

# LOYOLA ACADEMY

(DEGREE & PG COLLEGE)

OLD ALWAL, SECUNDERABAD - 500 010, TELANGANA, INDIA

(Autonomous and Affiliated to Osmania University)

Re-accredited with 'A' Grade (III Cycle) by NAAC

A "College with Potential for Excellence" by UGC

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## DEPARTMENTAL ACTIVITIES

### Department of M.Sc. BIOTECHNOLOGY SCHOOL OF LIFE SCIENCES



**Academic Year: 2023-24**

# **Report**

**on**

**6<sup>th</sup> International Conference on Advances in Agriculture  
Technology and Allied Sciences ( June 19 – 21, 2023)**

**Jointly organized by**

**Society of Agriculture Research & Social Development (New Delhi) &  
Loyola Academy, Secunderabad, Telangana**





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# th INTERNATIONAL CONFERENCE ON ADVANCES IN AGRICULTURE TECHNOLOGY AND ALLIED SCIENCES

(ICAATAS 2023) on JUNE-19-21, 2023  
HYBRID MODE (OFFLINE / ONLINE)

**JOINTLY ORGANIZED BY**  
SOCIETY OF AGRICULTURE RESEARCH AND SOCIAL DEVELOPMENT (NEW DELHI) &

1<sup>st</sup> Circular

**PUBLICATION PARTNERS**

**IMPORTANT DATES** - LAST DATE FOR REGISTRATION 25TH MAY 2023, LAST DATE FOR ABSTRACT SUBMISSION - 25TH MAY 2023, LAST DATE FOR BOOK CHAPTERS/ARTICLES /PAPER SUBMISSION- 25TH MAY 2023 LAST DATE FOR AWARD NOMINATION 10TH JUNE

**CONTACT DETAILS**

AKINIK PUBLICATION- AN INTERNATIONAL JOURNAL WITH NAAS RATING 5.23  
INTERNATIONAL JOURNAL OF ENTOMOLOGY RESEARCH- WEB OF SCIENCE INDEXED  
PLANT SCIENCE TODAY SCOPUS INDEXED JOURNAL. (Q3)  
JOURNAL OF APPLIED BIOLOGY & BIOTECHNOLOGY, SCOPUS & WEB OF SCIENCE INDEXED (SPECIAL ISSUE Q3)  
VIGYAN VARTA, AN INTERNATIONAL E MAGAZINE FOR SCIENCE ENTHUSIASTS

**DAY-1**

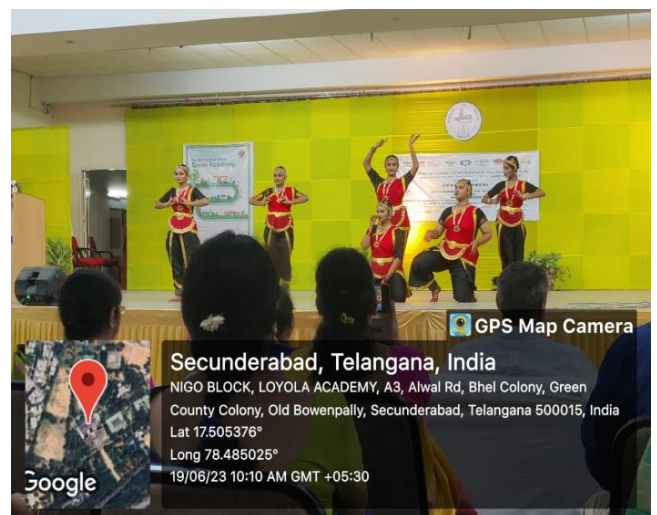
**of 6<sup>th</sup> INTERNATIONAL  
CONFERENCE ON ADVANCES  
IN AGRICULTURE  
TECHNOLOGY AND ALLIED  
SCIENCES**



**Day-1 of ICAATAS -2023.**

Inaugural ceremony of ICAATAS- 2023 combinely organized by Loyola academy, Hyderabad, Society of Agricultural research and Social Development ,New Delhi was held at Loyola Academy, Alwal. Chief Guest Sri. Raghunandhan Rao, I.A.S, addressed the gathering and enlightened students on improvements in agriculture

sector and in quality of life of Telangana State Farmers post bifurcation. Guests of honor, Padma Sri. Chintala Venkat Reddy, the pioneer to work in incorporation of vitamin D in paddy, stressed on importance of natural farming. Dr. C. Thara Satyavathy Director, IIMR, limelighted on importance of millets in human diet





**Dr. Ashish Chauhan and Dr. Sahadev Singh shared their research findings with the students .Apart from these, international speakers From Israel and Japan have also addressed gathering by online mode. The inaugural ceremony has also been graced by Rev. Fr. Francis Xavier Correspondent, Rev. Fr. Dr. L. Joji Reddy, principal, Loyola Academy. Oral and poster presentation along with technical session were carried out during the conference. The conference will be concluded on 21 June, 2023.**

**DAY-2**

of 6<sup>th</sup> **INTERNATIONAL  
CONFERENCE ON ADVANCES  
IN AGRICULTURE  
TECHNOLOGY AND ALLIED  
SCIENCES**



***Day-2 of ICAATAS -2023***, Integratedly organized by Loyola academy, Hyderabad and Society of Agriculture research and social development, New Delhi was held fruitfully at Loyola Academy witnessing publication of 473 research articles and 60 poster presentations. Session started with a folk dance by loyola Academy students showcasing Telangana's culture on occasion of decinial celebration of Telangana state formation. Technical sessions addressed by Dr. Sagar Maithra from Centurion University, Dr. S. N. Islam from ICAR, Prof. Dr. Chandra mohan Mehta From LPU and Scientists, educationists, researchers across country and international speakers from Japan, U.S.A, Israel focused on importance of intercrop row spacing, Biochar in attaining sustainability, prominence of floral diversity in agri Ecosystem in pest control.



The conference was graced by rev. fr. Francis Xavier, correspondent and Principal rev. Fr. Dr. L. Joji Reddy who shared that around 2000 participants registered for conference and it was organized with a motive to inculcate interest in students towards Research. Various competitions like quiz, debate, poster presentation were organized by organizers to encourage active participation of students and to display their Research findings.

**DAY-3**

of 6<sup>th</sup> **INTERNATIONAL  
CONFERENCE ON ADVANCES  
IN AGRICULTURE  
TECHNOLOGY AND ALLIED  
SCIENCES**



**Day-3 6th ICAATAS conference** Integratedly organized by Loyola academy, Hyderabad and Society of Agriculture research and social development, New Delhi, Concluded fruitfully at Loyola Academy witnessing publication of 473 research articles and 165 poster presentations, 181 Oral presentations. Technical sessions addressed by Dr. Sagar Maithra from Centurion university, Dr. S. N. Islam from ICAR, prof. Dr. Chandra

mohan Mehta from LPU and Scientists from IIMR, IIRR, IIOR, educationists, researchers from Various Esteemed Universities across country and six international speakers from Japan, U.S.A, Israel, U. K. limelighted on importance of intercrop row spacing, Biochar in attaining sustainability and prominence of floral diversity in agri Ecosystem towards pest control. Padmasree Chintala Venkat Reddy the pioneer to work in incorporating Vit D in rice enlightened students on Natural farming.



The conference was graced by rev. fr. Francis Xavier, correspondent and Principal rev. Fr. Dr. L. Joji Reddy who shared that around 2000 participants registered for conference, and it was organized with a motive to inculcate interest in

students towards Research. Various competitions like quiz, debate, poster presentation were organized by organizers to encourage active participation of students and to display their Research findings. The valedictory ceremony was held for the conference at Loyola Academy in which the winners of various competitions are awarded with mementos by guest of Honour, Prof. Krishan Kumar, Head, P.V. Narasimha Rao Veterinary University who was honoured with Life Time Achievement Award by the Organising committee.

## **8th ASIAN PGPR NATIONAL CONFERENCE**

### **3 DAYS TRIP TO BENGALURU FOR 8<sup>TH</sup> ASIAN PGPR NATIONAL CONFERENCE**

TITLE: DAY 1 OF THE CONFERENCE

DATE: 19/09/23

VENUE: ROYAL ORCHID RESORT AND CONVENTION CENTER,  
BENGALURU

PARTICIPANTS: 15 students of AMBT

We students of AMBT were accompanied by our principal Rev.Father Dr.L.Joji reddy and HOD Dr.Suresh kumar sir to Bengaluru for the 8<sup>th</sup> PGPR conference which was a 2 days event conducted at royal orchid resort and convention hall. This trip was really an amazing experience for us as it was a diverse event and had dignitaries and participants from various states. It helped us to know a lot of valuable things about the sustainable methods of farming , wide range use of rhizobacteria and other beneficial microbes. We had an interaction session with Prof.M.S.Reddy founder and chairman of Asian PGPR society for sustainable agriculture, he was such a great educator and amusing person who had a lot of knowledge to share. First day of the event started with an inaugural session with many dignitaries from the field of agriculture and life sciences from all around India. Then everyone shared their experiences and journey of PGPR conference.

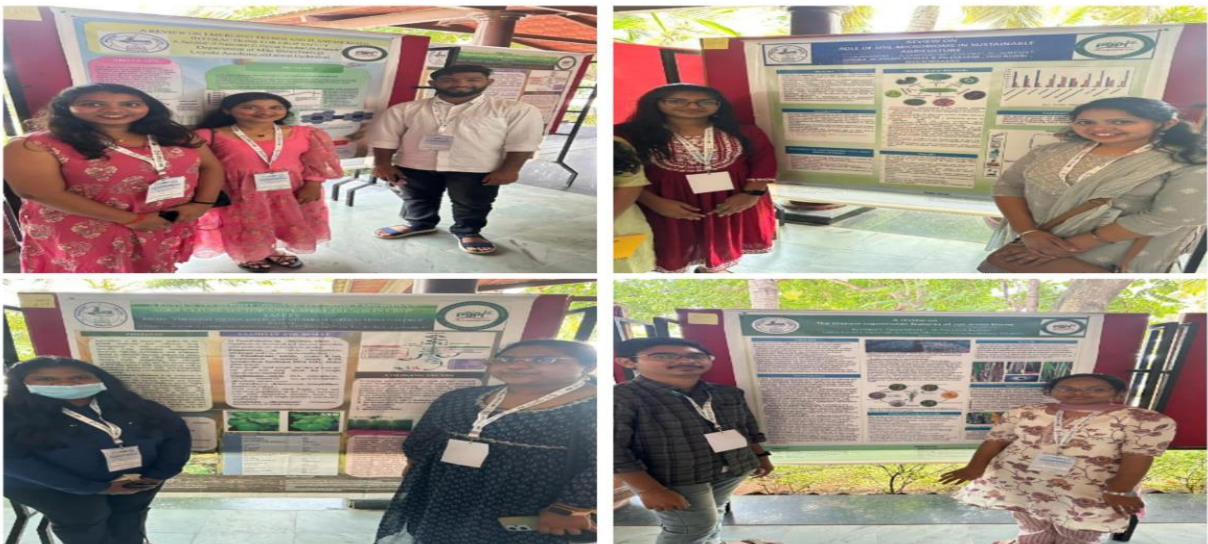


Later that day Poster presentations and oral presentations were presented in order of the themes. Different stalls for agriculture benefit were placed. The posters were so great and were all regarding the research work done by the participants, this helped us know about different researches going on. Oral presentations were even more mesmerizing given by professors and Phd scholars on their research.

In the evening after the 1<sup>st</sup> day of the conference ended we went on sightseeing to the fashion street in Bengaluru which was jammed with citizens, we did a little shopping and returned to our hostel rooms. Overall the first was a day of knowledge and fun.

## **TITLE: day 2 of the Conference**

Day 2 of the event included poster and oral presentations from the remaining themes. Even we presented our posters at the event. This presentation helped us to fight our stage fear; many scholars shared their views and points which helped us in presenting our posters in a unique way. As it was the last day of the conference it included valedictory ceremony for the winners of posters and oral presentations. The posters and oral presentations of each theme were recognized and awarded. We couldn't win but we learned most valuable lessons.



The conference ended with the dignitaries being facilitated and a dance performance representing the different dance styles of India.



After the event ended we went to the ISKCON Bengaluru, which is the biggest one. It was looking so beautiful with a little drizzle of rain and moonlight shining over the white stone illuminating like white pearl.



Day 2 was overall a wonderful day, as the event was over what we felt was completely new and was also making us a little bit sad , but the knowledge we gained was really something else, professors we met , friends we made we will never forget this conference.

## **DAY 3 OF BENGALURU TRIP.**

### **NANDI HILLS**



Located about 4000 feet above the sea, built by the Ganga Dynasty in Chikballapur district in Karnataka is this beautiful, serene place as mesmerizing as it could be. We started our journey in the dawn at around 4AM and reached there just before sunrise. The cool breezy wind, the fog drizzling from the leaves of the huge trees as we pass through them was beautiful. Then there we were at the view point as we saw clouds pass through the hills the sun rose from these clouds suddenly everything was bright and orange. There was even a temple crafted with hands and in between a pond filled with cold, crystal clear water. Our visit to Nandi Hills gave us a kick start to our journey ahead of the day.

### **CHAMUNDESHWARI TEMPLE**

Sri Chamundeshwari Temple is about 13 kms from Mysore, which is a prominent city in Karnataka State, India. Sri Chamundeshwari Temple is famous not only in India but also abroad. Atop of the hill the famous Sri Chamundeshwari Temple. 'Chamundi' or 'Durga' is the fierce form of 'Shakti'. She is the slayer of demons, 'Chanda' and 'Munda' and also 'Mahishasura', the buffalo-headed monster. She is the tutelary deity of the Mysuru Maharajas and the presiding deity of Mysuru. For several centuries they have held the Goddess, Chamundeshwari, in great reverence.



‘Skanda Purana’ and other ancient texts mention a sacred place called ‘Trimuta Kshetra’ surrounded by eight hills. Lying on the western side is the Sri Chamundeshwari Temples, one among the eight hills. In the earlier days, the Hill was identified as ‘Mahabaladri’ in honour of God Shiva who resides in the ‘Mahabaleswara Temple’. This is the oldest temple on the hills.

In the later days, the hill came to be known as ‘Sri Chamundeshwari Temples’ in honour of the Goddess Chamundi, the chief subject of the ‘Devi Mahathme’. The Goddess is believed to be an incarnation of Parvati, the consort of Lord Shiva. A large number of devotees from all over the country and from abroad visit the temple every year. They believe that the Goddess fulfills their desires and aspirations.

Sri Chamundeshwari Temples rises to a height of 3,489 feet MSL and is visible from a distance itself while traveling towards Mysuru. There is a good motorable road to the top. Besides from Mysuru side, there is also a motorable road from its rear side, the Nanjangud side. Bus facilities are available to visit the hills. Karnataka State Road Transport Corporation (KSRTC) operates regular bus services every day for the convenience of pilgrims and others.

A temple of great antiquity with over 1,000 years of background, it was a small shrine initially and assuming importance over the centuries it became a big temple as seen today. It assumed significance after the Mysuru Maharajas, the Wodeyars, came to power in 1399 A.D., great devotees and worshippers of the Devi; Chamundeswari became their home deity and thus assumed religious prominence.

The crowning glory of Mysuru, Sri Chamundeshwari Temples is an enchanting place surrounded by natural beauty. In the forest, there are varieties of trees, birds and animals. While going up the hills, a bird’s eye view of Mysuru can be seen and several prominent places be spotted. It offers a spectacular scene when the Palace and its surroundings are illuminated during the Dasara and other occasions.

## **MYSORE PALACE**

The Palace of Mysore (also known as the Amba Vilas Palace) is a historical palace in the city of Mysore in Karnataka. Designed by the English Architect, Henry Irwin, the Mysore Palace dominates the skyline of Mysore. A three storied structure in the Indo-Saracen style built in 1897-1912; the palace has beautifully designed square towers at cardinal points, covered with domes. The Durbar Hall with its ornate ceiling and sculpted pillars and the Kalyanamantapa (marriage pavilion) with its glazed tiled flooring and stained glass, domed ceiling are worth noting. Intricately carved doors, the golden howdah (elephant seat), paintings as well as the fabulous, jewel encrusted golden throne (displayed during Dasara) are amongst the palace's other treasures. The walled palace complex houses the Residential Museum (incorporating some of the Palace's living quarters), temples and shrines including the Shwetha Varahaswamy temple.

We reached there by 4 in the evening and had a walk in this beautiful palace, it was architecture brilliancy had a lot of culture to represent.



## **St. PHILOMENAS CATHEDRAL CHURCH**

With the fame of being one of the largest churches in India, this majestic church captivates everyone with its architectural excellence. It also boasts of being the second largest church in Asia. Dedicated to Saint Philomena, St. Philomena's

Church is not only known for its architectural beauty and religious significance; it stands as an exemplary of secular viewpoint and the religious harmony which existed in Mysore. This can be seen from the fact that this church was built by Mysore ruler for the European residents in the city.



It was our last stop for the day before going back home and was a perfect one.

This 3 days trip was a memorable trip where we learnt a lot and also had a lot of fun. We thank our HOD Dr.Suresh kumar for giving this opportunity and also accompanying us for the whole trip.



# Loyola Academy

## Department of Biotechnology

### Industrial visit report to Sowbhagya Biotech Pvt Ltd At Choutuppal (Mndl), Yadadri Bhuvanagiri (Dist.) – 508252

**25 January 2024**

#### **Faculty Members**

VVS Chalapathy Rao

D Gurudevi

Dr S Dhavala

Dr K Naveena

Students- 1<sup>st</sup> and 2<sup>nd</sup> Year students of M.Sc Biotechnology of Loyola Academy.

#### **Our Industrial Visit report**

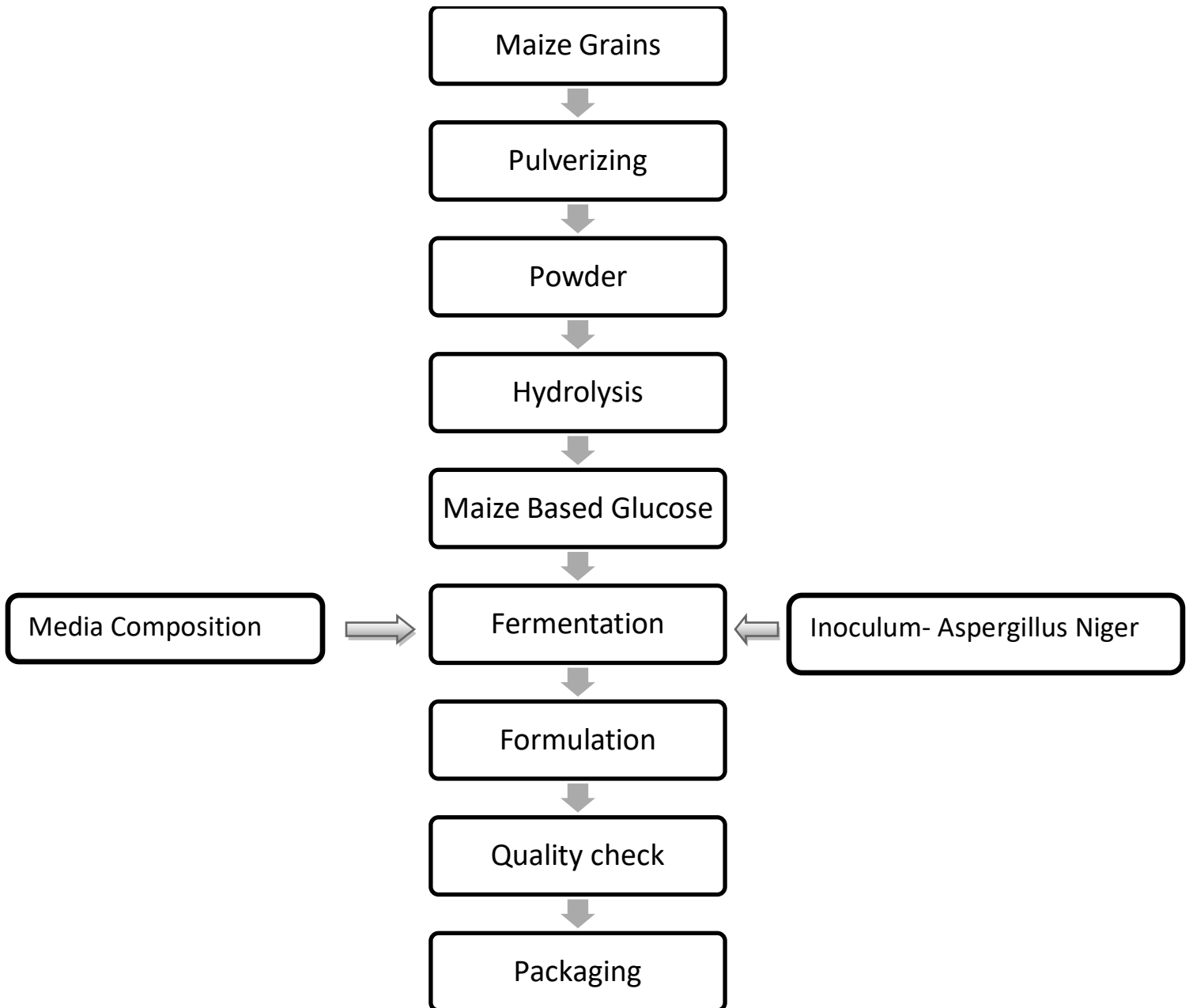
On 25<sup>th</sup> January 2024 at 10 am we started from Loyola academy and reached Sowbhagya Biotech Private Limited at 12 in the afternoon. We all students were very much excited for the visit, we all gathered in front of the laboratory. One of the executive of Sowbhagya biotech guided us through their Industry. Also explained in detail about process and packaging of the products of their company.

1. Sowbhagya R & D Laboratory: Here the research is done in small scale.
2. Sowbhagya Laboratory: Here Quality check and Quality Assurance is done.
3. Sowbhagya Production House: The products that are made in laboratory and are successful are produced in large scale as per the requirement.
4. Packaging unit: here the finished products are packed sealed and processed.
5. Sowbhagya Ware house: Here all the Raw materials and the finished products are store and also manage their inventory.
6. Green House: They test their organic fertilizers made to produce crops like Brinjal, Menthi and Spinach.

The above are the Units which we have visited in the Sowbhagya Biotech Pvt Ltd.

## Process and overview Of the Company

They mainly deal with production of Organic fertilizers for agricultural Crops.



The Above Process is first done in small quantity in the lab. After the successful Result The same is done in large Scale using Fermenters, Cool tanks and are later packed in packaging unit.

## **CONCLUSION:**

The visit to Sowbhagya Biotech industry was a comprehensive and enlightening experience that showcased the Industry dedication to advancing our understanding for the use of organic fertilizers instead of chemical. Through its diverse sections, interactive displays, and expert interactions, the Visit succeeded in communicating The use of organic fertilizers to wide audience. This visit left me inspired and informed about the remarkable strides being made in the field of R &D Laboratory In Sowbhagya Biotech Pvt Ltd.

## **Pictures Of Industrial visit to Sowbhagya Biotech Pvt Ltd.**







