

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH: JURNAL ILMIAH

Judul Karya Ilmiah (Paper) : **The Measurement of the Local Slip in Bamboo-Reinforced Concrete Beams Using Moment-Curvature and Bond-Stress**

Jumlah Penulis : 1 Orang (1. Muhtar, 2., 3., 4.)

Status Pengusul : Penulis pertama / penulis ke-... / penulis korespondensi**

Identitas Jurnal/Prosiding : a. Nama Jurnal/ Prosiding : **Journal of Renewable Materials (JRM)**
b. ISSN/ISBN : **2164-6341**
c. Tahun Terbit, (tempat pelaksanaan jika prosiding) : 2021, [Vol.9, No.9](#)
d. Penerbit/Organiser : **Tech Science Press / [Scrivener Publishing, USA](#)**
e. Alamat repository PT/ Web : <http://repository.unmuhjember.ac.id/8743/>
f. Terindek di (jika ada) : **SCOPUS (Q3 SJR 0.33)**

Kategori Publikasi Artikel Ilmiah : Jurnal Internasional Bereputasi
(Beri pada kategori yang tepat) Jurnal Internasional
 Jurnal Nasional Terakreditasi
 Jurnal Nasional Tidak Terakreditasi
 Jurnal Nasional Terindeks DOAJ dll
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Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah (Isikan di kolom yang sesuai)					Nilai Akhir yang diperoleh
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Kelengkapan dan kesesuaian unsur isi jurnal (10%)	4					3
Ruang Lingkup dan kedalaman pembahasan (30%)	12					10
Kecukupan dan ketepatan data/informasi dan metodologi (30%)	12					10
Kelengkapan unsur dan kualitas penerbit (30%)	12					12
Total 100%	40					35
Kontribusi Pengusul (Penulis Pertama/ Anggota-Litawati)						100% x 35 = 35
Komentar Peer Review	<p>1. Tentang Kelengkapan dan kesesuaian unsur : <i>Lengkap dan sesuai unsur MPAD pada jurnal lingkup riset terkait dg perhitungan sipil lokal</i></p> <p>2. Tentang Ruang Lingkup dan kedalaman pembahasan : <i>di bandingkan PRC Analisa Mandalam eksposimen di validasi dengan perhitungan riset sebelumnya</i></p> <p>3. Kecukupan, Ketepatan data serta metodologi : <i>Referensi lengkap baik dari jurnal, metode pengharusan novelty hubungan bodi atas vs sip</i></p> <p>4. Kelengkapan unsur kualitas penerbit : <i>Sangat lengkap dg kualitas jurnal dg</i></p> <p>5. Indikasi Plagiasi : <i>Tidak ada Total Similarity 18%</i></p> <p>6. Kesesuaian bidang ilmu : <i>linier dan sangat sesuai dengan bidang ilmu penulis</i></p>					

Malang, 5 Maret 2021
 Reviewer 1

[Signature]
 (Prof. Dr. Ir. Sri Murni Dewi, MS.)
 NPK/NIP. 195112111981032001
 Unit kerja: Teknik Sipil UB Malang
 Jafung : Guru Besar
 Bidang Ilmu : Teknik Sipil

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH: JURNAL ILMIAH

Judul Karya Ilmiah (Paper) : **The Measurement of the Local Slip in Bamboo-Reinforced Concrete Beams Using Moment-Curvature and Bond-Stress**

Jumlah Penulis : 1 Orang (1. Muhtar, 2., 3., 4.)

Status Pengusul : Penulis pertama / penulis ke-... / penulis korespondensi**

Identifikasi Jurnal/Prosiding : a. Nama Jurnal/ Prosiding : Journal of Renewable Materials (JRM)

b. ISSN/ISBN : 2164-6341

c. Tahun Terbit, (tempat pelaksanaan jika prosiding) : 2021, [Vol.9, No.9](#)

d. Penerbit/Organiser : Tech Science Press / [Scrivener Publishing, USA](#)

e. Alamat repository PT/ Web : <http://repository.unmuhjember.ac.id/8743/>

f. Terindeks di (jika ada) : SCOPUS (Q3 SJR 0.33)

Kategori Publikasi Artikel Ilmiah : Jurnal Internasional Bereputasi
(Beri pada kategori yang tepat) Jurnal Internasional
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Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah (Isikan di kolom yang sesuai)					Nilai Akhir yang diperoleh
	Internasional Bereputasi	Internasional	Nasional Terakreditasi	Nasional Tidak Terakreditasi	Nasional Terindeks DOAJ dll	
Kelengkapan dan kesesuaian unsur isi jurnal (10%)	9					3
Ruang Lingkup dan kedalaman pembahasan (30%)	12					10
Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12					10
Kelengkapan unsur dan kualitas penerbit (30%)	12					12
Total 100%	90					35
Kontribusi Pengusul (Penulis Pertama/ Anggota Utama)						100% x 35 = 35
Komentar Peer Review	<p>1. Tentang Kelengkapan dan kesesuaian unsur : Sangat lengkap dan sesuai unsur (MRAO pada jurnal Lingkup riset terkait dg perhitungan slip pd</p> <p>2. Tentang Ruang Lingkup dan kedalaman pembahasan : babok BRC, analisa sangat mendalam, eksperimen dan validasi dg metode riset terdahulu</p> <p>3. Kecukupan, Kemutakhiran data serta metodologi : Referensi sangat relevan dari jurnal, metode meng- gunakan nobel ety berupa tab. 1 & slip (s)</p> <p>4. Kelengkapan unsur kualitas penerbit : Kualitas jurnal Q3. Selayan Penerbit Saugan, baik</p> <p>5. Indikasi Plagiasi : tidak ada total similarity 18,90</p> <p>6. Kesesuaian bidang ilmu : Sesuai bidang ilmu penulis (Teknik Sipil)</p>					

Malang, 5 Maret 2021
Reviewer 2

(Prof. Dr. Ir. Rudy Spenoko, M.Eng.Sc.)
NPK/NIP. 194909111984031001
Unit kerja : Teknik Mesin UB Malang
Jafung : Guru Besar
Bidang Ilmu : Teknik Mesin

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[jrm] ID:15441 Submission Acknowledgement > Kotak Masuk x

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Dear Muhtar - Muhtar,

Thank you for submitting the manuscript, "T The calculation of local slip in bamboo-reinforced concrete beams using moment-curvature and bond-stress" to Journal of Renewable Materials. 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.

Submission URL: <http://tpssubmission.com/index.php/jrm/authorDashboard/submission/15441>
Username: mmuhtar

If you have any questions, please contact me. Thank you for considering this journal as a venue for your work.

JRM Editorial

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Inggris ▾ > Indonesia ▾ [Terjemahkan pesan](#) Nonaktifkan untuk: Inggris x

Dear Muhtar - Muhtar,

The review of your submission to Journal of Renewable Materials, "The calculation of local slip in bamboo-reinforced concrete beams using moment-curvature and bond-stress".
ID: 15452

has been completed. Although we found that your paper has merit, it is not acceptable to publish in its present form. We invite you to revise your paper to address reviewers' comments as fully as possible. Please revise the manuscript according to the reviewers' comments and upload the revised file within **two weeks**.

When you submit your revision, please upload the following 3 files:

1. Your rebuttal;
2. Your revised paper with track change (**highlighted in yellow**);
3. Your clean revised paper.

Please find the reviewer's comments at the end of this message. Also, in track-change version, please have all the revised part highlighted in yellow in the text. When uploading your revision files, scrolling down the page, you will find a panel for Revisions. Use the **Revision Panel** to upload your revised manuscript.

Thank you very much for your contributions to Journal of Renewable Materials.

Sincerely,
JRM Editorial
Tech Science Press
jrm@techscience.com

Reviewer D:

General comments:

The calculation of local slip in bamboo-reinforced concrete beams using moment-curvature and bond-stress is presented in the paper. Author gives appropriate state of the art with citing to suitable papers. Author also provides details of the experiment and calculation process (based on [32]) and discuss obtained results.

In the conclusion author declares: "This calculation method can only be used to control and validate the model from experimental data. This method cannot be used for testing methods that aim to obtain the data needed for the model, because the input data is very dependent on experimental data." This is the weak point of the paper. Taking into account this conclusion the paper is more suitable for the conference than for the journal.

It could be useful to make sensitivity analysis of the model and point out which model parameters are crucial.

In the model the basic formula for calculating the bond-stress (μ) is based on the formula R. Park and T. Paulay 1975 [35] in Chapter 9 sub-chapter 9.1.3 Flexural Bond. How will change the results if bond-stress formula will be changed?

Although I have not many experiences with bamboo material I can imagine there will be the random character of materials parameters over the specimen. But there is just one reading of the elongation of bamboo reinforcement through the strain gauge in the specimen. How can it influence the results?

How many experiments of 4PB of BRC beams were done?

Technical comments:

Fig. 1 and 4: Measuring of deflection using LVDT is not suitable by this approach. It will be influenced by deformation of the concrete over the supports.

Fig. 2: Text in the Figure 2 is very difficult to read.

Fig. 4: There is different using of (a), (b), (c), (d), (e) in the picture and in the description under the picture.

There is no explanation for the symbol SRC in the paper incl. list of symbols. Most probably it means steel reinforced concrete, but it should be added to the paper.

Conclusion (5) *Excel program in this method can be used to calculate the moment of curvature of the beam section in general* is not suitable conclusion for the scientific paper. Such a conclusion can be used for a lot of engineering tasks, also there is much more tools than Excel program to do that.

Reviewer K:

This paper presents a method of calculating local slip in bamboo-reinforced concrete beams. This paper belongs to the scope of the journal and it is well presented. The following comments should be addressed before its final acceptance.

1. In the point the of the reviewer, the method mentioned in the paper is just a measuring method rather than a calculating method since the determination of the local slip is dependent on the experimental results. In other words, the method in the paper is a *data processing method*. In this consideration, the title of the paper is improper.
2. Grammar error: "In conclusion write that...", it is lack of subject in this sentence. Please proofread the manuscript.
3. Introduction: the advantages of the BRC beam is not explained clearly.
4. Introduction: the limitation of the present study should be concluded and pointed out to indicate the meaning of this paper.
5. Figure 9: it is suggested to *magnify the figure locally to point out the first crack clearly*.

Editor's Comments:

Please revise your format according to the format template of JRM: http://www.techscience.com/jrm/info/auth_instru

Response to Reviewer D Comments

General comments:

The calculation of local slip in bamboo-reinforced concrete beams using moment-curvature and bond-stress is presented in the paper. Author gives appropriate state of the art with citing to suitable papers. Author also provides details of the experiment and calculation process (based on [32]) and discuss obtained results.

Thank you very much for your comments, criticisms, and suggestions on this paper.

In the conclusion author declares: “This calculation method can only be used to control and validate the model from experimental data. This method cannot be used for testing methods that aim to obtain the data needed for the model, because the input data is very dependent on experimental data.” This is the weak point of the paper. Taking into account this conclusion the paper is more suitable for the conference than for the journal.

It could be useful to make sensitivity analysis of the model and point out which model parameters are crucial.

This calculation method is useful for controlling, validating, and sensitivity analysis of the relationship model of bond-stress vs. slip from the experimental results, especially the local slip value at certain observation points consisting of concrete elongation and reinforcement elongation.

This is already written in the conclusion paragraph 2

In the model the basic formula for calculating the bond-stress (u) is based on the formula R. Park and T. Paulay 1975 [35] in Chapter 9 sub-chapter 9.1.3 Flexural Bond. How will change the results if bond-stress formula will be changed?

The bond-stress from the experimental result that calculated using the formula from R. Park and T. Paulay 1975 [35] was not changed, while the result of the calculation of the bond-stress based on the curvature moment was used as control and validation of the bond-stress from the experimental result.

Although I have not many experiences with bamboo material, I can imagine there will be the random character of materials parameters over the specimen. But there is just one reading of the elongation of bamboo reinforcement through the strain gauge in the specimen. How can it influence the results? How many experiments of 4PB of BRC beams were done?

There are 16 specimens of BRC beams, consisting of 4 variations of the area of bamboo reinforcement, namely 100 mm², 140 mm², 200 mm², and 450 mm². The BRC beam specimen has 2 strain gauges installed on the bamboo reinforcement to detect the elongation of the bamboo reinforcement as shown in Figure 1. 2 pieces of strain gauge are installed on the bamboo reinforcement in the middle of the span as shown in Fig. 2.

This is already written in item 1 Introduction, paragraph 7. The author is of the opinion that the number of 16 test objects is sufficient to influence the variables in statistical analysis.

Technical comments:

Point 1: “Fig. 1 and 4: Measuring of deflection using LVDT is not suitable by this approach. It will be influenced by deformation of the concrete over the supports.”

We have corrected Fig. 1 to match Fig. 4 in this paper as shown below:

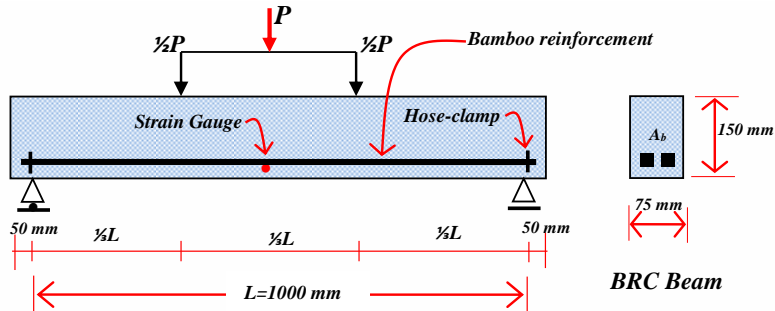


Figure 1: Detail and geometry of the bamboo reinforced concrete beam

Point 2: “Fig. 2: Text in the Figure 2 is very difficult to read.”

We have corrected Figure 2 in this paper as shown below:

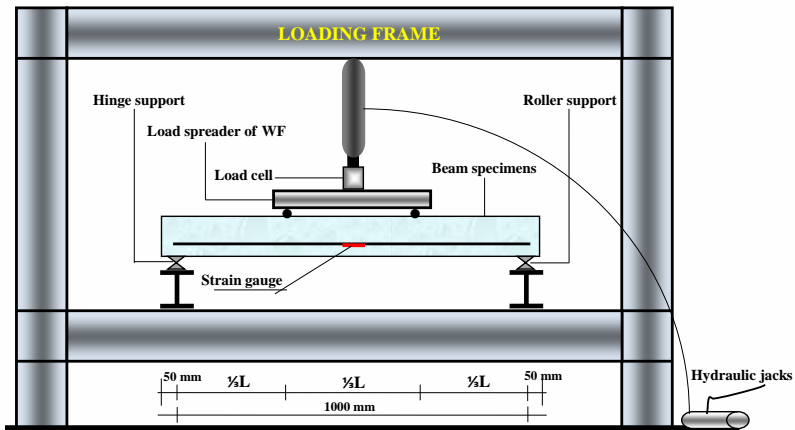


Figure 2: Flexural test settings for the four-point flexural test method [33]

Point 3: “Fig. 4: There is different using of (a), (b), (c), (d), (e) in the picture and in the description under the picture.”

Fig. 4 and its description have been revised as below:

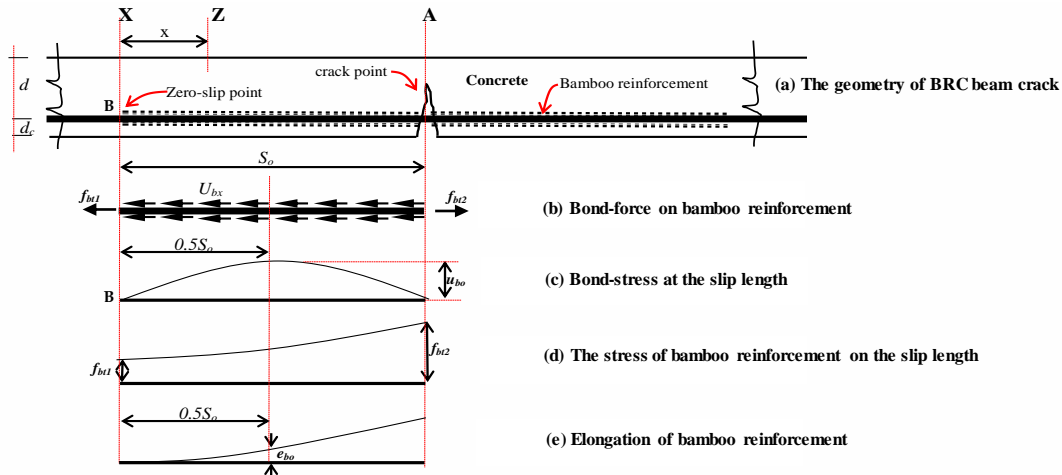


Figure 4: The initial flexural cracks on the BRC beam; (a) the geometry of BRC beam crack; (b) bond force on bamboo reinforcement; (c) bond-stress at slip length; (d) Stress of bamboo reinforcement at slip length; (e) Elongation of bamboo reinforcement [32]

There is no explanation for the symbol SRC in the paper incl. list of symbols. Most probably it means steel reinforced concrete, but it should be added to the paper.

The SRC description has been entered on the symbol list.

SRC = Steel Reinforced Concrete

Conclusion (5) *Excel program in this method can be used to calculate the moment of curvature of the beam section in general* is not suitable conclusion for the scientific paper. Such a conclusion can be used for a lot of engineering tasks, also there is much more tools than Excel program to do that.

That's right, a very simple conclusion and not suitable for a journal. In this case, the author decides to delete the conclusion (5)

Response to Reviewer K Comments

This paper presents a method of calculating local slip in bamboo-reinforced concrete beams. This paper belongs to the scope of the journal and it is well presented. The following *comments* should be addressed before its final acceptance.

Thank you very much for your comments, criticisms, and suggestions on this paper.

Point 1: "In the point the of the reviewer, the method mentioned in the paper is just a measuring method rather than a calculating method since the determination of the local slip is dependent

on the experimental results. In other words, the method in the paper is a *data processing method*. In this consideration, the title of the paper is improper.”

Thanks for the correction, based on these suggestions, the authors decided to change the title of the paper to:

“The measurement of the local slip in bamboo-reinforced concrete beams using moment-curvature and bond-stress”

Point 2: “Grammar error: “In conclusion write that...”, it is lack of subject in this sentence. Please proofread the manuscript”

The sentence has been corrected to:

They concluded that the initial bond stiffness of the micro-slip segment increases with increasing vertical compressive stress, and the ultimate bond stress increases significantly.

This is already written in item 1 Introduction, paragraph 7

Point 3: “Introduction: the advantages of the BRC beam is not explained clearly.”

Some of the advantages of BRC beams include: (1) BRC beam has high elastic properties which can absorb energy after the ultimate load of 33 kN [3]. After the ultimate load is released, the beam returns to flatness or deflection tends to return to zero as shown in the video on the following link: <https://goo.gl/6AVWmP> [3,4]; (2) BRC beams are one of the construction elements with low-cost, renewable materials, reduce environmental pollution, easy to get, and bamboo is very abundant in tropical and subtropical areas around the world [5].

This is already written in item 1 Introduction, paragraph 4

Point 4: “Introduction: the limitation of the present study should be concluded and pointed out to indicate the meaning of this paper”

The limitation of measurement and local slip analysis in this study was carried out at predetermined observation points, namely at the time of the initial crack, the second crack, the third crack, and until the crack at the ultimate load.

This is already written in item 1 Introduction, paragraph 9

Point 5: "Figure 9: it is suggested to *magnify the figure locally to point out the first crack clearly.*"

Figure 9 have been revised as below:

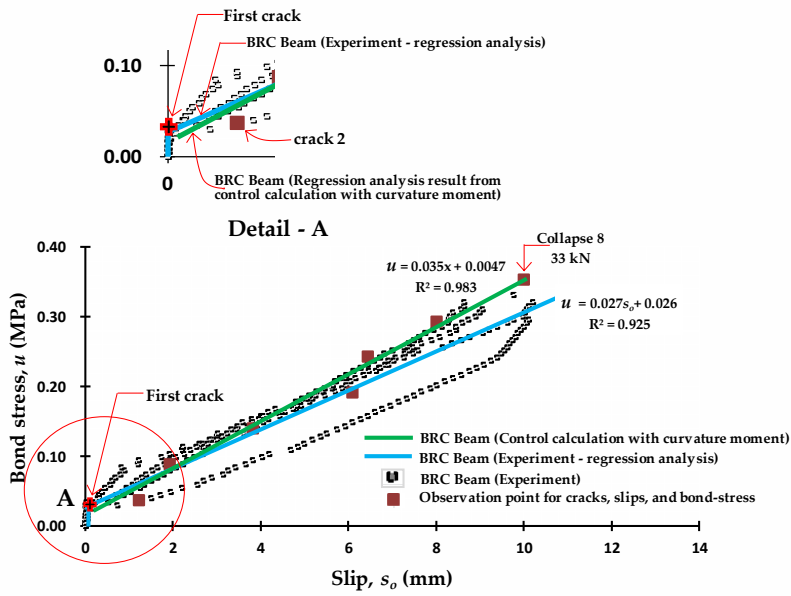
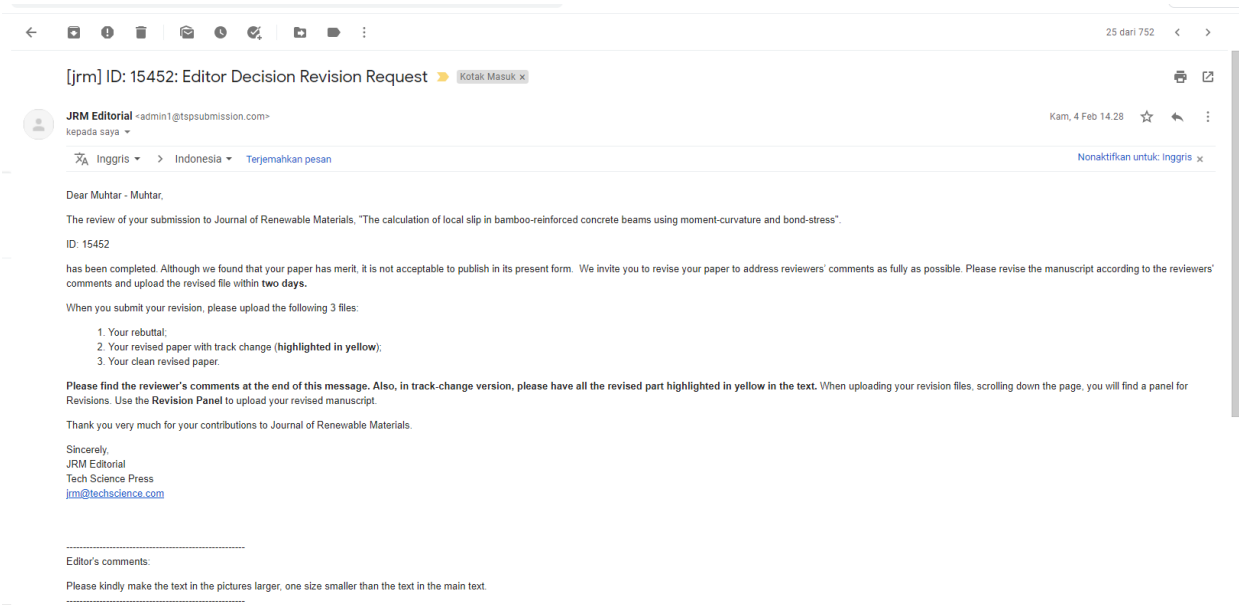


Figure 9: The relationship comparison of bond stress vs. slip from the calculation results of the curvature moment and experiment



Response to Editor's comments:

comments:

Please kindly make the text in the pictures larger, one size smaller than the text in the main text.

Thank you very much for your comments, criticisms, and suggestions on this paper.

Previous Figure 2:

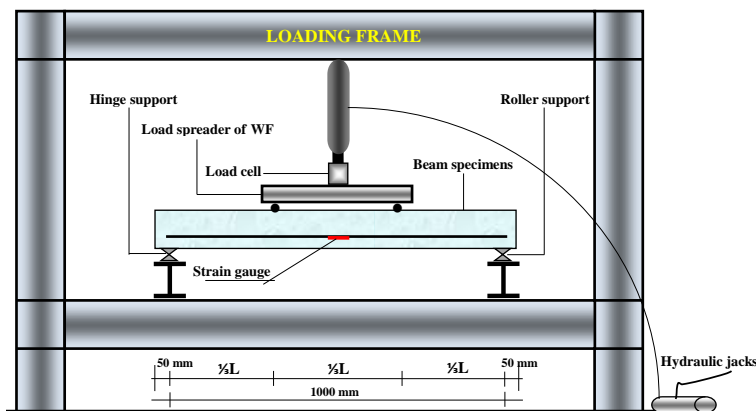
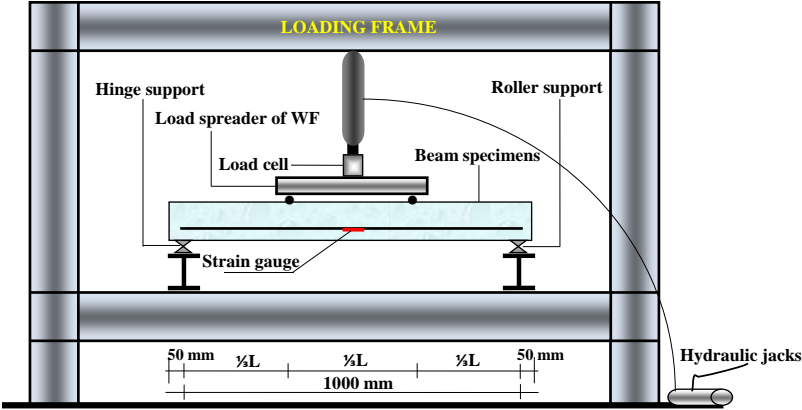


Figure 2 becomes:



Previous Figure 4:

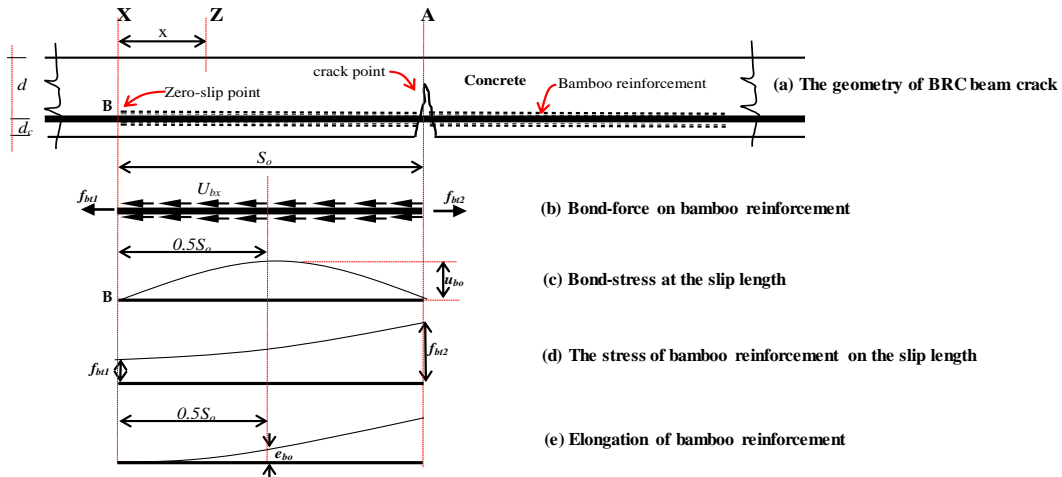
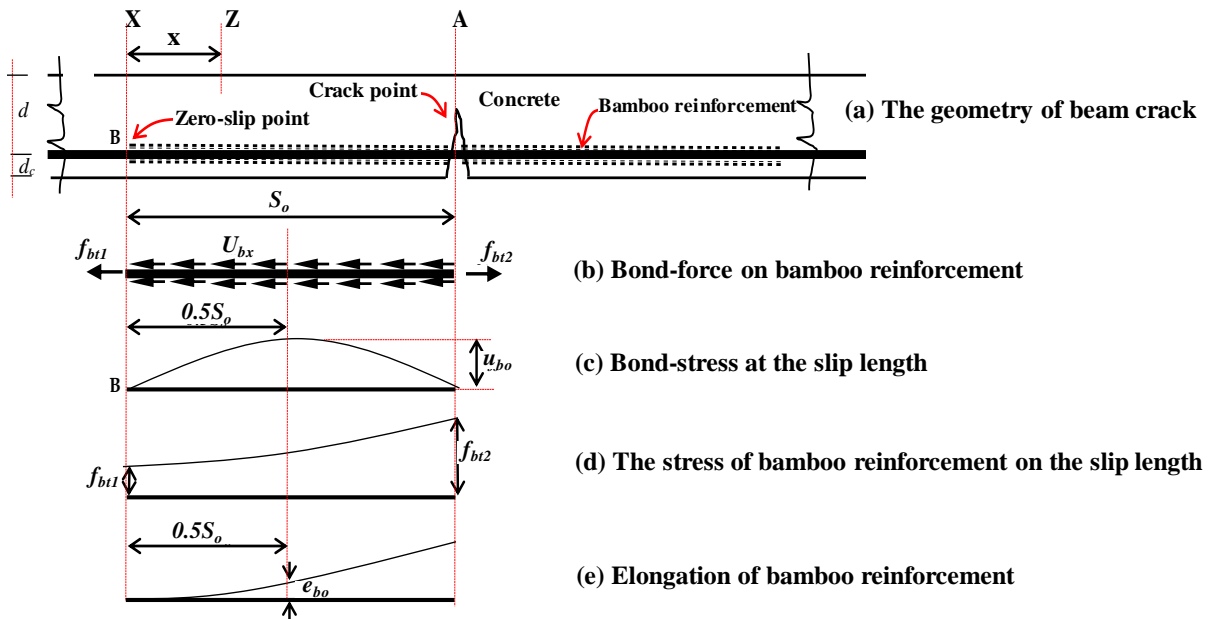


Figure 4 becomes:



Previous Figure 5:

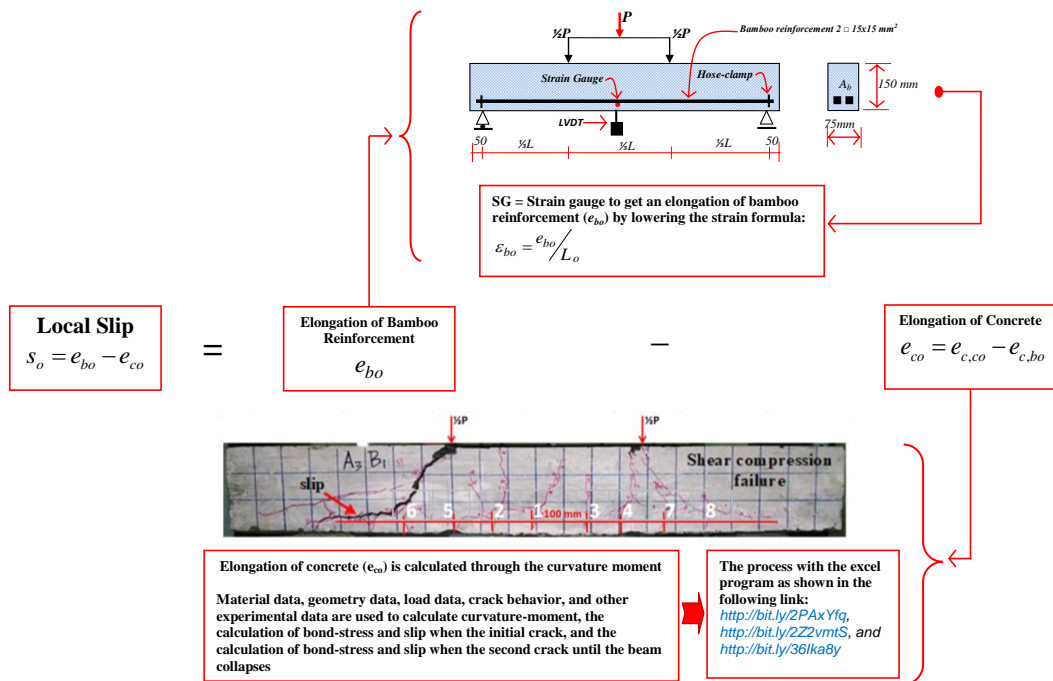
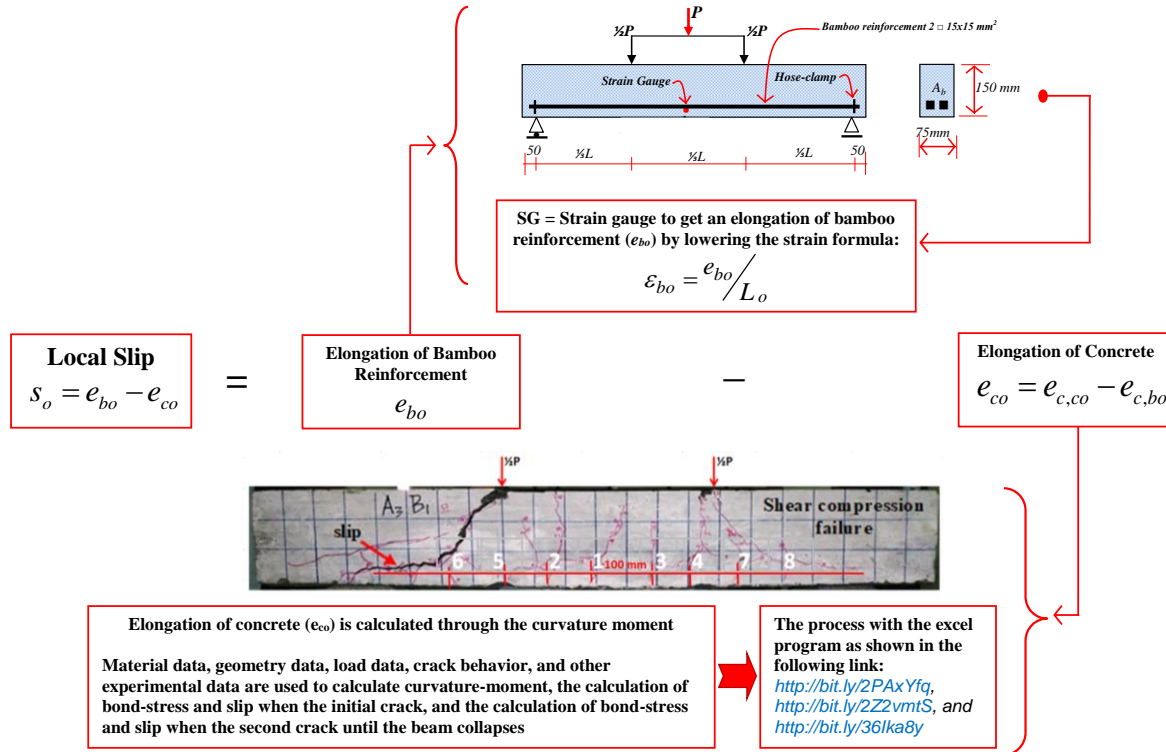


Figure 5 becomes:



Previous Figure 7:

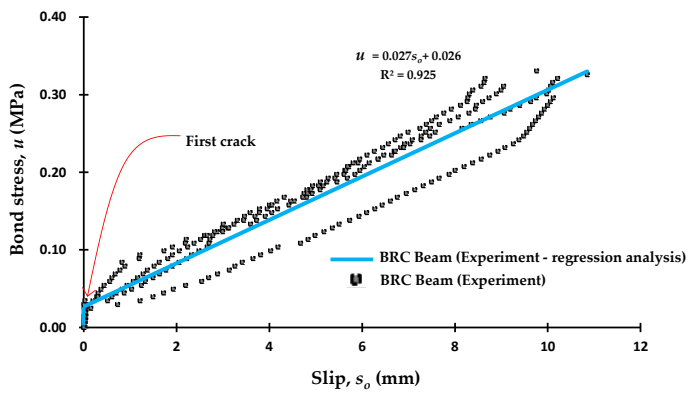
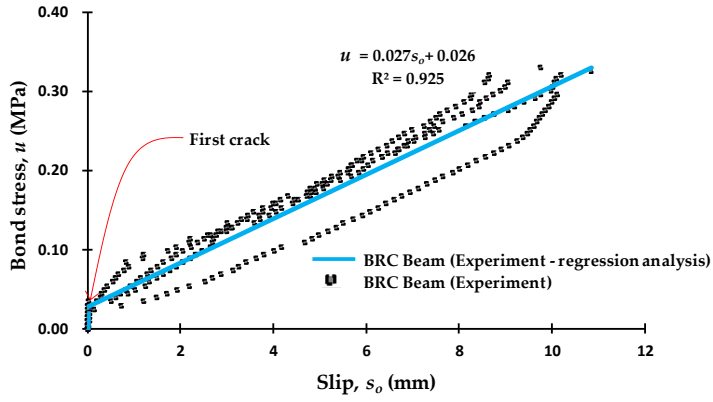


Figure 7 becomes:



Previous Figure 8:

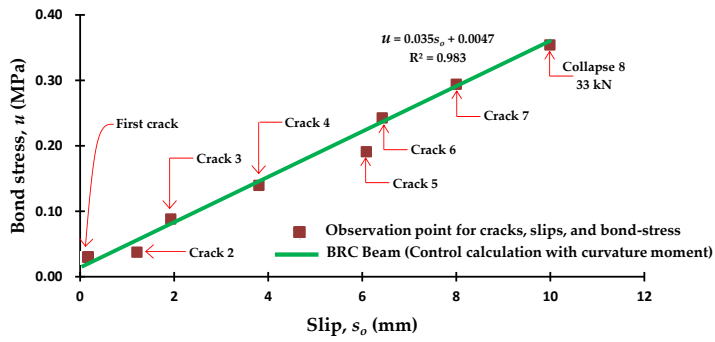
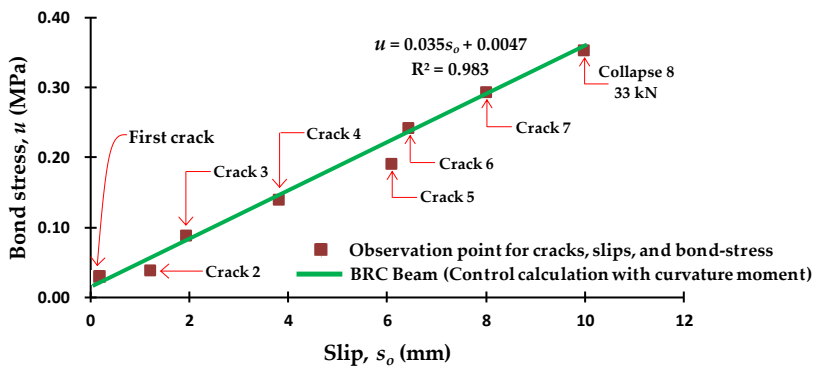


Figure 8 becomes:



Previous Figure 9:

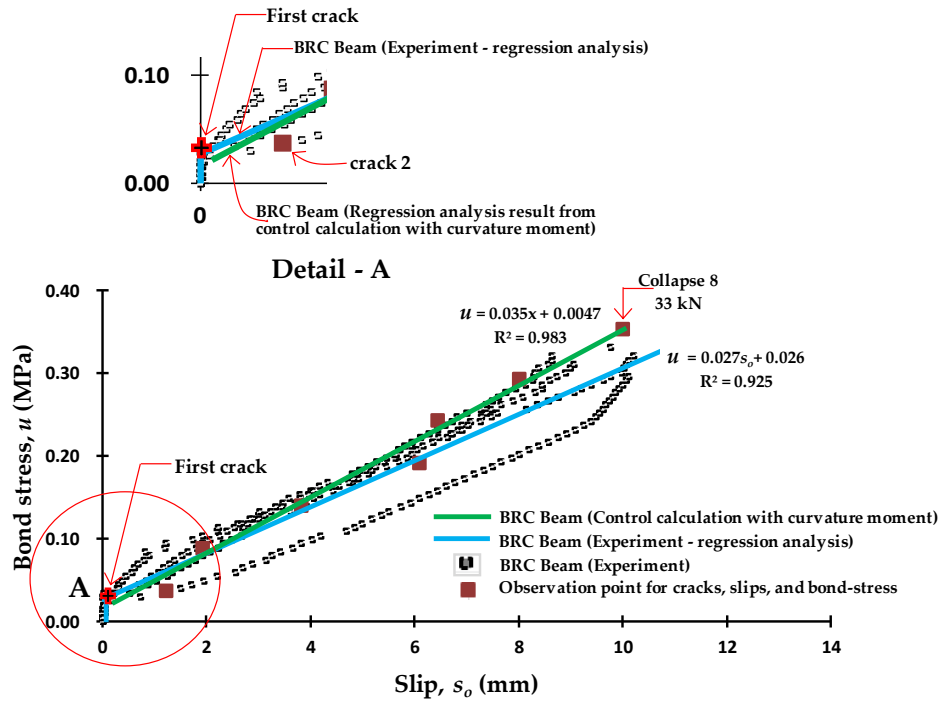
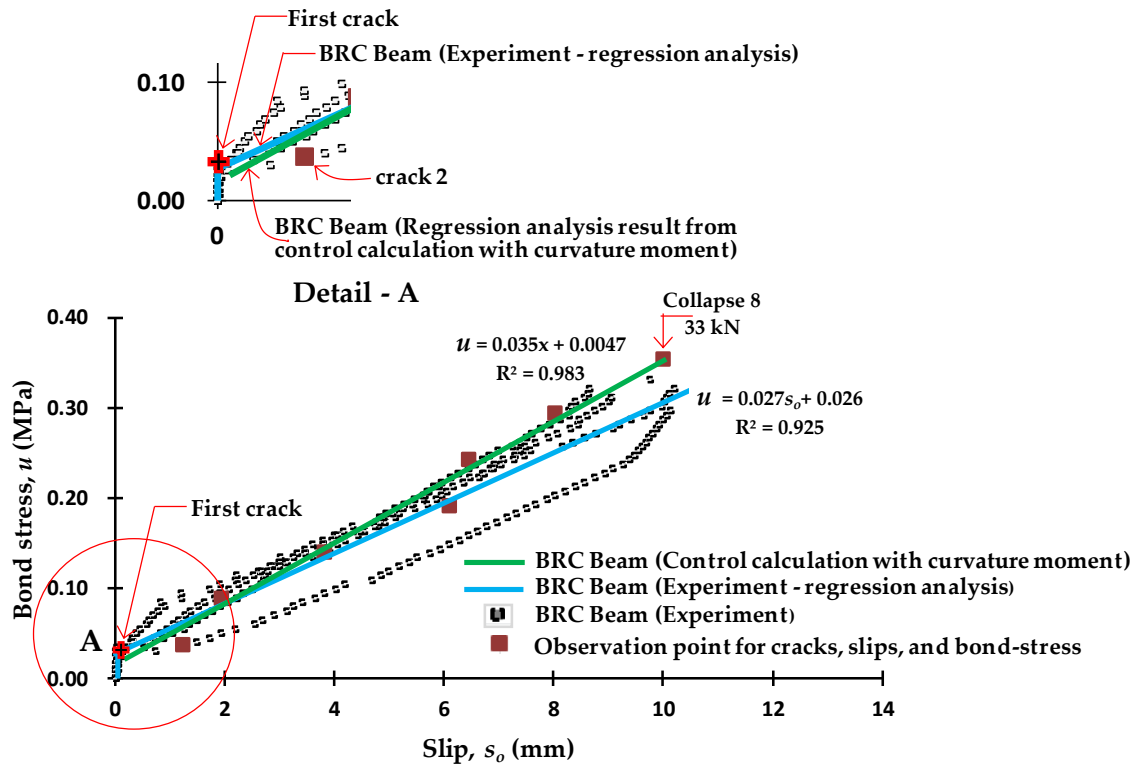


Figure 9 becomes:



Previous Figure 10:

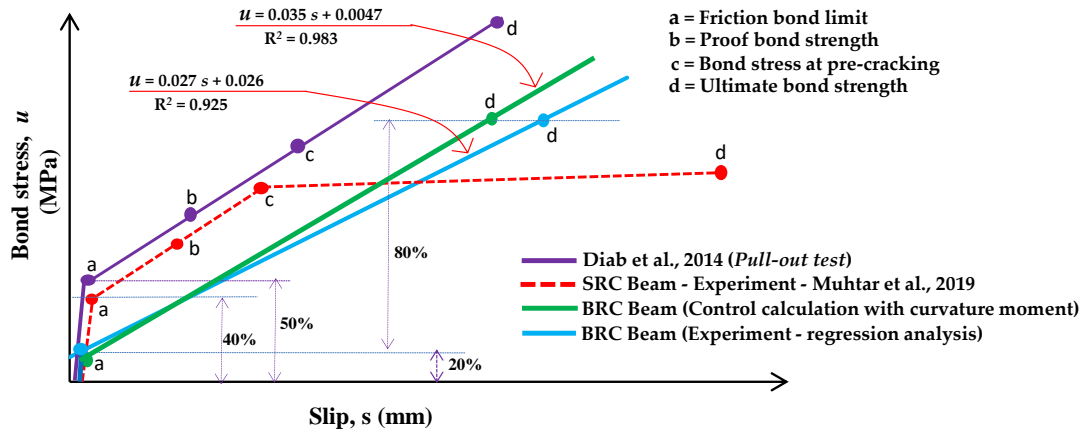
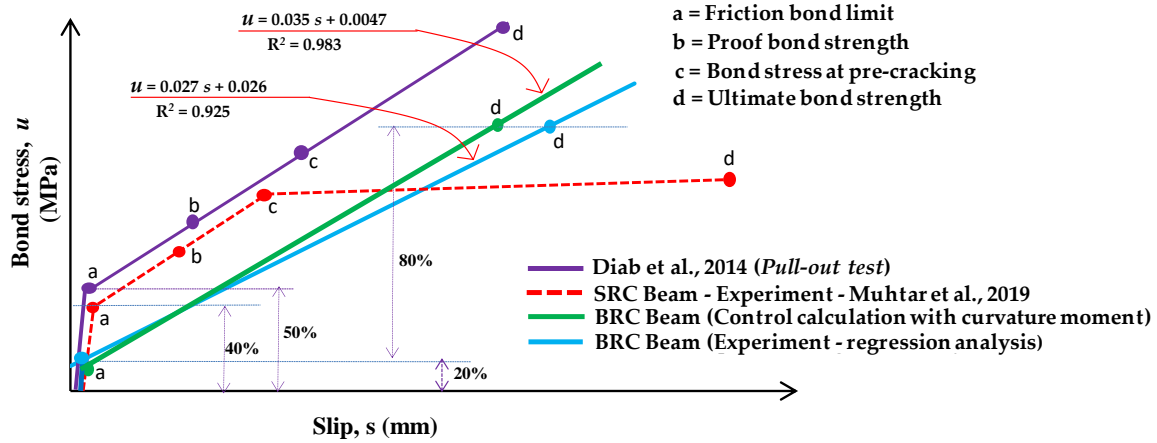
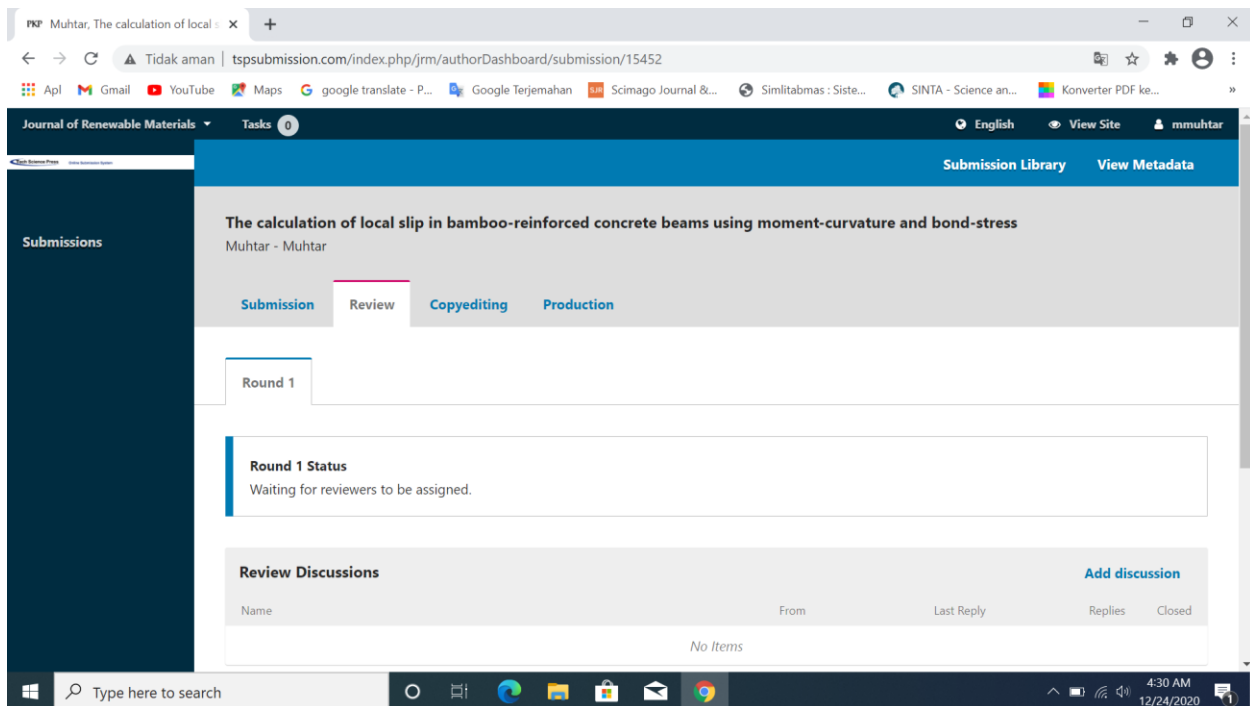
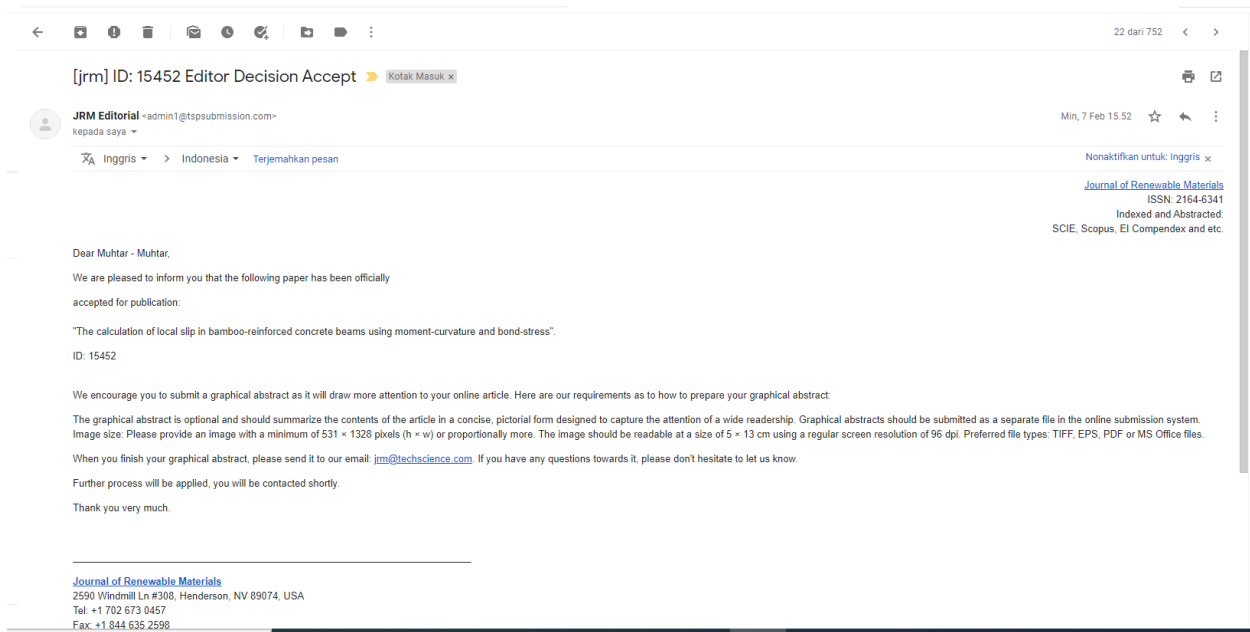


Figure 10 becomes:





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Round 1 | Round 2

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Round 1 | Round 2

Round 2 Status
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Notifications

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[jrm] ID: 15452: Editor Decision Revision Request	2021-02-04 10:28 PM

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The calculation of local slip in bamboo-reinforced concrete beams using moment-curvature and bond-stress

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Submission **Review** Copyediting Production

Round 1 Round 2

Round 2 Status
Revisions have been submitted.

Notifications

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PKP Muhtar, The calculation of local ... x +

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The calculation of local slip in bamboo-reinforced concrete beams using moment-curvature and bond-stress

Muhtar - Muhtar

Submission Review **Copyediting** Production

Round 1 Round 2

Round 2 Status
Submission accepted.

Notifications

[jrm] ID: 15452: Editor Decision Revision Request	2021-01-15 06:53 PM
[jrm] ID: 15452: Editor Decision Revision Request	2021-02-04 10:28 PM
[jrm] ID: 15452 Editor Decision Accept	2021-02-07 11:52 PM

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JRM-15452-A few questions ▶ Kotak Masuk ✕



jrm@techscience.com lewat yahoo.com
kepada saya, typesetting ▾

Dear Prof. Muhtar,

I'm writing this mail to you to confirm a few questions:

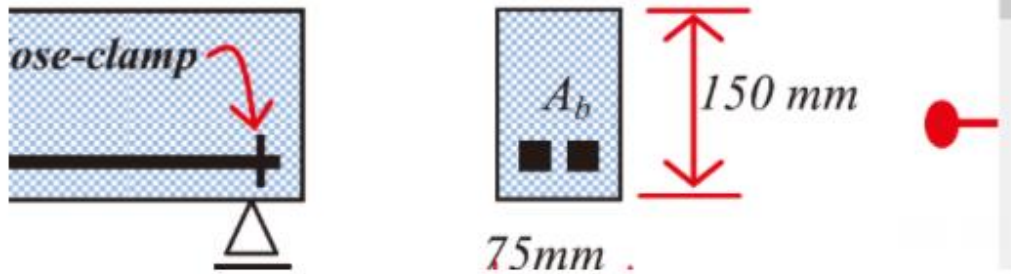
-What do the empty squares mean in Table 1 and Figure 5? Do we need to reserve or delete or replace them with other letters?

Table 1: Material properties of bamboo reinforcement and concrete^{1,2}

Bar type and concrete ^{1,2}	Reinforcement size, a^2 (mm) ^{1,2}	Modulus of elasticity (E), MPa ^{1,2}	Tensile strength, (MPa) ^{1,2}	Compressive strength, f_c' (MPa) ^{1,2}	Poisson's ratio (ν) ^{1,2}
Petung Bamboo (<i>Dendrocalamus asper</i>) ^{1,2}	15×15 ^{1,2}	17235.74 ^{1,2}	126.68 ^{1,2}	^{1,2}	0.25 ^{1,2}
Concrete ^{1,2}	^{1,2}	26324.79 ^{1,2}	^{1,2}	31.31 ^{1,2}	0.20 ^{1,2}

^{1,2} There are 16 specimens of BRC beams, consisting of 4 variations of the area of bamboo reinforcement, namely 100 mm², 140 mm², 200 mm², and 450 mm². The BRC beam specimen has 2 strain gauges installed on the bamboo reinforcement to detect the elongation of the bamboo reinforcement as shown in Figs. 1 and

Bamboo reinforcement 2 15×15 mm²



-Please kindly provide a new Figure 5 with "x" replaced by multiplication sign and the issue of empty square settled;

-Please kindly check that Acknowledge part in the PDF attached to this mail is correct.

Please kindly let me know if you have any questions. Thank you.

Best regards,

Jasmine Yang

JRM-15452 Assistant Editor