Interactive comment on "Application of advanced composite modified perlite for degradation of particle size and turbidity in treatment of sewage water" *by* Ali Reza Taheri Fard

Anonymous Referee #2

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The aim of this paper was to study a sewage-water treatment performance of a filtering device, filled with modified perlite, on COD, turbidity, etc., removal efficiency. The content of this paper could contribute to the field of wastewater treatment. However, I have some concerns about the English used and the limited information given in results and discussion sections. I am recommending acceptance of this paper for publication after the following comments are addressed by the authors.

Comments: 1. Abstract: "Water treatment efficiency" or "Wastewater treatment efficiency"? 2. Abstract: "concentration and size of particles (from 3870 nm to 56 nm)". Which is the concentration of the particles? 3. Abstract: "Filtering device was created

with 2 steps syphon, . . . filter with mere perlite.". Please rewrite the sentence. 4. Introduction: "To meet the needs of people and to provide access to clean water and, in the twentieth century is difficult and complicated." Please correct the sentence. 5. Introduction: "Advantages of perlite as a filter aid include reducing the cost with the help of perlite filter which implies the aid of perlite filter is 20 to 50% more than other filters, which is very significant in terms of cost reduction." This sentence is confusing. 6. Introduction: "Application of perlite in filtration process has not been used for over a decade, ... in scientific area of filtration." This sentence is quite to long and confusing. 7. The goal of this study is not well presented. 8. Throughout the manuscript - please correct English typo and grammar mistakes. 9. Table 1: please correct the formulas. 10. 2.2 SC Perlite: Please give a reference to support the information provided in this section. 11. 2.4 Perite with modified Fuller'curve: "I used modified Fuller Thompson Curve.." Correct the typo mistakes and avoid writing in first person. 12. 3.1 Turbid meter (NTU): Describe the method used for turbidity. 13. 3.2 TOC and 3.3 Nitrate: It seems that authors described in general the meaning of Nitrates and TOC presence, without explaining their results. 14. Economic view of project: The information given in this section is limited.

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