**DRY SYRUPS**

Dry syrups which are also known as powder for suspension are dosage forms that contain the medication in powder form. This solid powder should be reconstituted by dissolving or suspending in water before administration. Dry syrup is usually suitable for children and elderly patients because of easy administration. Many antibiotics which are not stable in liquid media for long period can easily supply in this dry form. They are to be reformulated by mixing with certain amount of boiled water and should be use up within certain periods of times which is normally 5 days. The processing steps are also reduced for dry syrup compared to other oral liquids and subsequently reduced cost.

- **Dry syrup manufacturing**

**Before manufacturing dry syrup first following work are done**

1. At first wash the bottle with tap water
2. Wash the bottle with DM water
3. Drying for 90 minutes
4. Cooling at 28°C temperature & humidity at 60%

- **ENVIRONMENT OF DRY SYRUP UNIT:**

  Temperature: 21°C
  Humidity: 35-40%
Dry Syrup Manufacturing Process Flow Chart

1. Weighing & dispensing of all ingredients
2. Seiving of all ingredients in mechanical shifter
3. Transferring of powder to drum mixer
   - QC Test
4. Filling & Sealing by automatic powder filling & sealing machine
   - QA Test
5. Labeling by automatic labeling machine
6. Packing & Cartoning by automatic packing & cartoning machine
   - QC Test
7. Transferring to finished product quarantine
   - QC Test
8. Transferring to finished product store
EQUIPMENT USED IN DRY SYRUP UNIT:

1. Drum mixer:
   Purpose: Proper mixing in small scale
   Capacity: Approximately 60 kg

2. Three dimensional motion mixer;
   Purpose: Uniform mixing in large scale
   Capacity: 400 Lit
   Quantity: 01

3. Automatic Powder filling machine;
   Purpose: Filling of prepared dry syrup into the bottle
   Quantity: 02

4. Powder filling machine
   Capacity: 12 bottle/min
   Amounts: 02

5. Auto labeling machine
   Amounts: 01
   Capacity: 60 bottle/min (60ml syrup)

6. Auto cartoning machine
   Capacity: 60 bottle/min (60ml syrup) and 100ml
   Amount: 02