ReviewForm3

JournalName:	**InternationalJournalof EnvironmentandClimateChange**
ManuscriptNumber:	**Ms_IJECC_121224**
Titleof theManuscript:	**INFLUENCEOF EDAPHICFACTORSON SULFURCONTENTINCalophylluminophyllumL.BIODIESEL**
Typeof the Article	**OriginalResearchArticle**

PART1: ReviewComments

CompulsoryREVISIONcomments	**Reviewer'scomment**	**Author'sFeedback***(Pleasecorrectthemanuscriptandhighlightthatpart inthemanuscript.Itismandatorythatauthorsshouldwritehis/herfeedback here)*
Pleasewriteafew sentencesregardingtheimportance ofthismanuscriptfor thescientificcommunity.Whydo youlike(ordislike)thismanuscript?Aminimumof3-4 sentencesmayberequiredforthispart.	**Thismanuscriptishighlyimportantforthescientificcommunityasit addressesa crucialaspectof biodieselproduction- theimpactof soilcharacteristicsonthequalityofthefinalproduct. Understandingtherelationshipbetweenedaphicfactorsandsulfurcontentinbiodieseliscru cial foroptimizingtheproductionprocessandensuringcompliancewithindustrystandards.The findingsofthisstudycanhelpresearchersandbiofuelproducerstodevelopstrategiesfor**	
Isthetitleofthearticlesuitable? (Ifnotpleasesuggestanalternativetitle)	**Yes.Thetitleofthe manuscriptisappropriateandaccuratelyreflectsthecontentofthestudy.**	
Istheabstractofthearticlecomprehensive?Doyou suggesttheaddition(ordeletion)of somepointsinthis section?Pleasewriteyoursuggestionshere.	**Yes.Theabstractiscomprehensive,providinga clearoverviewoftheaims,methodology,results, andconclusionsofthe research.**	
Aresubsectionsandstructureofthemanuscript appropriate?	**The manuscriptiswell-structured,withclearandlogicalorganizationofthesections.The subsectionsareappropriateandhelpintheeffectivepresentationoftheresearchfindings.**	
Pleasewriteafew sentencesregardingthescientific correctnessofthismanuscript.Whydoyouthinkta t thismanuscriptisscientificallyrobustandtechnica	**Thescientificcontentofthemanuscriptistechnicallysoundandrobust.Theauthorshave employedappropriatemethodologies,includingkerneloilextraction,biodieselproductio n,and sulfurcontentanalysis,toaddresstheresearchobjectives.Thedataanalysisandinterpreta tion**	
Arethereferencessufficientandrecent?If youhave suggestionsofadditionalreferences,pleasemen tion themintheReviewform. **-**	**Thereferencesprovidedinthe manuscriptaresufficientandrecent.Theauthorhascitedrelevant andup-to-datestudiesonthetopicofCalophyllumbiodieselproductionandtheinfluenceof edaphicfactorsonitsquality.Someadditionalrecentreferencesthatcouldfurtherstrengthen the manuscriptare:** **1. Sanjid,A.;Masjuki,H.H.;Kalam,M.A.;Rahman,S.A.;Abedin,M. J.;Palash,S.M.Impact ofpalm,mustard,wastecookingoilandCalophylluminophyllumbiofuelsonperformancean d emissionofCIengine.RenewableSustainableEnergyRev.2014,27,664–682.** **2. Bajia,S.C.;Singh,R.J.;Bajia,B.;Kumar,S.Determinationof sulfurcontentinpetroleum products–anoverview.J. SulfurChem.2017,38(4),450–464.** **3. Pan,Y.P.;Wang,Y.S.;Tang,G. Q.;Wu,D.Spatialdistributionandtemporalvariationsof atmosphericsulfurdepositioninNorthernChina:insightsintothepotentialacidificationris ks. Atmos.Chem.Phys.2013,13(3),1675–1688.** **4Theseadditionalreferencesprovide morerecentinsightsintothesulfurcontentinbiodiesel,its implications,andtheinfluenceofedaphicfactorsonthequalityofCalophyllumbiodiesel,which wouldfurtherstrengthenthe manuscript.**	

ReviewForm3

MinorREVISIONcomments **Isthelanguage/Englishqualityofthearticlesuitable forscholarlycommunications?**	**ThelanguageandEnglishqualityofthearticlearesuitableforscholarlycommunication.The writingisclear,concise,andeasytofollow.**	
Optional/Generalcomments	**The manuscriptpresentsa comprehensivestudyontheinfluenceofedaphicfactorsonthesulfur contentinCalophylluminophyllumL.biodiesel.Theresearchis scientificallyrobustand technicallysound, makinga valuablecontributiontothefieldofbiofuelproductionandquality assessment. Belowarethestrengthsandweaknessesoftheresearch:** **A.Strengths:** **1. RelevanceandImportance:The manuscriptaddressesa crucialaspectofbiodieselproduction, namelytheinfluenceofedaphicfactorsonthesulfurcontentofCalophylluminophyllumL. biodiesel.Thisisanimportanttopicassulfurcontentisa keyparameterindeterminingthe qualityandperformanceofbiodiesel.** **2. ComprehensiveMethodology:Theauthorshaveemployedawell-designedexperimental approach,includingtheanalysisofkerneloilcontent,biodieselproduction,anddetailed assessmentof sulfurcontentinsoil,oil,andbiodieselsamples.Theuseof standardizedanalytical techniques,suchas ICP-OESandturbidimetry,ensurestherelibilityofthedata.** **3. ThoroughDataAnalysisandInterpretation:Theauthorshavepresentedtheresultsina clear andorganizedmanner,providingdetailedstatisticalanalysisandmaking meaningfulcomparisons betweenthedifferentstudylocations.Thediscussionsectioneffectivelylinksthefindingstoth e existingliteratureandprovidesinsightsintothepotentialreasonsfortheobservedvariationsi n sulfurcontent.** **4. PracticalImplications:Thestudyhasdirectimplicationsfortheoptimizationof Calophyllumin ophyllumL.biodieselproductionandquality control.Theinsightsgainedfromthisresearchcan helpbiofuelproducersandresearchersdevelopstrategiestomitigatetheimpactofedaphicfac tors onsulfurcontentandimprovetheoverallqualityofthefinalproduct.** **B.Weaknesses:** **1. LimitedGeographicalScope:Thestudywasconductedonlyinthesoutherndistrictsof Karnataka,India.Whilethisprovidesvaluableinformationforthespecificregion,expandingt he geographicalscopetoincludeothermajorCalophylluminophyllumL.cultivationareaswoul d enhancethegeneralizabilityofthefindings.** **2. LackofDetailedSoilCharacterization:The manuscriptprovideslimitedinformationonthe specificsoilproperties(e.g.,pH,organicmattercontent,cationexchangecapacity)that mayhave influencedthe sulfurcontent.Amorecomprehensiveanalysisofthesoilcharacteristicscould strengthentheunderstandingoftheunderlyingmechanisms.** **3. PotentialforFurtherOptimization:The manuscriptfocusesontheinfluenceofedaphicfactors**	

ReviewForm3

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?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

Name:	**Adel Ahmed Mohammed Saeed**
Department, University & Country	**University of Aden, Yemen**