Annexure-III

Suggested protocol for SAU testing of Bt cotton hybrids

Location One

Entries 15 -20 (including checks) per trial

Replications Three

Plot size 6 rows of 5 m length

Design Randomized Complete Block Design

Observations (a) Agronomic data
Plant stand, Plant height, Bolls/plant, Boll weight, Seed cotton yield at 135, 150, 165, 180, 195 and 210 DAS as relevant, Lint yield

(b) Insect damage data
Damage (%) data in fruiting bodies, open bolls, locules

(c) Fiber quality data
GOT, Staple length, Staple strength, Micronaire, Uniformity ratio, Spinnable counts, CPS

1. Different trials may be organized for early, medium and late maturities as also for rainfed and irrgated conditions
2. Appropriate checks may be defined for each category of trials in each zone
3. Entries should comprise of Bt test entries, two Bt check and one non Bt (Zonal) check
4. Non Bt counterparts of Bt test entries should not be included as entries in the trial
5. If there are more entries than can be accommodated in one trial, then the number of trials in the same lcation/environment
6. Even with 15 entries and 3 replications, error df will be 28 in the ANOVA using RCBD model
7. Detailed insect larval counts are not required since only the total damage data will reflect the efficacy of the transgene in a hybrid
8. Data on sucking pests and beneficial insects is not needed since it is well established that Bt gene does not have any impact on these two category of insects
9. Days after sowing up to which the seed cotton yeld data has to be taken may be specified based on the maturity of hybrids included, target area/location of test, etc.
10. Companies should be allowed to visit the trials in which their entry (ies) is/are being tested