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Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_102184
Title of the Manuscript:	Nutrient requirement of pre-release sugarcane varieties in Vertisols of Northern Telangana Zone
Type of the Article	

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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 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u>	General Comments From my point of view, it is a very interesting topic and simultaneously it seems that to the best of my knowledge is an important research which study to find out the performance of three sugar cane varieties (97 R 129, 2010 R 854 and Co 86032) under four fertilizer levels (75, 100, 125 and 150 % RDF). The experiments consist of 12 treatments replicated thrice in a Randomized Block Design with factorial concept. The highest cane yield (119.1 t ha^{-1}) was recorded with application of 150 % RDF which was on par with application of 125% RDF (114.4 kg ha^{-1}) and significantly superior over rest of the treatments. The lowest yields recorded under 75 % RDF (87.50 t ha^{-1}). Among the varieties tested, 2010 R 854 recorded highest cane yield (112.2 t ha^{-1}) which was significantly out yielded than the rest of the two varieties (97 R 129 and Co 86032). The highest benefit cost ratio recorded in 125% RDF followed by 150 % RDF and 100% RDF. Among the varieties, 2010 R 854 recorded highest benefit cost ratio over rest of the varieties. Based on the results of the investigation it is concluded that adoption of promising sugarcane variety 2010 R 854 with 125 % RDF ($312.5\text{-}125\text{-}125 \text{ kg N-P}_2\text{O}_5\text{-K}_2\text{O ha}^{-1}$) is recommended for Vertisols of Northern Telangana Zone. The paper consists of the sections: Introduction, Materials and Methods, Results and Discussion and Conclusion. However, I find some recommendations: 1. The abstract must contain the main purpose of the paper, the research method used in the research and the main contributions. 2. It would be very useful to add in the "Introduction" section the purpose, objectives and hypothesis of the research. 3. I consider an econometric model will increase the quality of the paper. 4. The Literature review section cannot be missing from the paper. 5. In the same time, I consider the literature review section cannot missing from the paper and that is why we consider that the literature is not enough and that is why, we recommend the authors to refer to other recent works indexed in Web of Science, Scopus, Emerald, Cambrige, and of course MDPI Journals. We suggest that the authors cite papers published in MDPI journals and Web of Science Journals, such as: 1. Batrancea L., Batrancea I., Moscviciov A. (2009), The Roots of the World Financial Crisis, Annals of Faculty of Economics, 3(1):57-62. 2. Batrancea, L., Rathnaswamy, M.K. & Batrancea, I. A Panel Data Analysis on Determinants of Economic Growth in Seven Non-BCBS Countries. <i>J Knowl Econ</i> (2021). https://doi.org/10.1007/s13132-021-00785-y 3. Batrancea LM.(2021) An Econometric Approach on Performance, Assets, and Liabilities in a Sample of Banks from Europe, Israel, United States of America, and Canada. <i>Mathematics</i> . 2021; 9(24):3178. https://doi.org/10.3390/math9243178/ . 4. Batrancea, L. The Nexus between Financial Performance and Equilibrium: Empirical Evidence on Publicly Traded Companies from the Global Financial Crisis Up to the COVID-19 Pandemic. <i>J. Risk Financial Manag.</i> 2021 , 14, 218.	

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	<p>https://doi.org/10.3390/jrfm14050218</p> <ol style="list-style-type: none"> 5. Batrancea, L. Empirical Evidence Regarding the Impact of Economic Growth and Inflation on Economic Sentiment and Household Consumption. <i>J. Risk Financial Manag.</i> 2021, <i>14</i>, 336. https://doi.org/10.3390/jrfm14070336 6. Batrancea, L.; Pop, M.C.; Rathnaswamy, M.M.; Batrancea, I.; Rus, M.-I. An Empirical Investigation on the Transition Process toward a Green Economy. <i>Sustainability</i> 2021, <i>13</i>, 13151. https://doi.org/10.3390/su132313151 7. Batrancea, L.M. (2022) Determinants of Economic Growth across the European Union: A Panel Data Analysis on Small and Medium Enterprises. <i>Sustainability</i>, <i>14</i>, 4797. https://doi.org/10.3390/su14084797/Accession NumberWOS:000786368500001/ ISSN: 2071-1050. 8. Batrancea, L.M., Rathnaswamy, M.M., Rus, M.I., Tulai H.(2022) Determinants of Economic Growth for the Last Half of Century: A Panel Data Analysis on 50 Countries. <i>J Knowl Econ</i>, Pp.1-25, https://doi.org/10.1007/s13132-022-00944-9. <p>5. We also consider that an important cause that influences GDP is fiscal compliance and therefore even if this variable was not taken into account, the authors should refer to the works published on this topic, namely:</p> <ol style="list-style-type: none"> 9. Nichita, R.-A.; Bătrâncea, L.-M. The Implications of Tax Morale on Tax Compliance Behavior. <i>Ann. Univ. Oradea Econ. Sci.</i> 2012, <i>21</i>, 739–744. 10. Batrancea, L.; Nichita, R.; Batrancea, I. Tax Non-Compliance Behavior in the Light of Tax Law Complexity and the Relationship between Authorities and Taxpayers. <i>Sci. Ann. "Al. I. Cuza" Univ. -Econ.</i> 2012, <i>59</i>, 97–106. <p>7. Another important cause that must be mentioned in the paper is the link between GDP, fiscal compliance and shadow economy, as the independent variables fiscal compliance and shadow economy strongly influence GDP. In this sense, I recommend the authors to quote the paper:</p> <ol style="list-style-type: none"> 11. Batrancea L., Nichita A., Batrancea I., Gaban L. (2018). „The Strenght of the Relationship Between Shadow Economy and Corruption: Evidence from a Worldwide Country-Sample”. <i>Social Indicators Research</i> 138(3), 1119-1143; DOI: 10.1007/s11205-017-1696-z <p>We recommend the authors to number the paragraphs: 1. Introduction; 2.Literature review; 3. Methods and Results, Discussions and Conclusions. In conclusion, the article should be thoroughly rebuilt (changes in structure recommended above). It should also be enhanced with a review of the literature adequate to the subject and a broader interpretation and commentary of the research results.</p>	
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Minor REVISION comments		
1. Is language/English quality of the article suitable for scholarly communications?	No	
Optional/General comments	The Manuscript needs careful English proofreading because there are some shortcomings. For instance, the article “the” is sometimes missing in front of nouns, the message in some paragraphs is not clear enough.	

PART 2:

	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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

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