

POST MARKETING SURVEILLANCE PLAN 2020-2021

1.0 <u>INTRODUCTION</u>

According to the Law N° 003/2018 of 09/02/2018 establishing Rwanda FDA, its organization and functioning especially in Article 8 paragraph 9, Rwanda FDA is mandated to conduct pharmacovigilance and post marketing surveillance for safety and quality of products regulated under this Law; It is in this regards Rwanda FDA has established the post marketing surveillance plan for 2020/2021 which states the objectives, methodology, activities to be undertaken during this fiscal year, the list of products and the criteria for selection of the products/molecules that are to undergo quality tests in the laboratory and the estimated budget. Furthermore, the selection of sites where the sampling will be done is detailed as well as the guide on sampling. Tools that should be used during the implementation of the plan are part of the document as annexes.

The Post marketing surveillance plan will cover different components for PMS system in the country including regulatory framework, PMS sampling, statutory documents guiding PMS in the country such as guidelines, system and structures including equipment and materials.

1.1 Background

Rwanda FDA is mandated to protect public health by ensuring safety, quality and efficacy of medicines and other regulated products. This core priority will be achieved by strengthening of systems, processes and procedures for post marketing regulatory activities for medicines and

healthcare products, capacity building, Management and planning of PMS activities, however, the focus of the PMS quality surveillance plan is mostly on quality of the product.

It is important to note that poor quality medicines may result into increased morbidity and mortality, treatment failure, adverse reactions, antimicrobial resistance, wastage of financial resources, wastage of human resources, increase in health expenditure, loss of confidence in conventional medicines and loss of confidence in the healthcare system. Poor quality veterinary products negatively affect animal productivity and the economy among others. This calls for a robust method for conducting Post marketing surveillance.

2.0 Objectives

The main objective of the Post marketing surveillance plan is to build enabling structure and system for quality of medicines

2.1 Specific objectives

- a) To establish regulatory framework for post marketing surveillance
- b) To equip the Quality Control Laboratory for PMS activities
- c) To build the capacity for Rwanda FDA staff to undertake PMS activities
- d) To carry out sampling and testing of selected products
- e) To conduct quality control tests on the samples obtained using validated and/or approved methods
- f) To provide evidence based test results to inform regulatory action against identified substandard products

3. Methodology

3.1 Regulatory framework

| A technical assistance will be needed for drafting the PMS regulation and different stages of |
|---|
| document approval including stakeholder's consultation for inputs and ideas |
| Rwanda FDA will develop the PMS guideline and SOPs to provide guidance on conduct of |
| Post marketing surveillance activities in Rwanda and also different tools will be developed |
| including forms, formats as per Rwanda FDA Quality Management system |

| | Table 1: PMS REGULATORY FRAMEWORK/STATUSTORY DOCUMENTS 2020-2021 | | | | | | | | |
|---------|--|----------------------|---|------|----|----------------|-------|---------------------|--------------------------|
| S/ N | PMS Component | Action item category | Description | Targ | | Compl 2020) | etion | Responsibl e Entity | Document/Deliverabl e |
| | | | | Q1 | Q2 | Q3 | Q4 | | |
| 1 | Legal Framework | Regulation | Regulation to stipulate that any PMS activity must be done by the FDA. | X | | | | Rwanda FDA | Regulations on PMS |
| | | | Regulation to stipulate that any medical product quality survey in the country must be supervised by the FDA | | | | | | |
| | | | Requirements for manufacturers, Importers, distributors and Healthcare institutions to inform FDA of any suspicious or defective medical products | | | | | | |
| | | | Mandate to collect and test samples of medical products from supply chain. Should include authority to collect samples without payments Define Administrative sanctions, including provisions for withdrawal of marketing authorizations | | | | | | |

| | | | recall and disposal of seized or confiscated medical product | | | | |
|------------|------|-------------------------|---|---|--|---------------|---|
| Guidelines | | Human Resources | PMS Guidelines should indicate clear roles and responsibilities for Inspectors, MAH, and PMS staff | Х | | Rwanda FDA | PMS Guidelines |
| | | Management and Planning | Include in PMS guidelines - stakeholders involvement in planning of PMS should include health programs and FDA staff | | | Rwanda FDA | |
| | | Sampling and Testing | Develop guidelines on how to implement PMS. | | | Rwanda FDA | |
| | | Enforcement Actions | Develop guidelines for recall and disposal of seized or confiscated medical product. Need a guildeline to address waste management for medical products. | | | Rwanda FDA | Guidelines on Recall and Disposal of Medicine or Health commodities |
| 2 | | Communcation | Define "other concerned persons" and include communcation to relevant stakeholders | | | Rwanda FDA | PMS Guidelines |
| 3 | SOPs | SOPs | Analytical procedures | X | | | Lab SOP on multiple subjects related to PMS testing and staff training |

3.2 Capacity building

Rwanda FDA will identify PMS capacity building needs for respective staff for proper conduct of PMS activities and will partner with stakeholders in the capacity building

3.3 Sampling and Quality Testing

Rwanda FDA will conduct a cross-sectional survey whereby products will be picked from selected facilities, along the supply chain from both Private and Public sector at different levels including Cemtral, regional and district levels. The survey will utilize the principles and tool of PMQS in LMICi to determine the sample sites (location), the sample size and the number of products to be picked from a given sample site.

3.3.1 Survey period

The post marketing surveillance activities will be conducted from July 2020 to June 2021.

3.3.2 Samples to be picked per quarter

Samples shall be collected on campaign basis where specific products shall be sampled per quarter per different levels

3.3.3 Criteria for selection of products

The specific criterion for selection of the molecules and the products is as below.

- a) Previous or current reports and complaints of inferior quality within the last 12 months
- c) Products with previous reported serious unexpected adverse drug reactions.
- d) Products which have previously failed quality tests from Quality Control Laboratory reports
- e) Products which have been flagged by other regulatory authorities
- f) Products on donor-funded PMS programs (WHO, GF etc.)
- g) Products for the management of different diseases
- f) Products widely used
- g) Orphan medicines

3.3.4 The number of samples per category of product

Using the Medicine Risk-Based Surveillance Tool developed by USP, the sample size of medicines and facilities to sample from were determined as elaborated in section 3.1 above. Fischer's formula was used. below to determine the appropriate sample size.

$$no=Z2p(1-p)/e^2$$

Where

- a) no is the sample size (in this case number of facilities from which samples are to be picked)
- b) Z is *the Z value* (e.g. 1.96 for 95% confidence level) and Z2 is the normal curve that cuts off an area (α at the tails).
- c) e is the desired level of precision
- d) p is the estimated proportion of an attribute that is present in the population or otherwise the prevalence

3.3.5 Choice of sample collection sites

Collection sites and sampling methods

Samples will be collected from all 4 provinces and the City of Kigali across the country. The specific sampling sites will be determined by the use of the RB-Sampling tool and samples will be collected by campaign method.

3.3.6 Distribution of sample collection site

| Province | Distribution level | Facility type |
|----------------------|--------------------|-------------------------|
| 1. City of Kigali | Level 1 | - Central medical store |
| 2. Western Province | | - Ports of entry |
| 3. Eastern Province | | - Wholesale pharmacies |
| | | |
| 1 City of Kigali | Level 2 | - Retail Pharmacies |
| 2. Western Province | | - Public Hospitals |
| 3. Eastern Province | | - Private Hospitals |
| 4. Southern Province | | |
| 5. Northern Province | | |
| | | |

| 1. City of Kigali | Level 3 | - Health centers |
|----------------------|---------|-----------------------|
| Level | | - Private clinics/NGO |
| 2. Western Province | | clinics |
| 3. Eastern Province | | |
| 4. Southern Province | | |
| 5. Northern Province | | |

3.4 Sample collection

For purposes of the PMS, a sample means an item collected from each medicine's presentation (identified by the name, packaging label, content of APIs, dosage form, strength, batch number and manufacturer) at the same collection site. Hence a product of the same: name, packaging, content of APIs, dosage form, strength, batch number and from the same manufacturer collected in two different sites represents two samples.

There will be periodic data review on the brands picked to avoid leaning on one brand but encourage picking diverse brands from the categories of drugs to be sampled.

Wherever practical, the samples shall be collected from the private and public sectors and the private not for profit / NGOs sector.

Where necessary especially private sector payment for samples will be made by the sampling team from Rwanda FDA of at the time of collection of samples from the drug outlets. Original headed receipts or stamped receipts from the pharmaceutical facility indicating the name and location of the medicines facility shall be obtained for accountability purposes.

3.5 Sampling guide

- a) Number of dosage units collected per sample should be specified for each sample in *Annex13* and the SOP for sampling shall be followed.
- b) Only un-opened original packages shall be collected, the number of units per sample shall be dependent on the pack size.
- c) If there are less tablets or suspension available for a particular batch than required, the sample shall not be collected and another batch shall consequently be selected.

- d) If there are two or more strengths of the same brand available for sampling, samples with the lower strength(s) should be collected.
- e) If there are two or more pack sizes of the same brand available for sampling, samples with the biggest pack size(s) should be collected.
- f) Samples of different brands should be collected rather than several batches of the same brand. If more than required numbers of brands are available for sampling, priority should be given to the most used brands and brands with previous complaints. Whenever the required information is not available, it should be indicated by "NA" in the appropriate space on the sample collection form, where also any abnormalities should be recorded.
- g) Samples should be identified by a unique sample code following the SOP on Sampling.
- h) During sample collection the visual inspection should be performed at the site should be evaluated and described in the sample collection form (**Tool for Visual Inspection of Medicines**)

Budget for PMS activities 2020/2021

| | PLANNED PMS ACTIVITIES AND BUDGET BY RWANDA FDA IN FISCAL YEAR 2020/2021 | | | | | | | | |
|-----|--|--------------------------------------|--|----|---------------------------------|--------|-------------|--------------------------|------------------------------------|
| S/N | PMS Componen | Action item category | Activities | | Timeline 2020 Budget(USD) /2020 | | Budget(USD) | Document/Deliverabl e | |
| | t | | | Q1 | Q2 | Q 3 | Q4 | | |
| 1 | Legal Framework | Regulation | Develop the PMS regulation in Rwanda | X | | | | 30,000 | Approved PMS Regulations |
| 2 | Sampling and Testing | Guidelines | Develop guidelines on how to implement PMS. | Х | | | | 20,000 | Approved PMS Guidelines |
| 3 | | SOPs | Develop PMS SOPs | X | | | | | Approved SOP |
| 4 | Capacity building | | Training of FDA staff in PMS | | X | | | 60,000 | Staff trained |
| 5 | Laboratory | Purchase Laboratory equipments | Procure lab equipments to support PMS activities | | X | | | 2, 271,300.00 | Functional QC Laboratory |
| 6 | | Laboratory testing | Purchase Laboratory reagents | | X | | | 500,000.00 | Good quality lab reagent available |
| 7 | | | Purchase samples from the market | | | | | 30,000 | sample bought |
| 8 | | | Sampling from the market | | | | | 40,000 | Sampling performed |

| | | Quality control analysis (Internal) | X | х | X | X | | Quality control report available |
|---|--|--|---|---|---|---|-----------|----------------------------------|
| 9 | | Quality control analysis (External QC Prequalified Laboratory) | X | X | X | X | 150,000 | Quality control report available |
| | | Total | | | | | 3,101,300 | - |

Annex 1: Sampling plan for medicines

| S/N | PRODUCTS NAMES | QUANTITY TO SAMPLE | SOURCE OF SAMPLES |
|-----|---|-----------------------|------------------------------------|
| 1 | Abacavir Tablets | 4 boxes | RMS Branches |
| 2 | Abacavir and Lamivudine Tablets | 4 boxes | RMS Branches |
| 3 | Acetaminophen or Paracetamol Tablets | 200 | Wholesale&retail levels |
| 4 | Acetaminophen Extended /sustained/prolonged- ReleaseTablets | 200 | Wholesale&retail levels |
| 5 | Aciclovir Tablets | 200 | RMS Branches |
| 6 | Acyclovir capsules | 200 | RMS Branches |
| 7 | Acyclovir tablets | 200 | RMS Branches |
| 8 | Albendazole tablets | 200 | Retail, Wholesale and RMS Branches |
| 9 | Albendazole chewable tablets | 200 | Retail, Wholesale and RMS Branches |
| 10 | Allopurinol tablets | 200 | Retail, Wholesale and RMS Branches |
| 11 | Aminophylline tablets | 200 | Retail, Wholesale and RMS Branches |
| 12 | Aminophylline Delayed-Release/ Enteric-coated/ Gastro-resistant Tablets | 200 | Retail, Wholesale and RMS Branches |
| 13 | Amitriptyline Hydrochloride tablets | 200 | Retail, Wholesale and RMS Branches |
| 14 | Amlodipine besylate tablets | 200 | Retail, Wholesale and RMS Branches |
| 15 | Amoxicillin capsules | 200 | Retail, Wholesale and RMS Branches |
| 16 | Amoxicillin tablets | 200 | Retail, Wholesale and RMS Branches |
| 17 | Amoxicillin and Clavulanate Potassium tablets | 200 | Retail, Wholesale and RMS Branches |
| 18 | Amoxicillin and Clavulanic Acid Extended /sustained/prolonged- ReleaseTablets | 200 | Retail, Wholesale and RMS Branches |

| | | 200 | Retail, Wholesale and |
|----|----------------------------------|-----|------------------------------------|
| 19 | Ascorbic acid tablets | 200 | RMS Branches |
| | A. 1.1.11. | 200 | Retail, Wholesale and |
| 20 | Atenolol tablets | | RMS Branches |
| | Bisacodyl | 200 | Retail, Wholesale and |
| | Delayed-Release/ | | RMS Branches |
| | Enteric-coated/ | | |
| 21 | Gastro-resistant Tablets | | |
| | Captopril tablets | 200 | Retail, Wholesale and |
| 22 | Captopin tablets | | RMS Branches |
| | Carbamazepine tablets | 200 | Retail, Wholesale and |
| 23 | - | | RMS Branches |
| | Carbamazepine | 200 | Retail, Wholesale and |
| | Extended | | RMS Branches |
| | /sustained/prolonged- | | |
| 24 | ReleaseTablets | 200 | D (1 W) 1 1 1 |
| 25 | Cephalexin capsules | 200 | Retail, Wholesale and |
| 25 | 1 | 200 | RMS Branches |
| 26 | Cephalexin tablets | 200 | Retail, Wholesale and |
| 26 | - | 200 | RMS Branches |
| 27 | Chloramphenicol | 200 | Retail, Wholesale and |
| 27 | Chlorehoninomino | 200 | RMS Branches |
| 28 | Chlorpheniramine maleate tablets | 200 | Retail, Wholesale and RMS Branches |
| 20 | Chlorpromazine | 200 | Retail, Wholesale and |
| 29 | hydrochloride tablets | 200 | RMS Branches |
| 29 | Hydrochioride tablets | 200 | Retail, Wholesale and |
| 30 | Cimetidine tablets | 200 | RMS Branches |
| 30 | Ciprofloxacin | 200 | Retail, Wholesale and |
| 31 | hydrochloride tablets | 200 | RMS Branches |
| J1 | Ciprofloxacin | 200 | Retail, Wholesale and |
| | hydrochloride Extended | | RMS Branches |
| | /sustained/prolonged- | | |
| 32 | ReleaseTablets | | |
| | | 200 | Retail, Wholesale and |
| 33 | Clarithromycin tablets | | RMS Branches |
| | Clarithromycin Extended | 200 | Retail, Wholesale and |
| | /sustained/prolonged- | | RMS Branches |
| 34 | ReleaseTablets | | |
| | Clomiphene Citrate | 200 | Retail, Wholesale and |
| 35 | Tablets | | RMS Branches |
| | CoartemArtemether/Lum | 200 | Retail, Wholesale and |
| 36 | efantrine Tablets | | RMS Branches |
| | Diclofenac sodium | 200 | |
| 37 | Delayed-Release/ | | |

| | | | _ |
|----|--------------------------|------|-----------------------|
| | Enteric-coated/ | | Retail, Wholesale and |
| | Gastro-resistant Tablets | 1000 | RMS Branches |
| | Diclofenac sodium | 200 | Retail, Wholesale and |
| | Extended | | RMS Branches |
| 20 | /sustained/prolonged- | | |
| 38 | ReleaseTablets | | |
| | Diclofenac sodium and | 200 | Retail, Wholesale and |
| | Misoprostol | | RMS Branches |
| | Delayed-Release/ | | |
| | Enteric-coated/ | | |
| 39 | Gastro-resistant Tablets | | |
| | Doxycycline Capsules | 200 | Retail, Wholesale and |
| 40 | | | RMS Branches |
| | Doxycycline Extended | 200 | Retail, Wholesale and |
| | /sustained/prolonged- | | RMS Branches |
| 41 | Release Capsules | | |
| | Doxycycline hyclate | 200 | Retail, Wholesale and |
| 42 | Capsules | | RMS Branches |
| | Doxycycline hyclate | 200 | Retail, Wholesale and |
| | Delayed-Release/ | | RMS Branches |
| | Enteric-coated/ | | |
| | Gastro-resistant | | |
| 43 | Capsules | | |
| | Doxycycline hyclate | 200 | Retail, Wholesale and |
| 44 | Tablets | | RMS Branches |
| | Doxycycline hyclate | 200 | Retail, Wholesale and |
| | Delayed-Release/ | | RMS Branches |
| | Enteric-coated/ | | |
| 45 | Gastro-resistant Tablets | | |
| | Efavirenz Capsules | 200 | Retail, Wholesale and |
| 46 | Liavirenz Capsules | | RMS Branches |
| | Efavirenz Tablets | 200 | Retail, Wholesale and |
| 47 | | | RMS Branches |
| | Ethambutol | 200 | Retail, Wholesale and |
| 48 | Hydrochloride Tablets | | RMS Branches |
| | Fluconazole Tablets | 200 | Retail, Wholesale and |
| 49 | T TUCOHAZOIC TAUICIS | | RMS Branches |
| | Folic acid Tablets | 200 | Retail, Wholesale and |
| 50 | 1 one acid fabicts | | RMS Branches |
| | Furosemide Tablets | 200 | Retail, Wholesale and |
| 51 | 1 utoscimue tauleis | | RMS Branches |
| | Griseofulvin Tablets | 200 | Retail, Wholesale and |
| 53 | GIISCOIUIVIII TADICIS | | RMS Branches |
| | Holonoridal Tablata | 200 | Retail, Wholesale and |
| 54 | Haloperidol Tablets | | RMS Branches |

| | | T | 1 |
|----|--|---------|---------------------------------------|
| 55 | Hydrochlorothiazide Capsules | 200 | Retail, Wholesale and RMS Branches |
| 56 | Hydrochlorothiazide Tablets | 200 | Retail, Wholesale and RMS Branches |
| 57 | Indomethacin Capsules | 200 | Retail, Wholesale and RMS Branches |
| 58 | Indomethacin Extended /sustained/prolonged-Release Capsules | 200 | Retail, Wholesale and RMS Branches |
| 59 | Isoniazid Tablets | 200 | Retail, Wholesale and RMS Branches |
| 60 | Kanamycin Sulfate Capsules | 200 | Retail, Wholesale and RMS Branches |
| 61 | Kanamycin powder for injection | 40 | Retail, Wholesale and RMS Branches |
| 62 | Ketoconazole Tablets | 200 | Retail, Wholesale and RMS Branches |
| 63 | Lamivudine Tablets | 4 boxes | Retail, Wholesale and RMS Branches |
| 64 | Lamivudine and ZidovudineTablets | 4 boxes | RMS Branches |
| 65 | Lamivudine ,Zidovudine and NevirapineTablets | 4 boxes | RMS Branches |
| 66 | Lamivudine ,Tenofovir and Effavirenz Tablets | 4 boxes | RMS Branches |
| 67 | Lamivudine and Tenofovir Tablets | 4 boxes | RMS Branches |
| 68 | Loperamide hydrochloride Capsules | 200 | Retail, Wholesale and RMS Branches |
| 69 | Loperamide hydrochloride Tablets | 200 | Retail, Wholesale and RMS Branches |
| 70 | Losartan potassium Tablets | 200 | Retail, Wholesale and RMS Branches |
| 71 | Mebendazole Tablets | 200 | Retail, Wholesale and RMS Branches |
| 72 | Metformin hydrochloride Tablets | 200 | Retail, Wholesale and RMS Branches |
| 73 | Metformin hydrochloride Extended /sustained/prolonged- Release Tablets | 200 | Retail, Wholesale and RMS Branches |
| 74 | Metoclopramide Tablets | 200 | Retail, Wholesale and RMS Branches |
| 75 | Metronidazole Capsules | 200 | Retail, Wholesale and RMS Branches |

| | | 1200 | D : 11 W 1 1 1 |
|-------------|-------------------------|------|------------------------------------|
| 76 | Metronidazole Tablets | 200 | Retail, Wholesale and RMS Branches |
| | Metronidazole Extended | 200 | Retail, Wholesale and |
| | /sustained/prolonged- | | RMS Branches |
| 77 | Release Tablets | | |
| 7.0 | Misoprostol Tablets | 200 | Retail, Wholesale and |
| 78 | 1 | 200 | RMS Branches |
| 79 | Nalidixic acid Tablets | 200 | Retail, Wholesale and RMS Branches |
| 19 | | 200 | Retail, Wholesale and |
| 80 | Nevirapine Tablets | 200 | RMS Branches |
| | Nevirapine Extended | 200 | Retail, Wholesale and |
| | /sustained/prolonged- | | RMS Branches |
| 81 | Release Tablets | | |
| | Nifedipine Capsules | 200 | Retail, Wholesale and |
| 82 | 1 | | RMS Branches |
| | Nifedipine Extended | 200 | Retail, Wholesale and |
| | /sustained/prolonged- | | RMS Branches |
| 83 | Release Tablets | 200 | D + 11 17 1 1 1 |
| 0.4 | Nitrofurantoin Capsules | 200 | Retail, Wholesale and |
| 84 | _ | 200 | RMS Branches Retail, Wholesale and |
| 85 | Norfloxacin Tablets | 200 | RMS Branches |
| 0.5 | | 200 | Retail, Wholesale and |
| 86 | Nystatin Tablets | | RMS Branches |
| | O.O T. 1.1 | 200 | Retail, Wholesale and |
| 87 | Ofloxacin Tablets | | RMS Branches |
| | Omeprazole | 200 | Retail, Wholesale and |
| | Delayed-Release/ | | RMS Branches |
| | Enteric-coated/ | | |
| | Gastro-resistant | | |
| 88 | Capsules | 10 | D 4 11 1 1 1 |
| 89 | Oxytocin injection | 40 | Retail, Wholesale and |
| 89 | | 5 | RMS Branches Retail, Wholesale and |
| 90 | PommadeCamphree | J | RMS Branches |
| | Promethazine | 200 | Retail, Wholesale and |
| 91 | hydrochloride Tablets | | RMS Branches |
| | Propranolol | 200 | Retail, Wholesale and |
| | hydrochloride Extended | | RMS Branches |
| | /sustained/prolonged- | | |
| 92 | Release Capsules | | |
| | Propranolol | 200 | Retail, Wholesale and |
| 93 | hydrochloride Tablets | | RMS Branches |

| | | 200 | D (1377 1 1 1 |
|-----|--------------------------|-----|---------------------------------------|
| 94 | Pyrazinamide Tablets | 200 | Retail, Wholesale and RMS Branches |
| | Pyridoxine | 200 | Retail, Wholesale and |
| 95 | Hydrochloride Tablets | | RMS Branches |
| | Quinine sulfate | 200 | Retail, Wholesale and |
| 96 | Capsules | | RMS Branches |
| | • | 200 | Retail, Wholesale and |
| 97 | Quinine sulfate Tablets | 200 | RMS Branches |
| 21 | | 200 | Retail, Wholesale and |
| 98 | Ranitidine Tablets | 200 | RMS Branches |
| 70 | Riboflavin (Vitamin B2) | 200 | Retail, Wholesale and |
| 99 | Tablets | 200 | RMS Branches |
| 77 | Tablets | 200 | Retail, Wholesale and |
| 100 | Rifabutin Capsules | 200 | , , , , , , , , , , , , , , , , , , , |
| 100 | <u> </u> | 200 | RMS Branches |
| 101 | Rifampicin Capsules | 200 | Retail, Wholesale and |
| 101 | | 200 | RMS Branches |
| 1.2 | Rifampicin powder for | 200 | Retail, Wholesale and |
| 102 | injection | | RMS Branches |
| | Rifampicin and | 200 | Retail, Wholesale and |
| 103 | Isoniazid Tablets | | RMS Branches |
| | Rifampicin ,Isoniazide | 200 | Retail, Wholesale and |
| | and Ethambutol | | RMS Branches |
| 104 | Hydrochloride Tablets | | |
| | Rifampicin ,Isoniazid | 200 | Retail, Wholesale and |
| | ,Pyrazinamide and | | RMS Branches |
| | Ethambutol | | |
| 105 | Hydrochloride Tablets | | |
| | Rifampicin ,Isoniazid | 200 | Retail, Wholesale and |
| | and Pyrazinamide | | RMS Branches |
| 106 | Tablets | | |
| | Streptomycin sulfate for | 40 | Retail, Wholesale and |
| 107 | injection | | RMS Branches |
| / | Sulfamethoxazole and | 200 | Retail, Wholesale and |
| | Trimethroprim Tablets or | | RMS Branches |
| 108 | Co-Trimoxazole | | |
| 100 | Thiamine hydrochloride | 200 | Retail, Wholesale and |
| 109 | Tablets | 200 | RMS Branches |
| 107 | | 200 | Retail, Wholesale and |
| 110 | Tinidazole Tablets | 200 | RMS Branches |
| 110 | Tramadal hydraahlarida | 200 | Retail, Wholesale and |
| 111 | Tramadol hydrochloride | 200 | RMS Branches |
| 111 | Tablets | 200 | |
| | Tramadol hydrochloride | 200 | Retail, Wholesale and |
| | Extended | | RMS Branches |
| 110 | /sustained/prolonged- | | |
| 112 | Release Tablets | | |

| 113 | Tramadol hydrochloride and Acetaminophen/paraceta mol Tablets | 200 | Retail, Wholesale and RMS Branches |
|-----|---|---------|------------------------------------|
| 114 | Warfarin sodium Tablets | 200 | Retail, Wholesale and RMS Branches |
| 115 | Zidovudine Capsules | 4 boxes | RMS Branches |
| 116 | Zidovudine Tablets | 4 boxes | RMS Branches |
| 117 | Zinc Sulfate Tablets | 200 | Retail, Wholesale and RMS Branches |
| 118 | Ethanol based hand sanitizers | 200 | Retail, Wholesale and RMS Branches |
| 119 | Isopropyl alcohol based hand sanitizers | 2 | Retail, Wholesale and RMS Branches |
| 120 | SYRUPS,POWDERS AND SUSPENSION Related to the tablet on the above | 5 | Retail, Wholesale and RMS Branches |

Annex 2: POST MARKETING SURVEILLANCE PROGRAMME SAMPLE COLLECTION FORM

| 1. | Samp | le code: |
|----|--------|---|
| | (Regio | on/product/sequence number/sampling date// |
| 2. | Name | & Address of Premises where sample was taken: |
| | a. | Physical Address |
| | b. | Postal address |
| | c. | Telephone No |
| | d. | Email address (if applicable) |
| 3. | Produ | act name of the sample: |
| | a. | Description/identification (colour) |
| | b. | Name of active pharmaceutical ingredient(s) (INN) |
| | c. | Strength |
| | d. | Dosage form (tablet, oral powder, etc): |
| | e. | Package size & type: |
| | f. | Batch/lot number: |
| | g. | Date of manufacture:Expiry date |
| 4. | Name | and physical address of the manufacturer: |
| 5. | Numb | per of units collected (tins, packet) |
| 6. | Is the | product registered in the country? Yes/ No. |
| | a. | If Yes, indicate the registration number: |
| 7. | Stora | ge condition of product at the premises: |
| 8. | Detail | s of representative of the premises and Drug Inspector (s)/Sampling |
| | office | r(s) |

| S.N o | Name | Organization | Signature | Date |
|----------|------|--------------|-----------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Note: Samples collected must remain in their original containers

Annex 3: Table 2: Samples to be selected and respective parameters

| S/N | Products Names (Medical drugs) | Parameters | Justification | Quarter for sampling |
|-----|---|---|---|----------------------|
| 1 | Paracetamol Tablets | Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Highly consumed | Q1 |
| 2 | Albendazole tablets | Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Reported in the QCL report to be of poor Quality | Q1 |
| 3 | Amitriptyline Hydrochloride tablets | Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Program medicines (Mental Health) | Q1 |
| 4 | Amlodipine besylate tablets | Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Program medicines (NCD) | Q2 |
| 5 | Amoxicillin tablets | Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Highly consumed | Q1 |
| 6 | Amoxicillin and Clavulanate Potassium tablets | Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Highly consumed | Q2 |
| 7 | Bipivacaine 0.5 % inj sinal | Identification,pH Assay, Extratcable volume, sterility, Related substances | Reported in quality complaints from Health facilities | Q1 |
| 8 | Captopril tablets | Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Highly consumed medicines (NCDs) | Q1 |
| 9 | Carbamazepine tablets | Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Program medicines (Mental Health) | Q3 |
| 10 | Cimetidine tablets | Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Highly consumed medeciens | Q3 |
| 11 | Ciprofloxacin hydrochloride tablets | Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Reported in quality complaints from Health facilities | Q2 |
| 12 | CoartemArtemether/Lumef antrine Tablets | Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Program medicines (Malaria) | Q1 |

| | Diclofenac sodium | | Reported by | Q2 |
|---------|--|--|--|----------|
| 1 | Delayed-Release/ | | health facility to | |
| | Enteric-coated/ | | be associated | |
| ، ا | Gastro-resistant Tablets | Identification, Assay, | with safety | |
| 13 | Gustro resistant radicts | Disintegration and Dissolution | issues | |
| | | | Reported by | Q2 |
| | Misoprostol 200ug tablets | Identification, Assay, | QCL to be of | |
| 14 | | Disintegration and Dissolution | Poor Quality | |
| | | Identification, Assay, uniformity | Program | Q3 |
| 1 1 | RHZE | of weight, Friability, | medicines | |
| 15 | | Disintegration and Dissolution | (Tuberculosis) | |
| | | Identification, Assay, uniformity | Highly | Q2 |
| | Hydrochlorothiazide | of weight, Friability, | consumed | |
| I I | Tablets | Disintegration and Dissolution | medicines | |
| 16 | | | (NCDs) | |
| 1 | Lamivudine ,Tenofovir and | Identification, Assay, uniformity | Program | Q4 |
| 1 17 1 | Effavirenz Tablets | of weight, Friability, Disintegration and Dissolution | medicines (HIV) | |
| | I amino din a and Mark Carl | Identification, Assay, uniformity | Pragram | Q4 |
| , | Lamivudine and Tenofovir Tablets | of weight, Friability, | medeicnes (HIV | - |
| 18 | | Disintegration and Dissolution | | |
| | Ledipasvir/sofosbuvir | Identification, Assay, uniformity | Reported to be | Q2 |
| 19 \$ | 90-400mg | of weight, Friability, Disintegration and Dissolution | inefficacious by health facility | |
| | | Highly consumed | Highly | Q4 |
| , | Metformin hydrochloride Tablets | 89 | consumed | |
| 20 | | | (NCD program) | |
| | Nifedipine Extended | Identification, Assay and | Highly | Q4 |
| | /sustained/prolonged- Release Tablets | Dissolution | consumed (NCD program | |
| - | Omeprazole | Identification, Assay, | Highly | Q3 |
| | Delayed-Release/ | Disintegration and Dissolution | consumed | 40 |
| | Enteric-coated/ | | | |
| 22 (| | | medicines) | |
| i I | Gastro-resistant Capsules | 71 110 | , | |
| | Gastro-resistant Capsules | Identification,pH, Assay, sterility | Reported by | Q2 |
| (| | Identification,pH, Assay, sterility and related substances | Reported by Health Facility | Q2 |
| 23 | Gastro-resistant Capsules | | Reported by | Q2 |
| 23 | Gastro-resistant Capsules Oxytocin injection | and related substances Identification, Assay, uniformity | Reported by Health Facility to be of poor quality Reported by | Q2 Q2 |
| 23 | Gastro-resistant Capsules Oxytocin injection Tramadol hydrochloride | and related substances Identification, Assay, uniformity of weight, Friability, | Reported by Health Facility to be of poor quality Reported by Health Facility | |
| 23 | Gastro-resistant Capsules Oxytocin injection | and related substances Identification, Assay, uniformity | Reported by Health Facility to be of poor quality Reported by Health Facility to be of poor | |
| 23 | Gastro-resistant Capsules Oxytocin injection Tramadol hydrochloride | and related substances Identification, Assay, uniformity of weight, Friability, | Reported by Health Facility to be of poor quality Reported by Health Facility | |
| 23 | Gastro-resistant Capsules Oxytocin injection Tramadol hydrochloride | and related substances Identification, Assay, uniformity of weight, Friability, | Reported by Health Facility to be of poor quality Reported by Health Facility to be of poor | |
| 23 | Gastro-resistant Capsules Oxytocin injection Tramadol hydrochloride | and related substances Identification, Assay, uniformity of weight, Friability, | Reported by Health Facility to be of poor quality Reported by Health Facility to be of poor | |
| 23 | Gastro-resistant Capsules Oxytocin injection Tramadol hydrochloride | and related substances Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Reported by Health Facility to be of poor quality Reported by Health Facility to be of poor quality | Q2 |
| 24 | Gastro-resistant Capsules Oxytocin injection Tramadol hydrochloride Tablets | and related substances Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution Identification, Assay, uniformity | Reported by Health Facility to be of poor quality Reported by Health Facility to be of poor quality Suspected to be | |
| 24 | Gastro-resistant Capsules Oxytocin injection Tramadol hydrochloride | and related substances Identification, Assay, uniformity of weight, Friability, Disintegration and Dissolution | Reported by Health Facility to be of poor quality Reported by Health Facility to be of poor quality | Q2 |

| 26 | Gentamycin inj | | Reported by other regulatory authority to be of poor quality | Q1 |
|----|----------------|--|--|----|
| | | Identification,pH, Assay, sterility and related substances | | |