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Review Article



Regulatory requirement for the approval of Generic Drug in Cambodia as per ASEAN Common Technical Dossier (ACTD)

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ABSTRACT

Drug approval process differs from one country to another country. In some countries only single body regulates the drug as well as responsible for all regulatory work which is a challenging task for the pharmaceutical companies to prepare single dossier that can be simultaneously submitted in many countries for approval. In all countries there is a similar characteristic in regulatory environment but there is a difference in their registration requirements. The purpose of this study is to give a comparative overview on generic drug market regulation in ASEAN Countries Cambodia and Malaysia. The aim of study is to facilitate proper knowledge regarding main critical issues, differences as well as similarities of related drug regulation. There is a different requirement for registration of generic product in each regulatory system but also comprises of some similar outline that includes some common rules. These are variances and regulatory hurdles such as Number of batches for submission in dossier, stability conditions, registration of product, analysis, bioequivalence and clinical study requirement. ASEAN countries for generic drug product approval ACTD submitted to country specific authority. For solid oral dosage forms as per ASEAN guideline there are 4 parts have to be submitted. Part I contains Administrative requirements which is not a part of common technical document. Part II is Quality contains 3 sections that are a) Table of Content b) Quality overall Summary c) Body of data. Part III contains Non clinical. Part IV contains Clinical data. For the generic drug product Part III and Part IV is not required.

Keywords: ASEAN Common Technical Document (ACTD), Regulatory Requirement, Cambodia, Malaysia

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1. Introduction

1.1. Introduction to ASEAN Countries

ASEAN consultative committee on Safety and Quality (ACCSQ) developed the Association of South East Asian Nation (ASEAN) (1) on 8th August 1967 in Bangkok. The ASEAN Common Technical Document (ACTD) (2) is a guideline and the common format for the preparation of a well-structured Common Technical Dossier (CTD) application that are to be submitted to ASEAN regulatory authorities for the registration of pharmaceuticals product for human use. There are 10 member states in ASEAN countries that include Singapore, Malaysia, Indonesia, Vietnam, Thailand, Cambodia, Myanmar, Philippines, Brunei, Laos (1). These countries follow ACTD Format for the registration of pharmaceutical products. ACTD is divided into four Part I, (Administrative data) Part II (Quality) Part III

(Overview summary study report) Part III (Clinical Data). Figure 1 signifies ACTD guidelines.

1.2. Introduction to Cambodia

The drug registration process started in 1994. Department of Drugs and Food (DDF) (3) is the regulatory agency under the Ministry of Health. It is responsible for the efficacy, safety, quality of drug, efficacy of food and cosmetics.

1.3. Introduction to Malaysia

The regulatory body of Malaysia is National Pharmaceutical Regulatory Agency (NPPRA) (4), formerly known as the National Pharmaceutical Control Bureau (BPPK), is located at Kuala Lumpur under the quality control activity of pharmacy and supply programme. This regulatory body was implemented with an aim to implement quality control on pharmaceutical products.

According to Malaysia country a generic medicine can be defined as a pharmaceutical product that is no longer protected by a patent & which can be copied by other

company. It may be marketed either under its own brand or as an unbranded product.

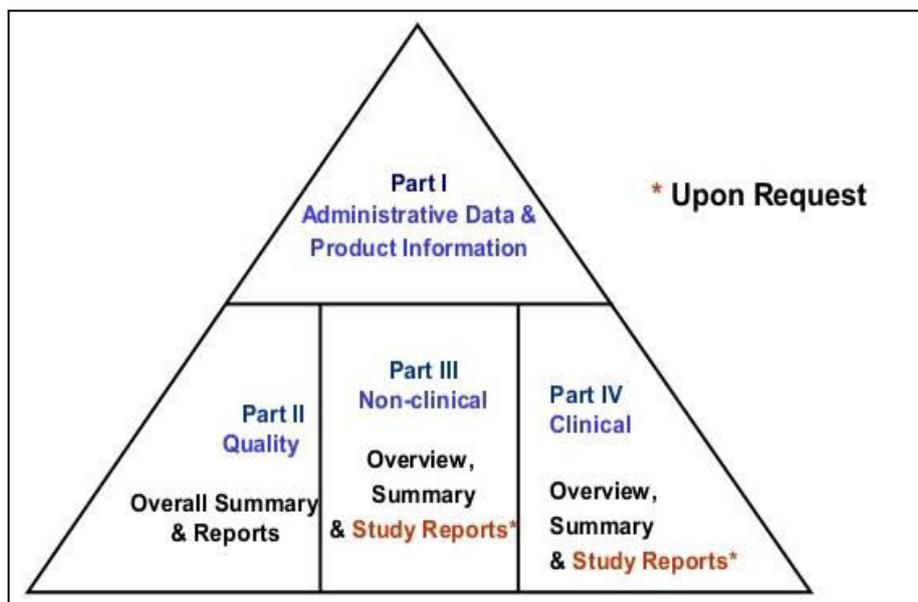


Figure 1. Diagrammatic explanation of ACTD

2. Discussion

In this section study of registration requirements for generic pharmaceutical product of selected countries was carried out and compared to understand the critical aspect of generic drug product data requirements.

Table 1 shows comparison of registration requirements for generic pharmaceutical product in Cambodia and Malaysia.

Table 1 Comparison of registration requirements (3, 4)

PARAMETERS	COMBODIA	MALAYSIA
	 គោលដៅសុខភាព ចំណីអាហារ ថវិកាអេកូឡូស៊ី និងគ្រូងសំអាត Department of Drugs and Food	 MINISTRY OF HEALTH MALAYSIA
Regulatory Authority	Department of Drugs and Food under, Ministry of Health	National Pharmaceutical Control Bureau (NPCB)
Regulatory Guidelines	Follows ACTD Format	Follows ACTD Format
Administrative Information		
Cover letter	Not Required	Not Required
Application Form	Required	Required BPFK 438.1 for generic medicine
Patient Information Leaflet	Required compulsory for self-administered drug it should be in English & Combodian Language (Khmer)	Required compulsory for self-administered drug
Summary of Product Characteristics (SmPC)	Applicable	Applicable
Label	Required, must be in English and Combodian Language (Khmer)	Required, must be in English and Bahasa Malaysia
Package insert	Required, must be in English and Combodian Language (Khmer)	Required, must be in English and Bahasa Malaysia
Fee	No fees required	Single API- 2200.00 RM Two/more API- 3000.00 RM
Information about experts	No specific requirement	No specific requirement

Certificate of Suitability with European Pharmacopeia (CEP) GMP certificate	No specific requirement Required as per WHO &GMP guidelines	No specific requirement Required as per WHO &GMP guidelines
Free sale certificate	Not required	Required if CPP is not available
Certificate of pharmaceutical product	Not required	Required as per WHO format & applicant shall fill in form BPFK 412.2
Letter of Authorization	Required	Required as per country specific
Environmental Risk assessment	No specific Requirement	Specific information as per GMP is required
Third Party Agreement	Required with detail information about the supplier	Required with detail information about the supplier
Foreign regulatory status	Not Required	Not Required
Bio waiver request	All bioequivalence study of product is required	All bioequivalence study of product is required
Technical Information		
Drug Master File	Required as per ACTD format	Required as per ACTD format
Batch Manufacturing Record	Complete information of Commercial batches is required	Required copy of Master BMR or Complete BMR
In process quality Control	Details of <i>IPQC</i> and specifications for quality assurance of the <i>product</i> is required	Details of <i>IPQC</i> and specifications for quality assurance of the <i>product</i> is required
Process Validation	Required for 3 consecutive batches	Required, on 3 pilot or commercial batches
Raw material Specification	Specifications and test methods for <i>raw materials</i> is required	Specifications and test methods for <i>raw materials</i> is required
Raw material analytical process	Specifications for raw material analytical process is required	Specifications for raw material analytical process is required
Analytical Method Validation	Required	Not required for pharmacopeia materials
Finished Product Specifications	<i>Specifications</i> and control tests on the <i>finished product</i> is required	<i>Specifications</i> and control tests on the <i>finished product</i> is required
Finished Product Analytical Process	Detail information of finished product analytical process is required	Detail information of finished product analytical process is required
Analytical Method Validation (FP)	Required assay and related substance as per ICHQ2A and ICHQ2B	Required assay and related substance as per ICHQ2R1
Batch Analysis	Required for 3 pilot batches	Required, for at least two pilot batches
Justification of Specifications	Complete information about product is required	Required as supporting document
Reference Standard	Required as per ACTD guidelines	Required as per ACTD guidelines
Container Closure system	Required for Primary and secondary packing	Specification including description of primary packaging components
Stability Protocol	Required as per climatic zone and ICH Guidelines for 3 batches	Required as per climatic zone & ICH Guidelines for 3 batches
Climatic Zone	Zone IVb	Zone II & IVb
Stability Number of batches	Atleast 03 batches for accelerated and 03 batches for real time stability study	Atleast 02 batches for accelerated and 03 batches for real time stability study
Stability Data	40°C ± 2°C/ 75% ± 5% RH 30°C ± 2°C/70% ± 5%RH	40°C ± 2°C/ 75% ± 5% RH 30°C ± 2°C/75% ± 5%RH
Regional Information	No specific requirement	No specific requirement
Non clinical data	General exempted for generics	General exempted for generics, applicable for schedule poison drug
Clinical data	General exempted for generics	General exempted for generics.

3. Drug Registration Process and Approval System of Cambodia (3)

3.1 Regulatory Agency

Department of Drugs and Food under, Ministry of Health, Cambodia (MOH)

Department of Drugs and Food under the MOH is responsible for the quality and control of pharmaceuticals.

The Department is composed of five bureaus each with their own speciality, three of which are:

- The Narcotic Control and Pharmaceutical Trade Bureau
- The Drug Regulation Bureau
- The Registration and Cosmetics Bureau

3.2 Licensing Regulation in Cambodia

A person who wish to sell, or import drug into Cambodia have to license registered with the MOH Department of Drugs and Food Administration through

the Registration and Cosmetics Bureau. Import licence can be issued within one week after submission of required document and application form. Import licence is valid for six months from the date of approval.

3.3 Drug Registration Process

Applicants: Only Pharmacist or a Pharmaceutical company is qualified to apply for product registration.

Manufacturing Plant: GMP Compliance Flow chart of drug review process is shown in Figure 2.

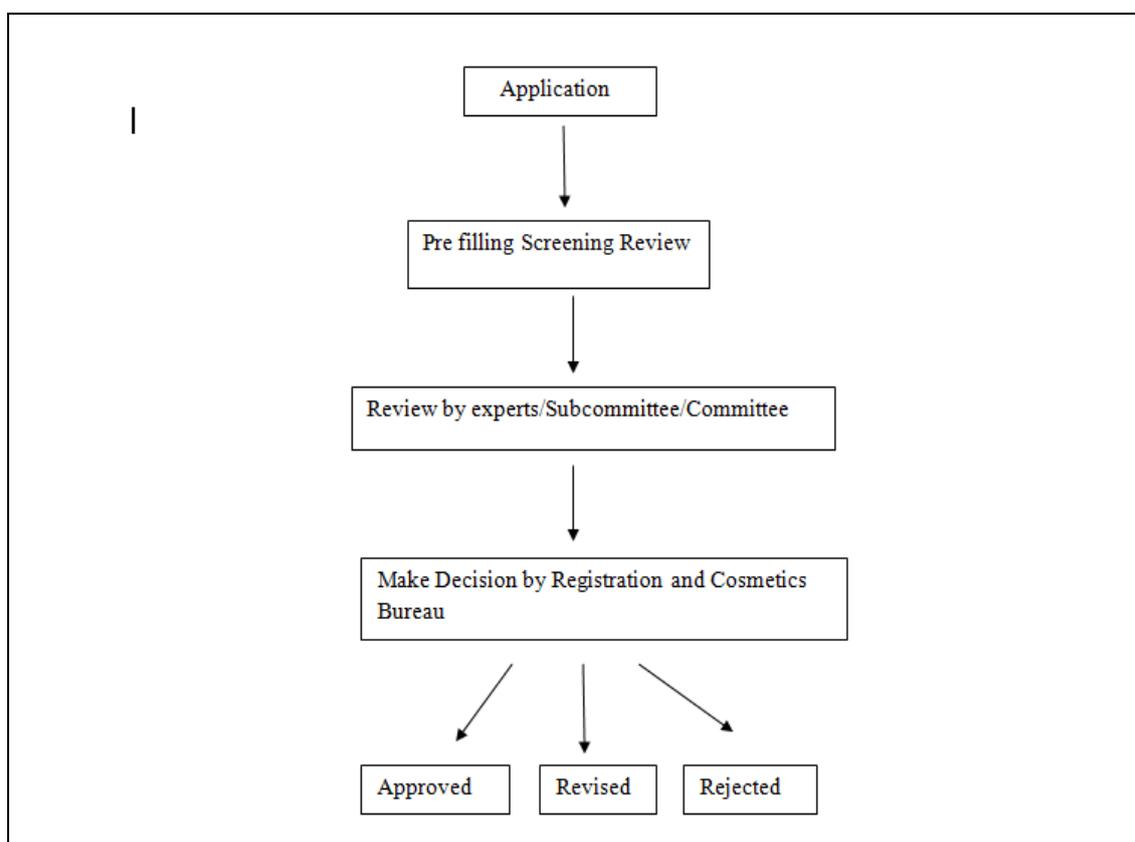


Figure 2: Flow chart of Drug Review Process for Cambodia (3)

3.4 Review Period of Generic Drug Registration

There are no timelines regarding the review period and no information regarding notification of successful registration.

3.5 Review Fees of Generic Drug Registration

No fees are charged for the Registration.

3.6 Labelling Requirement in Cambodia

The law and regulation on labelling are stipulated as per the law on the Management of Quality and Safety of Products and Services.

Labelling requirements are as follows:

- Name of product
- Details of ingredients
- Composition
- User's guidelines (direction for use)
- Manufacturing Date
- Expiry Date

- Producer name and address
- Quantity
- Batch number

Package inserts also required and it's contain the product name, active ingredients, indications, instructions for use, including warnings, precautions, adverse drug reaction, and contraindication, dosage and storage information. All labelling requirements must be in Khmer or English.

4. Conclusion

From the study it was found that due to variation in regulatory requirement in various countries it is a major challenge for pharmaceutical companies to register their pharmaceutical products. For pharmaceutical companies in order to develop a drug formulation which can be simultaneously submitted in numerous countries for approval at the same time is difficult. Therefore, continuous process of harmonization is carried out all over the world to overcome this problem. It gives a brief information about the regulatory requirements for

registration of pharmaceutical Product from the comparison study of Cambodia & Malaysia. It can be concluded that the industry should target on submission or registration of pharmaceutical product at different countries depending on their stability, regional documents and other country specific documents.

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Conflict of interest

The authors declare no conflicts of interest.

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