



SDI Review Form 1.6

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_61805
Title of the Manuscript:	Comparative Analysis of Optimum Maintenance cost for water Borehole in South-Eastern Nigeria
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/journal/10/editorial-policy>)



SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, corrects the manuscript and highlights that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>Aims: The linear model and the quadratic model were used to estimate the cost parameters, what are the advantages of selecting linear and quadratic model as compared to other models should be elaborated.</p> <p>Methodology: The linear model and the quadratic model were used to determine the cost, The same sentence is repeated but it has to be modified and should be clearly explain the methodology.</p> <p>Equation 5: The terms TOC should be explained clearly</p> <p>3.1) Method of data collection: a) The choice of the boreholes was based on the availability of reliable data on Borehole maintenance from 2011-2016. The data pertaining to 2017 to 2019 need to be considered as addition to existing data. b) The method of data collection should be elaborated in detailed manner and it's significance has to be mentioned. c) It is mentioned methods and materials so more elaboration is required on materials part as well as it is not mentioned clearly.</p> <p>4.2) Calibration of Production Cost Parameters: The production cost parameters were determined for multiple pumping scenarios. What are the scenarios and how the determination has done for different scenarios?</p> <p>5.0) Conclusion: the quadratic model was better than the linear model for the estimation of cost parameters used for determining the optimum maintenance cost. What are reasons for concluding this statement, explain clearly based on result analysis.</p>	
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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	P. V. Rama Krishna
Department, University & Country	India