



SDI Review Form 1.6

Journal Name:	Asian Journal of Environment & Ecology
Manuscript Number:	Ms_AJEE_35877
Title of the Manuscript:	Determination of sulfur dioxide dispersion in the atmosphere from petroleum production Unit No. 9 and its proximity to Masjid-I-Suleiman
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	The work describes the measurements of SO₂ with lead peroxide absorbent plates at different geographic points and correlates them with atmospheric parameters. The work determines the concentration and its correlation with the source points like wells. There are some mayor problems with the references and some minor problems that I wrote below. The overall study seems solid but the analysis requires a bit of clarity in the explanation. Reference [1] is wrong. It doesn't support the affirmation "The most common air pollutants are CO₂, SO₂, NO₂, Hydrocarbons (HC) [1]" https://www.onepetro.org/conference-paper/SPE-162338-MS This one doesn't mention other gases than H₂S. And the number of the SPE is 162338 not 162613 as written in the reference. https://www.onepetro.org/conference-paper/SPE-162613-MS This is the paper with the SPE number 162613 but it is also only about H₂S. Reference [2] doesn't explicitly write about emissions, maybe a reference that details the emissions of H₂S to atmosphere by gas natural processing would be good No mention to sulphur dioxide is made in reference [5], it is about H₂S. Reference [6] is two references merged together. The first is a book the second a paper. Please separate them. I didn't check if any of those works talks about SO₂ corrosion of metals, please double check. Gorka, M., and M. O. Jedrysek. "Solid atmospheric particles and wet precipitations in Wroclaw (SW Poland): mineralogical and isotopic preliminary studies." Mineralogical Society of Poland–Special Papers 24 (2004): 179-182. http://www.wiley.com/legacy/products/subject/reference/pattys_toc.html Reference [7] talks about ozone not H₂S and not in the region but in California (USA). It is also not about humans but about the effect of ozone on forest. At this point I stopped looking in details about the references, but please check the consistency of the rest of the references. Also I could not read the ones in Persian, but, for example, 12 doesn't seem very appropriate to reference ISO 9223 on pollution levels.	
Minor REVISION comments	1) Figure 1 and 2: Desember instead of December	



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	2) Since table 1 is duplicated, all tables but Table 1 have the wrong number. 3) What analysis was made with the SPSS to get the p values? I could not replicate those values. 4) Why did you change the units?: "which is close to oil production unit. The lowest concentration has been measured around 0.32 ($\mu\text{g}/\text{m}^2$ on sq. per day) why did you change units?" Are all numbers in the same units? Please check. Also seems Table 1 and 2 are the same table before transformation of sulphate to SO_2? 5) Please provide references for table 6 and figure 4. Please provide units for table 6 6) A map of the measurement points and oil and well installations could be very useful if possible.	
<u>Optional/General</u> comments		

Reviewer Details:

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