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#### **SDI Review Form 1.6**

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_29745
Title of the Manuscript:	Assessment of some Tropical Plants for use in the Phytoremediation of Petroleum Contaminated Soil: Effects of Remediation on Soil Physical and Chemical Properties
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.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(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	Please check the journal's website for intructions. Abstract with sub-headings and <i>P</i> - values From the journal's website:	
	SAMPLE ABSTRACT: Aims: Here clearly write the aims of this study. Sample: To correlate platelet count, splenic index (SI), platelet count/spleen diameter ratio and portal-systemic venous collaterals with the presence of esophageal varices in advanced liver disease to validate other screening parameters. Study design: Mention the design of the study here. Place and Duration of Study: Sample: Department of Medicine (Medical Unit IV) and Department of Radiology, Services Institute of Medical Sciences (SIMS), Services Hospital Lahore, between June 2009 and July 2010. Methodology: Please write main points of the research methodology applied. Sample: We included 63 patients (40 men, 23 women; age range 18-75 years) with liver cirrhosis and portal hypertension, with or without the medical history of gastrointestinal bleeding. Clinical as well as hematological examination (platelet count) and ultrasonography (gray as well as color Doppler scale including splenic index and splenorenal/ pancreaticoduodenal collaterals)	

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was done besides upper GI endoscopy for	
esophageal varices. Platelet count/spleen	
diameter ratio was also calculated.	
Results: Kindly make sure to include relevant	
statistics here, such as sample sizes, response	
rates, P-values or Confidence Intervals. Do not	
just say "there were differences between the	
groups". sample: Out of 63 patients, 36 patients	
with small varices (F1/F2) and 27 with larger	
(F3) varices were detected on endoscope.	
Significant increase in mean splenic index from	
low (86.7 +/- 27.4) to high (94.7 +/- 27.7) grade	
varices was documented. Opposite trend was	
found with platelets (120.2 +/- 63.5 to 69.8 +/-	
36.1) and platelets/ splenic diameter ratio	
(1676.7 to 824.6) declining significantly. Logistic	
regression showed splenic collaterals and	
platelets are significantly but negatively	
associated with esophageal varices grades.	
Conclusion: Non-invasive independent predictors for	
screening esophageal varices may decrease medical as	
well as financial burden, hence improving the	
management of cirrhotic patients. These predictors,	
however, need further work to validate reliability.	
Guideline for Reporting P values:	
P is always italicized and capitalized.	
i lo annajo ranoizea ana capitanzea.	
i) Correct expression: (P = .05). Wrong	
Expression: ( $P < .05$ ), unless $P < .001$ .	
ii) The P value should be expressed to 2 digits	
whether or not it is significant. If $P < .01$ , it	
should be expressed to 3 digits.	
iii) When rounding, 3 digits is acceptable if	
rounding would change the significance of a	
rounding would change the significance of a	

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value (eg, P = .049 rounded to .05).	
iv) Expressing P to more than 3 significant digits	
does not add useful information since precise P	
values with extreme results are sensitive to	
biases or departures from the statistical model.	
v) Reporting actual P values avoids this problem	
of interpretation. P values should not be listed as	
not significant (NS) since, for meta-analysis, the	
actual values are important and not providing	
exact P values is a form of incomplete reporting.	
vi) Do not use 0 before the decimal point for statistical	
values <i>P</i> , alpha, and beta because they cannot equal 1.	
References must be listed at the end of the manuscript	
and numbered in the order that they appear in the text.	
Every reference referred in the text must also present in	
the reference list and vice versa. In the text, citations	
should be indicated by the reference number in brackets	
[3].	
Suggestions per line:	
Ln 11/74 soya bean (small letters) or soy bean? Stick to	
one term throughout the paper.	
Ln 34 widespread (one word)	
Ln 38 Marmirol and McCutchean (though the reference	
style is wrong, you should only have a number.	
Ln 47-49 – need a reference for your statements	
Ln 50 – crude oil is LESS dense that water. Unless you are	
talking about heavy crude oil – but I suggest you	
nevertheless give values or references.	
Ln 71 Anikwe 2006 in list	
Ln 77/80 – Amendment means the act of changing for the	
better; improvement. I would therefore suggest that you	
change 'amendments' to 'treatments', since petroleum	
will surely never be an improvement for the soil. This for	
the whole paper.	

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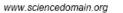


Ln 81 Full stop after experiments Ln 83/84 demarcated by a one meter pathway. Ln 85 into eight sub-plots each, Ln 92 No full stop after 50 cm. A total of 24 plants were	
 Ln 93 Grasses <del>like such as</del> vetiver grass Ln 98-99 in two <mark>split doses</mark> at planting and 21 days	
after planting (DAP). Ln 108 More than one analysis, therefore analyses. Ln 114 Reference for the Van Bemmeler factor Ln 119 Aluminium and hydrogen Ln 132 Gomez or Gomes? Check spelling. List different. Ln 140/151 Table 1 indicatesTable 2 reveals that the (reference to a table/figure always in present tense; all the rest in past tense.	
Lines 150-177: The following authors are not in the reference list: Rasiah, West, Amadi, Mbah, Awobajo, Ayodej. Ln 152/182/198/211/214/220 Correct <i>P</i> -value format Ln 161 parked?? packed perhaps?? Ln 162: Lower bulk densities obtained are OR Lower bulk density obtained is Ln 179 The lowest moisture	
Ln 185-6 Soils with 1.6-1.7 g cm <sup>-3</sup> show (OR soil with shows) Ln Keep to the same format: K cm <sup>3</sup> hr <sup>-1</sup> (also in tables)	



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Not good practice to start a sentence with a
reference to a figure/table. Rather describe the
results and refer to the table in brackets. E.g.
Petroleum treated soil had significantly the highest
organic matter content (0.79%) while the control
treatment had the lowest organic matter content
(0.54%) (Table 3). Soil planted with African yam
bean had the lowest organic matter content
(0.32%)
As to the content lines 195-208 I am confused.
You say in line 196 that the soil from the control
treatment had the lowest organic matter content
compared to (not with) the other soils. Yet, in line
199 you say that the soil in which the African yam
beans were grown had the lowest organic matter
content. It seems as if you are referring to the
means of the untreated and treated soils, but you
don't say it. Be clear in your discussions. I would
not suggest using the means of the contaminated
soil that was planted to different crops, since the
individual crops should have had an influence on
the soil. Vetiver (and note the spelling) is known
for decontaminating soils. You should have 10
treatments (eight different plants) and two controls
(one with only petroleum added and one with no
petroleum and no plants – though I don't see that
in your trial lay-out.). I suggest you rewrite your
discussion accordingly.
Ln 205/221 Katsivela not in reference list
In 229 contained lower lesser total porosity





value(43.75%)ln 233 than the contaminated soils.	
Kb 236 At 90 days after planting, the cultivation	
of soya bean is recommended This sentence	
doesn't make sense. It seems as if you plant it	
with something and then 90 days later you plant	
soya beans?? I think you meant that the	
cultivation of soya beans is recommended on	
petroleum contaminated soils, since the analyses	
of soil samples taken 90 days after planting,	
showed that the soya beans suppressed the bulk	
density and increased the available potassium etc.	
Also: your statement that treating the soil with	
petroleum is not recommended – does this actually	
happen? Or is it a case of spills or other pollution	
that were never intended? Also, wasn't 90 days	
too short a period to really see the effect of the	
petroleum on the plants? How did the crops	
perform? Did it bear fruit (beans, groundnuts etc.)	
or did it grow well and produce biomass (grasses)?	
Did the plants really decontaminate the soil? How	
do you know? I would suggest that planting one	
crop on all the treated soils (where you had the	
different plants) after a season or more and	
comparing the yield would have given an	
indication of the ability of the specific plant's	
capability of decontaminating the soil. How else	
would you gauge if the plant is capable of	
phytoremediation? If you only look at the	
chemical and physical properties it is still not a	



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	given that the soil is actually remedied. Even so –	
	is the performance of soya beans in this regard	
	significantly better than the other plants?	
	Tables: As per instruction from the journal:	
	Tables & figures should be placed inside the text.	
	Tables and figures should be presented as per their	
	appearance in the text.	
	I do not understand your tables. You have	
	contaminated soil, soil and plant mean for all the	
	properties you measured. Does that mean that you	
	took the pH, moisture etc. from the plants	
	themselves? Your text does not state that. If not,	
	what does 'plant mean' means? The soil where	
	these plants were planted? Then say so.	
	Vetiver grass	
	Fisher's least	
	Table 1 – what are the units of Ca, Mg, K, Na??	
	Table 3 KCl and not KCL	
Minor REVISION comments		
<b>Optional/General</b> comments		

As per the guideline of editorial office we have followed VANCOUVER reference style for our paper. Kindly see the following link: <u>http://sciencedomain.org/archives/20</u>

#### Reviewer Details:

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