



SPARK OF CURIOSITY

Annual Report

2023-24

Sare Taare Zameen Par Trust:

STZPT is a non-profit organization. That aims to bring considerable change in rural education by providing them Immersive and Experiential learning. Tare Zameen Par is a science outreach program that takes Astronomy, Science and Math concepts to the doorsteps of the underprivileged students.

www.tarezameenpar.org

Spark of Curiosity:

Spark of Curiosity is one of the most appreciated programs of TZP. It is a whole academic year engagement program that provides Immersive and experiential learning along with fun activities that ignites the spark of curiosity among students.



$$E=MC^2$$

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Program Overview

In the Academic Year 2023-24, the Spark of Curiosity project targeted 4000 students across 14 schools in North Karnataka. This expansion into previously underserved regions was made possible through collaborative efforts with local authorities and educational institutions. The program sought to bridge the gap in educational resources and opportunities between rural and urban areas, with a focus on empowering students with hands-on learning experiences.



DISTRICT SELECTION :

Through consultations with District Deputy Public Instruction (DDPI) and District Collectors (DCs), Gadag district from North Karnataka was selected as the target district for the program. A comprehensive database of 6,000 students was obtained from DDPI Gadag, serving as a valuable resource for planning and implementation.

SCHOOL SELECTION AND ROADMAP :

Through consultations with District Deputy Public Instruction (DDPI) and District Collectors (DCs), Gadag district from North Karnataka was selected as the target district for the program.

Gadag District



Targeted Students (Beneficiaries)

Block Name	No	CRP Name	School Name	7	8	9	10	
Mundaragi	1	Korlahalli	Adarsha Vidyalaya (RMSA) Mundaragi	76	79	80	74	309
	2	Kadampur	Karnataka Public School Doni	0	94	97	100	291
	3	Shingatalur	Govt Highschool Shingatalur	0	60	64	99	223
Ron	4	Soodi	Adarsha Vidyalaya (RMSA) ITAGI	71	77	75	79	302
	5	Gajendragadh South	Govt Girls Highschool Gajendragadh	0	187	180	180	547
Shirahatti	6	Shirahatti	Shree CCN Govt HS Shirahatti	0	160	220	145	525
	7	Bellatti	Karnataka Public School BPA HS Bellatti	0	120	115	160	395
	8	Myageri	Govt Model Primary school	82	0	0	0	82
	9	Shirahatti	Gvt primary Girls school	45	0	0	0	45
	10	Shirahattii	GMPS Shirahatti	31	0	0	0	31
	11	Suranagi	Govt HS Balehosur	0	102	90	94	286
	12	Magadi	Smt N V Angadi Govt High school Magadi	0	85	105	75	265
Gadag Rural	13	lakkundi	Govt Girls HS Lakkundi	0	65	86	78	229
Gadag City	14	Gadag City	Govt H S SiddhalingaNagar Gadag	0	138	166	182	486
				305	1167	1278	1266	4016

Inauguration Event – 24th July

The Inauguration event was held on 24th July 2023 at Govt High School Siddhalinganagar, Gadag

- **Chief Guest:** Smt. Vaishali M.L. (IAS), District Commissioner & Magistrate
- **Guests of Honor:** Mr. Anand Kadakol, Organic Farmer at Devataru Farmand Investor in many startups
Mr. Bijay Chowdhury (Virtually Invited), CSR Head at Synopsys
- **Event Highlights:**
 - Science Kit Distribution
 - Captivating Mobile Planetarium Show
 - Fascinating Session on the "Science of Black Magic"
 - Engaging Mini Science Fair
 - Knowledgeable Address by Guest of Honors
- **Special Recognition:** Felicitation of all participants of the Mini Science Fair (Note: Technical issues prevented Mr. Bijay Chowdhury's virtual presence, but his support was acknowledged and appreciated)

SYNOPSIS FOR GOOD **tare zameen par**
IGNITING YOUNG MINDS

Spark Of Curiosity
ಕುತೂಹಲದ ಕಿಡಿ
INAUGURATION

Cordially Invites you to join "Spark of Curiosity"
an initiative to spark curiosity about science and math using
Immersive, Experiential & Inspirational Learning

JULY 24 11:00 AM
Govt High School Siddhalinganagar, Gadag

Chief Guest

Smt. Vyshali M. L., IAS
Deputy Commissioner & District Magistrate, Gadag

Guests of Honor

Mr. Anand Kadakol
Organic Farmer at Devataru Farm & Investor in Startups

Mr. Bijay Chowdhury
CSR Head (Asia Pacific) at Synopsys (Donor) [Virtual Presence]

Special Guests
Mr. Prabhuraj Aparanji
Chairman | Saare Tare Zameen Par Trust
Mr. A C Gopal
Trustee | Saare Tare Zameen Par Trust Former Secretary, Sanyukta Karnataka
Mr. Dinesh Badagandi
Founder | Saare Tare Zameen Par Trust
Mr. Abhijeet Chaudhari
Trustee | Saare Tare Zameen Par Trust
Smt. Parvati Basavaraj Vastrad
Head Mistress | Govt. High school Gadag

- 11:00 Lighting the Lamp & Invocation Song
- 11:05 Welcome Address By Dinesh Badagandi, Founder, Tare Zameen Par
- 11:08 Introduction of Guests
- 11:15 Launch Of Kutuhalada Kidi By Chief guest Smt. Vyshali M. L., IAS Deputy Commissioner & District Magistrate
- 11:20 Felicitation of Science Fair participants
- 11:28 Science of Black Magic by Mr. Vijaykumar
- 11:34 Address By Guest of Honor Mr Anand Kadkol
- 11:44 Virtual Address by Guest of Honor Mr Bijay Chowdhury
- 11:54 Address By Chief Guest
- 12:06 Distribution Of Science Kits
- 12:16 Vote Of Thanks

Event Snaps



Program Activities and Implementation:

Distribution of Science Kits

- Input: Comprehensive science kits containing a diverse range of educational materials, including DIY experiments, models, and instructional guides, were procured.
- Output: Each participating school received science kits tailored to the curriculum and grade level, enabling students to conduct practical experiments and investigations.
- Outcome: Students gained firsthand experience with scientific concepts and developed critical thinking skills through hands-on exploration.



Regular Visits by Dedicated Science Teachers:

Following the inauguration, our dedicated science teachers, Mr. Vijaykumar Angadi and Mr. Vijaykumar Hiremani commenced their regular visits to the school, adhering to the teaching schedule developed during the first quarter. They conducted a series of hands-on learning activities using the science kits. These activities were well-received by the students, making it easier for them to comprehend complex science concepts from their syllabus. The enthusiasm and engagement observed among the students were highly encouraging.



- **Input:** A team of trained science educators was deployed to conduct regular visits to partner schools.
- **Output:** Teachers facilitated interactive learning sessions, demonstrations, and experiments to supplement classroom instruction.
- **Outcome:** Students received individualized attention and support, leading to improved academic performance and confidence in STEM subjects.

Mobile Planetarium Shows:

Immersive and awe-inspiring planetarium shows transported students into the vastness of the universe. The cosmic journey not only aligned with their curriculum but also ignited a passion for astronomy and space exploration.



- **Input:** Portable planetarium equipment was utilized to create immersive astronomy experiences for students.
- **Output:** Mobile planetarium shows were conducted in each school, allowing students to explore celestial phenomena and astronomical concepts.
- **Outcome:** Students developed a deeper appreciation for astronomy and gained insights into the wonders of the universe.

Quiz Competition - 'Kaun Banega Saupati':

Interactive quiz competitions served as a fun yet effective method to reinforce learning. Covering a spectrum of subjects, these quizzes encouraged healthy competition, critical thinking, and a deeper engagement with academic content.



- **Input:** Quiz competition materials, including questions, prizes, and certificates, were prepared.
- **Output:** The quiz competition was organized, engaging students in friendly competition and intellectual challenges.
- **Outcome:** Students demonstrated their knowledge and understanding of STEM topics, fostering a spirit of healthy competition and academic achievement.

Expert or Scientist Talks:

Insights from expert speakers brought real-world applications of scientific concepts to the forefront. Students had the invaluable opportunity to interact with professionals, expanding their understanding of various fields and potential career paths



- **Input:** Subject matter experts and scientists were invited to deliver engaging presentations and lectures.
- **Output:** Interactive sessions were conducted, allowing students to interact with professionals and learn about cutting-edge research and developments in STEM fields.
- **Outcome:** Students were inspired to pursue careers in science and technology, motivated by real-world applications and success stories shared by guest speakers.

Science Through Origami Sessions:

Origami could be the best tool to learn science and math, the models for the kits are developed by using paper, so it takes no cost, and also after having these sessions with our expert, the student can build their models or they can make their science kit or math kit by their own and can transfer that knowledge within other students or juniors in a playful way. Hence it can have a sustainable impact.



- **Input:** Origami materials and instructions were provided to promote creativity and spatial reasoning skills.
- **Output:** Students participated in hands-on origami workshops, creating intricate paper sculptures and designs.
- **Outcome:** Students honed their fine motor skills, creativity, and concentration, while also exploring mathematical concepts and geometric principles through the art of origami.

Assessments:

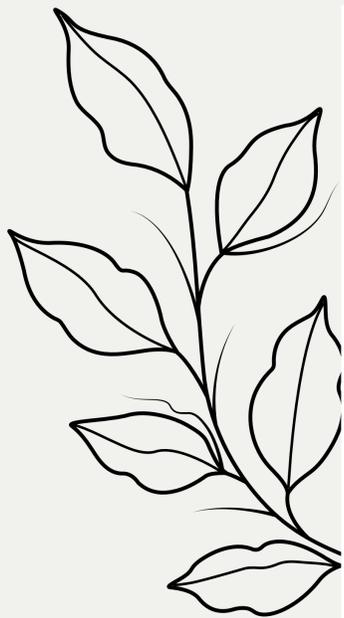
As part of our ongoing evaluation process, we conducted a pre-assessment test for all students. This questionnaire aimed to gauge their baseline knowledge of general applied science. The results will serve as a benchmark to measure improvements as we progress with the program. A similar assessment will be conducted at the end of the program to assess the learning outcomes and the overall success of our efforts.



- **Input:** Pre- and post-assessment tools were developed to measure students' learning outcomes and progress.
- **Output:** Assessments were administered before and after the program to gauge the effectiveness of the interventions and identify areas for improvement.
- **Outcome:** Data analysis revealed significant gains in students' knowledge, understanding, and retention of STEM concepts, validating the impact of the Spark of Curiosity program on academic achievement and learning outcomes.

Program and Outcomes:

- Increased student engagement and participation in STEM education.
- Enhanced academic performance and achievement in science and mathematics.
- Improved attitudes towards learning and greater enthusiasm for exploring scientific concepts.
- Empowerment of teachers with new instructional strategies and resources for effective teaching.
- Strengthened partnerships with schools, communities, and corporate stakeholders in support of educational initiatives and social impact projects.



Success of Mini Science Fair

During the Inauguration event, we organized a Mini Science Fair. Students inspired by Hands-On learning activities brought up a few ideas for science demonstrations. One of those ideas won the hearts of Guests.



- **Student's Name:** Karthik Katavate
- **Project:** Rain Detector for Farmers
- **Achievement:** The student's innovative rain detector model was showcased at the Mini Science Fair and caught the attention of the Guest of Honor, Mr. Anand Kadakol.
- **Reward:** Impressed with the idea and efforts, Mr. Kadakol generously awarded the student with a grant of ₹10,000 to develop a working prototype of the rain detector.
- **Commercial Potential:** Mr. Kadakol expressed keen interest in potentially commercializing the model if it proves successful.

KPIs

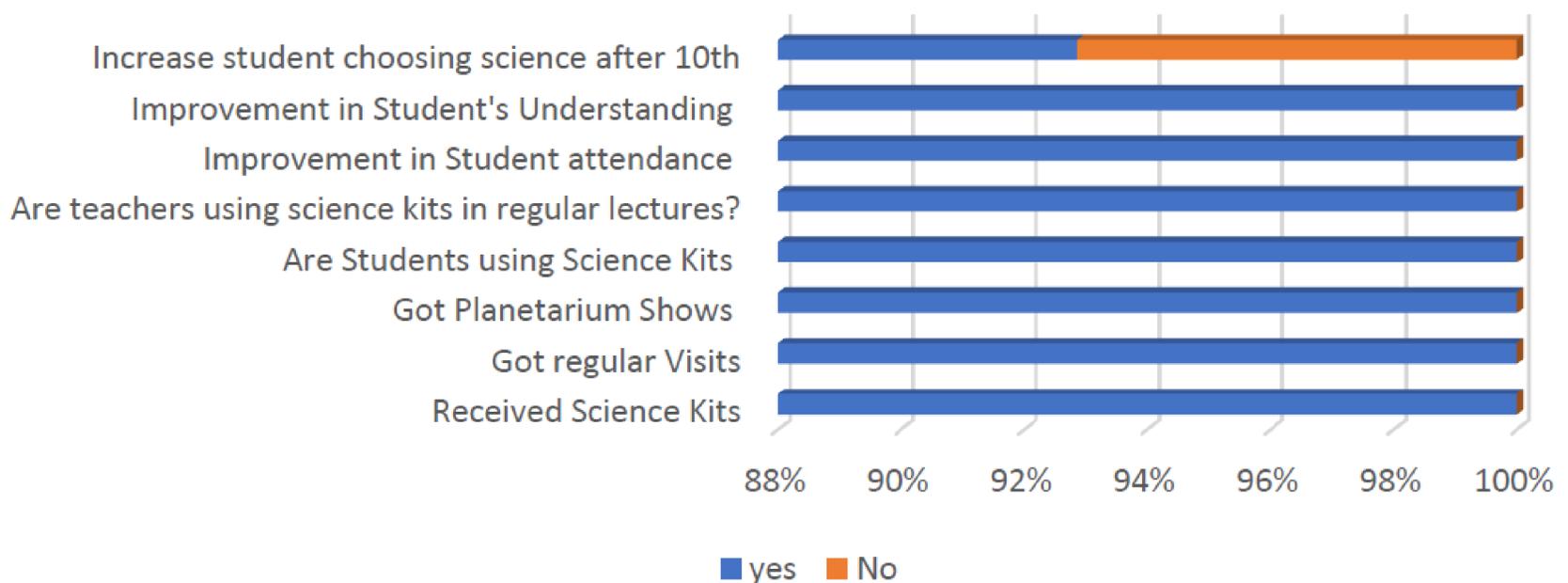
	Targeted	Executed
No of Science Kits distributed	4000	4016
No. of Total School Visits	216	224
Total Number of Planetarium Shows	10	14
Total Number of Expert talks	4	14
Total Number of Group Activities	6	11



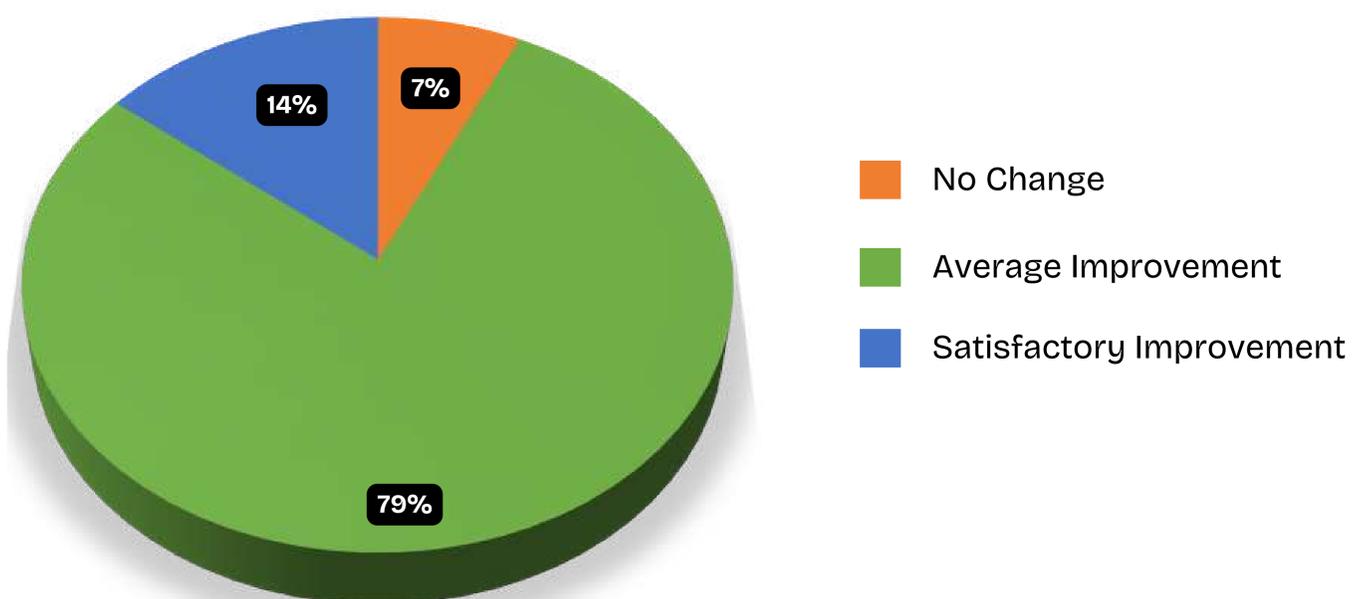
Survey in Currently operating schools:

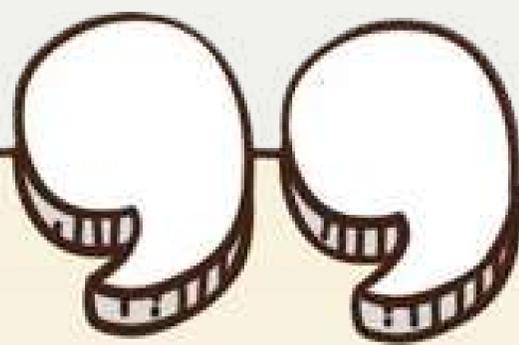
- Conducted a comprehensive feedback survey across all schools currently participating in the Spark of Curiosity program.
- Gathered insights and feedback from teachers, and school administrators regarding the effectiveness and impact of the program.
- Analysed the survey responses to assess areas of improvement and identify successful aspects of the program.
- The survey covered various aspects such as student engagement, teacher training, usage of science kits, attendance improvement, and overall satisfaction with the program.

Survey Data



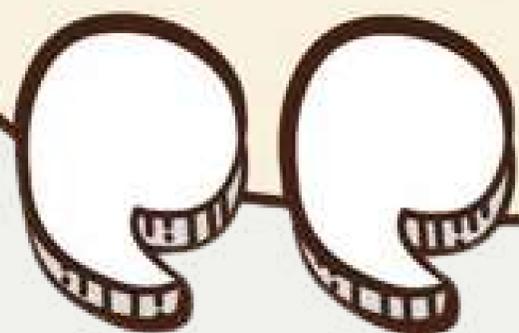
Improvement in Understanding Science and Math Concept





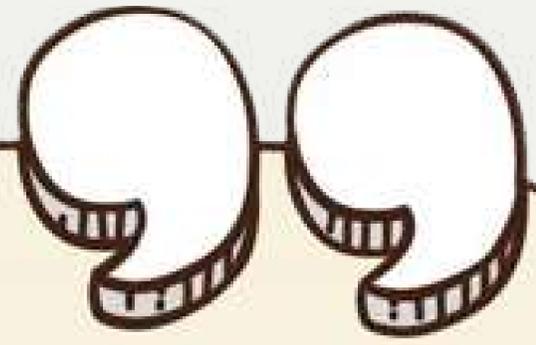
My name is Veena Pachappa, and I grow up in a farming family as a Lambani girl. My parents work really hard to send me to school. Seeing how much they care, I feel a strong desire to help them someday.

I start using science kits in school, and it boosts my confidence. It makes me believe in myself. I know that one day, I will be able to take care of my parents and be independent because of what I am learning.

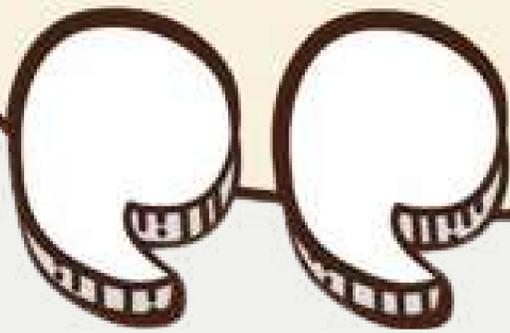


Veena Pachappa





My name is Vinay Desaipatti, and my father is a farmer. I am currently studying in the 10th grade at CCN Gov High School. Every day, I travel from my village to school. In towns, we see tools that are not available in villages. Inspired by "Tare Zameen Par," the organization has shown us science kits and a planetarium. We dream that one day we will lead in science and technology, making our village proud. We thank "Tare Zameen Par" for their support.



Vinay Desaipatti

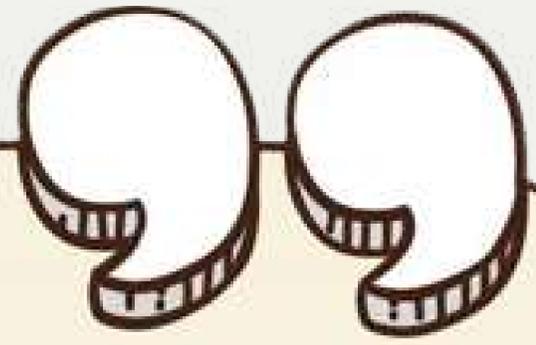


"These rural kids have the same potential as urban kids; they just need the right guidance and access to modern technology. We support young entrepreneurs and have seen many creative ideas. However, when I saw the ideas presented in the Mini Science Fair through the Spark of Curiosity program, I was amazed to see the beautiful ideas presented by these rural kids. We have picked a few of them to give them entrepreneurship ideas. Kudos to 'Taare Zameen Par' for such an initiative, and thank you, Synopsys, for supporting such a noble initiative."

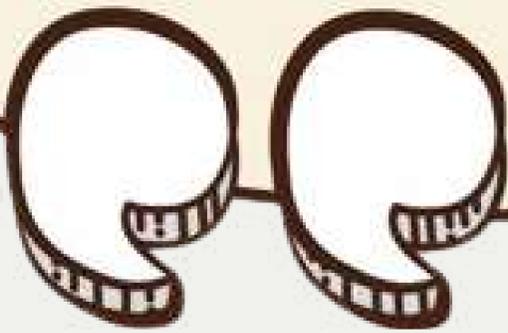
Mr Anand Kadakol

Founder, Devataru Organic Farming





"The Tare Zameen Par Trust has distributed science kits to our students. All students are learning very effectively using the kits. Additionally, expert lectures, planetarium shows, and all activities have sparked curiosity among students, encouraging them to enjoy learning. All teachers from Tare Zameen Par, guest speakers, and trustees have guided students on reducing exam fear. The Spark of Curiosity program is very innovative, and we are thankful to all of them for choosing our school for this. Thank you."



Mr. Umesh Gangapur

Teacher, Karnataka Public school, Doni



Conclusion:

The Spark of Curiosity project has made a tangible difference in the lives of students and communities in rural Karnataka, providing them with access to high-quality education and opportunities for personal and academic growth. With continued support and collaboration from partners like Synopsys India Pvt Ltd, Tare Zameen Par remains committed to expanding its reach and impact, empowering more students to pursue their dreams and build a brighter future for themselves and their communities.

Abhijeet Chaudhari
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