Interactive comment on "Low-cost multi-stage filtration enhanced by coagulation-flocculation in upflow gravel filtration" *by* L. D. Sánchez et al.

Anonymous Referee #2

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This paper "Low-cost multi-stage filtration enhanced by coagulation-flocculation in up-flow gravel filtration" assesses the operational and design aspects of coagulation and flocculation in upflow gravel filters (CF-UGF) in a multi-stage filtration (MSF) plant. Paper was aloud written and visibly is the flexibility of the system to operate with and without coagulant according to the influent turbidity. Suggeastion: - performed other hydrodinamic model. In the hydrodinamic model was performed only CMRS model (in Reactor Engineering literature named Tank in series model) but not performed other models (e.g. Disperssion model). Considering that only 51% of tank ractor was perfect mixed for determination influence of disperssion should be determined Peclet number. - To check balance of tracer and confirmed that not involved in any of the physical and chemical processes. Syntax mistake in paper: - Fig. 4. X-axis not correctly described In Chem. Eng. literature ratio t/t0 need to write as lowercase letter and it is

dimensionless time. Uppercase letter T is symbol for Temperature.

Interactive comment on Drink. Water Eng. Sci. Discuss., 5, 291, 2012.