

Tirumala Tirupati Devasthanams శ్రీ వేంకటేశ్వర కళాశాల Sri Venkateswara College (University of Delhi) NAAC Grade A+

SRI VENKATESWARA COLLEGE (UNIVERSITY OF DELHI)

EVENT REPORT

NAME OF THE EVENT:			
DATE	DEPARTMENT	COMMITTEE/SOCIETY	COORDINATORS' NAME
4 th April 2025	Department of Botany	Department of Botany	Dr. Pamil Tayal Dr. Manoj Thakur
TIME	VENUE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor; online/offline/hybrid
09:00 am to 4:00 pm	BRIC-NIPGR	75	Outdoor; Offline
FINANCIAL SUPPORT/ASSIS TANCE (if any):		•	

BRIEF INFORMATION ABOUT THE ACTIVITY

TOPIC/SUBJECT OF THE ACTIVITY	Educational visit to BRIC-NIPGR (National Institute of Plant Genome Research)
OBJECTIVES	The primary objective of the study visit was to expose students to the cutting-edge instrumentation and central research facilities at one of India's premier research institutions. Also, to familiarize undergraduate students with high-end instrumentation used in biological sciences to bridge the gap between theoretical coursework and real-world research applications.
METHODOLOGY	The visit included an insightful interaction with Mr. Ratneshwar and Dr. Ashutosh Pandey to provide in-depth exposure to the latest developments in plant genomics and the critical role of scientific

	research in addressing global agricultural and environmental challenges.
INVITED SPEAKERS WITH AFFLIATION DETAILS (IF ANY)	Mr. Ratneshwar Thakur (Science Communication and Outreach – Inaugural Speech on Scientific Awareness and Sustainability) Dr. Ashutosh Pandey (Research Scientist – Talk on "Regulatory Aspects of Specialized Metabolism in Crop Plants")
OUTCOMES	Students gained first-hand exposure to cutting-edge plant research facilities. They learned lab protocols and explored various fields such as genomics, proteomics, and metabolomics. The visit broadened their understanding of ongoing scientific research and career prospects in plant sciences. The visit left a lasting impression on the participants, with many students expressing a renewed interest in research and higher studies. The exposure to advanced facilities and direct interaction with senior researchers fostered inspiration, motivation, and clarity about career paths in the biological sciences. It provided a comprehensive understanding of the instrumentation used in contemporary biological research and allowed students to connect theoretical knowledge with real-world applications. Such visits are invaluable in shaping the academic and professional trajectories of young students.

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

1	2	3	4	5
Notice &	Number of Participants &	Video clip	Photos	Feedback
Letters	Name of participants		\checkmark	Form &
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6	7	8	9	10
News clip	Sample Copy of the	Posters/	Event report	Any other
with details	Certificate	Invites	Attested by	document
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Departmental file no: SVC/BOT/2024-25/April 2025/Offline/ 08

IQAC File No: SVC/IQAC/BOT/2024-25/April 2025/Offline/ 08

Criterion No: 1 and 2

NAME OF EVENT-IN-CHARGE & SIGNATURE:

Dr. Pamil Tayal Kongl Dr. Manoj Thakur

Note: Please fill in your own details in places with red font

For Reference

Criterion I	Curricular Aspects (planning & Implementation)	Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation	Criterion VI	Governance, Leadership & Management
Criterion III	Research, Innovations & Extension	Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure		

Activity Report

The Department of Botany organized an educational and insightful field visit to the prestigious National Institute of Plant Genome Research (NIPGR), located in New Delhi, on the 4th of April, 2025. This visit aimed to bridge the gap between theoretical knowledge and practical exposure, offering students and faculty members an opportunity to witness and understand cutting-edge research in the field of plant science and genetic engineering. The visit was meticulously planned to provide in-depth exposure to the latest developments in plant genomics and the critical role of scientific research in addressing global agricultural and environmental challenges.

Commencement of the Session

The day began with a warm welcome at the NIPGR campus, followed by an introductory address by Mr. Ratneshwar Thakur. In his speech, Mr. Thakur emphasized the growing significance of science communication in the modern era and the necessity of involving the younger generation in sustainable research endeavors. He eloquently discussed the importance of cultivating curiosity and scientific temperament among youth to enable them to contribute effectively to the ever-evolving domain of biosciences. His talk set a strong foundational tone for the rest of the session, encouraging students to think beyond textbooks and engage with real-world scientific issues.

Session by Dr. Ashutosh Pandey: Plant Metabolic Regulation

Following the opening address, Dr. Ashutosh Pandey, a prominent researcher in plant biology, delivered an enlightening lecture on the topic of plant metabolic regulation. His session was a comprehensive exploration of how metabolic processes in plants are intricately regulated and how these processes influence plant development,

adaptation, and productivity. Dr. Pandey explained complex scientific concepts with remarkable clarity, making them accessible to both undergraduate and postgraduate students in attendance.

The session included detailed discussions on the biochemical pathways that govern plant metabolism, the regulatory networks involved in maintaining metabolic homeostasis, and the external and internal stimuli that affect these processes. One of the key highlights of his presentation was the explanation of how metabolic engineering can be used to enhance crop yield especially in Banana, stress resistance, and nutritional value.

Advanced Research Practices at NIPGR

Dr. Pandey also provided a deep dive into the methodologies employed at NIPGR to study plant metabolic regulation. He described the use of omics technologies such as genomics, transcriptomics, proteomics, and metabolomics, which enable researchers to gain a holistic understanding of plant systems. Through case studies and examples from ongoing projects, he illustrated how integrated approaches combining bioinformatics, molecular biology, and systems biology are revolutionizing plant research. Students were particularly fascinated by the real-world applications of these studies. For instance, Dr. Pandey highlighted research on improving photosynthetic efficiency and developing drought-resistant crops through targeted gene manipulation. He discussed the ethical implications and regulatory frameworks surrounding genetic engineering and the importance of conducting research that aligns with environmental and societal needs.

Laboratory Tour and Demonstrations

After the lecture, the participants were taken on a guided tour of the NIPGR laboratories. This segment of the visit allowed students to observe high-tech equipment and experimental setups used in modern plant research. The tour included visits to the molecular biology lab, tissue culture rooms, and the genomics facility. Researchers and lab technicians provided live demonstrations of DNA extraction, PCR amplification, and gel electrophoresis, among other techniques. Students interacted with PhD scholars and research scientists, gaining first-hand insights into the day-to-day activities of plant genomics researchers. The lab visit was an eye-opener for many, as it brought to life the concepts they had studied in the classroom. It also inspired many to consider research as a viable and exciting career path.

Following the lab tour, an interactive Q&A session was held, where students posed questions to the researchers and faculty at NIPGR. The questions ranged from specific scientific queries to broader discussions about careers in research, funding opportunities, and the future of plant biotechnology. The researchers addressed these queries with enthusiasm, sharing their own experiences and offering valuable guidance. This segment helped in clarifying misconceptions and broadening the students' understanding of the interdisciplinary nature of modern plant

sciences. It was heartening to see the enthusiasm with which students engaged, reflecting a genuine interest sparked by the day's proceedings.

The field visit to the National Institute of Plant Genome Research was an enriching experience that fulfilled its objective of providing academic and practical exposure to the students of the Department of Botany. It offered a glimpse into the dynamic world of plant genomics and highlighted the importance of research in ensuring food security and environmental sustainability.

The session led by Mr. Ratneshwar Thakur set an inspiring tone by underscoring the role of science communication and youth engagement. Dr. Ashutosh Pandey's detailed exposition on plant metabolic regulation and advanced research practices served as an invaluable learning experience. The laboratory tour, interactive discussions, and hands-on exposure to research methodologies further solidified the knowledge gained during the visit.

Overall, the field visit proved to be a highly successful initiative, fostering scientific curiosity and encouraging the next generation of botanists to pursue research-driven careers. The Department of Botany looks forward to organizing more such visits in the future to continue bridging the gap between academic learning and scientific research.

	Sri Venkateswara College University of Dethil NAAC Grade A+
	PERMISSION FOR ORGANIZATION OF EVENTS
	NOTE: LPlease ensure a pre-booking of the venue before getting the permission letter signed. 2 A copy of this duly filled form signed by the TIC: Convener, IQAC Coordinator and Principal shall be submitted to ICT and/or Caretaker for necessary action. 3. Please ensure that the completion certificate of the event is physically signed by the Convener of the event, IQAC Coordinator and Principal after the event report is finade.
	EVENT DETAILS
	Name of the Department Society Association Department of Botany
2.	Name of the TIC and/or Convenor: Prof./Dr./Mr./Ms. Dr. PAMIL TAY AC and
	De MANOJ THAKUR.
	Proposed Title of the Event An interactive town of Research facility
4	Nature of Event: Seminar/Conference/Symposium/Workshop/EDP/Public or Community
	outreach Skill enhancement others (Please specify) One day study tour
	Participants: Student contric Faculty Other stakeholders (Please specify) Students (Third)
	Event Type: Offline/Online/Hybrid, life seithel Studenty)
70	Collaborating Agency /Organization (If any): NA
	Tentative List of Speakers with attitiations. MR. Ratneshwar Thakers
	Senior Technical officer (science communications)
	BRIG - NIPGR, New Delhi
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	Emaneral Assistance Funding received (if any) Please specify amount) NA . (2 Badates)
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12 Faculty responsible for Geo Tagged Pictures ... Dr. Many Thakur 13. Faculty responsible for Event Report Dr. Paril Tayal 14. ICT support required, if any (ICT Lab, Laptop, LCD projector) NA 15 Caretaker support required (tables, chairs, public addressing system, sanitation, manpower assistance) NA 16 Venue requirement (Seminar hall/ Ground/others) NA TIC/Convepor Date: 19-3-25 For official purpose Criterial,2 Gor Riche Misre Principal mat 3 25 IQAC Coordinator May be parasted Kindly Interm Respective permitted TIC of Bost/200 [chen weight 1.ft



राष्ट्रीय पादप जीनोम अनुसंधान संस्थान, नई दिल्ली National Institute of Plant Genome Research

Aruna Asaf Ali Marg, New Delhi - 110067

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दिनांक: 19/03/2025

Program: Study Tour - Department of Botany, Sri Venkateswara College, Delhi.

Date & Time: April 04, 2025 (10:00 AM - 01:00 PM)

Venue: Auditorium, BRIC-NIPGR, Aruna Asaf Ali Marg, South-West Delhi - 110067

Program Details:

Time	Activity Description/ Facilitator/Presenter
10:00 AM - 10:20 AM	Welcome & Introduction
10: 20 AM - 11: 00 AM	Scientific Lecture: Elucidating the Intricacies of Regulatory Aspects of Specialised
	Metabolism in Crop Plants: From Fundamental Knowledge to Metabolic Engineering
	Dr. Ashutosh Pandey,
	Staff Scientist IV, BRIC-NIPGR, New Delhi
	Profile link: https://nipgr.ac.in/research/dr_ashutosh.php
11: 00 AM - 11: 20 AM	Group Photograph & High – Tea Break
11: 20 AM - 1: 00 PM	An Overview and Interactive tour of Research Facilities
	Mr. Ratneshwar Thakur,
	Senior Technical Officer (Science Communications),
	BRIC-NIPGR, New Delhi

Reporting time for visitors: 09:50 AM

Expected No. of Participants (Visitors + NIPGR's officials): 85

Website: www.nipgr.ac.in Follow us at X (Formerly twitter): @NIPGRsocial, Facebook: /NIPGR

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समापन प्रमाण पत्र COMPLETION CERTIFICATE

यह प्रमाणित किया जाता है कि **"ब्रिक-एनआईपीजीआर (राष्ट्रीय पादप जीनोम अनुसंधान संस्थान)** का शैक्षिक भ्रमण" को 04/0४/२०२५ को 9:30 बजे अपराह्र से 4:30 बजे अपराह्र तक वनस्पति विज्ञान विभाग द्वारा ऑफ़लाइन माध्यम में सफलतापूर्वक आयोजित किया गया और इस कार्यक्रम की रिपोर्ट अभिलेख के लिए आंतरिक गुणवत्ता आश्वासन प्रकोष्ठ (IQAC) को जमा कर दी गई है।

This is to certify that the "Educational visit to BRIC-NIPGR (National Institute of Plant Genome Research)" was successfully conducted on 04/04/2025 from 9:30 am to 4:30 pm by Department of Botany in the Offline mode and its event report has been submitted to IQAC for records.

Event-in-Charge

IQAC Coordinator Coordinator, IQAC Sri Venkateswara College (University of Delhi) Dhaula Kuan, New Delhi-110021

Principal प्रधानाचार्य Principal श्री वेकटेश्वर महाविद्यालय Sri Venkaleswara College दिल्ली विश्वविद्यालय / University of Delhi मोला कुर्जा, नई दिली / Dhaula Kuan, New Delhi??!