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| Book Name: | [**Engineering Research: Perspectives on Recent Advances**](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5700** |
| Title of the Manuscript:  | **Effect on Fresh and Harden Properties by using Fly Ash and GGBS with Fibers of High Performance Self Compacting Concrete** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**IOP Conf. Series: Earth and Environmental Science, 822, 012010, 2021**

**DOI 10.1088/1755-1315/822/1/012010**

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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)* |
| **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.** | * Their incorporation in concrete reduces **carbon footprint** of concrete production.
* The synergy effect between **pozzolanic materials (fly ash and GGBS)** and **fibers** can lead to improved **mechanical strength, durability, and crack resistance**.
* Fly ash and GGBS are typically more economical than OPC, and fibers can enhance longevity, reducing maintenance and repair costs.
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| **Is the title of the article suitable?****(If not please suggest an alternative title)** | No.**Effect of Fly Ash and GGBS with Fibers on Fresh and Harden Properties of High Performance Self Compacting Concrete** |  |
| 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. | Following Changes have done in following Abstarct (almost whole abstact I have changed – so many grameticale and spelling mistakes are found):The study of supplementary cementations materials i.e. Fly ash and GGBS on Self Compacting High Performance Concrete is studied in this work. The High Performance Self-Compacting Concrete makes it suitable for placing it in difficult sections and conditions in members with congested reinforcement. The fresh and Harden properties of Special concrete - High Performance Self Compacting Concrete (HPSCC) studied in this work. The work studied has been focused on the Fly ash and GGBS effect with fibers on mix proportion and concrete in harden state. The Ultimate Strength - compression strength, Split Tensile Strength & Flexural Strength.with replacement of Polypropylene fibers range 0% -1.5% in 0.5 interval and with various percentage of fly Ash and GGBS combination and behavior of fiber under loading was found. The obtained values from this study are to be useful in determining design characteristics of HPSCC with fiber (polypropylene) sections. It gets helps the mix proportion, analysis and designing of specimens with high performance to resist various loading. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | * Please correct grammaticle mistakes in introduction, 4. Results and discussions and 5. Conlcusion.
* Make corrections and give more clearity in 3.1 Mix proportion and 3.2 Testing of specimens.
* Mention the values of strength in Figure-3: Compressive Strength testing Result of the Specimens, Figure 4. Split Tensile Strength testing Result of the Specimens and Figure 5. Flexural Strength testing Result of the Specimens.

Check the values for 40% and 60% replacement. As per my knowledge above 30% replacement, strength will decrease gradially. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | No refernces are not sufficient and all the references except IS Code are too old.Use reference above 2019. |  |
| Is the language/English quality of the article suitable for scholarly communications? | No, there are so many grammaticle mistakes are found out and already mentioned above |  |
| Optional/General comments | Check the mentioned results and grammaticle mistakes. |  |

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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  |  |  |

**Reviewer details:**

**Vikrantkumar Amrutlal Patel, Sankalchand Patel University, India**