

REPORT OF
ENTREPRENEURSHIP CAPACITY BUILDING CELL (E-CBC)
ACTIVITIES DURING APRIL – DECEMBER 2023

Center: Government Science College, Vankal
Ta: Mangrol, Dist: Surat



Implemented by
Savli Technology and Business Incubator [STBI], Vadodara
Department of Science & Technology, Government of Gujarat

Powered by
Gujarat State Biotechnology Mission
[GSBTM], Gandhinagar
Department of Science & Technology, Government of Gujarat

ABOUT COLLEGE

Located in the tribal region of South Gujarat, Government Science College, Vankal (GSC, Vankal) is one of the premier public funded colleges in the state of Gujarat. The College was established by the Department of Education, Government of Gujarat in the year 2012 to provide and promote quality education to the youth coming from underprivileged tribal communities.



The college is affiliated to Veer Narmad South Gujarat University, Surat. Since its inception, the college has been playing a pivotal role in bringing about a marked change in the erstwhile underdeveloped tribal region by enrolling around a 1000 students every academic year. Besides regular academics a number of training and skill development programs are regularly organized to enhance the competency of students.

The college has state of the art infrastructure and basic research facilities to promote all-round development of students. At present, the college boasts of its academic excellence with highly capable and dedicated faculties well versed and established in their respective disciplines and selected through GPSC.

ABOUT THE E-CBC CENTRE: GOVERNMENT SCIENCE COLLEGE, VANKAL

Government Science College, Vankal has one of the few Entrepreneurship Capacity Building Cells (E-CBCs) established by Gujarat State Biotechnology Mission (GSBTM) in December 2022. One of the major challenges of Biotechnology-based start-ups is that they have longer gestation periods and higher risk. Because of this very few young innovators, especially students, come up with biotechnology-based start-up ideas. If proper incubation support, including financial, mentoring, and laboratory infrastructure support, is provided to young ideators, wherein they can test the viability of their ideas, they can come up with good start-ups in the biotechnology sector too. To encourage start-up ideas in the biotechnology sector, GSBTM has taken this initiative to establish biotechnology incubators at different educational institutes spread across different regions of Gujarat. The role of the cell is to provide mentoring, incubation, financial, and infrastructure support to budding startups in the field of biotechnology. Establishment of a biotechnology-based E-CBC in a college located in a tribal region like ours will play a crucial role not only in boosting the confidence of tribal students towards business opportunities in biotechnology but will also help in fostering development, empowerment, and sustainability.

Establishment of Biotechnology Entrepreneurship Capacity Building Cell at Government Science College, Vankal will foster

1. **Entrepreneurship and innovation** in biotechnology sector among tribal communities. Incubation centers create a conducive environment for innovation and entrepreneurship, encouraging the establishment of biotech startups in tribal regions. Incubation centers can facilitate use of biotechnology knowledge and skills for solving local problems.
2. **Skill development and capacity building** in tribal students pursuing life science subjects. Training programs and workshops organized by E-CBC center can help to educate tribal students and up skill them with modern technologies.
3. **Preservation of indigenous knowledge** and its application using modern tools of biotechnology
4. **Social inclusion and empowerment:** The presence of biotechnology incubation centers promotes inclusivity by ensuring that tribal communities have access to opportunities in the growing biotech industry. Tribal individuals are empowered to leverage their unique resources and traditional knowledge in the biotechnology sector, fostering a sense of pride and self-sufficiency.
5. **Sustainable development** using biotechnology wherein Biotechnology can be employed for sustainable agricultural practices, waste management, and environmental monitoring, contributing to the overall sustainable development of tribal regions
6. **Job creation and income generation** thus leading to economic development. E-CBC can help to generate employment opportunities by nurturing local talent and entrepreneurs in the biotechnology sector. This can contribute to reducing unemployment rates in tribal regions. The establishment of biotech businesses can lead to increased income for individuals and communities, thereby enhancing the overall economic well-being of tribal areas.

Activities carried out by E-CBC at Government Science College, Vankal:

1. Innovation and Incubation activities: Immediately after it's established in December 2022, in January 2023 the E-CBC at GSC, Vankal announced call for proposals from young student biotechnology ideators and innovators. To familiarize students towards this cell, student sensitization seminars were conducted in the college for all students pursuing their undergraduate program.

Government Science College, Vankal
Jointly with GSBTM & STBI invite
INNOVATIVE IDEAS
from Ideators, Innovators, and StartUps for
Pre-incubation support under the Network of
**Entrepreneurship-
Capacity
Building
Cells**
For IDEATORS, INNOVATORS & START-UPS
to support the young innovators/ideators
with Grant-in-aid Funding, Incubation & Mentoring
CALL OPEN
LAST DATE TO APPLY
23rd January, 2023
Application Link :
<https://vk.gv/ideats>
Government Science College, Vankal
Co-ordinator: Dr. Anil Kumar Singh
Deputy Co-ordinator: Dr. Nigam Advvarto
Email: akshg@gvst@gmail.com Email: anigamadvvarto@gmail.com
Knowledge and Education Partner: SARDI TECHNOLOGY AND BUSINESS INCUBATOR
Powered by: GUJARAT STATE BIOTECHNOLOGY MISSION

The center received fourteen proposals for financial and incubation support. The list of the proposals received are provided in table 1. These proposals were initially scrutinized (0th screening) for suitability and feasibility by the institutional screening committee. Out of the fourteen proposals except for one proposal which was not related to biotechnology, all other proposals were passed and were selected for **idea pitching** before a panel of experts from GSBTM and STBI for funding and support.

Table 1: List of projects under E-CBC GSC, Vankal for preliminary screening

| S.No. | Name of Applicant | Mobile No | Project |
|-------|----------------------------------|------------|---|
| 1. | Mandar Shirish Dixit | 9975299504 | Curd maker |
| 2. | Devyani B Chaudhari | 8758886444 | Chlorophyll water |
| 3. | Khushbu Hasmukhbhai Patel | 6353891496 | Development of Model Root Culture System |
| 4. | Chaudhari Shrujal Dilipbhai | 8238676528 | Environmental pollution caused by synthetic dyes |
| 5. | Monaliben Sangdot | 9099448351 | Biocontrol for eutrophied water bodies |
| 6. | Gamit Nilaykumar Sajjanbhai | 9512686235 | Post-harvest Management Strategy |
| 7. | Ruchi Maheshbhai Patel | 9586426617 | Development and production of secondary metabolites via different elicitors |
| 8. | Artiben Bhikhubhai Chaudhari | 7874393137 | Menstrual cramp reliever formulation |
| 9. | Jaydeep Chaudhari | 8238737396 | Vegetarian Chitosan Tablets |
| 10. | Balram Kishor singh | 7677733145 | Sucrose alternate from Stevia |
| 11. | Ahmed Shabbir Savani | 7878949702 | Personalized Bhasma; Nanomedicine in Ayurveda in the terms of safety and efficacy |
| 12. | Priyanshi Gajendrasinh Atodariya | 9313668279 | Drug for Migraine |
| 13. | Bunha Hemangi Kanubhai | 8780156366 | Herbal Cosmetics. |
| 14. | Kosamia Zankumari Ketansinh | - | Gas leak Detection Device |

After the idea pitching, three out of the thirteen proposals were selected for funding and incubation support. The details of the innovators, their project and funding support provided are as follows.

Details of innovators and ideas being incubated at GSC, Vankal

1. Name of Ideator: Khushbu H. Patel

Domain: Plant Biotechnology/Agricultural Biotechnology

Title of Project: Development of Model Root Culture System: “The Root Factories”

Budget Sanctioned: 3.0 Lakhs



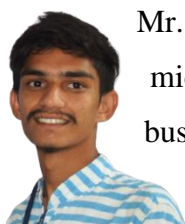
Dr. Khushbu Patel has completed bachelors and masters from Department of Biotechnology, Veer Narmad South Gujarat University, Surat. She has done dissertation work in the field of Plant Tissue culture and also has training in this field and 5 years of experience in the same.

2. Name of Ideator: Jaydeep Chaudhari

Domain: Nutraceuticals

Title of Project: Chitosan Tablets from Mushrooms

Budget Sanctioned: 2.5 Lakhs



Mr. Jaydeep Chaudhari has just completed his undergraduate degree in microbiology from Government Science College, Vankal. He has the passion of business and want to convert his knowledge in microbiology and biotechnology into successful entrepreneurial venture. He is interested in trying new thing and exploring the possibility of converting innovative ideas in the field of life sciences to commercial success. He sees a good opportunity in exploiting chitosan, a waste of seafood industry, to high end products.

3. Name of Ideator: Ahmed Shabbir Savani

Domain: Nanotechnology/Ayurvedic preparation

Title of Project: Personalized Bhasma; Nanomedicine in Ayurveda

Budget Sanctioned: 3.5 Lakhs



Dr. Ahmed Savani, MD Ayurveda Scholar @ GMARC Goa. He has completed BAMS Graduation in 2019 along with an internship from Shri O.H Nazar Ayurveda College, Surat, Gujarat; Gujarat Ayurveda University Jamnagar. He has recently completed CRAV - RSBK, 1 year Certificate Fellowship Course of

Rashtriya Ayurveda Vidyapeeth New Delhi from Punarvasu Aushadhshala Pune in Rasashastra & Bhaishajya Kalpana ~ Pharmacy. He has clinical practice experience of more than 2 years.

2. Student Sensitization activities:

Two student sensitization activities were conducted by the E-CBC of Government Science College, Vankal. In the first **student sensitization activity** the student of the college were sensitized towards entrepreneurship and innovation by means of lecture seminar. The event was organized on 25th July 2023. Total 215 students across disciplines participated in this seminar.



Second **student sensitization seminar** on the topic “Entrepreneurship: A Great Career Opportunity” was organized by the E-CBC cell for school students of Jawahar Navodaya Vidyalaya on 26th July 2023. The seminar was followed by an “Idea Hackathon” in which students were asked to come up with innovative solutions to different problems faced by people in daily lives. Total 100 students of classes IX and X participated in this event.





To inculcate entrepreneurial mindset in students the E-CBC of GSC Vankal in association with the Zoology department organized hands on **workshop on honey bee keeping** and interaction with successful entrepreneur, Mr. Ashok Patel. Dr. Jayesh Pastagia, Head of Entomology Department, College of Agriculture, Waghai has presided over the event as chief guest and key note speaker. He highlighted the various entrepreneurial opportunities present in the bee keeping sector. He also explained the intricacies of bee keeping business and government support for the same. Total 150 students participated in this event and gained knowledge.



Twenty four students of GSC Vankal who exhibited interest in entrepreneurship as career, were provided with **training (40 hrs) in Entrepreneurship Development** in association with NSIC, Rajkot.



The E-CBC at Government Science College, Vankal is thus actively functioning to propagate entrepreneurship among students by arranging different seminars, workshops, training programmes and ideathons. It is also providing necessary infrastructure, mentoring and incubation support to budding biotechnopreneurs.

The E-CBC of GSC Vankal is extremely thankful to GSBTM and STBI, Vadodara for their support and guidance.

A handwritten signature in blue ink, appearing to read 'Anil'.

Dr. Anil Kumar Singh,

Coordinator, E- CBC,

Government Science College, Vankal