

Review Form 3

Journal Name:	Asian Journal of Research in Agriculture and Forestry
Manuscript Number:	Ms_AJRAF_125634
Title of the Manuscript:	Effect of treating alfalfa seeds with gibberellin and nano-fertilizer on productive characteristics and protein content in hydroponic cultures
Type of the Article	RESEARCH ARTICLE

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<ul style="list-style-type: none"> • Alfalfa productivity is estimated to be 454 million tons per year on the global scale. • Also, alfalfa may be cultivated in salty circumstances, and as a suitable resource for grazing crops, it can adapt to both saline and alkaline environments reveals the earlier findings. 	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<ul style="list-style-type: none"> ○ Yes, the title of the manuscript is appropriate enough. 	
<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<ul style="list-style-type: none"> ○ Yes, the abstract written is comprehensive and pertinently written. 	
<p>Are subsections and structure of the manuscript appropriate?</p>	<ul style="list-style-type: none"> • Yes, they are appropriate enough characterizing the general sub-sections viz., Abstract, Introduction, Materials and Methods, Results and Discussion and, Conclusion as well. ▪ Additionally, the relevant data pertaining to the study have been concisely documented in the tabular forms. 	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<ul style="list-style-type: none"> • The seed germination process using the seed soaking technique may induce a pre-adaptation reaction when many challenges arise, such as water scarcity, and subsequently reduce the harm caused by this stress in the plant's development and yield. • In accordance with the prior findings, nano fertilizers offer as one of the operative substitutes to traditional fertilizers because of the ease of nano-particles entering the cells and being absorbed by them due to their small size, association with protein carriers, and penetration of the cell wall, which permits the transfer of these nano-particles through the cells and their spread among them, which rallies their functions and upsurges the efficiency of their effect. • Additionally, the earlier reports suggested that Gibberellins travel spontaneously inside the plant, up and down without obstruction and promote stem elongation by driving cell elongation and expansion, and they also control cell membrane permeability. • Apart from this, Hydroponics, provides green fodder throughout the year and does not require large areas for fodder production compared to traditional cultivation of fodder crops. 	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>=</p>	<ul style="list-style-type: none"> ○ The references cited are adequate and recent enough. 	

Review Form 3

Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	<ul style="list-style-type: none">Pg. no.3, 2nd paragraph, 4th & 5th lines: which has a high nutritional value, enriched with carbohydrates and protein- Use the appropriate verb to improve the quality of the sentence.Make uniformity in spacing in Pg. no.4.The usage of the English language is appropriate and aptly suitable for scholarly communications.	
Optional/General comments	<ul style="list-style-type: none">Overall, the manuscript has been succinctly authored, characterizing various sub-sections and tabulating the relevant data.	

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>	

Reviewer Details:

Name:	Asma Jabeen
Department, University & Country	Indian Institute of Rice Research, Osmania University, India