



SDI Review Form 1.6

Journal Name:	Asian Journal of Agricultural Extension, Economics & Sociology
Manuscript Number:	Ms_AJAEES_33863
Title of the Manuscript:	Improving Nitrogen Use Efficiency of Urea by using Urease and Nitrification Inhibitors and Plant Growth Regulators under Spinach Crop
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.

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(<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	- You did not have N upake data and N yields data...plus the computation of NUE indices/measures like partial factor productivity (PFP) or recovery efficiency (RE)...I suggest that you retitle as "effect of combine application of urea, urease, nitrification inhibitors and plant growth regulators on spinach productivity" - Include soil fertility data - Under results and discussions - Rephrase incoherent sentences - Delete irrelevant literature and replace with relevant literature and where indicated relocate some text to the introduction section	- The retitle is agreed as, "effect of combine application of urea, urease, nitrification inhibitors and plant growth regulators on spinach productivity". - Soil Fertility Data as under; Table 3.1. Physico-Chemical Characteristics of Experimental Soil <table> <tr> <th>Characteristics</th><th>Unit</th><th>Value</th></tr> <tr> <td>Bulk Density</td><td>g cm⁻³</td><td>1.39</td></tr> <tr> <td>pH</td><td>-</td><td>8.10</td></tr> <tr> <td>ECe</td><td>dSm⁻¹</td><td>1.13</td></tr> <tr> <td>Lime (CaCO₃)</td><td>%</td><td>10.05</td></tr> <tr> <td>Organic Matter (OM)</td><td>%</td><td>0.92</td></tr> <tr> <td>Total Nitrogen</td><td>%</td><td>0.04</td></tr> <tr> <td>Available Phosphorus</td><td>μ g g⁻¹ soil</td><td>7.10</td></tr> <tr> <td>Available Potassium</td><td>μ g g⁻¹ soil</td><td>181.3</td></tr> <tr> <td>Clay</td><td>%</td><td>18.60</td></tr> <tr> <td>Silt</td><td>%</td><td>28.80</td></tr> <tr> <td>Sand</td><td>%</td><td>52.60</td></tr> <tr> <td>Textural Class</td><td>-</td><td>Sandy Clay Loam</td></tr> </table>	Characteristics	Unit	Value	Bulk Density	g cm ⁻³	1.39	pH	-	8.10	ECe	dSm ⁻¹	1.13	Lime (CaCO ₃)	%	10.05	Organic Matter (OM)	%	0.92	Total Nitrogen	%	0.04	Available Phosphorus	μ g g ⁻¹ soil	7.10	Available Potassium	μ g g ⁻¹ soil	181.3	Clay	%	18.60	Silt	%	28.80	Sand	%	52.60	Textural Class	-	Sandy Clay Loam
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		Extractable Phosphorus	mg kg ⁻¹	19.10
		Exchangeable Potassium	mg kg ⁻¹	189.20

3. Under results and discussion

- i. Improved sentences
- ii. Deleted irrelevant literature and replaced with relevant literature and where indicated relocated some text to the introduction section



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Minor REVISION comments	4. Attend to suggestions on grammar and completion of some hanging sentences 5. Under materials and methods complete treatments 4 and 7	4. Sentences have been improved considerably. 5. Under materials and methods, the details of treatments with justification is as under. Statistical analysis was carried out using the procedure given by Steele <i>et al.</i>, 1997. The detail of the treatments is given below. The pot size was 1 x 1 m². The treatment of N fertilizer was applied in two splits, P and K fertilizers were applied at the recommended rates at the time of sowing as follows: N application rate: @ 150 kg/ha DCD application:@ 10 kg/ha DMPP application: @ 2 kg/ha GA3 application rate: @ 60 gram/ha Treatments of Spinach trial <table border="1"> <tr> <td>T1</td><td>No Nitrogen or GA₃ (Control)</td></tr> <tr> <td>T2</td><td>Urea only @150 kg N/ha</td></tr> <tr> <td>T3</td><td>Agrotain treated Urea + DCD@10 kg/ha</td></tr> <tr> <td>T4</td><td>Urea@150 kg/ha + GA₃ @60 gram/ha</td></tr> <tr> <td>T5</td><td>Agrotain treated urea@150 kg/ha + DCD @10 kg/ha + GA₃@60 gram/ha</td></tr> <tr> <td>T6</td><td>Agrotain treated urea @150 kg/ha + DMPP@2 kg/ha</td></tr> <tr> <td>T7</td><td>Agrotain treated urea @150 kg/ha + DMPP@2 kg/ha + GA₃@60 gram/ha</td></tr> <tr> <td>T8</td><td>Nitrophoska @150 kg N/ha</td></tr> <tr> <td>T9</td><td>Nitrophoska @150 kg/ha + GA₃@60 gram/ha</td></tr> </table> Replications: 4 Seed Rate: 10 to 15 Seed/pot Time of Sowing: 7th November, 2011 Germination Time: After 6 days of sowing Statistical design: Completely Randomized Design (CRD)	T1	No Nitrogen or GA ₃ (Control)	T2	Urea only @150 kg N/ha	T3	Agrotain treated Urea + DCD@10 kg/ha	T4	Urea@150 kg/ha + GA ₃ @60 gram/ha	T5	Agrotain treated urea@150 kg/ha + DCD @10 kg/ha + GA ₃ @60 gram/ha	T6	Agrotain treated urea @150 kg/ha + DMPP@2 kg/ha	T7	Agrotain treated urea @150 kg/ha + DMPP@2 kg/ha + GA ₃ @60 gram/ha	T8	Nitrophoska @150 kg N/ha	T9	Nitrophoska @150 kg/ha + GA ₃ @60 gram/ha
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