## *Interactive comment on* "Application of unsupervised pattern recognition approaches for exploration of rare earth elements in Se-Chahun iron ore, central Iran" *by* Mohammadali Sarparandeh and Ardeshir Hezarkhani

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Received and published: 20 September 2017

Dear Dr. Mollajan

Thank you for your positive evaluation. Your comments helped to improve the quality of the article. We followed your advices and did the corrections in final version of the manuscript. Therefore:

1- We defined all the abbreviations in the first use of them. 2- The sentence was corrected (page 4, line 19). 3- We removed figure 3 and just explained it in the text. 4- The title of section 3 was changed to "mineralogy and lithology" and we explained about the samples.

Best Regards, Mohammadali Sarparandeh

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Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss., https://doi.org/10.5194/gi-2017-38, 2017.