

## ***Interactive comment on “Solar Distillation of Impure Water from Four Different Water Sources under South-Western Nigeria Climate” by Saheed A. Adio et al.***

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S10: We thank the reviewer for the good suggestions. The observation has been rectified as suggested. s20: We use a digital meter that measures both the TDS and the EC. The modes were only interchanged to capture the required parameter at each specific time. As reported in lines 217-220, The total dissolved solid particles in the water sample was measured using a digital conductivity meter by Mettler Toledo with  $\pm 0.5$  % conductivity accuracy. However, emphasis is reduced on TDS due to the suggestion made by the reviewer (RC1). S51: We appreciate the reviewer for this observation. The suggestions has been effected S90: This observation has been

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reported in the literature as cited in line 92. S96: The sentences has been rephrased as suggested by the reviewer (Line 99 - 100) S106: The reviewer pointed out the need to mention the area of the solar collector that received the heat from the sun. This area is 1 square meter as mentioned in line 110 - 111. S207: We thank the reviewer for this observation and it has been corrected. S210: The brand of the measuring equipment is a digital conductivity meter by Mettler Toledo with  $\pm 0.5$  % conductivity accuracy. The digital meter was used to measure both the TDS and the EC. This is described in lines 217 - 222. S281: Figures 4 a and d gives the distillate yield for the active solar still while Figures 4b and c represent the distillate yield for the passive still. This is captured in Lines 280 - 282 s323: We appreciate the suggestions of the reviewer and this line has been modified. s336 The tables here have been numbered and the data are presented in SI units. Daily production rate is now written in litres per square meter of solar collector per day. This explanation addressed the observations raised by the reviewer. s346 The XXXX has been replaced by numbers as suggested by the reviewer. Other relevant information has been added to improve the quality of the paper.

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