



SDI FINAL EVALUATION FORM 1.1

PART 1:

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| Journal Name:            | <a href="#">American Journal of Experimental Agriculture</a>                                        |
| Manuscript Number:       | 2014_AJEA_10284                                                                                     |
| Title of the Manuscript: | GENETIC DIVERSITY OF DRY BEAN ( <i>Phaseolus vulgaris</i> L.) ACCESSIONS OF KENYA USING SSR MARKERS |

PART 2:

| FINAL EVALUATOR'S comments on revised paper (if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Authors' response to final evaluator's comments                                                                                                                                                                                                |
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| <p>Revised paper is significantly improved; the authors have inserted detailed explanations to all previously confusing parts of the manuscript.</p> <p>However, they have still failed to provide the reasons for assuming Hardy-Weinberg equilibrium.</p> <p>Improved Table 1. Now gives much better insight into the composition of populations. Local names and descriptions already suggest the possibility of intensive exchange between populations. The results provide enough evidence for this assumption, so the authors conclude that "the genotypes that are derivatives of genetically similar types clustered together".</p> <p>It is still not clear what the purpose of analysis presented in Figure 3 was. There is only one brief reference to this figure in Results (wrong one, refers to non-existent Figure 4.). Could this figure contribute to issue of population composition and discrimination?</p> <p>Furthermore, there is another issue. Table 2. Reveals the relatively high number of amplified fragments for this marker type (SSR). Although, there is already extensive description on the whole process of generating polymorphic bands under subtitle 3.1, some additional explanation would help to clear out some doubts.</p> | <p>Reasons for assuming hardy-Weinberg equilibrium have been indicated in the methods</p> <p>More observations with regard to PCA analysis is now added to the text explaining the population composition and discrimination of accessions</p> |