

Review Form 1.7

Journal Name:	South Asian Research Journal of Natural Products
Manuscript Number:	Ms_SARJNP_98324
Title of the Manuscript:	Determination of Naturally Occurring Radionuclides and Heavy metals in Pegmatite Rock using Energy Dispersive X-ray Fluorescence (EDXRF)
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://journalsarjnp.com/index.php/SARJNP/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)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The article entitled Ms_SARJNP_98324; “Determination of Naturally Occurring Radionuclides and Heavy metals in Pegmatite Rock using Energy Dispersive X-ray Fluorescence (EDXRF)”. The EDXRF spectrometry techniques used in this study showed the presence of radioelements with the mean values of U, (1.54±0.10 %) Th, (0.40±0.10 %) and K (7.85±0.20 %) major (Fe, Mn, Pb, Ti, La, Ca, and Ta), and minor (Zn, Sr, Zr, Cr, Nb, Mg, Ce, Re, Hf, V, Al, Nd, Sc, and Y) elements (including heavy metals). The concentration of naturally occurring radionuclides were higher than the world-recommended values (% by wt) [40]. The presence of heavy metals like Mn, Cr, and Pb in the soil could contaminate the farm products from this area due to the weathering of the rock being washed down to the parent soil including toxic substances</p> <p>I appreciated the Manuscript, but there are many technical, grammatical, and common mistakes in the article which should be corrected by the authors. Authors strictly follow the instructions and format of the respective Journal. After the correction of all the mistakes, the article could be considered for publication in the prestigious South Asian Research Journal of Natural Products.</p> <p style="text-align: center;"><u>Technical, grammatical, and common mistakes</u></p> <ul style="list-style-type: none"> ➤ Abstract; Revise it and make it clear. ➤ Change the keywords. Also, write it alphabetically. ➤ Please mention the Graphical abstract. ➤ Introduction, revise it and could be elaborated in terms of what other mechanism that has been used in previous or other related studies? ➤ In your discussion section, please link your empirical results with a broader and deeper literature review. ➤ Add the impact of current work on industry and future research. ➤ Why and how the said parameters were selected for this work? More specific details needed to be added with the use of the latest reference. ➤ Materials not Material. Correct it. ➤ 3. results and discussion. Write safety protocol. ➤ For °C, Figure, Table, and % are mentioned in the same format throughout the manuscript. ➤ The authors need to improve the problem statement in the introduction section. ➤ Use Endnote or Mendeley for reference. The current format is not according to the prestigious journal. ➤ Explain the conclusion in more detail. <p>Cite the following references</p> <ul style="list-style-type: none"> ➤ https://doi.org/10.1007/s10924-022-02561-8 ➤ https://doi.org/10.1016/j.envres.2023.115429 ➤ https://doi.org/10.1016/j.chemosphere.2023.137999 	

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	➤ https://doi.org/10.3390/polym14153206	
Minor REVISION comments	Yes	
1. Is language/English quality of the article suitable for scholarly communications?		
Optional/General comments		

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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