




## Memorandum

**To: ALL TECHNOLOGY DEVELOPERS**

**From:**   
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Director, Bureau of Plant Industry

**Date: May 23, 2014**

**Subject: Guidelines in the Implementation of MC No. 2, Series of 2014 -  
Enhancing the Insect Resistance Management (IRM) Strategy for Bt  
Corn Targeting Asian Corn Borer (ACB)**

With the approval of the MC No. 2, series of 2014, below are the implementing rules and guidelines for your information and compliance.

1. The refuge or the non-Bt corn seeds to be used for 90:10, 95:5 refuge schemes whether seed blend or bag-in-a-bag (BIB) should be a hybrid with similar growth and maturity (within +/- 7 days).
2. Random checks of seed lots to monitor technology developer's compliance to the MC shall be done by BPI.
  - A. For 90:10 and 95:5 BIB
    - (1) Sampling shall be carried out once every season per developer. Non-Bt seed lots shall be subjected to random sampling and testing.
    - (2) The time of sampling shall be determined by the PEQS depending on the availability of personnel. Three to seven days advance notice shall be given to the developer before sampling date.
    - (3) ISTA's protocol on sampling method and sample size shall be followed (same as 80:20 BIB)
    - (4) Laboratory testing protocols and decision matrix shall be based on the attached testing guidelines.
  - B. For 95:5 RIB
    - (1) Sampling shall be carried out once every season per developer. Non-Bt seed lots shall be subjected to random testing and



sampling.

- (2) The time of sampling shall be determined by the PEQS depending on the availability of personnel. Three to seven days advance notice shall be given to the developer before sampling date.
  - (3) Inspection team shall check that seeds are properly mixed with 95:5 ratio as indicated in the MC.
  - (4) ISTA's protocol on sampling method and sample size shall be followed.
  - (5) Laboratory testing protocols and decision matrix shall be based on the attached testing guidelines.
3. The refuge seeds for the 90:10 bag-in-a-bag (BIB) scheme for single event shall be planted separately in the middle of the field within the same area.
  4. Field scouting in sentinel sites for ACB shall continue as per DA MC No.4 series of 2007. For single Bt event following BIB scheme, 50 plants shall be sampled each for Bt and non-Bt corn. For pyramided Bt events, BPI shall determine the sampling scheme after evaluating the proposed sampling design submitted by the technology developer.
  5. Monitoring of changes of ACB susceptibility to specific Bt proteins shall be conducted by the technology developer. BPI shall determine monitoring schemes and the bio-assay procedures after evaluating the proposed design submitted by the technology developer.
  6. GM adoption data shall be submitted every end of March and August for dry and wet seasons, respectively.
  7. The BPI-BCT Post Approval Monitoring Group and DA Regional counterparts shall conduct random field inspection to verify the submitted adoption report. This shall be done apart from field inspection of the permanent designated sentinel sites of IRM/WRM trials with the concerned technology developers.
  8. Proposal for the required studies shall be submitted to BPI for review and approval of the BCT in consultation with IRMAT.