



## QUALITY CONTROL

At Kinapharma, we have a comprehensive system, designed, documented, implemented and controlled, furnished with personnel, equipment and resources to provide assurance that products will be consistently fit for and appropriate to, the intended use.

As GMP requires, we are constantly guided by our quality assurance principles; which are:

- Quality, safety and effectiveness must be designed and built into the product.
- Quality cannot be inspected or tested into the finished product.
- Each step of the process must be controlled to maximize the probability that the finished product meets all its design specifications.

Our highly skilled analysts evaluate and assure the quality of intermediates and products in our fully equipped laboratory using modern and sophisticated analytical instruments.

### FACILITY INFORMATION

#### A. Liquid and Dry Syrup Department

The liquid department has two full-fledged independent lines to avoid the cross contamination with separate entry and exit system. These two manufacturing lines allow us to serve our customers in a best way to accommodate required production and priority.

The liquid department has the manufacturing tank capacity from 500 to 2000 liters.

We have installed new dry syrup machinery which is under the qualification status and would be ready to deliver the product soonest. All the machinery is made up with the concept of cGMP. All the independent accessories are made up of SS. This is very latest PLC based/programmed machinery which will avoid any manual interference.

Liquid and dry syrup are equipped with an automatic bottle washing/filling/capping/labeling machine without any direct manual touch to the product.

## B. Tablet/Capsule Department

### **Compression**

A total of 12 compression machines are capable of producing 50,00,000 tablets per day. The very senior and experienced persons working in this section maintain the required specifications of individual tablets. We have separate rooms to maintain the inventory of parts and consumables in the department only.

### **Granulation**

Three granulation sections equipped with FBDs, RMGs, Blenders, Multimill, Shifter capable of producing granules of 2 tons per day. All the required utilities like steam, purified water and air are available. To maintain the cleanliness and proper hygiene level non-return drain traps are also in place.

### **Coating**

Two independent areas for coating are equipped with coating pan, polishing plan with tablet inspection machine. Sugar coating and film coating is done in separate rooms to avoid any contamination. We have full-fledged range of the products of sugar coating, film coating, enteric coating tablets.

### **Capsule**

The capsule section is equipped with automatic and semi-automatic capsule filling, polishing and inspection machines capable of the output 5,00,000 per day.

### **Sachet**

We are the brand leader of ORS in the west Africa and Ghana. We have total 7 sachet filling and sealing machines capable of producing 200,000 sachets per day. We have required utilities like steam, air and dehumidifiers is in place. This section has independent drying option with 24 trays, blender and shifter. The whole process is done in a controlled environment under the most experienced and trained staff.

## C. Beta Lectum Department

We have a full-fledged facility for the beta lectum products inclusive of dry syrup and capsules. It is maintained with separate entry and exits in the factory. All the utilities like purified water, steam, air and dehumidifier are separate and available. This department is equipped with semiautomatic capsule filling, sealing and polishing machine.

#### D. Packaging Department

We have 3 strip packing machines serving for our best seller product Kwik Action. Also we have 5 blister machines with eye mark packing facility. In addition to this we have two Alu-Alu pack machines to serve anti-malarial products. There are individual packing lines for each machine with belt and online inspection for the secondary packaging under strict supervision. All the utilities like air and chiller system are in place to give convincing product in the market.

The whole facility includes a full-fledged quality assurance, quality control, warehouse raw material/packaging material, engineering, human resource and finance department as a service department.

#### E. Research and Department

Innovation is a basic need for any pharmaceutical industry and is satisfied with our new products range. We have R & D model equipment like RMG capacity 5, 10 and 15 liter, FBD of 10 liter, coater, colloidal mill with stirrer, homogenizer, blender capacity of 10 and 15 liters and compression machine with single and bilayer. We have various dosage forms like tablet, capsule, liquid orals, sachet has been developed in small scale R & D. Once the stability is proved in the small scale R & D then the technology transfer is done to the larger scale as per the installed capacity.

#### F. Quality Control Department

This well-equipped quality control laboratory follows all the cGMP. Highly technical and trained staff performs analysis and confirm the quality of the raw, packing and finished product. We have HPLCs, FTIR, spectrophotometer, dissolution tester and all other sophisticated instrument in place. All the equipment is qualified to give correct, accurate and repeatable results.