Burma - Union of

Agricultural Biotechnology Annual

Report Categories:
Biotechnology - GE Plants and Animals

Approved By:
Rey Santella, Agricultural Attaché

Prepared By:
Swe Mon Aung, Agricultural Specialist

Report Highlights:

There are no significant developments to convey since the previous report done in January 2017. The current situation is as follows: the biosafety law is still pending with no imminent action planned; no GE crops and animals are currently authorized for import; no genetically engineered (GE) crops have been approved for planting; and all imported seeds for trial and commercial distribution are required to be accompanied with a non-GMO certificate.
SECTION I: EXECUTIVE SUMMARY

Myanmar is in the process of formulating a national agricultural development policy, which incorporates biotechnology. While there are existing laws such as the Pesticide Law, the Plant Pest Quarantine Law, Seed Law, and the Animal Health and Development Law that tacitly deal with biosafety issues, there are no comprehensive guidelines or regulations that govern plant or animal genetic engineering (GE).

Myanmar does not have regulatory controls on the imports of GE food or animal products and lacks the capacity to track these goods. Thus, it is possible that GE derived food and animal feed are being imported into the country.

There is no official information available on the planting of GE crops in Myanmar except for cotton. It is possible that other GE seeds are obtained from neighboring countries such as China.

There have been previous attempts to develop a national biosafety framework, but no law has been passed. The current government has not generated any legislative biosafety proposals.
SECTION II: Plant and Animal Biotechnology

CHAPTER 1: PLANT BIOTECHNOLOGY

PART A: Production and Trade

a) PRODUCT DEVELOPMENT: Myanmar produces the long staple bollworm resistant Bt cotton variety “Ngwe Chi 6” (Silver-6). The average yield for Ngwe Chi 6 cotton is about two metric tons per hectare (MT/Ha). An estimated 95 percent of Myanmar’s cotton farmers plant the Ngew Chi 6 cotton variety, however, newly developed Bt cotton varieties such as Ngwe Chi 9 and Shwe Taung 8 are likely to replace the local long staple cotton varieties.

b) COMMERCIAL PRODUCTION: Myanmar commercially produces Bt cotton lint consisting of Ngwe Chi 6, Ngwe Chi 9 and Shwe Taung 8. Production is estimated at 500,000 metric tons (MT) in 2015/16.

c) EXPORTS: Myanmar does not export commodities derived from agricultural biotechnology. All of the cotton grown in Myanmar is consumed domestically.

d) IMPORTS: There is no official import data on imported agricultural biotech products.

e) FOOD AID: Myanmar receives food aid from the World Food Program (WFP) primarily for internally displaced persons (IDP) in the form of rice, pulses, oil, and salt. It also distributes high energy biscuits for its school feeding programs. There are no issues related to biotechnology that impede the importation of these products. It is the WFP’s policy that all donated foods meet the safety standards of the donor and recipient countries and all applicable international standards, guidelines, and recommendations.

f) TRADE BARRIERS: Lack of awareness and knowledge hampers the adoption and use of biotechnology in Myanmar. Trade sources indicate that Myanmar consumers may be receiving negative information from anti-biotech groups. Myanmar amended their Seed Law in 2015 and the corresponding rules and seed regulations were approved in February 2016. To protect biodiversity in Myanmar, the National Seed Committee (NSC), requires imported seeds, both for trial and commercial distribution, to be accompanied with a non-GMO certificate from the country of origin.

PART B: Policy

a) REGULATORY FRAMEWORK: The biosafety law is still pending with no imminent action planned. The current government has not developed any biosafety proposal and it is unclear if it is a priority for the government. The primary ministry responsible for agricultural biosafety policy is the Ministry of Agriculture, Livestock and Irrigation (MoALI). Other ministries involved in the development of biosafety policies are:

(1) Ministry of Education
(2) Ministry of Natural Resources and Environmental Conversation
(3) Ministry of Commerce
b) Approval: Myanmar does not have a biosafety law and no approval mechanism in place.

c) Stacked event Approval: Not applicable

d) FIELD TESTING: Myanmar does not have a biosafety law governing the field testing of GE plants, but it does commercially cultivate Bt cotton.

e) INNOVATIVE BIOTECHNOLOGIES: Although Myanmar does not have a biosafety law, MoALI has numerous ongoing biotechnology activities including: 1) plant micro-propagation; 2) application of another culture in rice breeding; 3) molecular breeding; 4) genetic identification and DNA fingerprinting; 5) GE detection for biosafety purpose, and 6) grain quality analysis. The plant biotechnology laboratories under MoALI are facilitating micro propagation with tissue culture involving banana, orchids, potato and strawberry. MoALI is also conducting vital identification and fingerprinting research and collecting rice germplasm.

f) Coexistence: Myanmar has no policy on coexistence.

g) Labelling: There are no requirements for labelling GE products.

h) MONITORING AND TESTING: There is no active test for imported or exported GE products.

i) LOW LEVEL PRESENCE (LLP) POLICY: There is no LLP policy.

j) ADDITIONAL REGULATORY REQUIREMENTS: Not applicable.

k) INTELLECTUAL PROPERTY RIGHTS (IPR): A new Plant Varieties Protection Law was approved in January 2016 and is expected to go into effect in January 2017. Myanmar is not a member of the International Union for the Protection of New Varieties of Plants (UPOV).


m) INTERNATIONAL TREATIES/FORA: Myanmar signed the NEP-GEF Agreement to facilitate the development of a national biosafety framework in July 2003. They have also participated as official observers at the last four APEC High Level Policy Dialogues on Agricultural Biotechnology.

n) RELATED ISSUES: None
PART C: Marketing

a) PUBLIC/Private Opinions: Knowledge about GE products in Myanmar is low, thus, there is an opportunity to persuade the general public about the benefits of biotech products.

b) Market Acceptance/Studies:

The World Initiative for Soy in Human Health (WISHH) conducted market assessments utilizing USDA’s Emerging Market Program to determine the viability of soybeans in Myanmar. WISHH’s assessments concluded that the Myanmar biotech import law is unclear and the government is concerned that soybeans could be planted and harvested without proper oversight. In another study, the International Service for the Acquisition of Agri-biotech Applications (ISAAA) released the 20th Anniversary of the Global Commercialization of Biotech Crops (1996-2015) and Biotech Crop Highlights in 2015.

CHAPTER 2: ANIMAL BIOTECHNOLOGY

PART D: Production and Trade:

a) Product Development: No GE animals have been developed in Myanmar. There have been reports of improved breeding strains such as poultry and pigs being imported into Myanmar, along with animal pharmaceuticals – vaccines and medicines - as well as animal feeds. However, it is impossible to ascertain whether any of these materials are GE.

b) COMMERCIAL PRODUCTION: Myanmar does not produce any livestock clones, GE animals, or products derived from animal biotechnologies.

c) EXPORTS: Not applicable. There are no GE animals and animal products in the market.

d) IMPORTS: Myanmar does not import GE animal.

e) TRADE BARIERS: There are currently no trade barriers for the import of GE-derived animals.

PART E: POLICY

a) REGULATORY FRAME WORK: There is no regulatory framework or regulation governing the production of GE animals.

b) INNOVATIVE BIOTECHNOLOGIES: Not applicable.

c) LABELLING TRACEABILITY: Not applicable.

d) INTELLECTUAL PROPERTY RIGHTS (IPR): Myanmar follows the World Organization for Animal Health (OIE) guidelines for GE produced animals.
e) INTERNATIONAL TREATIES/FORAS: Myanmar has been a member of the OIE since August 1989.

f) RELATED ISSUES: None

PART F: MARKETING

a) PUBLIC/Private Opinions: Knowledge about GE products in Myanmar is low, thus, there is an opportunity to persuade the general public about the benefits of biotech products.

b) Market Acceptance/Studies: None.