



SDI Review Form 1.6

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_66216
Title of the Manuscript:	Soil chemical properties and growth response of Jatropha to Rice Husk Dust and NPK in Ebonyi State, southeastern Nigeria.
Type of the Article	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/journal/10/editorial-policy>)



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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>The research paper entitled "Soil chemical properties and growth response of Jatropha to Rice Husk Dust and NPK in Ebonyi State, southeastern Nigeria" is a good approach as very limited work has done in past. The data set of the research has provided a good information but there is few basic mistake should be done to address before publishing in the "International Journal of Plant & Soil Science" journal. Major revisions should be done.</p> <p>Introduction: During rice refining processes, the husks are removed from grains. Milling may be used .. It is of little commercial value and because of its high silicon dioxide content; it is not useful to feed either human or cattle (why it is not useful as feed for cattle please give supportive reference). but can be incorporated into the soil to enhance soil ?----- fertility or----- - and crop productivity.</p> <p>Materials & Methods: The research was conducted at the Teaching and Research Farm, Department of Horticulture and Landscape Technology, Akanu Ibiam federal polytechnic Unwana from April 2020 to March 2021(Please justify) under rainfed conditions. Geographically,Unwana is latitude 5^o48'N and longitude 7^o55'E (Azu et al., 2018)---Give the accurate location by using any GPS software, no need give reference here.</p> <p>Please check temperature range of 32°C- 21°C (Nwagbara,2007)--- It should be low to high.</p> <p>Table1.Some physical and chemical properties of the soil and rice husk dust (RHD) used for the study.--- Style should be uniform as text</p> <p>In table 1 Please recheck Organic carbon and total N value for RHC properties, if it is correct then what is C:N ratio, justify with supporting reference.</p> <p>A total land area of (400m x 130m) it should be 400 x 130sqm or 400m x 130m</p> <p>(0. 1, 2, 3, 4, and 5tonha⁻¹) NPK, dose.....Is it possible? See the recommended doses of NPK/plant and multiply by number of plant per ha. please recheck and follow the following reference https://www.researchgate.net/publication/270128641_Effects_of_fertilizer_application_on_fruiting_yield_of_Jatropha_curcas_Linn</p> <p>https://www.researchgate.net/publication/329453594_Quantitative_analysis_of_jatropha_growth_Micronutrient_delivery_system_and_NPK_combined_effects</p> <p>https://www.researchgate.net/publication/348995371_Standardization_of_irrigation_nutrient_and_pruning_requirement_of_Jatropha_Jatroha_curcas_L_for_enhancing_its_productivity</p> <p>Again what was ratio of applied NPK, no where it is mention. Organic carbon was determined by the wet oxidation method of Walkey and Black as described by Pansu and Gautheyrous (2006)---What about organic matter analysis.....how it calculated or determined? Statistical Analysis—reference is missing(GENSTAT 2009)</p> <p>Result and Discussion: CO₂ and organic acids..O</p>	



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	<p>The highest amount of organic carbon and organic matter (2.00% and 3.46% respectively) were recorded in plot.....enhancement of SOC is that much ---How it could be possible please justify with reference.</p> <p>EFFCT OF RHD AND NPK ON GROWTH PARAMETERS OF JATROPHA: Please make uniform in title section, some where it is bold or so on</p> <p>Number of branches and Plant Height:</p> <p><i>Jatropha curcas</i> growth as demonstrated by plant height (cm), number of leaves, number of branches and stem girth were significantly influenced by the application RHD and NPK singly or in combination. These parameters increased with rates. These results agree with the findings of Oliver, (2016), who reported increased growth of <i>Jatropha</i> when produced in soil treated with a combination of organic and inorganic fertilizers.</p> <p>Although <i>Jatropha curcas</i> has the ability to flourish under any condition even without fertilizer application but greater yield is obtained when fertilizer is applied as observed from the research work.PI make uniform in manuscript</p>	
<p>Minor REVISION comments</p>	<p>Changes of soil physic-chemical properties may be presented in more organized way for each parameter to give the clear message to readers.</p>	
<p>Optional/General comments</p>	<p>Please justify : Is it possible to give recommendation after conduction a short duration study?</p>	

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

Reviewer Details:

<p>Name:</p>	<p>Sanjay Kumar Ray</p>
<p>Department, University & Country</p>	<p>India</p>