



## SDI Review Form 1.6

### **PART 1:**

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| Journal Name:            | <a href="#">American Journal of Experimental Agriculture</a>                                                                                 |
| Manuscript Number:       | MS: 2012/AJEA/1969                                                                                                                           |
| Title of the Manuscript: | Socioeconomic Factors Influencing Adoption of CODAPEC and Cocoa High-Tech technologies among Smallholder Farmers in Central Region of Ghana. |

**General guideline: Reviewers are requested to follow these guidelines during review:** *(Note: Title of different sections as proposed below may differ in case of review paper / case reports)*

- Introduction *(Is the problem/objective of this study original, important and well defined?)*
- Materials & methods *(Kindly comment on the suitability of the methods. Sufficient details of the methods should be provided to allow peers to evaluate and/or replicate the work)*
- Results & discussion *(Kindly comment on: 1. Are the data well controlled and robust? 2. Authors should provide relevant references during discussion. 3. Discussion and conclusions should be based on actual facts and figures. Biased claims should be pointed out. 4. Are statistical analyses must for this paper? If yes, have sufficient and appropriate statistical analyses been carried out?)*
- Conclusion *(Is the conclusion supported by the data, discussed inside the manuscript? Conclusions should not be biased and should be based on the data, presented inside the manuscript only)*
- Are all the references cited relevant, adequate? Are there any other suitable current references authors need to cite?
- This form has total 10 parts. Kindly note that you should use all the parts of this review form.



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### **PART 2:** Review Comments

|                                            | <b>Reviewer's comment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part and write here 'Corrected'/ if not agreed, give suitable justifications)                                                                                                                                                                                                                                                                                                                                             |
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| <b><u>COMPULSORY REVISION</u></b> comments | <p><u>TITLE</u></p> <p>The title suggests that the CODAPEC and the Cocoa High-Tech programmes were meant for adoption by the farmers. However, the CODAPEC programme was implemented by the Government free of charge whilst the Cocoa High-Tech programme was meant for adoption in terms of the fertilizer, improved hybrid cocoa seed, insecticide and fungicide components.</p> <p>Line 229, In Table 1, the author should present the number of farmers or sample size and the percentages of the categories of the categorical variables instead of their means and standard deviations stated.</p> | <p>There is nothing wrong with the title. The CODAPEC programme did not cover all cocoa growing districts in the country, this include case study area. However, other districts adopted the package on their own realizing the benefit accruing from it.</p> <p>There is no standard procedure for presentation of table 1. Please see the following publication. Anim, F.D.K. (1999) A Note on the Adoption of Soil Conservation Measures in the Northern Province of South Africa. J. Agr. Econ. 50(2):336-345</p> |
| <b><u>Minor</u></b> REVISION comments      | <p><u>ABSTRACT</u></p> <p>Line 12, "... agricultural crop export..." should read "... agricultural <b>export crop</b>..."</p> <p>Line 13, the author should define the terms 'CODAPEC' and Cocoa High-Tech and also indicate the components of these programmes.</p>                                                                                                                                                                                                                                                                                                                                      | <p>Corrected</p> <p>Corrected</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



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|  | <p>Line 26, "Emphasis should be placed cocoa extension service ..." should read "Emphasis should be placed <b>on</b> cocoa extension services ..."</p> <p><u>INTRODUCTION</u></p> <p>The problem and the objective of the study are original, important and well-defined.</p> <p>Line 44, "The estimated productivity per hectare ..." should read "The <b>average</b> estimated productivity per hectare..."</p> <p>Line 60, "... to address the production challenges ..." should read "... to address <b>some of</b> the production challenges ..."</p> <p>Line 68, "... 1,004,194 metric tonnes in 2011 due to introduction of CODAPEC ..." should read "... 1,004,194 metric tonnes in 2011 <b>partly</b> due to the introduction of CODAPEC ..."</p> <p>Line 77, the author should give some examples of the appropriate technologies.</p> <p>Line 78, "Various reasons need to be assigned to technology adoption among smallholder farmers which is generally low..." should read "Various reasons <b>have been</b> assigned to <b>the low</b> technology adoption among smallholder farmers (ICRAF, 1997)."</p> <p>Line 86 and 87, " Notably among them are the attributes</p> | <p>The sentence revised and deleted from the manuscript</p> <p>Corrected</p> <p>Corrected</p> <p>Corrected</p> <p>It is not necessary under this context</p> <p>corrected</p> |
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|  | <p>of technology, the agent of change, socio-economic , biological and the physical environment” should read “Notably among them are the attributes of <b>a</b> technology, the agent of change, <b>and the</b> socio-economic , biological and <b>the</b> physical environments”</p> <p>Line 88, what do you mean by “aggregate levels”.</p> <p>Line 89 and 90, “ However, ... influence adoption Cocoa Technologies in smallholder cocoa farmers in Ghana.” Should be changed to “However, ... influence adoption cocoa technologies <b>in</b> of smallholder cocoa farmers in Ghana.”</p> <p><b><u>MATERIALS AND METHODS</u></b></p> <p>The methods used by the author in this study are appropriate. Sufficient details have been provided to allow peer evaluation and replication of the work.</p> <p>Line 96, “... February, 2010 to collect on on-farm level cross-section data ... “ should change to “... February, 2010 to collect <del>on</del> on-farm level <del>cross-section</del> data ... “</p> <p>Line 104, what is the specific information in the questionnaire that you used?</p> <p>Line 108, “ Figure 1. Showing the five selected Districts for the study in the Central Region of Ghana” should read “Figure 1. <b>A map</b> showing the five selected Districts for the study in the Central Region of Ghana”</p> <p>Line 161 and 162, the table numbers should be consecutively stated.</p> | <p>Corrected</p> <p>Nationwide adoption process</p> <p>Corrected</p> <p>Corrected</p> <p>The information inserted (corrected)</p> <p>corrected</p> <p>corrected</p> |
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|  | <p>Line 171, “ ... farmer may able to make critical decisions ...” should read “ ... farmer may <b>be</b> able to make critical decisions ...”</p> <p>Line 179, “ ... encountered upon application of the said technology. “ should be changed to “ ... encountered <del>upon</del> <b>from</b> application of the said technology. “</p> <p><u>RESULTS AND DISCUSSIONS</u></p> <p>The data are well-controlled and robust. The author has provided relevant references in his/her discussion. The discussion and conclusions are based on actual facts and figures. Statistical analyses are required for this paper.</p> <p>Line 243, “ ... general sanitation practise such use of deep ...” should read “ ... general sanitation practised <b>such as the</b> use of deep ...”</p> <p>Line 245, “ Out of 250 house head interviewed ...” should read “ Out of 250 house<b>hold</b> heads interviewed ...”</p> <p>Line 254, “ ... Tobit regression analyses.” Should read “ ... Tobit regression analysis.”</p> <p>Line 255, “ ... most socioeconomics variables ...” should change to “ ... most <b>socio-economic</b> variables ...”</p> <p>Line 257, “ ... gender which was considered not be significant (Table 3).” Should change to “ ... gender which was <del>considered</del> not <b>be</b> significant (Table 3).”</p> <p>Line 270, “ ... the cultivation of cocoa in the communities investigated in the Central Region ...” should change to “ ...</p> | <p>corrected</p> <p>corrected</p> <p>Corrected</p> <p>Corrected</p> <p>Corrected</p> <p>Various versions are acceptable</p> <p>The section deleted and revised</p> |
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|  | <p>the cultivation of cocoa in the communities <del>investigated</del> <b>estimated</b> in the Central Region ..."</p> <p>Line 283, "... on-farm application CODAPEC ..." Should read "... on-farm application <b>of</b> CODAPEC ..."</p> <p>Line 338, "Which indications that farmers prefer ..." should read "<del>Which This is an</del> indications that farmers prefer ..."</p> <p>Line 343, "... low yields which normal does no commensurate ..." should read "... low yields which normally does no commensurate ..."</p> <p>Line 345, "... technology and require high cost ..." should read "... technologies and require high cost ..."</p> <p>Line 347, "... religious society are likely to adopt CODAPEC ..." should change to "... religious society <b>are likely</b> to adopt CODAPEC ..."</p> <p>Line 356, "... agronomic practises ..." should change to "... agronomic <b>practises practices</b> ..."</p> <p><u>CONCLUSIONS</u></p> <p>The conclusion is supported by the data presented inside the manuscript.</p> <p>Line 392, "... find out the ration behind this observed behaviour." Should read "... find out the rationale behind this observed behaviour."</p> | <p>The statement is correct.</p> <p>Section deleted due to revision of the model.</p> <p>Corrected</p> <p>Corrected</p> <p>Corrected</p> <p>Corrected</p> <p>Corrected</p> |
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|                                 | <p><u>REFERENCES</u></p> <p>All the references cited are relevant and adequate.</p> <p>The following references were cited in the text but they were not included in the list of references: <b>Arslan (2008)</b> and <b>IHS (2011)</b>.</p> | Corrected |
| <p><u>Optional</u> comments</p> |                                                                                                                                                                                                                                              |           |