Review Form 1.6

Journal Name:	**International Journal of Biochemistry Research & Review**
Manuscript Number:	**Ms_IJBCRR_85601**
Title of the Manuscript:	**Determination of essential mineral content of maize (zea mays L.) produced and stocked from rural conditions in Côte d'Ivoire**
Type of the Article	**Original Research Article**

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty'**, provided the manuscript is scientifically robust and technically sound.
To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(https://journalijbcrr.com/index.php/IJBCRR/editorial-policy)

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PART 1: Review Comments

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Compulsory REVISION comments	**The manuscript presents an interesting and useful study for the mineral composition of maize samples collected from different regions, which were harvested and stored under different environmental conditions. The manuscript is well written and contents of all sections including discussion part are well explained in order to understand the objectives of the study. The results can be used to improve the quality of minerals and composition during storage. The manuscript can be accepted and worth publishing. However to make it more informative and improve the results interpretation, the following comments and suggestion may be considered:** **Abstarct: The sentence** laboratory in order to analyse their---- is incomplete. **Introduction: In the text, some sentences need to be rewritten in order to understand their significance. Some of these are mentioned below:** Its nutritional (rich in starch, presence of lipids and minerals) and economic (simple crop to produce, harvest and store) advantages make it a competitive product that contributes to lowering the price of basic food products such as milk and meat [3]. It can be eaten boiled, roasted, fried or popped. As a result, maize production is generally seasonal, whereas consumer needs extend throughout the year. **2.2.13:** The minerals contents of the maize samples were recovered from ashes using an Energy Dispersive Spectrometer device [16]. Discussion part: according to their concentration from in the meals---- **Experimental:** EDX spectrometer: The text mentioned for the use of technique EDS spectrometer: The appropriate Description is EDX (Energy dispersive X-ray) spectrometer which is a part of SEM for profiling of elemental/metals composition. Also, throughout the text, it is mentioned Dispersion or diffustion(section 2.2,3,1 and Tables). The validation studies: It is not mentioned whether powder (ash) samples as such are used. In what form it is used; solid, powder or liquid, not mentioned. To my opinion, ash as such must have been used. Also, there are special sample preparation techniques are used for sample specimen to be used for EDX-SEM analyses. It should be explained. The multi element standards are used for validation curves as mentioned. What types of multi standards like Conostan or MDS are used?. Why negative intercept are obtained in the validation curve (equation) for elements Fe, Zn,and Se?. It might be due to matrix effect, which is always prominent in XRF or EDX techniques. It should be explained **Suggestion: It is required to add in the introduction section supported by literature references: Parametrs for nutritive quality of Maize, mineral content and their typical concentration. This should be correlated in the results and discussion part.** **EDX-SEM technique description including matrix effect is required for understanding of readers.**	
Minor REVISION comments	Few validation curves for elements may be given in the form of figures.	
Optional/General comments	The results are very well explained in the discussion part.	

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PART 2:

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

Name:	**A S Sarpal**
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