Reviewer’s report

Title: Air pollution dispersion from biomass stoves to neighboring homes in Mirpur, Dhaka, Bangladesh

Version: 1 Date: 26 Dec 2018

Reviewer: Kin Fai Ho

Reviewer's report:

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This manuscript monitored and analysis the influences of indoor biomass burning to indoor air quality and nearby homes with different conditions. There are several minor comments need to be clarified by the authors:

1. Page 6, line 35, the household sources of indoor pollutants were listed here. The use of biomass fuels and stoves were partially overlapped, cause when using stoves, biomass is one of the fuels included. Please classify the indoor sources more clearly.

2. Page 9, line 31-34, please state the company of the instruments, and the country of company, in the commonly used format of instruments. i.e., Mini vol (xx company, state, USA)

3. Page 13, line 37-44, what's the ratios of the homes using different fuels for cooking? Why did the author only listed the numbers of each type?

4. Page 15, line 37-60, Were the ranking of PM2.5 and CO for the different indoor environments same? If so, can you explain the reasons.
5. Page 18, in discussion section, the effects of biomass cooking to neighboring homes were compared, while how much could the activity effect different condition homes? Can you estimate the effect more intuitive? I.e. by percentage.

6. Page 21, conclusion part, it was stated that "PM2.5 and CO concentrations were highest near biomass stoves and in homes that use biomass as a primary cooking fuel" and impact the air quality of neighboring homes. These conclusions are commonly known, so please show more detailed and further conclusions after the data analysis.

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

Yes

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

Unable to assess

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable
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