ReviewForm 1.7

JournalName:	**AsianJournalofSoilScienceand PlantNutrition**
ManuscriptNumber:	**Ms_AJSSPN_112985**
TitleoftheManuscript:	**AssessmentofGeneticVariabilityandCharacterAssociationsinSunflower(HelianthusannuusL.)RegardingYieldRelatedtraits**
TypeoftheArticle	**OriginalResearchArticle**

PART1:ReviewComments

	Reviewer'scomment	**Author'scomment***(ifagreedwithreviewer,correct themanuscriptandhighlightthatpartinthe manuscript.Itis mandatorythatauthorsshouldwrite his/herfeedbackhere)*
Compulsory REVISIONcomments **1. Isthemanuscript important forscientific community?** (Please writefewsentenceson thismanuscript) **2. Isthetitleofthearticlesuitable?** (Ifnotpleasesuggest analternativetitle) **3. Isthe abstract ofthearticlecomprehensive?** **4. Aresubsectionsandstructureof themanuscript appropriate?** **5. Do you thinkthemanuscriptisscientifically correct?** **6. Arethereferences sufficientandrecent?If you have suggestionofadditionalreferences,please mentioninthe review form.** **(Apart fromabove mentioned6 points, reviewersare freetoprovide additionalsuggestions/comments)**	**1-6.Yes** Otherimprovementsuggestions: Pleaseaddsomeshortcomingsofthisresearchandsuggestionsforimprovementsinfurther research.Thesuggestionsforthisresearchmay include: 1. ExpandedStudyDurationandEnvironments:Thestudywascarriedoutatasinglesitefor a veryshortperiodoftime(November2022toFebruary2023).Tovalidateandgeneralise yourfindings,tryexpandingthestudytimeandincorporatingotherlocationswithvarying climaticvariables.Thiswouldhelpuslearnhowdifferentgenotypesreacttovariedclimatic andsoilconditions. 2. BroaderGeneticDiversity:Whilethestudyfocuseson52powderymildewdifferentials, includingabroaderrangeofgenotypescouldprovidea morecompletepictureofgenetic heterogeneity.Thiswouldalsoaid in identifyingqualitiesthatareconsistentlyimportant acrossalargergeneticbase 3. AdvancedStatisticalapproaches:Whilecorrelationandpathcoefficientanalysesare useful,incorporatingmoreadvancedstatisticalapproachessuchasQuantitativeTraitLoci (QTL)mappingorGenome-WideAssociationStudies(GWAS)mayprovidemoreinsight intothegeneticbasisofthetraitsstudied. 4. MolecularMarkerIntegration:Combiningmolecularmarkerdatamayhelpfindspecific geneticmarkersassociatedwithdesirablequalities.Thiscouldbe especiallyvaluablefor marker-assistedselectioninbreedingprogrammes. 5. PhenotypicPlasticityAssessment:Examinethephenotypicplasticityofthetraitsbeing studied.Understandinghowthesequalitieschangeunderdifferentenvironmentalsettings canprovideinformationabouttheirstabilityanddependabilityforselectionpurposes. 6. DetailedAnalysisofNegativeCorrelations:Yourpaperdiscussesnegativecorrelations, suchasvolumeweight.A morein-depthexaminationofthesenegativeassociationscould revealinsightsintopotentialtrade-offsandlimitsinbreedingprogrammes.	
MinorREVISIONcomments **1. Islanguage/Englishquality of thearticlesuitableforscholarly communications?**	Yes	

Optional/Generalcomments		

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)*	

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