Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	**Ms_AJPAS_53280**
Title of the Manuscript:	**A New Compound Family of Generalized Moment Exponential distribution and Power Series Distribution: Properties and Applications**
Type of the Article	**Original Research Article**

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SDI 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)*
Compulsory REVISION comments	✓ **In the abstract, ...obtained through maximum likelihood (ML) method and a simulation.....(remove "is applied to obtaion")** ✓ **There are so many grammatical errors in this manuscript author(s) should kindly read it again to correct them.** ✓ **Most of the equations in this manuscript are no numbered which has made it very difficult for the reviewer(s) to understand the author(s). Please number all the equations.** ✓ **The relation G(x;α,β)=1-H(x;α,β)=.....is NOT related to the pdf in equation (1) and so what is the connection? (or is x=y?).** ✓ **.....suppose Z has a zero truncated power series distribution with pmf (2).....is equation (2) a pdf or pmf? And where is Z coming from because it is not found in equation (2). Is Z a variable or parameter? If variable is it discrete or continuous? If parameter scale or location or shape etc.** ✓ **Author(s) should defined and explain the parameters of the new family proposed.** ✓ **Author(s) should enlighten readers on this new family of distributions, is the proposed family for continuous or discrete models or for both discrete and continuous?** ✓ **Author(s) should clearly show how the cdf of this family of distributions was obtained from the pdf if possible, because generally the CDF of a family of distributions should be established before deriving the corresponding PDF.** ✓ **Author(s) should explain the functions K(θ), K(θH(x)), K'(θH(x)) and what they represent in the proposed family or are they the same for all kinds of distribution?** ✓ **In section 3, are the properties derived for the proposed family or a particular distribution? If they are for a particular distribution, what is the name of the model? If they are for the proposed family, where is K(θ), K(θH(x)) and K'(θH(x)).** ✓ ✓ **In section 4, author(s) have proposed a new family of distributions and so the proposed family should reduce to other existing families and NOT submodels as stipulated.** ✓ ✓ **It is ideal that only models proposed using this new family should reduce to other known distributions called sub-models, because if it is really true what happens to K(θ), K(θH(x)) and K'(θH(x)) as defined in the proposed new family.** ✓ **How did author(s) defined the models in subsection 4.1 and 4.2? Please briefly and clearly show the functions that were substituted to arrive at these compound distributions.** ✓ **Based on the PDF defined in section 5, the likelihood function and its natural logarithm presented are NOT correct.** ✓ **In section 5.1, author(s) should complete the simulation table for sample size n=100.** ✓ **In section 6, author(s) should explain the nature of the datasets used and why they were chosen.** ✓ **It is interesting that author(s) have defined GMEG distribution and so the model should be compared to geometric or related sub-models so as to rate its good performance.**	Action: Revised it Accordingly. Action: Grammatically errors are removed from manuscript. Action: equations are numbered if they again used in remaining part of manuscript. Action Now equation 3 (past equation 2) is a pmf (probability mass function for discrete case now indicated in paper) Z is a variable of discrete types. Action Parameters are now defined in revised manuscript. Action: Adjusted the comment in equation (4). Action: Now the method is described for deriving CDF from PDF. Action: K(θ), K(θH(x)), K'(θH(x)) Now (M(θ), M(θH(x))) are the series defined in (3) and M'(θH(x)) is the derivative of M(θH(x)). Section 3 is devoted to new proposed family. K(θ), K(θH(x)) and K'(θH(x)) can be derived easily from (3) and this comment addressed properly into revised document. Action: This comment is adjusting in the paper. We mentioned it before equation 3 (Noack(1950)) that how the new reduced models can be deduced. Now the Likelihood is adjusted accordingly. Adjusted accordingly. Since the geometric distribution is a discrete distribution and GMEG is a continuous distribution. Its sub-model is MEG. We have compared it with other well-known models like Weibull distribution, exponentiated exponential distribution and exponential distribution.

Minor REVISION comments		
Optional/General comments		

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)*	