

Report on Industrial Visit report ACG APT, ACG Metal crafts PVT Ltd, ACG Films and Foils, ACG Vantage nutritions and ACG capsules Pvt Ltd

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| Date of visit | 10 th -12 th Oct 2019 |
| Place of visit | ACG APT, ACG Metal crafts Pvt Ltd, ACG Films and Foils, ACG Vantage nutritions And ACG Capsules Pvt Ltd. |
| Coordinator from College | Mr. Samaresh Pal Roy |
| Coordinators from Industry | Ms. Leena Amanna |
| Industrial visit arranged by | Mr. Samaresh Pal Roy |
| Accompanying faculty members | Dr. Zeel Naik Ms. Prarthna Patel |
| Participating Students | M. Pharm (sem I), All branches (26 students) |

Objective

1. To learn and know about preparation of hard gelatine capsule.
2. To learn and update knowledge about Pharmaceutical industry and different processes
3. To get familiar with industrial environment

Cross disciplinary visit: Yes

Name of disciplines included:

1. Students should follow instructions given by person who guide students from industry
2. Students must follow instructions given by Accompanying faculty members
3. Students must maintain decorum during industrial visit
4. Students can ask questions if they have any doubt

Brief description about learning

1. **ACG APT** is an award-winning manufacturer of range of barrier-packaging films for the pharmaceutical, medical-device, personal care and food packaging sectors. ACG APT produce pharmaceutical-grade & camera-inspected, range of specialty, high barrier, anti-counterfeiting, polymer and aluminium films and foil. We reached there at 9:00 AM and had a very delicious tea and refreshment in their canteen. We have seen PVP films being coated by different ingredients for different purposes like PVP film coated by hydrophobic material. We have seen aluminium foil being rolled for strip packing and how blister packing is done. We have seen different quality control tests for different packaging material like tensile strength, transparency, etc. All questions were satisfactory answered by Dr. Rahul Aware and his explanation about different packaging material was interesting.

2. **ACG Metal crafts PVT LTD** is unit of ACG corporation which is responsible for making die cavities and punches, and different type of metal parts used in various instruments used in ACG group of companies other company of pharmaceutical . We reached there at 11:00 am. We have seen punches for different size of tablet, and for minitabets. They have CNC controlled automated processing area and different machines to cut metal block in desired shapes. We have seen quality control and testing of prepared punches with die cavities. Explanation was very good and all questions were satisfactory answered by Mr. Shantanu M.
3. **ACG Films and Foils** meets the stringent requirements of global regulatory markets. The high barrier ACLAR and ULTRASAFE films are exceptionally transparent and provide the highest barrier against oxygen and moisture. The films perform exceptionally well on the blister packaging machine and gives higher yield with minimal wastage. We reach there by 12:30 pm. We were served with delicious lunch in their canteen. We were accompanied by Mr. Pushpendra Singh.
4. We reached **ACG Vantage Nutrition** around 3:30 pm. Here, we were accompanied by Ms. Shilpa Patil. We were taught and demonstrated about how liquid is filled in hard capsules, ingredient processing and food fortification. At Vantage Nutrition, their R&D team was focused on creating and developing formulations that not only provide an edge over competition but also facilitate better compliant approaches.
5. **ACG Associated Capsules (ACG ACPL)** is USFDA, WHO approved ISO-2000 certified cGMP Compliance Company, a member of ACG Worldwide, is ranked amongst the largest producers of pharmaceutical empty hard gelatine capsules in the world. ACG ACPL caters to global pharmaceutical and dietary supplement industry, serving over 80% of Asia's pharmaceutical prescription market. ACG ACPL produces over 83 billion capsules annually, catering to a hundreds of customers in over 80 countries worldwide. They have world's fastest capsule manufacturing machine. We reached there at 5:00pm, process start with preparing gelatine solution with excipients and further they are mixed by mass mixer of large size, further different colorants are added and this solution is covered and allowed to settle to remove bubbles. They are added into capsule manufacturing machine in which capsule is formed by dipping stainless steel pins in gelatine solution after that they are spinned and allowed to dry for 45 minute as .cap and body are formed separately and locked in machine. Further capsule hard gelatine shells are printed if customer demands and stored in specific room humidity and temperature. All explanations were easily understandable and all questions were answered by Mr. Yogesh Katare.



ACG APT



ACG Films and Foils



**ACG Metal
Crafts**



ACG Capsules

