366
Overhead Recovery / Receipt - Per Contra		13,49,911	-	-	-	-	13,49,911	13,49,911
Usage of Facilities Recovery / Receipt - Per Contra		-	-	-	-	-	-	-
Interest Received								
- Interest on I.T refund		-	-	-	-	-	-	
- Interest on Staff Loan		-	-	-	-	8,600	8,600	
- FD interest		5,78,211	-	-	38,602	37,834	6,54,647	
- SB interest		3,373	1,00,408	-	6,278	4,671	1,14,730	7,77,977
Recoveries								
Travel / Project Advance Recovery								
- Staff/ Entrepreneurs and others		17,98,681	6,38,230	-	-	-	24,36,911	24,36,911
Salary Deductions - Recovery								
- Professional Tax		50,600	19,000	-	-	-	69,600	
- Provident Fund		10,11,144	4,30,658	-	-	-	14,41,802	
- SWF Loan		57,400	89,735	-	-	-	1,47,135	
- Gratuity		2,21,313	1,23,850	-	-	-	3,45,163	20,03,700
Admin Charges		41,992					41,992	41,992
Other Recoveries								
- TDS Recovery (Consultants/Contractors)		7,69,606	5,15,627	-	-	-	12,85,233	
- GST		1,88,539	46,783				2,35,322	15,20,555
Other Receipts / Refunds								
- Interest Receivable on F.D (Receipt)		26,000	-	-	4,144	3,719	33,863	
- TDS refunds		-	-	-	3,036	3,699	6,735	
- TDS IGST		5,915	-	-	-	-	5,915	
- Receipt of Outstanding		10,695	-	-	-	-	10,695	
- Refund of Rent Advance			21,000		1,00,000		1,21,000	
- Refund of Staff Loan						1,67,735	1,67,735	
- Other receipts		-					-	3,45,943
- Fixed Deposit - Withdrawal								
- NON-FCRA		49,00,000	-	-	-	-	49,00,000	
- FCRA		-	-	-	-	-	-	49,00,000
Sundry Debtors								
Received against Invoices		3,75,535					3,75,535	3,75,535
Other Misc Income								
Other miscellaneous income		400	-	-	-	-	400	400
Entrepreneur Development Fund (Receipts)		-	-	-	50,000	-	50,000	50,000
Staff Welfare Fund (Receipts)		-	-	-	-	-	-	-
Inter office account				1,253			1,253	1,253
Total		3,04,01,899	3,09,89,174	58,747	4,15,754	3,52,091	6,22,17,665	6,22,17,665



Particulars		TIDE	FCRA	Project	EDF	SWF	For the year ended 31st March, 2024	
							In Rupees	In Rupees
PAYMENTS								
Project Expenditure								
- Specific Projects / Programmes	11	1,74,04,516	2,56,63,527	-	-	-	4,30,68,043	
- Donation related expenses	11	52,716	17,402	-	-	-	70,118	4,31,38,161
Secretariat Expenditure	12	46,06,006	-	-	-	-	46,06,006	46,06,006
Audit Fees		50,000					50,000	50,000
Travel / Project Advance								
- Staff		9,41,084	8,57,933	-	-	-	17,99,017	
- Entrepreneurs /Others		15,92,426	-	-	-	-	15,92,426	33,91,443
Staff Loan						70,150	70,150	70,150
Deposits								
Fixed Deposit								
- NON-FCRA		20,00,000	-	-	-	-	20,00,000	
- FCRA		-	-	-	-	-	-	20,00,000
- EDF		72,000					72,000	72,000
Mumbai Office Deposit								
Salary Deductions - Remittance								
- Professional Tax		48,800	20,600	-	-	-	69,400	
- Provident Fund		9,69,634	4,56,278	-	-	-	14,25,912	
- SWF Loan		70,400	93,935	-	-	-	1,64,335	
- Gratuity		2,21,313	1,23,850	-	-	-	3,45,163	20,04,810
Admin charges of PF/EDLI Contribution		40,355	17,724				58,079	58,079
- TDS - (Consultants / Contractors)		6,39,585	6,06,178	-	-		12,45,763	
- TDS - Grantors / Bank		94,405	-	-	2,433	3,291	1,00,129	
- GST		1,92,792	46,783				2,39,575	15,85,467
- TDS GST		5,915					5,915	5,915
Entrepreneur Development Fund (expenses)		-	-	-	50,354		50,354	50,354
Staff Welfare Fund (Payments)		-	-	-	-	55,300	55,300	55,300
Inter office Accounts			-	1,253	-		1,253	1,253
Fixed Assests		7,670	-	-	-	-	7,670	7,670
Closing Balance								
- Cash on Hand	9	1,290	5	12	-	-	1,307	
- Cash at Bank	9	13,90,992	30,84,959	57,482	3,62,967	2,23,350	51,19,750	51,21,057
Total		3,04,01,899	3,09,89,174	58,747	4,15,754	3,52,091	6,22,17,665	6,22,17,665

Refer our Report of Even Date

For MSSI & Co
Chartered Accountants
FRN 001987S

Ravi Prasad
Partner
Membership No.203414

Place: Bangalore
Date: September 18, 2024



For Technology Informatics Design Endeavour

Dinesh K...
Dinesh Kargahi
Chairman

A.N. Jayachandra
A.N. Jayachandra
Secretary

Gautam Lahiri
Gautam Lahiri
Executive Director

Place: Bangalore
Date: September 18, 2024



Technology Informatics Design Endeavour

A Science and Technology NGO

Contact Us



Email ID & Website
info@tide-india.org
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Cross, 15th Main Road, RMV Extension,
Sadashivnagar, Bengaluru - 560080