## Review Form 3

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| Journal Name: | **Journal of Scientific Research and Reports** |
| Manuscript Number: | **Ms_JSRR_124184** |
| Title of the Manuscript: | **Effects of Vertical and Slant Shear Reinforcement on the Strength of a Simply Supported Deep Beam** |
| Type of the Article | |

## Review Form 3

**PART 1: Review Comments**

| **Compulsory** REVISION comments | **Reviewer's comment** | **Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
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| **Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.** | I like the manuscript on the basis of efforts they made for practical based project.<br>But, there must be some facts we need to consider at this stage which will help to develop the research work. | |
| **Is the title of the article suitable?**<br>**(If not please suggest an alternative title)** | It is quite well, but we can make it more short with meaningful.<br>Here I eliminated the phrase "Simple Supported Beam" because Deep Beam is always resting on firm two supports or columns which act as simply supported.<br><br>1. Impact of Vertical and Diagonal Shear Reinforcement on the Structural Integrity of a Deep Beam | |
| **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.** | According to me, their present Abstract says that Use of Shear Reinforcement by 90 degree i.e., we say in practice the "conventional method" to tie up stirrups can achieve more Load than if we tie stirrups with some angle. They have described that how NOT To Tie Up Stirrups rather than mentioning about its spacing, and tie up at 90 degree. Because in actual On-site practice There is no such case which shows that Stirrups have tied up in Slanting / Tilted position as it will not gain Stability with strength. | |
| **Are subsections and structure of the manuscript appropriate?** | Sections and Sub sections are ok as per Main Headings point of view. | |
| **Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.** | Reagrding the manuscript , I came across some of the finest points that should be taken care before publishing , will mention as follows,<br>**1.** At sub section 3.3.3. Experimental Programme under they have mentioned that , " they used 10mm dia. Bars at both Top and Bottom of beam", as at actual in 3.1 under materials they mentions that they have , "reinforcing bars used were the hot-rolled high yield steel of diameters 10 mm and 12 mm respectively".<br>**2.** In 5.1 Conclusion, they directly concluded that, "the ultimate resisting load of the beam depends on the angle of inclination of the shear links," but as per practicality Beam Reinforcement + Concrete Grade and depth contributes most percentile for Beam Strength. And shear reinforcement protects Shear cracks and main role is holding the main reinforcement in proper place. | |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | References are focusing on Deep Beam cases and it's ok. | |

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| Minor REVISION comments<br><br>**Is the language/English quality of the article suitable for scholarly communications?** | Yes, the language utilized is basic English suitable for articles. | |
| **Optional/General** comments | 1. Practical work should focus on High Concrete Grade – M25- M 30 as Beam is Deep Beam as its depth is much more with loading rather than selecting M 20 as per manuscript.<br>2. Compression test should be carried out on $7^{th}$ and $28^{th}$ Day rather than [7, 14, 21, 28 as per manuscript.]<br>3. Reinforcement at top and bottom should me Minimum of 16mm and 20mm respectively with Stirrups of 10mm. As deep beam consist of heavy loads, Large Spans, and high depth, these factors are responsible for load resisting structure. | |

**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)* |
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| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* | |

**Reviewer Details:**

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| Name: | **Rohan S Shreshthi** |
| Department, University & Country | **Dr. D. Y. Patil College of Engineering and Technology, India** |