

Our Ref : Pap/PdM/001-2015/CharacMalLGMO

Date : Sept 30<sup>th</sup> 2015

The Editor,  
Periodico de Mineralogia.

Dear Sir,

**Submission to Periodico de Mineralogia.**

1. **Manuscript Entitled 'Characterization of Malaysian Low Grade Manganese Ore'**
2. **Authors: Suhaina Ismail, Syed Fuad Saiyid Hashim, Hashim Hussin and Norazharuddin Shah Abdullah (corresponding).**

The above matter is respectfully referred.

2. The above titled manuscript, which I am submitting on behalf of my co-authors, is aimed for exclusive consideration of publication as an article in Periodico de Mineralogia.

3. The paper illustrates significant findings in the characterization of a local (Malaysian) low grade manganese ore (LGMO). Initially, the complexity of the LGMO samples was clearly acknowledged. Next, determination of the LGMO's metallurgical classification was accomplished, and identification of LGMO's mineral components through Rietveld refinement method was successfully done. Please bear in mind that this is perhaps unconventional in ore characterization efforts. Last but not least, to complement the characterization work done, liberation studies were also conducted. It is believed that the results discussed in this manuscript provide valuable information for future efforts to attempt recovery of manganese from the LGMO. We also trust that this paper will be of interest to a broad audience, in engineering science, and ore/minerals characterization, especially.

4. We are happy if the journal could provide reviewers for our manuscript.

5. On behalf of my co-authors, I would like to thank you for your consideration of our work. We declare that this manuscript is original, and have never been published elsewhere. I would appreciate if all correspondence concerning this manuscript can be e-mailed to me personally at [azhar.abdullah@usm.my](mailto:azhar.abdullah@usm.my).

Thank you.  
Sincerely,



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