

Review Form 1.7

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_115215
Title of the Manuscript:	Application research of composite material pressure tank
Type of the Article	

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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)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> The results presented in the manuscript could be useful for the further development of deep-water vehicles with composite materials. No. Analysis of laminated composite based deep-water pressure tank Yes. Yes, some changes required and suggested in the revision. Yes, manuscript is scientifically correct. References were not enough (only 10 were cited). Recent work are suggested for advance composite. <p>Additional suggestions: This paper discussed the scope of composite materials in submersible deep-water vehicles. The presented results are well documented and nicely discussed. These results could be useful for the further development of deep-water vehicles with composite materials. However, Authors should address a few things mentioned below:</p> <ol style="list-style-type: none"> Citation should be provided for all the figures used in the manuscript. Please provide source/citation of Figures 1 – 8. The details of the material properties are missing. Add a table for the material properties. It is strange that you have read/cited only 10 papers for your research work. Curved fiber laminates are becoming popular to improve the buckling and vibrational characterises. A few of the recent work on curved fibers are provide below for the advance composite topics should be included to enrich the literature section: <p>(a) Stochastic frequency analysis of laminated composite plate with curvilinear fiber. <i>Mechanics of Advanced Materials and Structures</i>, 29(6), 933-948.; (b) Uncertainty quantification in buckling strength of variable stiffness laminated composite plate under thermal loading. <i>Composite Structures</i>, 275, 114486.; (c) Stochastic aeroelastic analysis of laminated composite plate with variable fiber spacing. <i>Journal of Composite Materials</i>, 55(30), 4527-4547.; (d) Active flutter suppression of damaged variable stiffness laminated composite rectangular plate with piezoelectric patches. <i>Mechanics of Advanced Materials and Structures</i>, 31(6), 1229-1249.; (e) Stochastic buckling response of variable fiber spacing composite plate under thermal environment. <i>Journal of Composite</i></p>	

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	<p><i>Materials</i>, 57(24), 3821-3839. (f) Uncertainty quantification in free vibration and aeroelastic response of variable angle tow laminated composite plate. <i>Journal of Composite Materials</i>, 57(17), 2645-2668. (g) Stochastic critical buckling speed analysis of rim-driven rotating composite plate using NURBS-based isogeometric approach and HSDT. <i>Mechanics Based Design of Structures and Machines</i>, 1-28.</p> <p>4. One of the most critical issues with the laminated composite structure is delamination, and probably that's why still its debatable to use laminated composite in submarine structures. You should add these points also in your manuscripts. Cite a few suggested articles which represent the delamination effect on the composite structures.</p> <ul style="list-style-type: none"> • Static and free vibration analyses and dynamic control of smart variable stiffness laminated composite plate with delamination. <i>Composite Structures</i>, 280, 114793. • Aeroelastic control of delaminated variable angle tow laminated composite plate using piezoelectric patches. <i>Journal of Composite Materials</i>, 56(29), 4375-4408. • Damage-induced buckling characteristics of thermally loaded variable angle tow laminated plates under uncertain environment. <i>European Journal of Mechanics-A/Solids</i>, 103, 105188. <p>5. In Table 3, what is rank meaning, is it defining the modes of buckling load? If so, 1st mode is considered as failure of the structures, then why till 6th mode is calculated. Is it important in submarine vehicles to calculate the higher modes? Explain.</p> <p>6. Curious to know about your Abaqus approach to solving submarine. Give some details of your Abaqus calculation, how the fluid pressure is imported within solver.</p> <p>7. The figures are cited using Figure/Fig/Fig. in the text. In technical writing, whatever you have used in the caption of the figure use the same (Fig.) in the text to cite the corresponding figure. Correct it throughout the manuscript.</p> <p>8. There are several typos' mistakes. Check the manuscript for typo and grammatical error.</p>	
<p><u>Minor</u> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Some typo and grammatical mistakes are there in the manuscript.</p>	
<p><u>Optional/General</u> comments</p>		

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PART 2:

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

Reviewer Details:

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