

Review Form 1.7

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	Research 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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p>	<ul style="list-style-type: none"> In the Telangana region, sugarcane is grown in an area of 0.35 lakh hectares with a production of 3950 lakh tonnes and productivity of 79.80 tonnes ha⁻¹ (Directorate of Economics and Statistics, 2018). Sugarcane being a long duration comprehensive crop with substantial nutritional demand, produces a heavy tonnage and tends to remove considerable quantum of plant nutrients from the soil thus rendering soil less fertile and fails to produce higher crop. Fertilizers play a chief role in increasing sugar production, because of their influence on cane tonnage. <ul style="list-style-type: none"> Yes, the title of the manuscript is appropriate enough. Yes, the abstract written is comprehensive. Yes, they are appropriate enough illustrating the general sub-sections viz., Abstract, Introduction, Materials and Methods, Results and Discussion and Conclusion as well. <ul style="list-style-type: none"> The data have been concisely documented in tabular forms. The figures shown are exemplary. <ul style="list-style-type: none"> Appropriate fertilization is a vital supervision function in sugarcane production. Thus, it is essential to hoard sugarcane crop with the immense three (N, P and K) to secure good cane quantity and quality. Moreover, it has been earlier reported that chemical source of fertilizer (N, P and K) at the rate of 225-112-168 kg ha⁻¹ evidenced to be more effective to produce pointedly greater plant height and thicker cane girth, more tillers, better brix, higher sugar recovery and maximum cane yield ha⁻¹. The present investigation has concluded that the adoption of promising sugarcane variety 2010 R 854 with 125 % RDF (312.5-125-125 kg N-P₂O₅-K₂O ha⁻¹) is recommended for Vertisols of the Northern Telangana Zone. The references cited are adequate and recent enough. 	<p>Noted</p>

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<p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>		
<p><u>Minor</u> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<ul style="list-style-type: none"> • Abstract, 3rd line: with the factorial concept- add an article. • Keywords-must be a single word. • Introduction, 3rd line: In the Telangana region, sugarcane is grown- add an article and a missing verb. • Introduction, 8th line: sugarcane crops- fix the agreement mistake. • Introduction, 8th & 9th lines: depends upon the choice of variety and the adoption of balanced nutrition. • The usage of the English language is appropriate and well suitable for scholarly communications. 	
<p><u>Optional/General</u> comments</p>	<ul style="list-style-type: none"> ○ Data analysis was computed by following the statistical methods out lined by Panse & Sukhatme (1978). The benefit Cost Ratio (B:C ratio) was worked out based on the standard procedure (Gittinger, 1982). ○ The cultivation practices were carried out periodically and the cane yield was recorded at harvest. ○ Overall, the manuscript has been succinctly written and well-presented with related statistical data that has been documented in the form of fine Tabular forms. The figures are well-presented too. 	

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	