

**Covering letter
"Revised Version"**

"A New Generalised Poisson Lindley Distribution: Application and Properties"

AJS ID 54-222-1-RV submitted on 2014-07-28

Dear Prof. Templ,

I am thankful to you and associated reviewer for review our work and gave critical comments on paper entitled "A New Generalised Poisson Lindley Distribution: Application and Properties" with AJS ID 54-222-1-RV submitted on 2014-07-28

We strictly followed the comments and made suitable changes required by the AJS.

- (i) **Review Comments:** The introduction section of this paper which is not very clear and coherent. They forgot to cite the important and influential work on different versions of Lindley and generalized Lindley, discrete Poisson-Lindley (mixed Lindley), generalized Poisson-Lindley etc. In general, this will be better for the general readership. Thus the review of literature in Section 1 may be re-considered by including sufficient relevant literature especially on Poisson-Lindley distributions.

Author's Reply: We have modified the section 1 i.e. introduction section and quote all recent work related to our work.

- (ii) **Review Comments:** The motivation of the work is needed, and the authors should clarify why this distribution is important as compared to other competitors?

Author's Reply: Proper motivation is given and is justified in section 2.1

- (iii) **Review Comments:** The authors must also focus on inferential procedures for the stress-strength reliability parameter, the entropy and Shannon information (if possible).

Author's Reply: Since the Mathematical expression for CDF of proposed distribution is quite big and expression of stress-strength parameter is not coming in closed form. We think that this will be quite difficult.

- (iv) **Review Comments:** Need to add skewness and kurtosis for some selected values of parameters.

Author's Reply: Skewness and Kurtosis for selected values of parameters are computed and presented in the form of table also the 3D surface plot of Skewness and Kurtosis.

Moreover, two new examples are presented in the application section.

With all the above justification, we re-submitting the revised version for review (see the attachments).

Thank you once again Prof. Matthias Templ for your quick responses.

Deepesh Bhati