

1. Proofread certificate (12-12-2019)
2. Confirmation of submission (24-12-2019)
3. Active Submissions (24-12-2019)
4. Review Major revision (30-12-2019)
5. Revision submitted (3-1-2020)
6. Amends (3-1-2020)
7. Revision received (9-1-2020)
8. Acceptance IRECE (10-1-2020)
9. Galleyproof and final (21-1-2020)



Nuroji <nuroji@lecturer.undip.ac.id>

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## [IRECE] Submission Acknowledgement

1 message

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**Editorial Staff** <editorialstaff@praiseworthyprize.com>  
To: nuroji@lecturer.undip.ac.id

Tue, Dec 24, 2019 at 7:49 AM

Nuroji:

Thank you for submitting your manuscript entitled "Section Enlargement Strengthening of Reinforced Concrete Beam by Using Self-Compacting Concrete" to our journal International Review of Civil Engineering (IRECE).

With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site:

Manuscript URL:

[https://www.praiseworthyprize.org/jsm/index.php?journal=irece&page=author&op=submission&path\[\]=18574](https://www.praiseworthyprize.org/jsm/index.php?journal=irece&page=author&op=submission&path[]=18574)

Username: nurojisan

and clicking on My Journals->Active submissions.

With this submission the review process starts.

According to the review procedures, your proposal will be sent to the Editor-in-Chief that, after evaluated the publication suitability of the paper, will indicate three reviewers for a full evaluation.

More info regarding the review process can be found at the following link:

<http://www.praiseworthyprize.org/jsm/index.php?journal=irece&page=about&op=editorialPolicies#peerReviewProcess>

If you have any questions, please don't hesitate to contact me. In all the correspondence please indicate in the subject of your e-mail the identification number of the paper that is Id 18574.

Thank you for considering this journal as a venue for your work.

Best regards,

Editorial Staff  
International Review of Civil Engineering (IRECE)

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18574	12-24	ART	Nuroji, Hung, Prasetya, Han	<a href="#">SECTION ENLARGEMENT STRENGTHENING OF REINFORCED CONCRETE...</a>

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Nuroji &lt;nuroji@lecturer.undip.ac.id&gt;

**[IRECE] Editor Decision**

1 message

**Editorial Staff** <editorialstaff@praiseworthyprize.org>  
To: nuroji@lecturer.undip.ac.id

Mon, Dec 30, 2019 at 4:35 PM

Dear Nuroji,

Manuscript ID 18574 entitled "Section Enlargement Strengthening of Reinforced Concrete Beam by Using Self-Compacting Concrete" which you submitted to our Journal "International Review of Civil Engineering (IRECE)" has been reviewed. The comments of the reviewer(s) are included at the bottom of this email.

The reviewer(s) have recommended a **MAJOR REVISION**.

This is an opportunity for you to respond to their major concerns and to incorporate improvements in the paper according to their suggestions. It is also an opportunity for you to add new results.

We normally only permit one major revision before an accept or reject decision is made. So please take the concerns of the reviewers seriously. Therefore, I invite you to respond to the reviewer(s)' comments and revise your manuscript within two weeks from the date of this email.

You should revise your manuscript using a word processing program and save it on your computer. Please also highlight the changes to your manuscript within the document by using the colored text in red.

Once the revised manuscript is prepared, you can upload it and submit it through your on-line submission system.

In order to expedite the processing of the revised manuscript, please be as specific as possible in your response to the reviewer(s).

If it is not possible for you to submit your revision in a reasonable amount of time, we may have to consider your paper as a new submission.

Once again, thank you for submitting your manuscript to our Journal and I look forward to receiving your revision.

Sincerely,

Dr. K. M. Liew, Editor-in-Chief of International Review of Civil Engineering (IRECE)

[kmliew@cityu.edu.hk](mailto:kmliew@cityu.edu.hk)

-----  
Reviewer Responses:

-----  
Reviewer A:

Do you think the content of this paper is appropriate for this journal?:

Yes

Originality::

3. Satisfactory

Contribution::

3. Satisfactory

References::

3. Satisfactory

Presentation style::

4. Unsatisfactory

Quality of language::

3. Satisfactory

Final result::

Accepted if improved

Suggestion for improving the paper::

- The paper misses modeling details.
- The titles of paragraphs should be inspired to those adopted in the template of the journal (Nomenclature, Introduction, etc.).
- Parts (b) and (c) of figures 7 should be enhanced to a high resolution level.
- Please increase the number of keywords in order to enhance the visibility and searchability of the manuscript in the website.

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Reviewer B:

Do you think the content of this paper is appropriate for this journal?:

Yes

Originality::

3. Satisfactory

Contribution::

3. Satisfactory

References::

4. Unsatisfactory

Presentation style::

4. Unsatisfactory

Quality of language::

4. Unsatisfactory

Final result::

Accepted if improved

Suggestion for improving the paper::

- The English needs more editing for grammatical errors and style.
- At the end of the Introduction add a paragraph on how the rest of the paper is organized and developed, typically a summary on the rest.
- The literature review needs to be expanded to the threshold of two journal pages based on 2017-2019 references. We strictly encourage the authors to visit our wide database of titles where they could search for references, at the page

<http://www.praiseworthyprize.org/jsm/index.php?journal=index&page=search>

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For any questions don't hesitate to contact us.

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Nuroji <nuroji@lecturer.undip.ac.id>

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## Section Enlargement Strengthening of Reinforced Concrete Beam by Using Self-Compacting Concrete

2 messages

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Nuroji <nuroji@lecturer.undip.ac.id> To:  
editorialstaff@praiseworthyprize.org

Fri, Jan 3, 2020 at 10:04 PM

Dear Editor,

We hereby send our description of amends, the proofreading certificate and the similarity scan for your information.  
On behalf of all authors

Nuroji


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**Praise Worthy Prize Editorial Staff** <praiseworthyprize@gmail.com>  
To: "Nuroji" <nuroji@lecturer.undip.ac.id>

Thu, Jan 9, 2020 at 4:32 PM

Dear Nuroji  
thank you for your e-mail.  
I confirm you that your revised version has been received and now it is under evaluation.  
Now our reviewers will check if all their recommendations have been satisfied  
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further with the publication of your paper.  
Best Regards

Angela Tafuro  
Head of the Editorial Staff

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[Quoted text hidden]



Respected Reviewers,

The authors express their gratitude for the given opportunity. We tried hard to fulfil the corrections and complete the paper in accordance to the input from the reviewers. The following actions have been taken, additionally we added the *Proofreading certificate* and similarity index by *Turnitin*. All additional text, adjustments and changes are highlighted in yellow.

<b><i>Reviewer 1</i></b>	
<i>Reviewers comments</i>	<i>Authors responses and amends</i>
The paper misses modeling details	The details and reasoning behind the model have been added in paragraph III for the section design, and in paragraph IV for the overall beam design and loading. The data has also been re-checked and corrected where applicable
The titles of paragraphs should be inspired to those adopted in the template of the journal (Nomenclature, Introduction, etc.).	The Paragraph titles have been adjusted in accordance to the template. The following changes were conducted: <i>Abbreviation</i> → <i>Nomenclature</i> <i>Background</i> → <i>Introduction</i>  The nomenclature has been improved by adding the properties' denotation of concrete and steel, and the reinforcing ratio $\rho$ . This notation was also added to Fig. 5a for clarity. The nomenclatures a and d were added to support the reasoning of overall dimension design. Figure 3 was corrected to support the text.
Please increase the number of keywords in order to enhance the visibility and searchability of the manuscript in the website	The keywords <i>Flexural member</i> , <i>Concrete beam</i> were added to the list. SCC has been changed to <i>self-compacting-concrete</i>
Parts (b) and (c) of figures 7 should be enhanced to a high resolution level.	The figures 7b and 7c have been replaced with better quality, higher resolution pictures. Additional information regarding the details on these pictures have been added.

<i>Reviewer 2</i>	
<i>Reviewers comments</i>	<i>Authors responses and amends</i>
The English needs more editing for grammatical errors and style	The paper has been sent to a professional proofreading agency, <a href="https://www.proof-reading-service.com/en/">https://www.proof-reading-service.com/en/</a> The certificate is attached.
At the end of the Introduction add a paragraph on how the rest of the paper is organized and developed, typically a summary on the rest.	The paragraph “ <i>Outline and Research Review</i> ” was added. This paragraph explains in brief the research work conducted, and the numerical analyses that were conducted based on the results.
The literature review needs to be expanded to the threshold of two journal pages based on 2017-2019 references. We strictly encourage the authors to visit our wide database of titles where they could search for references, at the page <a href="http://www.praiseworthyprize.org/jsm/index.php?journal=index&amp;page=search">http://www.praiseworthyprize.org/jsm/index.php?journal=index&amp;page=search</a>	The papers of <i>Bekkar (2016)</i> , and <i>Mattar (2015)</i> from the IRECE library have been added. The paper of <i>Slowik (2017)</i> from the IREHM library was added as well. The DOI of all articles have been corrected and completed using the Crossref DOI display serach engine 7 of 25 references were dated 2017-2020 9 of the 25 references were dated 2015-2016

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12 December 2019

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**Document title:** Section Enlargement Strengthening of Reinforced Concrete Beam by Using Self-Compacting Concrete

**Author(s):** Nuroji; Chung-Chan Hung; Blinka H. Prasetya; Aylie Han

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Nuroji <nuroji@lecturer.undip.ac.id>

## Section Enlargement Strengthening of Reinforced Concrete Beam by Using Self-Compacting Concrete

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To: "Nuroji" <nuroji@lecturer.undip.ac.id>

Thu, Jan 9, 2020 at 4:32 PM

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thank you for your e-mail.  
I confirm you that your revised version has been received and now it is under evaluation.  
Now our reviewers will check if all their recommendations have been satisfied  
If they consider the paper acceptable, in few days you will receive the acceptance with all the instructions to proceed further with the publication of your paper.  
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## [IRECE] Editor Decision

1 message

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**Editorial Staff** <editorialstaff@praiseworthyprize.org>  
To: nuroji@lecturer.undip.ac.id

Fri, Jan 10, 2020 at 3:32 PM

Dear dr. Nuroji:

It is my great pleasure to inform you that your paper ID 18574 "Section Enlargement Strengthening of Reinforced Concrete Beam by Using Self-Compacting Concrete" **has been accepted and will be published** on the International Review of Civil Engineering (IRECE).

If you want to publish the paper on the current issue of the Journal, please, accomplish the following requirements as soon as possible:

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Sincerely,

Dr. K. M. Liew, Editor-in-Chief of International Review of Civil Engineering (IRECE)

[kmliew@cityu.edu.hk](mailto:kmliew@cityu.edu.hk)



Nuroji <nuroji@lecturer.undip.ac.id>

**[IRECE] Editor Decision**

**Praise Worthy Prize Editorial Staff** <praiseworthyprize@gmail.com>  
To: Nuroji <nuroji@lecturer.undip.ac.id>

Tue, Jan 21, 2020 at 4:58 PM

Dear Dr. Nuroji  
thank you for your e-mail.  
I confirm you that I received all the needed and your paper has been included in the current issue of IRECE (May 2020).  
As soon as the issue will be ready you will receive the product you purchased.  
Best Regards

Angela Tafuro  
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Il giorno sab 18 gen 2020 alle ore 04:02 Nuroji <nuroji@lecturer.undip.ac.id> ha scritto:  
Dear Dr. Tafuro,

I herby include the revised version with the new title.

Thank you so much for all your support

Nuroji

Dr. Ir. Nuroji  
Associate Professor of Civil Engineering  
Diponegoro University  
Semarang-Indonesia

On Fri, Jan 17, 2020 at 6:42 PM Praise Worthy Prize Editorial Staff <praiseworthyprize@gmail.com> wrote:

Dear dr. Nuroji  
thank you for your e-mail.  
I confirm you that the suggested title is ok and I will modify it in the last accepted version.  
Please note that in this case I need again the copyright form with the correct title.

Best Regards

Angela Tafuro  
Head of the Editorial Staff

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Il giorno mar 14 gen 2020 alle ore 05:26 Nuroji <[nuroji@lecturer.undip.ac.id](mailto:nuroji@lecturer.undip.ac.id)> ha scritto:

Dear Prof. Liew  
Editor-in-Chief of International Review of Civil Engineering,

Thank you so much for all support, I hereby attach all the copyright documents.  
Will there a phase for camera-ready evaluation? I just had a good look at the title, and if possible, I would bit modify it since could be better.

I would suggest the title to be changed to "The behavior of Reinforced Concrete Members with Sec on Enlargement using Self-compacting Concrete"

But I leave the decision in your able hands

Regards,

Nuroji

Dr. Ir. Nuroji  
Associate Professor of Civil Engineering  
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## The Behavior of Reinforced Concrete Members with Section Enlargement Using Self-Compacting Concrete

Nuroji Nuroji<sup>(1\*)</sup>, Chung-Chan Hung<sup>(2)</sup>, Blinka Hermawan Prasetya<sup>(3)</sup>, Aylie Han<sup>(4)</sup>

- (1) Engineering Faculty, Diponegoro University, Indonesia
- (2) Department of Civil Engineering, National Cheng Kung University, Taiwan, R.O.C.
- (3) Diponegoro University, Indonesia
- (4) Diponegoro University, Indonesia
- (\*) *Corresponding author*

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## Abstract

This paper presents the experimental results of section enlargement effects on prismatic reinforced concrete members. 125 by 200 mm reinforced concrete members with a compressive strength of 20.3 MPa reinforced with D12 steel bars having a yield stress of 335 MPa situated in the tension and compression area, were produced. Two specimens were prepared, the first functioning as the control element and designated as the Control Beam (CB). The second strengthened with a section enlargement using Self-Compacting Concrete (SCC) marked as the Strengthened Beam (SB). The SCC had a 28-day compressive strength of 23.9 MPa. The dimensions of the enlarged beam were 200 by 300 mm. The two specimens CB and SB were tested with a two-point loading system. Based on the tests data, the load-displacement and moment-curvature relationships characterizing the beams were generated. From the results it was concluded that the enlargement affected the load-carrying capacity and stiffness positively. The SB member had a six times higher moment capacity, while the stiffness performance was enhanced seven times when compared to the CB specimen. On the other hand, it was also demonstrated that the ductility of the SB decreased as a

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consequence of the increase in span-to-depth ratio. The study was expanded based on the rational analyses to evaluate the influence of the additional tensile steel and concrete strength ratio of the enlarged section.

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## Keywords

Flexural Member; Concrete Beam; Section-Enlargement; Self-Compacting Concrete; External Strengthening

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