

COMPREHENSIVE REPORT
ON
“Industry visit to Dey’s Medical Stores (Mfg) Ltd.”
Date of Event: 27 April 2026

1. SUMMARY:

An educational industrial visit was conducted at Dey's Medical Stores (Manufacturing) Ltd. at their flagship manufacturing facility located in Kolkata, West Bengal. Dey's Medical is one of India's pioneering pharmaceutical formulations and healthcare companies, well-known for manufacturing essential allopathic medicines, Ayurvedic formulations, and consumer health products such as Itone Eye Drops, Enteromycetin, Livina, Milk of Magnesia, and Keo Karpin. The primary purpose of this industrial visit was to observe large-scale pharmaceutical manufacturing operations, Current Good Manufacturing Practices (cGMP), sterile cleanroom maintenance, Quality Control/Quality Assurance (QC/QA) workflows, and automated packaging lines.

2. EVENT OVERVIEW

A. Event Details

- Event Name: **Industry visit to Dey’s Medical Stores (Mfg) Ltd.**
- Organising Institution: **Department of Microbiology, P.R. Thakur Government College**
- Partner Organisation: Nil
- Date: 27.04.2026
- Time: 11.30 am
- Venue: Industry visit to Dey’s Medical Stores (Mfg) Ltd., Ballygunge Place
- Notice Number: PRTGC-26/50-A
- Notice Issued on: 21.04.2026

B. Objectives

- Practical Learning: To witness industrial-scale operations for solid and liquid dosage forms.
- Environmental & Cleanroom Maintenance: To study HVAC air handling, HEPA filtration, and sterile zone classifications.
- Quality & Regulatory Compliance: To observe cGMP compliance, testing procedures, and quality verification workflows in action.
- Packaging & Logistics: To understand high-speed automated blister packaging, strip packaging, and inventory management.

3. EVENT REPORT

A. Solid Oral Dosage Section (Tablets & Capsules)

- Granulation: Raw materials (Active Pharmaceutical Ingredients and excipients) undergo weighing, sifting, and wet/dry granulation using High-Shear Mixer Granulators and Fluid Bed Dryers (FBD).
- Compression & Coating: High-speed rotary tablet compression machines press granules into

- uniform tablets. Automated coating units (Unicota) apply film or enteric coatings to ensure stability and controlled release.
- Capsule Filling: Automatic capsule filling machines (PAM series) fill hard gelatin capsule shells with controlled powder blends or micro-pellets.

B. Liquid & Ophthalmic Production Unit

- Sterile Ophthalmic Unit: Highly segregated Class A/B cleanroom zones equipped with HEPA filters.
- Blow-Fill-Seal (BFS) technology and aseptic filling lines ensure zero contamination during the
- manufacturing of Itone Eye Drops.
- Oral Liquids & Syrups: Stainless steel jacketed mixing vessels with high-speed agitators process oral liquids, suspensions, and antacid emulsions.

C. Quality Control (QC) & Quality Assurance (QA)

The QC department tests raw materials, intermediate formulations, and final finished goods:

QC Lab Division and Key Testing & Analytical Activities

- Instrumentation Lab: High-Performance Liquid Chromatography (HPLC), Spectrophotometry, Dissolution & Friability Testing.
- Microbiology Lab: Sterility testing, Microbial Limit Tests (MLT), environmental air monitoring, and bio-burden testing.
- Physical Testing Lab: Disintegration time, tablet hardness, thickness, weight variation, and viscosity testing.

D. Packaging & Warehousing

- Packaging Lines: Finished tablets and capsules are automatically sealed in PVC/Alu-Alu blister or strip packs, followed by automated cartoning with patient instruction leaflets.
- Warehouse Management: Systematic segregation into Raw Material (RM), Packaging Material (PM), Quarantine, Approved Finished Goods, and Cold Storage units.

4. ACKNOWLEDGMENTS

We express our sincere gratitude to Dr. Swapan Sarkar, Officer-in-Charge, P. R.

Thakur Govt. College, for providing us with the opportunity, guidance, and continuous support to organize this educational industrial visit. Sincere thanks are also due to Ramsa Neha Shahid, Quality Control Executive Microbiologist, Dey's Medical Stores (Mfg.) Ltd., Kolkata, for her gracious support in facilitating and arranging the industry visit.

This opportunity provided an invaluable learning experience and practical exposure to industrial processes, particularly in the vital fields of water purification and packaging. Our heartfelt thanks go to the management and staff at Dey's Medical Stores (Mfg.) Ltd., Kolkata, for their warm hospitality, insightful demonstrations, and detailed explanations of the processes involved.

Their expert insights were instrumental in helping us bridge the gap between theoretical knowledge and practical industrial applications, empowering students to excel in their chosen fields.

5. CONCLUSION & RECOMMENDATIONS

- Bridge the gap between theoretical pharmaceutical chemistry/formulation concepts and real-world industrial practice.
- Understand strict regulatory compliance required for sterile ophthalmic and oral drug formulations.
- Gain insight into quality assurance protocols required for commercial batch release.



Dey's
CARE YOU CAN TRUST

DEY'S MEDICAL STORES (MFG) LTD.

GOVT. OF WEST BENGAL
P. R. THAKUR GOVT. COLLEGE

GPS Map Camera



Kolkata, West Bengal, India

Deys Medical, Ballygunge Place, Ballygunge,
Kolkata, West Bengal 700019, India
Lat 22.529202° Long 88.371044°
Monday, 27/04/2026 03:22 PM GMT +05:30



P. R. Thakur Government College

Department of Microbiology

Participants in the Industry visit to Dey's Medical Stores Mfg Ltd on 27.04.2026

Sl. No.	Name	Course	Signature
1.	Sudeshna Dey	Sem VI	Sudeshna Dey
2.	Amrita Mondal	Sem IV	Amrita Mondal
3.	Anwesha Mondal	Sem IV	Anwesha Mondal
4.	Souvik Dey	Sem IV	Souvik Dey
5.	Suman Saha Roy	Sem IV	Suman Saha Roy
6.	Dip Majumder	Sem IV	Dip Majumder
7.	Poulomi Ghosh	Sem IV	Poulomi Ghosh
8.	Sourav Paul	Sem IV	Sourav Paul
9.	Dhiman Debnath	Sem IV	Dhiman Debnath
10.	Dr. Nivedita Nag	Faculty	N. Nag
11.	Dr. Rini Roy	Faculty	Rini Roy



Notice

Department of Microbiology

P. R. Thakur Govt College

Notice No: 26/50-A

Date: 21/04/2026

All UG NEP Semester 4 and Semester 6 students of the Department of Microbiology are hereby informed that an industry visit will be held on 27.04.2026 at 10.30 am at Dey's Medical Stores Mfg Ltd at 62, Bondel Road, Kolkata-19. Every student must carry their water bottles and notebooks for the visit.

Rini Roy.
Head

Department of Microbiology

Officer-in-Charge

P. R. Thakur Govt College

Officer-in-Charge
P. R. THAKUR GOVT. COLLEGE
Thakumagar

A meeting of the Department - will be held on 17/04/26 at 11:30 am in the Department. All the staffs are requested to be present.

Agenda:

- 1) Commencement of practical classes.
 - 2) Proposal for industry.
 - 3) Choice of date for alumni meet.
- Rini Roy.

Meeting.

A meeting had been held in the department.

- 1) The date of commencement of practical classes of Sem 4 and sem 6 will be 20th April 2026.
- 2) An email has been sent to Deys Medical Kolkata for an industry visit on 27th April 2026.
- 3) Alumni meet will be held in the month of May (tentative)

Signature:

Rinichitra Nag
Rini Roy