



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	Ms_AJEA_24071
Title of the Manuscript:	Genetic variability for water logging and salinity tolerance in pigeonpea (Cajanus cajan (L.) Millsp.) under in vitro and in vivo conditions
Type of Article:	Original Research Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
As a result of ANOVA, there are significant difference among to genotypes. To be grouped to genotypes , Duncan or TUKEY test should be done and letter should be shown in table for properties studied in this manuscript . In the text, it is written that the germination percentage of highly tolerant and tolerant genotypes was more than 75%. But, in table AL 1758 germination percentage is 76% and in MT group. However, some genotypes like AL 1760, ICPL 99051 and UPAS 120 recorded comparatively higher germination percentage (30-38.5%), but their seedling vigor index values (180.0-231.0) were very low due to low seedling dry weight as a result of less seedling growth after germination due to sensitivity to saline conditions. If give some information about Duncan/tukey group should give in result and discussion sections, above sentence may be change. Out of the 60 genotypes, 3 highly sensitive genotypes recorded zero values for germination percentage, seedling length, seedling dry weight and seedling vigor index. No information about this genotype. revealed significant differences for chlorophyll content before as well as after treatments, reduction in chlorophyll content after treatment and for plant survival percentage under both water logging and saline conditions (data not shown). But data shown. Sulatana et al 2012 was not in the text. Kumutha et al 2009 was not in the text. Kumutha et al 2008 was not in the text. Krajol K, Naik GR (2011). was not in the text.	TUKEY TEST performed for grouping of genotypes based on germination percentage and seedling vigour index for in vitro studies and on plant survival basis for in vivo studies. Appropriate letters are assigned in Tables. Grouping of genotypes in various categories (HT, T, MT, S, HS) has been done considering germination percentage and seedling vigour index together. Therefore some genotypes having more than 75% germination but lower seedling vigour index were grouped in MT category. To keep table in concise form, data of many genotypes are not given in Tables. This comment is not clear to us. Corrected as Sultana et al 2012 in Reference section: Already in text (Page 9, line 269) Corrected as Mumutha et al 2009: Already in text (Page 11, line 315) Corrected as Mumutha et al 2008: Already in text (Page 11, line 315) Corrected as Karajol K & Naik GR (2011): Already in text (Page 2 line 58).