



**SDI FINAL EVALUATION FORM 1.1**

**PART 1:**

Journal Name:	<b>Asian Research Journal of Agriculture</b>
Manuscript Number:	<b>Ms_ARJA_37992</b>
Title of the Manuscript:	<b>Detection of Dichlorvos Residue in Cowpea Grains, Six Months after Application Using High Performance Liquid Chromatography</b>
Type of Article:	<b>Original Research Article</b>

**PART 2:**

<b>FINAL EVALUATOR'S comments on revised paper (if any)</b>	<b>Authors' response to final evaluator's comments</b>
<p>About the MRL, the authors did not present the MRL of dichlorvos in cowpea, an African value, the dichlorvos at Codex have MRL for Rice 7 mg/kg and wheat 15 mg/kg. There is no value for cowpea.</p> <p>The detection and quantification limits of LC technique should be demonstrated to work well to MRL limit. If the MRL do not exist in African legislation which was the values studied (final concentration 0.01 mg/kg or another one)</p> <p>The fortification study was not described, if the MRL value is 0.01 mg/kg the study was conducted in this value, above or below that.</p> <p>The analytical method was not clear enough, the methanol was used as extractor solvent, no purification step? No concentration for analysis? Which was the value obtained from positive samples?</p>	<p>That has been presented in the previous responses sir, "In cowpea, the mean concentration range from 0.001 to 0.108 mg/kg<sup>-1</sup> for organochlorine pesticides, 0.002 to 0.015mg/kg<sup>-1</sup> for organophosphorus pesticides and 0.001–0.039mg/kg<sup>-1</sup> for pyrethroids pesticides. Inserted in the discussion"</p> <p>We have clearly stated that, our main aim was only to detect the presence of the dichlorvos applied in samples studied. However, we have added a comment in the conclusion as follows "More so, further research or researches would be conducted especially on the maximum residue limits (MRL) and its comparison with the Codex Alimentarius as well as the extension in the storage period"</p> <p><b>The study did not involve any fortification process, as no amount of nutrient (s) was added to improve the cowpeas value in this study.</b></p> <p>Sir, all necessary chromatographic procedures that involved extraction and purification were followed. We believe mentioning the solvent <b>extractor</b> is enough to convey all what is to be necessarily known about the chromatographic procedure followed in this study</p> <p>Again, our study did not involve quantification of dichlorvos in the samples, but was only for the detection of the chemical, as indicated in the text.</p>