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Structures
Title: Flexural behavior of monolith and hybrid concrete beams produced through the partial replacement of coarse aggregate with PET waste
Authors: Fakhruddin Fakhruddin; Rita Irmawaty; Rudy Djamaluddin

Dear Fakhruddin,

The PDF for your submission, "Flexural behavior of monolith and hybrid concrete beams produced through the partial replacement of coarse aggregate with PET waste" has now been built and is ready for your approval. Please view the submission before approving it, to be certain that it is free of any errors. If you have already approved the PDF of your submission, this e-mail can be ignored.

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Structures

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Editor handles STRUCTURES-D-21-03071

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Ms. Ref. No.: STRUCTURES-D-21-03071
Title: Flexural behavior of monolith and hybrid concrete beams produced through the partial replacement of coarse aggregate with PET waste
Structures

Dear Fakhruddin,

Your submission "Flexural behavior of monolith and hybrid concrete beams produced through the partial replacement of coarse aggregate with PET waste" will be handled by Associate Editor Diane Gardner, MEng, PhD.

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Thank you for submitting your work to this journal.

Kind regards,

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Structures

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11 Mei 2022 pukul 06.07

Ms. Ref. No.: STRUCTURES-D-21-03071
Title: Flexural behavior of monolith and hybrid concrete beams produced through the partial replacement of coarse aggregate with PET waste
Structures

Dear Dr. Fakhruddin Fakhruddin,

The reviews of your paper are now complete and I'm pleased to inform you that the consensus is that the paper is suitable for publication, subject to minor revisions which respond to the reviewer's comments. I am attaching the reviewers comments(included below). Please try to attend to these minor revisions within the next 45 days.

Please include with your submission a copy of the reviewers comments annotated with the corrections/changes you have made in response to them.. If you feel that a reviewer's comment does not warrant a revision, please prepare a reasoned rebuttal to their comment. In this case, please also review your text, as it is usually the case that a few small changes or brief additions will prevent other readers from reaching the same 'erroneous' conclusion. We look forward to receiving a revised manuscript from you

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Yours sincerely,

Diane Gardner, MEng, PhD
Associate Editor
Structures

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Reviewers' comments:

Reviewer #1: Journal: STRUCTURES
Manuscript ID: CLWAS-D-21-03071
* The researchers did not mention the properties and dimensions of the plastic waste flakes used or their dimensions, and the mechanical properties, density and other properties of these wastes were not examined.
* 10% of the coarse aggregate was replaced by PET waste flakes, while the sieved analysis of the coarse aggregate was not mentioned or that of the flakes. It was also necessary to mention the international specifications used for that analysis.
* There are some researches that dealt with the effect of adding plastic waste on the behavior of reinforced concrete beams, but they were not addressed in this research, such as:
Abdulkader Ismail Al-Hadithi, Mazin B. Abdulrahman and Mohammed Issa Saleh Al-Rawi, "Flexural Behaviour of Reinforced Concrete Beams Containing Waste Plastic Fibers", 4 th International Conference on Buildings, Construction and Environmental Engineering (BCEE4-2019), Istanbul, Turky, 7-10/10/2019.
Abdulkader Ismail Al-Hadithi, Mustafa Ahmed, "Innovative Technique of Using Carbon Fibre Reinforced Polymer Strips for Shear Reinforcement of Reinforced Concrete Beams with Waste Plastic Fibers. European Journal of Environmental and Civil Engineering 01/2019, DOI:10.1080/19648189.2018.1532820

Please add the researches above to your paper to strengthen it.

Reviewer #2: General comments

The flexural performance of reinforced concrete beams produced by partially replacing the coarse aggregates with polyethylene terephthalate (PET) shredded wastes is investigated. The analysis of load deflection behavior, cracking behavior, failure mode, stiffness, and ductility of the beam is conducted. The conclusions drew is intreresting in terms of the replacement of coarce aggregates with PET shredded wastes.

Specific comments

1.The PET waste used in the experiment was shredded using a shredding machine and the irregular shape was retained through the use of a No.4 (4.75 mm) sieve. If possible, the properties, such as the tensile strength, density, and the sizes of PET waste should be given.

2.The number and dimension of the full-scale beam need to be checked. The hight of the beam is 200mm in line 57, which is different from that in Fig.4. The number of the specimens in line 56 also needs checking.

3.PET concrete is cast after a minimum of 14 days when the conventional concrete layer is cast to ensure it has adequate mechanical strengths without experiencing a significant amount of drying shrinkage. Please explain the reason in details why it is 14 days. Moreover, this kind of casting procedure is not the same as that in the real engineering.

4.The identifier of beam specimens in Table 2 and 3 should be noted.

5.The sentence of "This means the concrete beam was not completely carried by the maximum load but also by relying on the reinforcement design's maximum tensile stress" in Line 32-33 should be checked or rewritten in order to be understood easily.

6.The few test on the beams with PET waste is conducted. The conclusion drew has to be verified by using more experimental results, which needs to be mentioned in the conclusion.

7. The language in the article shoule be revised carefully to make it more accuracy.

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Title: Flexural behavior of monolith and hybrid concrete beams produced through the partial replacement of coarse aggregate with PET waste
Structures

Dear Fakhruddin,

I am pleased to inform you that your paper "Flexural behavior of monolith and hybrid concrete beams produced through the partial replacement of coarse aggregate with PET waste" has been accepted for publication in Structures.

Your manuscript will soon be passed to the production department for further handling. They will be contacting you shortly providing full details regarding the processing of your paper, e.g., schedules, proofs, reprints, etc.

Below are comments from the editor and reviewers.

Thank you for submitting your work to Structures.

Yours sincerely,

Diane Gardner, MEng, PhD
Associate Editor
Structures

Comments from the editors and reviewers:

Reviewer #2: The manuscript has been revised according to the suggestions. My recommendation is to accept it.

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