



interMed

(Government Recognized Export House)

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29-01-2021,
Chennai.

To Whomsoever It May Concern

This is to certified that R.Sivatharsini (M.Sc Chemistry) Final Year Student of SATHYABAMA UNIVERSITY, Chennai, has successfully completed her Internship Training in the different departments like FR&D, QC, QA, Solid orals Production, Liquid Oral Production, Topical products and Packing in our company from 17.01.2021 to 29.01.2021.

During the period of her Internship Training with us she had been exposed to different process was found punctual, Hard Working and Inquisitive.

We wish her every success in her Life and Career.


Dr.K.Balaji,
FR&D Head,
Intermed.

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CHENNAI-600 116**



BY

SIVATHARSINI.R

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MSC CHEMISTRY II YEAR

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

ACKNOWLEDGEMENT:

I want to thank my advisers and everyone at the company for their patience and assistance during my on-site training. Thanks to their guidance, I was able to develop my industrial skills and learn About develops, produces, and market drugs or pharmaceutical drugs. These skills will help me to expand my resume and advance my career

ABOUT THIS COMPANY

INTERMED had a humble beginning in the year 1981, with a small presence in India marketing pharmaceutical formulations. we remain focused on providing quality and affordable medicines to people of the globe bridging the gap of ailing patient's affordability across geographies and are present today 32 countries till date. We have been gradually upgrading our factory by investing back the profits earned and we are a WHO-GMP approved with facilities to manufacture Tablets, Capsules, Syrups, Dry Syrups and Ointments and creams. Intermed business has witnessed exemplary export growth over the past three years with sales doubling every year since 2011 to 2013 .In recognition of our outstanding export performance PHARMEXCIL (Pharmaceuticals Export Promotion Council of India) a Ministry of Commerce and Industry undertaking by the Government of India, have awarded us with a trophy and Certificate of honor for the year 2012-2013.

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❖ Tablets(chlotrimazole)

❖ Capsule(flucanazole)

❖ Syrup(cofisa)

INTRODUCTION:

The Intermed Factory manufactures and explores the following products like paracetamol, antibiotics, cardiac segment like bisoprolol fumarate, hydrogen bisulphate, antibacterial, hydrochloride thiazide tablets, syrups, antacid tablets, calcium-mineral-supplement tablets, and etc...

They follow the principles of Indian pharmacopeia, United States Pharmacopeia, and British Pharmacopeia. But they mainly make use of Indian Pharmacopeia and United States Pharmacopeia in quality control department and they explained about the facility and manufacturing process of medicines.

DEPARTMENTS OF INDUSTRY

STEPS INVOLVED IN RAWMATERIAL WAREHOUSE:

- RECEIVING
- SAMPLING
- QUARANTINE
- STORING
- DISPENSING

RECEIVING OF RAW MATERIAL:

- Raw material is supplied by vendors by placing order
- After receiving the raw materials check the “observation on pack”
- Segregate the raw material according to batch number
- Pre entry cleaning of raw materials by vacuum cleaner
- Weighing of the raw materials

SAMPLING OF RAW MATERIAL:

Before sampling get line clearance by QA person

QC person test the sample of raw material under lab by different tests and fill it in

OBSEVATION ON SAMPLING AREA

&PACK” and “CETIFICATE OF ANALYSIS”

Will paste the labels of “APPROVED LABEL” and “SAMPLED LABEL”

Next the raw materials are sent for storing.

QUARANTINE:

➤ In the stage of raw materials is kept in a poorly ventilated and aerated room to maintain its temperature

➤ Here the RH is maintained

STORING OF RAW MATERIAL:

- The raw material is stored in approved area at three different temperature
- AMBIENT: not more than 35c
- CONTROLLED TEMPERATURE ROOM: Nearly 15 to 25c
- COLD ROOM: between 2 to 8c

DISPENSING OF RAW MATERIAL:

- Raw materials is dispensed from dispensing booth under lab of the production area
- In case of dispensing there is special provision for dispense the material



STORING OF RAW MATERIALS

QUALITY CONTROL:

It is a part of good manufacturing practice concerned with sampling, specifications and testing with the organization, documentation and release of procedure which ensures that the necessary and relevant tests are carried out and the materials are neither released for use, used for sale and supply until their quality has been satisfied

COMPONENTS OF QUALITY CONTROL:

- Batch inspection and sampling
- QC labs
- Retained samples
- Analysis of finished product
- Sampling
- Validation
- Records
- Balance part is given separate identity and released after analysis
- Transferred to manufactures and released after test results.

QC labs:

- ❖ Chemical testing lab
- ❖ Instrumental analysis lab
- ❖ Microbiology lab
- ❖ Documentation room



QUALITY CONTROL LAB

QUALITY ASSURANCE:

- Quality assurance (QA) plays an important role in the development of products and services in pharma and biotech as part of GMP(Good Manufacturing Practices)
- QA refers to the step by step process of examining whether goods and services meet specific quality efficacy and safety requirements as per their intended use.an international standard

ROLE OF QA DEPARTMENT:

The R&D department is responsible for the development of a manufacturing process by which the intended product will be manufactured. In case of API the first step the R&D scientists would

Do is literature survey of existing processes for manufacturing the product.in the R&D the QA involved is often referred to as the development QA-DQA

Important process of the QA DEPARTMENT:

Line clearance
Random checking
Moisture content checking
PP and SP checking
TRF Checking
Balance calibration
Dispensing
BMR

- **Inprocess checking**
- **Weight variation(mg)**
- **Friability(%)**
- **Hardness (n)**
- **Thickness(mm)**



QUALITY ASSURANCE LAB

PRODUCTION:

Production has various stages:

- Granulation
- Drying
- Milling
- Blending
- Compression
- Capsule filling and coating

GRANULATION:

The granulation process combines one or more powder particles and forms a granule, that will allow tableting to be within required limits. It also involves agglomeration. It is carried out for various reasons, one of which is to prevent the segregation of the constituents of powder mix. Segregation is due to difference in the size or density of the components of the mix.

There are two types of granulation,

- Dry granulation

- Wet granulation

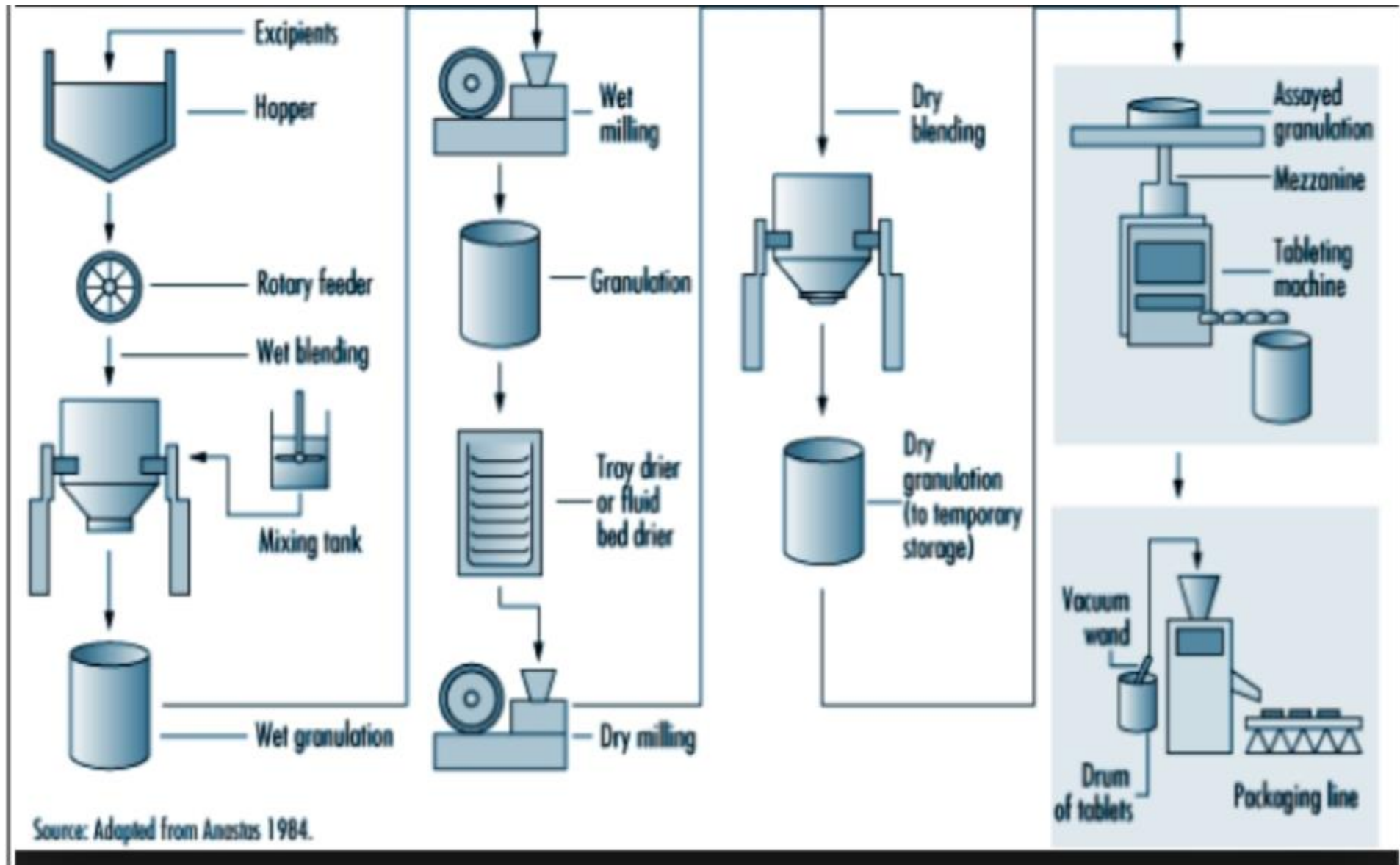
Dry granulation:

- ❖ It involves the direct mixing of raw materials.

Wet granulation

- ❖ It involves the raw material and solvents are mixed together in a rapid mixer grinder.

PROCESS



PACKING:

packing is a coordinated system of preparing transport, storage, sale, and end use.

TYPES OF PACKING:

- PRIMARY PACKING
- SECONDARY PACKING

PRIMARY PACKING:

- Primary packing is the material that first envelops the products and holds it.



SECONDARY PACKING:

Secondary packing is the packing done outside the primary packing, used to drop together the primary packaged material in boxes etc.,



CONCLUSION :

Internship at intermed factory was very much useful and I got more information and subject knowledge. to observe experience, learn, behave, know and work in company Especially in pharmaceutical company, internship was very useful and helped in providing A lot of exposure about the outside world