Review Form 1.6

Journal Name:	**Chemical Science International Journal**
Manuscript Number:	**Ms_CSIJ_91220**
Title of the Manuscript:	**Physicochemical study, fatty acid profile and antioxidant potential of the seed oil of Polyalthia longifolia angustifolia**
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://www.journalcsij.com/index.php/CSIJ/editorial-policy)

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 writer should explain more about why they study the seed oil of Polyalthia longifolia angustifolia because there is a statement that "although it is not yet known as an oil plant, perhaps because of the low fat content of its seed." Previous research could be used to explain its benefit and superiority. • Please include citations and references in 2.1 Plant material and 2.5.1 Transmethylation of the CVO for GC-MS analysis. • The writer used Soxhlet extraction, which has a high temperature. It will affect the physicochemical characteristics and antioxidant activity. The writer should give a reason why they use the Soxhlet method and suggest another method such as Folch or Bligh and Dyer. • The writer should mention how many kg of seeds they used in this study to see the yield.	
Minor REVISION comments	• The method of determination of physicochemical parameters of the CVO is too old. If the writer wants to find an updated method. • Point 3.1. Phytoconstituents identified in seeds, there is statement "P. l. angustifolia seeds constitute a source of biomolecules whose characterisation could guide their use for therapeutic and other purposes", please include the citations and references. • Please explain why the writer used hexane and suggest another solvent because hexane is not efficient to extract these biomolecules like they state in the manuscripts.	
Optional/General comments	• In the statistical analysis of the data (point 2.8.), the writer has not mentioned the design of the experiment, such as Completely Randomized Design or Factorial Completely Randomized Design. • Point 3.1, please add more previous research about seeds from plants that have similar characteristics. • Please explain why the writer used FRAP instead of the common method (DPPH) for antioxidant activity.	

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:	**Ishmah Hanifah**
Department, University & Country	**IPB University, Indonesia**