

## Review Form 1.6

Journal Name:	<b>Chemical Science International Journal</b>
Manuscript Number:	<b>Ms_CSIJ_92321</b>
Title of the Manuscript:	<b>DETERMINATION OF HEAVY METALS AND TOTAL HYDROCARBON CONTENT IN NYPA FRUITICANS OBTAINED ALONG THE SHORES OF QUA IBOE RIVER, AKWA IBOM STATE, NIGERIA</b>
Type of the Article	<b>Original Research Article</b>

### **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:

(<https://www.journalcsij.com/index.php/CSIJ/editorial-policy> )

**Review Form 1.6**

**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)
<b>Compulsory</b> REVISION comments		
<b>Minor</b> REVISION comments	<p>According to the reviewer 1:            This paper (manuscript number GNPL- 2016-0523) describes DETERMINATION OF HEAVY METALS AND TOTAL HYDROCARBON CONTENT IN NYPA FRUITICANS OBTAINED ALONG THE SHORES OF QUA IBOE RIVER, AKWA IBOM STATE, NIGERIA In this work, the author This study ascertains the amount of heavy metal and hydrocarbon content in an area exposed to crude oil exploration and exploitation activities. The study is interesting and in my opinion it can be published, However, it can be revised in light of following points.</p> <p>Title  <b>Please change the title as 'HEAVY METALS AND TOTAL HYDROCARBON CONTENTS OF NYPA FRUITICANS GRAOWN ALONG THE SHORES OF QUA IBOE RIVER, AKWA IBOM STATE OF NIGERIA</b></p> <p><b>Abstract:</b>            1) Page 1 Line 9: 124.361.7± 1120.502 mg/kg Please verify this value 1120.502. It is more.            2) Page 1 Line 11: please mentioned the the abrevation liste of THC and WHO            3) Page 1 Line 12: 311,813.4± 2950.291 mg/kg. Please verify this value            4) Page 1 Line 20: Generally, the amount of heavy metals and THC were higher in the study sites than in the control site. Please add values for comparison between study sites and the control site.            5) Please add more keywords</p> <p><b>Introduction</b>            1) Page 2 Line 15: As human population increases, the intensity of anthropogenic threat exerted on the environment increases as a result of industrialization and agricultural activities (Ubong et al., 2020a). Please verify the police of this sentence.            2) Correction:            The sentence was changed to the Tunisian people used these leaves in traditional medicines (as infusion, cataplastm...</p> <p><b>. MATERIALS AND METHODS</b>            1) . PLESE CORRECT AS MATERIAL AND METHODS            2) Study area and Sampling Site It would be better to mention age of the plants in experimental.            3) Fig. 1 please mentioned the Fig. 1 in the text            4) Sample collection and preservation            The Nypa Fruticans leave samples were collected from the three sampling sites, washed with distilled water to remove dust particles and dried in an oven (105 C)            for 24 hrs. Please correct as : The Nypa Fruticans leave samples collected from the three sampling sites, were washed with distilled water to remove dust particles and dried in an oven (105            0            C) for 24 hrs.            The grounded samples were digested after drying according to (Lee, 1995) Please correct as The grounded samples were digested after drying according to Lee, (1995) methods.            Page 4 Line 114:The digestion procedure was as follows; the samples (1 g) was weighed into digestion flask and 10 ml nitric acid (HNO3)/ perchloric acid (HCIO4) acid mixture (3:1 ratio) was added to the sample; please correct as : The</p>	

**Review Form 1.6**

	<p>digestion procedure was as follows; the samples (1 g) was weighed and digested with 10 ml nitric acid (HNO<sub>3</sub>)/ perchloric acid (HClO<sub>4</sub>) acid mixture (3:1 ratio)  Page 4 Line 126 :The extraction method outlined by (Schwab et al., 1999);(Ekanem et al.,2019) was applied to the samples as follows. Please correct as:The extraction method outlined by Schwab et al (1999) and Ekanem et al.,(2019) was applied to the samples as follows.</p> <p><b>RESULTS AND DISCUSSION</b>  Please introduce table  Please in discussion you use many references Osuji &amp; Onojake, (2004) (Finster et al., 2004 Opaluwa et al., (2012 Ubong et al., (2011 Bal et al., 2013 Campbell, 2006 Hjortenkrans, 2003 please uses recent references for 2020,2021 or 2022.  Page 9 Line 272: Furthermore, THC in this research exceed the concentration recorded in other studies carried out in the Niger Delta as follows;(Osam et al., 2011), (Okop &amp; Ekpo, 2012) , and (Edwin-Wosu &amp; Albert, 2010).  0  -Please mentioned the recorded concentration that was obtained by these authors and correct as this: Furthermore, THC in this research exceed the concentration (?) recorded in other studies carried out by (Osam et al., 2011;Okop &amp; Ekpo, 2012 and Edwin-Wosu &amp; Albert, 2010) in the Niger Delta.  Page 8 Line 263: At site I, the mean value of THC in Nypa friuticans ranged from 1.23240-125.481 mg/kg with a mean value of 124,361.7±1120.502 mg/kg (Table 3); at site II the mean value of THC ranged from 310,009.1-315,218.9 mg/kg with a mean value of 311,813.4±2950.291mg/kg and at site III (control).please verify these values 124,361.7 and 315,218.9 and 311,813.4 it is necessary to verify you make comma (;) and point (.).</p> <p><b>References</b>  <b>Please write these references as journal guide</b>  Aitzaz ATSDR Bal Barnes Edwin-Wosu, N., &amp; Albert, E. (2010). Total Petroleum Hydrocarbon Content (TPH) As an Index Assessment of Macrophytic Remediation process of a Crude Oil Contaminated Soil Environment. Journal of Applied Sciences and Environmental Management, 14(1).  Finster, M. E., Gray, K. A., &amp; Binns, H. J. (2004). Lead levels of edibles grown in contaminated residential soils: a field survey. Science of the Total Environment, 320(2-3), 245-257.  Hjortenkrans, D. (2003). Diffuse metal emissions to air from road traffic. A case study of Kalmar, Sweden. Environ. Sci. Sect. Bullet, 1-55.  Ikpe,E.E.,Ekwere,I.O.,Ukpong, E.G.,Effiong,J.O.,Okon, O.E.(2020) Assessment of Heavy Metals and hydrocarbons in Rizophora mangle ,Callinectes sapidus and Sediment in Qua-Iboe River Akwa Ibom State Nigeria(2020).Global Journal of Advanced Engineering Technologies and Sciences  Members, A. T. F., Poldermans, D., Bax, J. J., Boersma, E., De Hert, S., Eeckhout, E., . . . lung, B. (2009). Guidelines for pre-operative cardiac risk assessment and perioperative cardiac management in non-cardiac surgery: the Task Force for Preoperative Cardiac Risk Assessment and Perioperative Cardiac Management in Non-cardiac Surgery of the European Society of Cardiology (ESC) and endorsed by the European Society of Anaesthesiology (ESA). European  Ogbeifun, D.E.,Archibong,U.D.,Chiedu,I.E.,Ikpe, E.E.(2019)Assessment of water quality of boreholes in selected areas in Benin city, Edo state , Nigeria. Chemical science international journal.  Organization., W. H. (1996). Permissible limits of heavy metals in soil and plants. Geneva, Switzerland.</p>	
<p><b>Optional/General</b> comments</p>		

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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