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Comment

## ***Interactive comment on* “Black carbon emissions from biomass and fossil fuels in rural India” by I. H. Rehman et al.**

**I. H. Rehman et al.**

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We thank the reviewer for their constructive comments. We have incorporated all of the suggested corrections, except for one issue, which is also addressed in response to Reviewer #1. This issue concerns the relevance of our findings to the larger Indo-Gangetic Plains (IGP) region.

Specific comments:

1) Please see response to Reviewer #1 for this concern on Surya village (SVI\_1) as a representative of IGP region.

We have not measured contribution of BC emission from tractors, but as suggested by the reviewer, we have mentioned in the revised paper that the tractor emission (during

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agricultural activities) as a possible contributor to the outdoor BC concentration from fossil fuels.

2) The reason for the indoor (altered) BC peak between 6:00 and 9:00 is already mentioned (see P 10854 L 28) and is possibly due to milk simmering activity in between morning and evening cooking activities.

3) As pointed out, we have mentioned the interference of incense burning with our measurements in the revised paper. We did not observe any incense burning during our study period and therefore no correction was needed.

4) As suggested, Brown carbon (BrC) definition is corrected in the revised paper. Also, as suggested the absorption dependence of BrC with wavelength is rephrased and the corresponding references are added (in the revised paper).

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Interactive comment on Atmos. Chem. Phys. Discuss., 11, 10845, 2011.

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