

## Review Form 1.7

Journal Name:	<a href="#">Journal of Engineering Research and Reports</a>
Manuscript Number:	Ms_JERR_98540
Title of the Manuscript:	<b>STRENGTH AND DEFORMATIONAL CHARACTERISTICS OF CONCRETE BEAMS REINFORCED WITH STEEL BARS LOCALLY PRODUCED FROM RECYCLED METAL SCRAP IN GHANA</b>
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:

(<https://www.journaljerr.com/index.php/JERR/editorial-policy> )

### **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)
<b>Compulsory REVISION</b> comments <b>1. Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript) <b>2. Is the title of the article suitable?</b> (If not please suggest an alternative title) <b>3. Is the abstract of the article comprehensive?</b> <b>4. Are subsections and structure of the manuscript appropriate?</b> <b>5. Do you think the manuscript is scientifically correct?</b> <b>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b> <b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b>	<ul style="list-style-type: none"> <li>Steel bars of nominal sizes; 12mm, 10mm, and 8mm – Wrong statement</li> <li>It is advised to include full form of FFL &amp; FAB</li> <li>Table 1 – For some bars, the Yield Strength is greater than the Ultimate Strength - Which is wrong</li> <li>Provide complete data about cement, FA, CA in 2.1 Materials</li> <li>2.2.1 – 1:2:4 is M15 grade, which not required to design. Give proper justification (As per IS456 Nominal mix concrete may be used for concrete of M 20 or lower)</li> <li>2.2.1 – Provide ratio of concrete mix</li> <li>2.2.2 – As per IS 516 The concrete shall be filled into the mould in layers approximately 5cm deep. If it a 15cm model – it should be 3 layers compaction. But u mentioned as “Concrete for each test specimen was cast in four layers” – Provide justification.</li> <li>In Fig 5 – It seems single point loading method was followed to test the beam. Explain why 2 point methods was not adopted.</li> <li>2.4 – It is not a standard method for casting</li> </ul>	
<b>Minor REVISION</b> comments <b>1. Is language/English quality of the article suitable for scholarly communications?</b>	<ul style="list-style-type: none"> <li>It was suggested that all figures retain an equal dimension.</li> <li>Justify why British codes have been followed instead of IS</li> <li>Sec 3 is not required. It is mentioning only the started formulas</li> </ul>	
<b>Optional/General</b> comments	Discussion about the results needs to be improved	

### **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)
<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:

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