

### Review Form 3

Journal Name:	<a href="#">Journal of Advances in Mathematics and Computer Science</a>
Manuscript Number:	Ms_JAMCS_129922
Title of the Manuscript:	Symmetry analysis, one-dimensional optimal system, and group invariant solutions for the shallow water waves of nite amplitude in (1 + 1)-dimensions
Type of the Article	Original Research Article

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	<b>The submitted manuscript need to be revised for better understanding so that scientific community can use it in extensive manner.</b>	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>Its all right.</b>	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	<b>Its all right.</b>	
<b>Is the manuscript scientifically, correct? Please write here.</b>	<b>Its all right.</b>	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	<b>Need to be revised.</b>	

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<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Its all right.</p>	
<p><u>Optional/General</u> comments</p>	<p>I believe that the paper presents some details and contains. I recommend the publication of the article after the following suggestions:</p> <ol style="list-style-type: none"><li>1. A professional proof-reading is required for the whole manuscript.</li><li>2. The authors should explain the limitations of this work in the introduction section.</li><li>3. The manuscript must be updated for adding elaborations with respect to considered model.</li><li>4. Check the correctness of equation (42) and (50).</li><li>5. Mention the arbitrary parameters/constants in each case.</li><li>6. Elaborate the optimal system of discussed vector fields.</li><li>7. No additional boundary or transmission conditions are taken into account, then it would be worth for the authors to pay attention to present that physical process with appropriate initial and/or boundary conditions, which is described by a particular solution.</li><li>8. Few of the obtained mathematical structure have very lengthy mathematics expressions, explain in physical sense with respect to considered model.</li><li>9. Rewrite the conclusion section for better representation.</li><li>10. Try to Find the solutions of reduced Odes in each case.</li><li>11. The literature review can be updated considering the following works: (a) Einstein's vacuum field equation: Painlevé analysis and Lie symmetries; (b) Painlevé analysis and invariant solutions of generalized fifth-order nonlinear integrable equation; (c) Kawahara equation and modified Kawahara equation with time dependent coefficients: symmetry analysis and generalized-expansion method; (d) New integrable Boussinesq equations of distinct dimensions with diverse variety of soliton solutions.</li></ol> <p>Final Decision: Author(s) have to clarify all above stated points.</p> <p>My recommendation -major revision!</p>	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

Name:	<b>Lakhveer Kaur</b>
Department, University & Country	<b>Jaypee Institute of Information Technology, India</b>