



SUPANDI STTNAS &lt;supandi@sttnas.ac.id&gt;

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## Publication JESTEC Supandi

2 messages

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**SUPANDI STTNAS** <supandi@sttnas.ac.id>

Fri, Nov 20, 2020 at 3:29 PM

To: Jestec@taylors.edu.my

Cc: SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

Dear Editor,

I would like to submit my paper to published in the Journal of Engineering Science and technology. Attached five documents are required for publication.

1. Manuscript on docx format.
2. Copyright transfer form (CRTF)
3. CV Author
4. Similarity Report - 8%
5. PPR file

I confirm that this article is new, original, and has not been published. elsewhere or is it currently under consideration for publication elsewhere.

Thanks for your attention and cooperation.

Warm regards

Supandi

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### 5 attachments

**PPR Author Supandi.xlsx**

25K

**Copyright transfer ver 190818.pdf**

221K

**Manuscript Journal of Engineering Sciences and Technology Supandi.docx**

2340K

**Similarity Check Journal of Engineering Sciences and Technology Supandi (2).pdf**

2711K

**Supandi CV.pdf**

2248K

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**Jestec** <Jestec@taylors.edu.my>

Sat, Nov 21, 2020 at 12:06 PM

To: SUPANDI STTNAS &lt;supandi@sttnas.ac.id&gt;

Cc: SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

Dear Author

Thank you for your interest to publish in our journal.

We confirmed that we received your email.

We will check your submission and will reply you soon.

Thank you for your patience.

Best Regards

JESTEC Editor

<http://jestec.taylors.edu.my>

[Quoted text hidden]



SUPANDI STTNAS &lt;supandi@sttnas.ac.id&gt;

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## Publication Supandi Undercutting Mine

2 messages

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**SUPANDI STTNAS** <supandi@itny.ac.id>

Wed, Dec 2, 2020 at 4:07 PM

To: Jestec &lt;Jestec@taylors.edu.my&gt;

Cc: SUPANDI STTNAS &lt;supandi@sttnas.ac.id&gt;

Dear Editor,

I would like to submit my paper to published in the Journal of Engineering Science and technology. Attached five documents are required for publication.

1. Manuscript on docx format.
2. Copyright transfer form (CRTF)
3. CV Author
4. Similarity Report - 12%
5. PPR file

I confirm that this article is new, original, and has not been published. elsewhere or is it currently under consideration for publication elsewhere.

Thanks for your attention and cooperation.

Warm regards

Supandi

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### 5 attachments

**PPR Author Supandi.xlsx**

25K

**Copyright transfer ver 190818.pdf**

221K

**[JESTEC] Undercutting Mining Turnitin.pdf**

2372K

**Supandi CV.pdf**

2248K

**[JESTEC] Undercutting Mining, Why Not Supandi1.docx**

1776K

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**SUPANDI STTNAS** <supandi@itny.ac.id>

Thu, Dec 10, 2020 at 9:33 AM

To: Jestec &lt;Jestec@taylors.edu.my&gt;

Cc: SUPANDI STTNAS &lt;supandi@sttnas.ac.id&gt;

Dear Editor,

Could you give confirmation that my submission has been well received?

Thank you

Warm regards

Supandi

[Quoted text hidden]



SUPANDI STTNAS &lt;supandi@sttnas.ac.id&gt;

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**JESTEC Publication Fees (2021) - Invoice No. 3754/21 (Ref. No. 22\_089)**

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Jestec &lt;Jestec@taylors.edu.my&gt;

Thu, Jul 29, 2021 at 6:01 AM

To: SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;, "supandi@sttnas.ac.id" &lt;supandi@sttnas.ac.id&gt;

Cc: Vidya Ramalingam &lt;Vidya.Ramalingam@taylors.edu.my&gt;

Dear Author,

Greetings

Kindly, refer to the attached official tax invoice and do update us once you made the payment.

Important note:-

**Please ensure that the net amount we receive must be US\$318 (US Dollars) or equivalent to MYR1340 (Malaysian Ringgits) regardless of the foreign exchange rate and money transfer charges**

Also, please take note of the following:

- The payment is due, as stated in the attached invoice.
- The journal reserves the right to charge interest on overdue accounts.
- Any discrepancies, please notify within seven days; otherwise, entries shall be treated as correct.
- The only payment method is via Telegraphic Transfer (outside Malaysia) or Online Transfer (inside Malaysia).
- The banking details are provided in the attached invoice.
- **The journal will not accept any bank charges associated with the transfer of money or currency exchange charges.**  
**Authors should bear all these charges.**

Thank you.

Best Regards

JESTEC Editor

<http://jestec.taylors.edu.my>

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 **22\_089 IN000003754.pdf**  
42K



SUPANDI STTNAS &lt;supandi@sttnas.ac.id&gt;

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**Your paper to publish in Volume 17 Issue 3/follow-up/**

1 message

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**Jestec** <Jestec@taylors.edu.my>

Fri, Apr 29, 2022 at 8:10 AM

Dear Corresponding Authors

Thank you for the confirmation.

During the coming days, you may expect an email to correct your papers if issues are found.

At the moment your paper titles with authors' names are now available online but the content remains inaccessible until we finalise the camera-ready of the online version of your papers.

Also, notice that the order of the papers as appear are random and not final, also there is no page numbers.

Meanwhile, we kindly request you to check the title of your paper and the authors' names using this link <http://jestec.taylors.edu.my/V17Issue3.htm>**Note:-**

- 1. If you did not find any mistake, please do not reply to this email.**
- 2. if any mistakes are found, only corresponding authors to immediately inform us.**

Thank you for your patience

Best Regards

JESTEC Editor

<http://jestec.taylors.edu.my>

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**From:** Jestec  
**Sent:** Tuesday, April 26, 2022 8:05 AM  
**Subject:** Your paper to publish in Volume 17 Issue 3/confirmation/  
**Importance:** High

Dear Author(s)

/only corresponding authors to reply, please/

As communicated with you earlier, your paper is scheduled to be published in the coming issue,  
**Volume 17, Issue 3, June 2022.**

Currently, we are editing your paper to prepare and upload it online  
**before or latest by latest by 30/5/2022.**

This email is to notify you and also to get your confirmation that you agree to publish your paper in the said issue.

Also, we kindly request you to remain standby if we find any mistakes/issues that may require your immediate action.

Corresponding authors, please refer to your paper ID and reply before or latest by **30/4/2022.**

In case of no reply from you by the above-stated date, we will postpone the publication of your paper to **Volume 17 Issue 5 October 2022** with no further notification.

Thank you for your immediate reply and cooperation.

Best Regards

JESTEC Editor

<http://jestec.taylors.edu.my>

This message (including any attachments) is intended only for the use of the individual or entity to which it is addressed and may contain information that is non-public, proprietary, privileged, confidential, and exempt from disclosure under applicable law or may constitute as attorney work product. If you are not the intended recipient, you are hereby notified that any use, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication.



SUPANDI STTNAS &lt;supandi@sttnas.ac.id&gt;

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**Your paper is now available online in Volume 17 Issue 3/Check and Proofread/**1 message

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Jestec &lt;Jestec@taylorsof.edu.my&gt;

Sun, Jun 5, 2022 at 1:36 PM

Dear Authors,

I am glad to inform you that your papers are currently available online in Issue 17 Volume 3 (June 2022).

Please access your paper using this [link](#) for final proofreading and checking if there are any mistakes/changes. Also please check your paper info (names of all authors, paper title, and page numbers) on the webpage of the said issue.

Please reply before or latest by Tuesday, 7/6/2022, 12 p.m. (Malaysia local time).

After this date, no changes will be allowed.

Thank you for publishing with JESTEC.

Regards,

JESTEC Editor,

<http://Jestec.taylorsof.edu.my>

This message (including any attachments) is intended only for the use of the individual or entity to which it is addressed and may contain information that is non-public, proprietary, privileged, confidential, and exempt from disclosure under applicable law or may constitute as attorney work product. If you are not the intended recipient, you are hereby notified that any use, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication.



SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

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## Publication Supandi Undercutting Mine

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**SUPANDI STTNAS** <supandi@itny.ac.id>

Wed, Dec 2, 2020 at 4:07 PM

To: Jestec &lt;Jestec@taylors.edu.my&gt;

Cc: SUPANDI STTNAS &lt;supandi@sttnas.ac.id&gt;

Dear Editor,

I would like to submit my paper to published in the Journal of Engineering Science and technology. Attached five documents are required for publication.

1. Manuscript on docx format.
2. Copyright transfer form (CRTF)
3. CV Author
4. Similarity Report - 12%
5. PPR file

I confirm that this article is new, original, and has not been published. elsewhere or is it currently under consideration for publication elsewhere.

Thanks for your attention and cooperation.

Warm regards

Supandi

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### 5 attachments

**PPR Author Supandi.xlsx**

25K

**Copyright transfer ver 190818.pdf**

221K

**[JESTEC] Undercutting Mining Turnitin.pdf**

2372K

**Supandi CV.pdf**

2248K

**[JESTEC] Undercutting Mining, Why Not Supandi1.docx**

1776K





SUPANDI STTNAS <supandi@itny.ac.id>

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## Your submission is received

1 message

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Jestec <Jestec@taylors.edu.my>

Tue, Dec 15, 2020 at 4:32 PM

Dear Author(s)

Thank you for submitting your manuscript to our journal.

We truly apologise for this late reply.

We will check your submission (scope and content) and reply you in the coming two days

Best Regards

JESTEC Editor

<http://jestec.taylors.edu.my>



SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

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## Submission of a Manuscript (OT20191) / First Round of the Review Process

12 messages

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**Jestec** <Jestec@taylors.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Wed, Dec 16, 2020 at 8:03 AM

Dear Author

Thank you for submitting your research paper to the Journal of Engineering Science and Technology (JESTEC)

Kindly note that we have received the paper entitled

UNDERCUTTING MINING METHOD, WHY NOT? A GEOTECHNICAL CONSIDERATION FOR COAL OPTIMIZATION

Your paper ID is OT20191 (*Please quote the above manuscript ID in all future correspondence with us*)

Your paper is currently undergoing the first round of the review process.

Thank you for your understanding and patience.

***Please be reminded that upon the full acceptance of your paper, publication fee in amount of USD300 must be paid before the article is published in the journal website.***

Best regards

JESTEC Editor

<http://jestec.taylors.edu.my>

---

**SUPANDI STTNAS** <supandi@itny.ac.id>  
To: Jestec <Jestec@taylors.edu.my>

Wed, Dec 16, 2020 at 8:12 AM

Dear Editor.  
High appreciation for your confirmation, Could you give a time estimate for review processing...?  
I'm ok with the publication fee..

Warm Regards  
Supandi

[Quoted text hidden]

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**Jestec** <Jestec@taylor.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Wed, Dec 16, 2020 at 9:03 AM

Dear Supandi

Thank you for your email and interest to publish with JESTEC.

Kindly, refer to the following:

1. JESTEC is currently indexed by [SCOPUS](#) and the [Emerging Sources Citation Index](#) (Web of Science).
2. Manuscript submission: please refer to this link for more information. <http://jestec.taylor.edu.my/submit%20a%20paper.html>
3. Review process time: (45-90) days
4. Publication: April 2021 or June 2021, but the paper may appear as Article in Press prior to the scheduled publication.
5. Publication fees for year 2020: USD300 is due once the paper is accepted.

Best Regard

JESTEC Editor

<http://jestec.taylor.edu.my>

[Quoted text hidden]

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**Jestec** <Jestec@taylor.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Sat, Feb 6, 2021 at 2:16 PM

Dear Author

Thank you for your email inquiring about the review progress of your paper.

For your paper, in fact, we have so far no review report(s). We cannot decide at the moment to accept the paper, because we are waiting for other reviewers to submit their reports. Those reviewers, unfortunately, some did not reply to us yet and some requested an additional two months to complete the review.

This is the current status of your paper review.

Please let us know your decision whether you want us to proceed with the review process or you may want to withdraw your paper.

We apologize for the inconvenience caused and we hope to hear from you soon.

Best regards

JESTEC Editor

<http://jestec.taylors.edu.my>

[Quoted text hidden]

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**SUPANDI STTNAS** <supandi@itny.ac.id>  
To: Jestec <Jestec@taylors.edu.my>

Mon, Feb 8, 2021 at 2:17 PM

Dear Editor,

I would like to give confirmation related to my paper. **Please continue processing** for my paper with the title UNDERCUTTING MINING METHOD, WHY NOT? A GEOTECHNICAL CONSIDERATION FOR COAL OPTIMIZATION and Paper ID OT20191. I will be waiting up until all processing completed.

Warm regards

Dr. Supandi

Your paper ID is **OT20191**

[Quoted text hidden]

---

**Jestec** <Jestec@taylors.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Mon, Feb 8, 2021 at 2:33 PM

Dear Author

Noted.

Thank you

Best regards

JESTEC Editor

<http://jestec.taylors.edu.my>

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**From:** SUPANDI STTNAS <supandi@itny.ac.id>  
**Sent:** Monday, February 08, 2021 3:18 PM  
**To:** Jestec <Jestec@taylors.edu.my>

[Quoted text hidden]

[Quoted text hidden]

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**SUPANDI STTNAS** <supandi@itny.ac.id>

To: Jestec <Jestec@taylors.edu.my>

Tue, Apr 6, 2021 at 10:25 AM

Dear Editor,  
Could you have confirmation regarding the status of our paper...?

Thanks a lot

Warm regards  
Supandi  
[Quoted text hidden]

---

**Jestec** <Jestec@taylors.edu.my>

To: SUPANDI STTNAS <supandi@itny.ac.id>

Tue, Apr 13, 2021 at 2:38 PM

Dear Author

Thank you for your email inquiring about the review progress of your paper.

For your paper, we have so far no review report(s). We cannot accept the paper because we are waiting for other reviewers to submit their reports. Those reviewers, unfortunately, did not reply to us yet, and some requested an additional one or one and a half month to complete the review.

This is the current status of your paper review.

Please let us know your decision whether you want us to proceed with the review process or you may want to withdraw your paper.

We apologize for the inconvenience caused, and we hope to hear from you soon.

Best regards

JESTEC Editor

<http://jestec.taylors.edu.my>

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**From:** Jestec

**Sent:** Wednesday, December 16, 2020 9:03 AM

**To:** SUPANDI STTNAS <supandi@itny.ac.id>

**Subject:** Submission of a Manuscript (OT20191) / First Round of the Review Process

Dear Author

[Quoted text hidden]

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**SUPANDI STTNAS** <supandi@itny.ac.id>  
To: Jestec <Jestec@taylors.edu.my>

Tue, Apr 13, 2021 at 4:41 PM

Dear Editor,  
Thanks for your confirmation. I would inform you to continue this processing.  
Could you need a suggestion from a potential reviewer...?

Thanks  
Supandi  
[Quoted text hidden]

---

**Jestec** <Jestec@taylors.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Tue, Apr 13, 2021 at 4:55 PM

Noted

Best regards

JESTEC Editor

<http://jestec.taylors.edu.my>

---

**From:** SUPANDI STTNAS <supandi@itny.ac.id>  
**Sent:** Tuesday, April 13, 2021 5:41 PM  
**To:** Jestec <Jestec@taylors.edu.my>

[Quoted text hidden]

[Quoted text hidden]

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**Jestec** <Jestec@taylors.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Thu, Apr 15, 2021 at 8:48 AM

Dear Author

This email is to inform you that your paper is still undergoing the **first round** of the review process.

You may expect receiving the results of the **first round** of review process before or latest **by 16/5/2021**.

Thank you for your patience.

Best regards

JESTEC Editor

<http://jestec.taylors.edu.my>

**From:** SUPANDI STTNAS <supandi@itny.ac.id>

**Sent:** Tuesday, April 13, 2021 5:41 PM

**To:** Jestec <Jestec@taylors.edu.my>

[Quoted text hidden]

[Quoted text hidden]

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**SUPANDI STTNAS** <supandi@itny.ac.id>

Mon, May 17, 2021 at 6:08 AM

To: Jestec <Jestec@taylors.edu.my>

Dear Editor,

Could you give further confirmation related status of my paper? based on the last email the first decision will be passed before 16 Mei 2021.

Thank

Warm Regards

Supandi

[Quoted text hidden]



SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

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**Paper ID OT20191/Review of a paper, First Round Result/**8 messages

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**Jestec** <Jestec@taylors.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Mon, May 17, 2021 at 8:00 PM

Dear Author

The first round of the review process has been completed.

I am glad to advise that your paper has been conditionally accepted for publication with

No modification    Minor corrections    Major modification.

Attached herewith, please find

1    2    3    4    5    6    7    8    9   reviewers' reports.

Please notice the following:

1. Address all the concerns/recommendations of the reviewers
2. All amendments made are to be highlighted in red colour in the revised paper.
3. Send an outlining following the instructions using the attached template on how you address the concern/recommendations of all reviewers.
4. To complete the review process on time, we highly appreciate it if we can receive the revised paper **three weeks** from today.
5. Please note that your revised manuscript may be rejected if the corrections and the revision are not satisfactory.
6. In case that you will need more time to complete the revision, please indicate how much time you need via email so we can get approval from the Editorial Board.

**Please note that the paper's final acceptance depends on the Review Panel's final decision and after the paper successfully passed all the review rounds.**

Best Regards






JESTEC Editor

<http://jestec.taylors.edu.my>



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**10 attachments**

-  **outlining of Review Report\_v3.docx**  
75K
-  **Review Report - 1.docx**  
46K
-  **Review Report - 2.docx**  
48K
-  **Review Report - 3 comments.pdf**  
431K
-  **Review Report - 3.pdf**  
450K
-  **Review Report - 4 comments.docx**  
16K
-  **Review Report - 4.docx**  
59K
-  **Review Report - 5 comments.pdf**  
1361K
-  **Review Report - 5.docx**  
83K
-  **Review Report - 6.docx**  
47K

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**SUPANDI STTNAS** <supandi@itny.ac.id>  
To: Jestec <Jestec@taylors.edu.my>

Fri, May 28, 2021 at 10:18 PM

Dear Editor,

I would like to submit a paper revision based on reviewer feedback. All feedback has been responded and the manuscript has been doing better.

I hope the paper can be accepted for publication

Warm regards

Supandi

[Quoted text hidden]

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**2 attachments**

-  **[JESTEC] Undercutting Mining, Why Not Supandi2.docx**  
1622K
-  **outlining of Review Report\_v3 Supandi.docx**  
62K

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**Jestec** <Jestec@taylors.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Mon, May 31, 2021 at 12:06 PM

Dear Author(s)

Greetings

We have received your email. We will check and replied you soon.

Best Regards

JESTEC Editor

<http://jestec.taylors.edu.my>

[Quoted text hidden]

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**SUPANDI STTNAS** <supandi@itny.ac.id>  
To: Jestec <Jestec@taylors.edu.my>

Thu, Jun 17, 2021 at 6:19 AM

Dear Editor,  
Could you have an update related to our paper..?

Thanks a lot

Supandi  
[Quoted text hidden]

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**Jestec** <Jestec@taylors.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Thu, Jun 17, 2021 at 8:13 AM

1. All amendments made are to be highlighted in red colour in the revised paper.

Best regards

JESTEC Editor

<http://jestec.taylors.edu.my>

---

**From:** SUPANDI STTNAS <supandi@itny.ac.id>  
**Sent:** Friday, May 28, 2021 11:18 PM  
**To:** Jestec <Jestec@taylors.edu.my>  
**Subject:** Re: Paper ID OT20191/Review of a paper, First Round Result/

Dear Editor,

[Quoted text hidden]

[Quoted text hidden]

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**SUPANDI STTNAS** <supandi@itny.ac.id>  
To: Jestec <Jestec@taylors.edu.my>

Thu, Jun 17, 2021 at 8:44 AM

Dear editor,  
All modification has been applied with red color on the manuscript

Thanks  
Supandi  
[Quoted text hidden]



**[JESTEC] Undercutting Mining, Why Not Supandi2.docx**  
1622K

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**Jestec** <Jestec@taylors.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Thu, Jun 17, 2021 at 9:46 AM

Dear Author

This email is to inform you that your paper is still undergoing the **second round** of the review process.

You may expect receiving the results of the **second round** of review process before or latest **by 4/7/2021**.

Thank you for your patience.

[Quoted text hidden]

---

**SUPANDI STTNAS** <supandi@itny.ac.id>  
To: Jestec <Jestec@taylors.edu.my>

Mon, Jul 12, 2021 at 4:39 PM

dear Chief Editor,  
Could you have an update related to our paper..?

Warm regards  
Supandi

[Quoted text hidden]



SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

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**Paper ID OT20191 /Review of a paper, Second Round Result/**2 messages

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**Jestec** <Jestec@taylors.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Mon, Jul 12, 2021 at 9:39 PM

Dear Author

The second round of the review process has been completed.

6 reviewers reviewed your revised paper. All accepted except Reviewer # 5 who accepted the revised paper with major corrections.

Attached herewith, please find one/two/three/four/five/six reviewers' reports.

Please notice the following:

1. Acknowledge the receipt of this email
2. Address all the concerns/recommendations of the reviewers
3. All additions/corrections are to be highlighted in red colour in the revised paper.
4. Send a separate outlining of how did you address each reviewers' concern/recommendations.
5. Please take note that your revised manuscript may be rejected if the corrections and the revision are not satisfactory.

Best Regards

JESTEC Editor

<http://jestec.taylors.edu.my>**Review report - 5 R1.docx**  
81K

---

**SUPANDI STTNAS** <supandi@itny.ac.id>

Tue, Jul 13, 2021 at 8:43 AM

To: Jestec <Jestec@taylors.edu.my>

Dear Editor,

Thanks for your information.

I would inform you that a correction regarding one reviewer has been done. Some correction and follow up has been summarized on the table. Correction in the manuscripts has been highlighted with red color.

I hope the correction will be accepted and the paper can be accepted after 5 reviewers have been agreeing to accept.

Warm regards

Supandi

[Quoted text hidden]

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## 2 attachments



**Response by Authors to Reviewer Jestec.docx**

22K



**[JESTEC] Undercutting Mining, Why Not Supandi3.docx**

1622K



SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

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## Review process is completed: paper (OT20191) is accepted for publication /formatting, proofreading, payment/

6 messages

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Jestec <Jestec@taylor.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Tue, Jul 13, 2021 at 10:36 AM

Dear Author

Please ignore previous email.

I am glad to advise that the review process is completed and your paper has been accepted for publication without modification. The reviewers have no more comments and are satisfied with the revised paper.

Your paper has been scheduled to be published in **June 2022, Volume 17 Issue 3**

*Attached please find the acceptance letter.*

Next, you are kindly asked to

1. Check the format of the paper according to the instructions for authors and JESTEC template (attached).
  - a. Please take note that our citation style and format of the references are unique. We do not follow any standard citation styles. Attached find the instructions how to prepare the references in terms of the style and format.
  - b. A special attention is also to be paid for list of symbols used. Please follow the sample shown in the template. Each symbols must be written in italic mode and fully defined with its SI units, where applicable.
  - c. Kindly take note that we will not publish your manuscript until it is correctly and completely formatted according to JESTEC template and there are no technical mistakes and/or missing part.
  - d. Also refer to this link: <http://jestec.taylor.edu.my/instructions.html> for more instructions.
2. Fill in the JESTEC-Copyright transfer form (use this link to download <http://jestec.taylor.edu.my/Copyright%20transfer%20ver%20190818.doc> and send to the journal.
3. Payment of the publication is needed before the paper is published online. Kindly refer to the attached sample of the invoice and amend it (Red text only) according to your up-to-date and accurate information for the purpose of payment. Once submitted we will send you an official tax invoice with all details to make safe payment.

*Kindly note that you have only **two weeks** to submit the above.*

We thank you very much for your interest in JESTEC and looking forward for new contribution.





Best regards

JESTEC Editor

<http://jestec.taylors.edu.my>

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**4 attachments**

-  **about formatting the references.docx**  
15K
-  **JESTEC template (Camera Ready).docx**  
237K
-  **089 LoA\_17\_3\_22 Supandi.pdf**  
58K
-  **22\_089.docx**  
24K

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**SUPANDI STTNAS** <supandi@itny.ac.id>  
To: Jestec <Jestec@taylors.edu.my>

Mon, Jul 19, 2021 at 8:11 AM

Dear Editor,

I would inform you that our paper has been formatted based on JESTEC standards. The invoice form has been fulfilled also.




The document is attached.

Warm regards  
Supandi

[Quoted text hidden]

---

**3 attachments**

-  **22\_089 Supandi.pdf**  
101K
-  **[JESTEC] Undercutting Mining, Why Not Supandi5.docx**  
1648K
-  **089 LoA\_17\_3\_22 Supandi.pdf**  
58K

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**Jestec** <Jestec@taylors.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Mon, Jul 19, 2021 at 8:30 AM

Dear Author

We received

- your formatted paper. Once we start editing your paper for publication online we will contact you if any issues found.
- the invoice draft with your information.

Best Regards

JESTEC Editor

<http://jestec.taylors.edu.my>

[Quoted text hidden]

---

**Jestec** <Jestec@taylor.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Mon, Jul 19, 2021 at 8:31 AM

1. Fill in the JESTEC-Copyright transfer form (use this link to download <http://jestec.taylor.edu.my/Copyright%20transfer%20ver%20190818.doc> and send to the journal.

Best regards

JESTEC Editor

<http://jestec.taylor.edu.my>

---

**From:** SUPANDI STTNAS <supandi@itny.ac.id>

**Sent:** Monday, July 19, 2021 9:12 AM

**To:** Jestec <Jestec@taylor.edu.my>

**Subject:** Re: Review process is completed: paper (OT20191) is accepted for publication /formatting, proofreading, payment/

Dear Editor,

[Quoted text hidden]

[Quoted text hidden]

---

**SUPANDI STTNAS** <supandi@itny.ac.id>

Mon, Jul 19, 2021 at 8:53 AM

To: Jestec <Jestec@taylor.edu.my>

Dear Editor JESTEC

The copyright form has been fulfilled and assigned. Attached.

Warm regards

Supandi

[Quoted text hidden]



**Copyright transfer ver 190818 (1).pdf**

169K

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**Jestec** <Jestec@taylor.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Mon, Jul 19, 2021 at 8:56 AM

Received

Thank you very much

[Quoted text hidden]





SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

---

**JESTEC Publication Fees (2021) - Invoice No. 3754/21 (Ref. No. 22\_089)**

4 messages

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**Jestec** <Jestec@taylors.edu.my>

Thu, Jul 29, 2021 at 6:01 AM

To: SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;, "supandi@sttnas.ac.id" &lt;supandi@sttnas.ac.id&gt;

Cc: Vidya Ramalingam &lt;Vidya.Ramalingam@taylors.edu.my&gt;

Dear Author,

Greetings

Kindly, refer to the attached official tax invoice and do update us once you made the payment.

Important note:-

**Please ensure that the net amount we receive must be US\$318 (US Dollars) or equivalent to MYR1340 (Malaysian Ringgits) regardless of the foreign exchange rate and money transfer charges**

Also, please take note of the following:

- The payment is due, as stated in the attached invoice.
- The journal reserves the right to charge interest on overdue accounts.
- Any discrepancies, please notify within seven days; otherwise, entries shall be treated as correct.
- The only payment method is via Telegraphic Transfer (outside Malaysia) or Online Transfer (inside Malaysia).
- The banking details are provided in the attached invoice.
- **The journal will not accept any bank charges associated with the transfer of money or currency exchange charges.**  
**Authors should bear all these charges.**

Thank you.

Best Regards

JESTEC Editor

<http://jestec.taylors.edu.my>

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 **22\_089 IN000003754.pdf**  
42K

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**SUPANDI STTNAS** <supandi@itny.ac.id>

Tue, Aug 3, 2021 at 11:20 AM

To: Jestec <Jestec@taylor.edu.my>

Cc: "supandi@sttnas.ac.id" <supandi@sttnas.ac.id>, Vidya Ramalingam <Vidya.Ramalingam@taylor.edu.my>

Dear Editor,

I would inform you that the payment publication fee for Supandi with Tittle "Undercutting Mining Method, Why not? A Geotechnical consideration for Coal Optimization" has been completed this morning. Attached transfer receipt. Could you inform me of the further process?

Thanks

Supandi

[Quoted text hidden]

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### 3 attachments



**Receipt JESTEC Supandi (1).jpeg**

70K



**Receipt JESTEC Supandi (2).jpeg**

62K



**22\_089 IN000003754.pdf**

42K

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**Jestec** <Jestec@taylor.edu.my>

Tue, Aug 3, 2021 at 12:05 PM

To: SUPANDI STTNAS <supandi@itny.ac.id>

Cc: "supandi@sttnas.ac.id" <supandi@sttnas.ac.id>, Vidya Ramalingam <Vidya.Ramalingam@taylor.edu.my>

Dear Author

Thank you for sending the evidence of payment.

My colleague will update you once the payment is received.

Best regards

JESTEC Editor

<http://jestec.taylor.edu.my>

[Quoted text hidden]

---

### 2 attachments



**22\_089 EoP2.jpeg**  
62K



**22\_089 EoP1.jpeg**  
70K

**Vidya Ramalingam** <Vidya.Ramalingam@taylors.edu.my>  
To: Jestec <Jestec@taylors.edu.my>, SUPANDI STTNAS <supandi@itny.ac.id>  
Cc: "supandi@sttnas.ac.id" <supandi@sttnas.ac.id>

Fri, Aug 6, 2021 at 4:08 PM

Dear all,

Payment received with thanks.

Best Regards,

*Vidya Ramalingam*

Taylor's University Sdn Bhd

Finance Department – Account Receivables

Tel: (603)5629 5000 ext.5075

[Quoted text hidden]



This message (including any attachments) is intended only for the use of the individual or entity to which it is addressed and may contain information that is non-public, proprietary, privileged, confidential, and exempt from disclosure under applicable law or may constitute as attorney work product. If you are not the

1/12/23, 8:04 AM

Institut Teknologi Nasional Yogyakarta Mail - JESTEC Publication Fees (2021) - Invoice No. 3754/21 (Ref. No. 22\_089)

intended recipient, you are hereby notified that any use, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication.



**IN000003754 - Receipt.pdf**

93K



SUPANDI STTNAS <supandi@sttnas.ac.id>

---

## Your paper is now available online in Volume 17 Issue 3 and it is Indexed by Scopus

1 message

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**Jestec** <Jestec@taylorsonline.com>

Mon, Jul 4, 2022 at 6:25 PM

Dear Authors,

I am glad to inform you that your papers published in JESTEC Issue 17 Volume 3 (June 2022) are now indexed by Scopus.

The papers are currently available in Scopus database and website.

Thank you for publishing with JESTEC.

Regards,

JESTEC Editor,

<http://Jestec.taylorsonline.com>



SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

---

## Publication Supandi Undercutting Mine

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SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

Wed, Dec 2, 2020 at 5:07 PM

To: Jestec &lt;Jestec@taylors.edu.my&gt;

Cc: SUPANDI STTNAS &lt;supandi@sttnas.ac.id&gt;

Dear Editor,

I would like to submit my paper to published in the Journal of Engineering Science and technology. Attached five documents are required for publication.

1. Manuscript on docx format.
2. Copyright transfer form (CRTF)
3. CV Author
4. Similarity Report - 12%
5. PPR file

I confirm that this article is new, original, and has not been published. elsewhere or is it currently under consideration for publication elsewhere.

Thanks for your attention and cooperation.

Warm regards

Supandi

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### 5 attachments

**PPR Author Supandi.xlsx**

25K

**Copyright transfer ver 190818.pdf**

221K

**[JESTEC] Undercutting Mining Turnitin.pdf**

2372K

**Supandi CV.pdf**

2248K

**[JESTEC] Undercutting Mining, Why Not Supandi1.docx**

1776K



SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

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**Submission of a Manuscript (OT20191) / First Round of the Review Process**2 messages

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**Jestec** <Jestec@taylors.edu.my>  
To: SUPANDI STTNAS <supandi@itny.ac.id>

Wed, Dec 16, 2020 at 9:03 AM

Dear Author

Thank you for submitting your research paper to the Journal of Engineering Science and Technology (JESTEC)

Kindly note that we have received the paper entitled

UNDERCUTTING MINING METHOD, WHY NOT? A GEOTECHNICAL CONSIDERATION FOR COAL OPTIMIZATION

Your paper ID is OT20191 (*Please quote the above manuscript ID in all future correspondence with us*)

Your paper is currently undergoing the first round of the review process.

Thank you for your understanding and patience.

***Please be reminded that upon the full acceptance of your paper, publication fee in amount of USD300 must be paid before the article is published in the journal website.***

Best regards

JESTEC Editor

<http://jestec.taylors.edu.my>

---

**SUPANDI STTNAS** <supandi@itny.ac.id>  
To: Jestec <Jestec@taylors.edu.my>

Wed, Dec 16, 2020 at 9:12 AM

Dear Editor.  
High appreciation for your confirmation, Could you give a time estimate for review processing...?  
I'm ok with the publication fee..

12/16/2020

Institut Teknologi Nasional Yogyakarta Mail - Submission of a Manuscript (OT20191) / First Round of the Review Process

Warm Regards  
Supandi

[Quoted text hidden]





SUPANDI STTNAS &lt;supandi@itny.ac.id&gt;

---

**Your paper to publish in Volume 17 Issue 3/follow-up/**

1 message

---

**Jestec** <Jestec@taylor.s.edu.my>

Fri, Apr 29, 2022 at 9:10 AM

Dear Corresponding Authors

Thank you for the confirmation.

During the coming days, you may expect an email to correct your papers if issues are found.

At the moment your paper titles with authors' names are now available online but the content remains inaccessible until we finalise the camera-ready of the online version of your papers.

Also, notice that the order of the papers as appear are random and not final, also there is no page numbers.

Meanwhile, we kindly request you to check the title of your paper and the authors' names using this link <http://jestec.taylor.s.edu.my/V17Issue3.htm>**Note:-**

- 1. If you did not find any mistake, please do not reply to this email.**
- 2. if any mistakes are found, only corresponding authors to immediately inform us.**

Thank you for your patience

Best Regards

JESTEC Editor

<http://jestec.taylor.s.edu.my>

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**From:** Jestec  
**Sent:** Tuesday, April 26, 2022 8:05 AM  
**Subject:** Your paper to publish in Volume 17 Issue 3/confirmation/  
**Importance:** High

Dear Author(s)

/only **corresponding authors** to reply, please/As communicated with you earlier, your paper is scheduled to be published in the coming issue,  
**Volume 17, Issue 3, June 2022.**

Currently, we are editing your paper to prepare and upload it online  
**before or latest by latest by 30/5/2022.**

This email is to notify you and also to get your confirmation that you agree to publish your paper in the said issue.

Also, we kindly request you to remain standby if we find any mistakes/issues that may require your immediate action.

Corresponding authors, please refer to your paper ID and reply before or latest by **30/4/2022.**

In case of no reply from you by the above-stated date, we will postpone the publication of your paper to **Volume 17 Issue 5 October 2022** with no further notification.

Thank you for your immediate reply and cooperation.

Best Regards

JESTEC Editor

<http://jestec.taylors.edu.my>

This message (including any attachments) is intended only for the use of the individual or entity to which it is addressed and may contain information that is non-public, proprietary, privileged, confidential, and exempt from disclosure under applicable law or may constitute as attorney work product. If you are not the intended recipient, you are hereby notified that any use, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication.

**REVIEW FORM**

**Title of paper:** **UNDERCUTTING MINING METHOD, WHY NOT?  
A GEOTECHNICAL CONSIDERATION FOR COAL OPTIMIZATION**

For sections A & B, please tick a number from 0 to 5, where 0 = strongly disagree and 5 = strongly agree.

**A. Technical aspects**

- |  |                            |                            |                            |                                       |                            |                                       |
|--|----------------------------|----------------------------|----------------------------|---------------------------------------|----------------------------|---------------------------------------|
| 1. The paper is within the scope of the Journal. | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3            | <input type="checkbox"/> 4 | <input checked="" type="checkbox"/> 5 |
| 2. The paper is original.                        | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3            | <input type="checkbox"/> 4 | <input checked="" type="checkbox"/> 5 |
| 3. The paper is free of technical errors.        | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5            |

**B. Communications aspects**

- |  |                            |                            |                            |                            |                                       |                                       |
|--|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------------------|---------------------------------------|
| 1. The paper is clearly readable.                                  | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4            | <input checked="" type="checkbox"/> 5 |
| 2. The figures are clear & do clearly convey the intended message. | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> 4 | <input type="checkbox"/> 5            |
| 3. The length of the paper is appropriate.                         | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input checked="" type="checkbox"/> 4 | <input type="checkbox"/> 5            |

**C. Comments to the authors (You may use another sheet of paper.)**

- |  |
|--|
| <ol style="list-style-type: none"><li>1. Just 65% of reference above 2010 and reference shall more 80% at least 10 years. DOI need to add on reference</li><li>2. Explanation about novelty is recommended</li><li>3. The determination material properties must be clear and double check material properties on table 1.</li><li>4. Reanalyze is recommended after check the material properties.</li><li>5. Detailing geological condition is highly recommended.</li></ol> |
|--|

**D. Recommendation (Tick one)**

- |                                      |                                     |
|--------------------------------------|-------------------------------------|
| 1. Accepted without modifications.   | <input type="checkbox"/>            |
| 2. Accepted with minor corrections.  | <input checked="" type="checkbox"/> |
| 3. Accepted with major modification. | <input type="checkbox"/>            |
| 4. Rejected.                         | <input type="checkbox"/>            |

**E. Comments to the editors (These comments will not be sent to the authors)**

- |  |
|--|
| <ol style="list-style-type: none"><li>1. Paper need revision based on review result.</li><li>2. The paper can be accepted after revision has been completed.</li></ol> |
|--|

## REVIEW RESULT

Reviewer 1

No	Subject	Review
1	<b>Research Question</b> <i>why the authors do this research and what is its importance and application</i>	Research questions have been clearly mentioned in manuscripts and have explained the steps how to evaluate the problems those many are found in the field.
2	<b>Novelty</b> <i>a paper gives new ideas, derivations, applications that has been not studied before or little- or not in depth-studied</i>	Novelty has not been clearly explained in this paper, so it needs to be added in manuscript. Please update in the abstract, and the novelty conclusion of this research.
3	<b>Literature Review</b> <i>to identify the research gap with recent references from 2010 onwards</i>	The number of references needs to be added and the DOI needs to be added to make it easier for verification. The number of papers under 2010 has been found, it is around 36% and it is recommended that for papers above 2010 it reaches 80%
4	<b>Research Methodology</b> <i>analytical, numerical or experimental or mixed. What is the contribution of the authors, assumptions and/or approximations used, description of apparatus and its limitations, steps of experiments, etc</i>	<ol style="list-style-type: none"><li>1. Material properties need to be double check since I have prediction that material is wrong especially on poison ratio. Whether this is incorrectly written on the table or indeed wrong from specifying parameters.</li><li>2. Based on the point 1 above, the detailed determination of the material properties needs to be explained in the manuscript. If using back analysis, it needs to be explained the back analysis mechanism. If using laboratory tests, it needs to be explained the methods and the standards those are used in obtaining parameters.</li><li>3. The details of geological conditions are required to be included in manuscripts.</li></ol>
5	<b>Quality of Research</b> <i>and the depth and logic of the discussion</i>	<ol style="list-style-type: none"><li>1. In the concept of analysis, it is very interesting, but based on the findings above, it becomes a big question mark, is the analysis has been done correctly.</li><li>2. It is recommended to do a re-analysis based on the evaluation analysis of the material properties mentioned above.</li></ol>
6	<b>Insight</b> <i>conveyed and recommendations that might be used by others for future work</i>	The determination material properties must be clear, including the characteristics of existing materials.
7	<b>English</b> <i>used effectively to communicate the ideas and easy to understand with least or no grammatical error or typos</i>	English need to check by a prof read.

**REVIEW FORM**

**Title of paper:** UNDERCUTTING MINING METHOD, WHY NOT? A GEOTECHNICAL CONSIDERATION FOR COAL OPTIMIZATION

For sections A & B, please tick a number from 0 to 5, where 0 = strongly disagree and 5 = strongly agree.

**A. Technical aspects**

- 1. The paper is within the scope of the Journal.  0  1  2  3  4  5
- 2. The paper is original.  0  1  2  3  4  5
- 3. The paper is free of technical errors.  0  1  2  3  4  5

**B. Communications aspects**

- 1. The paper is clearly readable.  0  1  2  3  4  5
- 2. The figures are clear & do clearly convey the intended message.  0  1  2  3  4  5
- 3. The length of the paper is appropriate.  0  1  2  3  4  5

**C. Comments to the authors (You may use another sheet of paper.)**

- 1. Additional reference at least the last five year is highly recommended
- 2. Novelty is not clear brief on the manuscript
- 3. Determination material properties aren't clear
- 4. The hydrogeological aspect shall to integrated into the geotechnical analysis
- 5. Detail feedback can be found in the table below

**D. Recommendation (Tick one)**

- 1. Accepted without modifications.
- 2. Accepted with minor corrections.
- 3. Accepted with major modification.
- 4. Rejected.

**E. Comments to the editors (These comments will not be sent to the authors)**

The manuscript can be accepted after the revision has complete. Detail feedback shows on the table below on the second page

Dear Assoc. Prof. Dr. Abdulkareem Sh. Mahdi Al-Obaidi, CEng MIMechE

Executive Editor - Journal of Engineering Science & Technology

I'm a fascinating paper that addresses a highly relevant subject for geotechnical analysis using the undercutting method on a coal mine. This method very uses full to guideline geotechnical engineer or mine planning to make the design. Before accepting this paper, I think it needs some revision.

No	Subject	Review
1		<b>Research Question</b>
	why the authors do this research, and what is its importance and application	The background explained well and followed the mining conditions in Indonesia associated with layered materials and variations in the slope of layers.
2	<b>Novelty</b>	
	a paper gives new ideas, derivations, applications that have been not studied before or minor- or not in depth-studied	Novelty has not to mention, so it needs to include in the revision of this paper.
3	<b>Literature Review</b>	
	to identify the research gap with recent references from 2010 onwards	The existing references are following the paper topic. However, the number of references is still minimal and needs to be added with new references to support the improvement of this paper. There are still five papers published before 2010, and it recommends adding the references above 2015.
4	<b>Research Methodology</b>	
	Analytical, numerical or experimental, or mixed. Determine the contribution of the authors, assumptions and approximations used, description of apparatus and its limitations, steps of experiments, etc.	<ol style="list-style-type: none"> <li>1. The determination of material properties needs adequately explained because it is fundamental in geotechnical analysis. The manuscript has not described in detail the material properties used in the study.</li> <li>2. The standards in laboratory testing need to describe in manuscripts.</li> </ol>
5	<b>Quality of Research</b>	
	And the depth and logic of the discussion.	<ol style="list-style-type: none"> <li>1. Change figure 1 with the determination "undercutting mining" is recommended.</li> <li>2. The analysis needs to check since the number of material properties (poison ratio &amp; young modulus) is similar.</li> <li>3. Is the hydrogeological modeling not included in this analysis...? Geohydrology modeling should do before geotechnical investigation.</li> </ol>
6	<b>Insight</b>	
	Conveyed and recommendations that others might use for future work	Explaining in detail characteristics of the material at the research site can be used as a basis in determining the advantages and disadvantages of this analysis
7	<b>English</b>	
	Used effectively to communicate the ideas and easy to understand with least or no grammatical error or typos	The final fix for this manuscript needs to be checked by a linguist.

Reviewer 2

I would like to submit my review for the manuscript with title **UNDERCUTTING MINING METHOD, WHY NOT? A GEOTECHNICAL CONSIDERATION FOR COALOPTIMIZATION**. The paper needs further revision before accepted with some correction related;

No	Subject	Review
1	Research Question	Why the authors do this research and what is its importance and application
		It has been explained in the script about the background, so the writing of this script becomes interesting.
2	Novelty	A paper gives new ideas, derivations, applications that has been not studied before or little- or not indepth-studied
		It needs to be added the novelty research so it clearly distinguishes with the previous research.
3	Literature Review	To identify the research gap with recent references from 2010 onwards
		The existing references are in accordance with the topic of the paper, but the number of references is still very limited and needs to be added with new references so it can support the refinement of this paper. There are still 5 papers published before 2010 and it is recommended to add the references above 2015.
4	Research Methodology	Analytical, numerical or experimental or mixed. What is the contribution of the authors, assumptions and/or approximations used, description of apparatus and its limitations, steps of experiments, etc
		<ol style="list-style-type: none"> <li>1. Detailing method to gathering sample shall be briefed on manuscripts</li> <li>2. Standard of all laboratories test shall be mentioned in the manuscript</li> </ol>
5	Quality of Research	And the depth and logic of the discussion.
		<ol style="list-style-type: none"> <li>1. The value of poison ratio need to be check because the number is similar with various cohesion numbers. The value of young modulus need to check also.</li> <li>2. The material properties need to be checked again because between weak layer material and disposal material does not seem to be not quite right, the material properties for weak zone should be smaller so that it can be as a weak field. If you look at the weak zone material properties with a cohesion of 10 KPa and Phi 30 degree is still called a weak field. ....?</li> </ol>
6	Insight	Conveyed and recommendations that might be used by others for future work
		This manuscript does not explain in detail what the advantages and disadvantages are
7	English	Used effectively to communicate the ideas and easy to understand with least or no grammatical error or typos
		It needs to be checked by a linguist during the final draft of this manuscript.

**REVIEW FORM**

**Title of paper:** UNDERCUTTING MINING METHOD, WHY NOT? A GEOTECHNICAL CONSIDERATION FOR COAL OPTIMIZATION

For sections A & B, please tick a number from 0 to 5, where 0 = strongly disagree and 5 = strongly agree.

**A. Technical aspects**

- |  |                            |                            |                            |                                       |                            |                                       |
|--|----------------------------|----------------------------|----------------------------|---------------------------------------|----------------------------|---------------------------------------|
| 1. The paper is within the scope of the Journal. | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3            | <input type="checkbox"/> 4 | <input checked="" type="checkbox"/> 5 |
| 2. The paper is original.                        | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3            | <input type="checkbox"/> 4 | <input checked="" type="checkbox"/> 5 |
| 3. The paper is free of technical errors.        | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5            |

**B. Communications aspects**

- |  |                            |                            |                            |                                       |                                       |                            |
|--|----------------------------|----------------------------|----------------------------|---------------------------------------|---------------------------------------|----------------------------|
| 1. The paper is clearly readable.                                  | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> 3 | <input type="checkbox"/> 4            | <input type="checkbox"/> 5 |
| 2. The figures are clear & do clearly convey the intended message. | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> 3 | <input type="checkbox"/> 4            | <input type="checkbox"/> 5 |
| 3. The length of the paper is appropriate.                         | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3            | <input checked="" type="checkbox"/> 4 | <input type="checkbox"/> 5 |

**C. Comments to the authors (You may use another sheet of paper.)**

- |  |
|--|
| <ol style="list-style-type: none"><li>1. Number of references is limited, please add some reference.</li><li>2. Explanation about novelty has been not clear mentioned on the manuscript</li><li>3. Value of poison ratio and young modulus has bene wrong, need to check</li><li>4. Advantage and disadvantage have been not clearly explained on manuscripts.</li><li>5. Other review comment can check on separate file</li></ol> |
|--|

**D. Recommendation (Tick one)**

- |                                      |                                     |
|--------------------------------------|-------------------------------------|
| 1. Accepted without modifications.   | <input type="checkbox"/>            |
| 2. Accepted with minor corrections.  | <input checked="" type="checkbox"/> |
| 3. Accepted with major modification. | <input type="checkbox"/>            |
| 4. Rejected.                         | <input type="checkbox"/>            |

**E. Comments to the editors (These comments will not be sent to the authors)**

Revision is highly recommended before accepted. Detail feedback can bee seen on separate file.
--



**REVIEW FORM**

**Title of paper:** UNDERCUTTING MINING METHOD, WHY NOT? A GEOTECHNICAL CONSIDERATION FOR COAL OPTIMIZATION

For sections A & B, please tick a number from 0 to 5, where 0 = strongly disagree and 5 = strongly agree.

**A. Technical aspects**

- 1. The paper is within the scope of the Journal.  0  1  2  3  4  5
- 2. The paper is original.  0  1  2  3  4  5
- 3. The paper is free of technical errors.  0  1  2  3  4  5

**B. Communications aspects**

- 1. The paper is clearly readable.  0  1  2  3  4  5
- 2. The figures are clear & do clearly convey the intended message.  0  1  2  3  4  5
- 3. The length of the paper is appropriate.  0  1  2  3  4  5

**C. Comments to the authors (You may use another sheet of paper.)**

- 1. Review result can be found on separate email (attached).
- 2. The number of references is limited with 64% more 2010. The literature reviews are already relevant to the topic but has not discussed much about similar case studies. Increasing the number of references is highly recommended
- 3. Detailing characteristic material is highly recommended.
- 4. Parameter for geotechnical analysis need to double check since value of passion ratio and young modulus is same.
- 5. The explanation of material determination for weak zone needs to be detailed.
- 6. What's advantage and disadvantage of the research?

**D. Recommendation (Tick one)**

- 1. Accepted without modifications.
- 2. Accepted with minor corrections.
- 3. Accepted with major modification.
- 4. Rejected.

**E. Comments to the editors (These comments will not be sent to the authors)**

Paper need to revise before accepted. Some correction can be seen on separate file.



## UNDERCUTTING MINING METHOD, WHY NOT? A GEOTECHNICAL CONSIDERATION FOR COAL OPTIMIZATION

### Abstract

To reduce the stripping ratio, mining with undercutting method can be an alternative even though it has high geotechnical risk. The method is carried out by cutting the low-wall slope so that the dip of rock bedding at low-wall is smaller than the slope angle. This study describes geotechnical consideration for undercutting design of coal mine in order that mining activity can be carried out with minimum risk. The analysis used finite element method by taking into account the aspect of mining sequence. The variables included the conditions of geological structure, rock structure, bedding, and geohydrology. Material properties used for the analysis were based on laboratory tests. The result shows that the slope resulted from undercutting method was stable even though with critical safety factor. The values of safety factor for undercutting design with and without buttress were 1.03 and 1.08, respectively. By considering the short mining sequence, undercutting method can still be implemented by preventing the potential for degradation of physical and mechanical properties of material from occurring. This method was successfully carried out, so mining activity was able to be done properly without any instability issues.

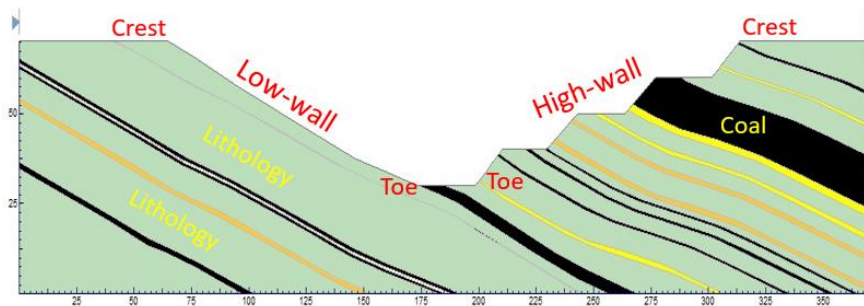
Keywords: Undercutting, Lowwall, Coal Mine, Slope Stability, Daylight

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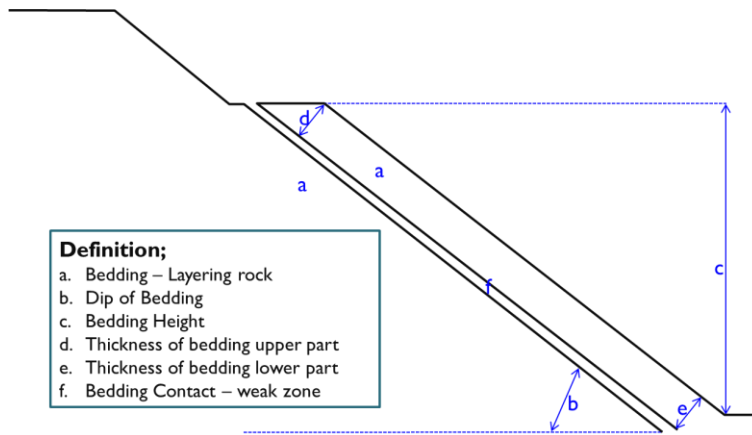
## 1. Introduction

Coal deposits, especially in back-arc basin and fore-arc basin, usually form successive layers with specific bedding position. The dip of coal bedding varies from gently sloping to perpendicular forming a vertical bedding. In several locations of the study area, folding structures were found in either micro or macro scales. Based on the geological condition, mining activity will form high-wall and low-wall sections. High-wall is a part of mine slope that is perpendicular to the dip of rock bedding, while low-wall is the dip of mine slope that is in the same direction as the dip of rock bedding (Fig. 1). Undercutting mining is defined as mining activity that cuts low-wall slope so that the angle of mine slope is greater than the angle of rock bedding or discontinuous plane (daylight).

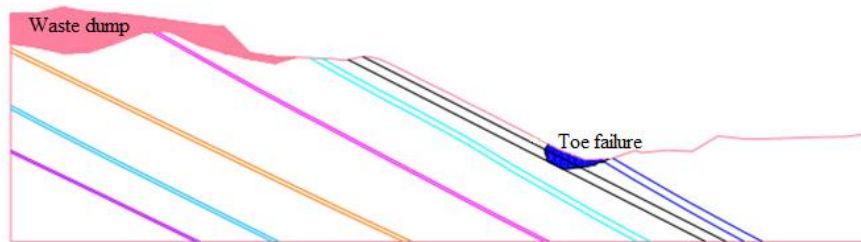


**Fig. 1. Low-wall and high-wall of coal open-pit mine [1].**

Contact between beds is a weak zone, and at the contact of rock bedding, it is usually found a thin layer that can trigger instability of slope. Slope stability of low-wall is affected by bedding contact between two rocks [2]. Bedding contact is usually in the form of clay which has high plasticity, thus it will separate two different beds. Because it separates two different parts, the cohesion value becomes zero and the internal friction angle becomes  $13^\circ$ , which were obtained based on back analysis result [2]. When a weak plane is formed at contact of two rocks, it is assumed that the upper bed only relies on the bed below it, so, with the concept of stress, the smaller the lower part, the greater the stress received, leading to potential for overstress at the toe. Overstress occurs due to difference in bedding ratio between the top and the bottom. The smaller the bedding ratio, the smaller the safety factor produced (Fig. 2) [1]. Since the rock bedding has a weak zone, it may cause failure at the toe. The toe failure is one of the contributing factors that leads to landslide at low-wall (Fig. 3) [3].

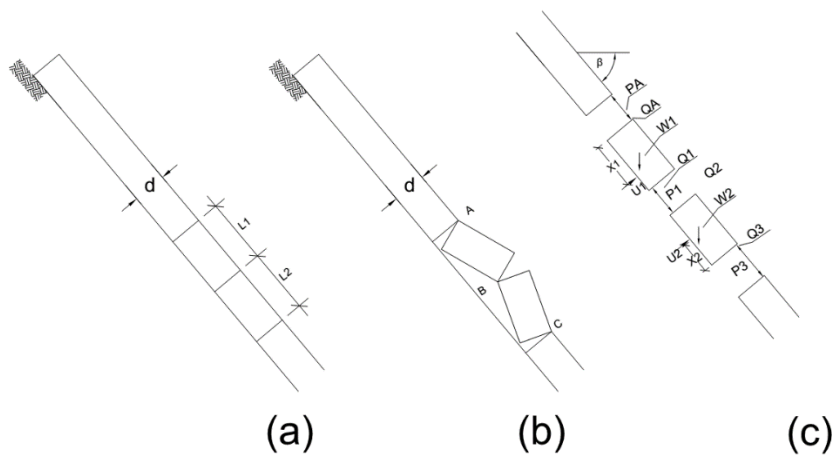


**Fig. 2. Bedding ratio at low-wall [1].**



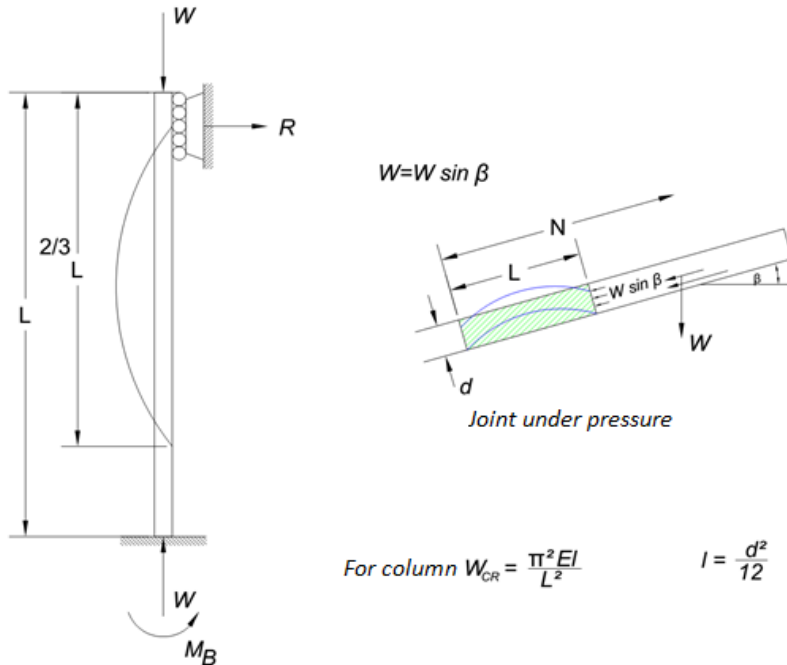
**Fig. 3. Landslide at low-wall due to toe failure [3].**

Slope stability analysis is closely related to the existing structure pattern, especially discontinuous plane. In this analysis, rock was assumed to be a rigid plane separated by weak plane that is cut by joints making the bed look like being cut into pieces; thus, the movement is purely due to frictional force at the bottom of the slope. When driving force gets bigger, buckling will potentially occur (Fig. 4).



**Fig. 4. Inaccurate application of rigid-and-jointed bed for low-wall stability [4].**

Analysis of landslide due to buckling is carried out with assumption that at the toe of slope there are joints receiving pressure along the slope, and additional assumption of Young's modulus (Fig. 5). As a result of the pressure, buckling occurs. The shorter buckling ( $L$ ), the greater the force required for the buckling process to occur. Water flowing in sandstone pore and impermeable mudstone cause a decrease in values of cohesion and internal friction angle.



**Fig. 5. Buckling concept at low-wall [4].**

Analysis of low-wall stability uses concept of toe failure that occurs very quickly without showing any indication of instability. This type of landslide is triggered by low angle joint at the base of excavation. The low angle joint often cannot be detected from drilling, so field observation is very important in determining the possibility of low angle joint.

Landslide at low-wall is affected by pile load at the top of slope, which is considered to provide a significant burden to the low-wall slope. Loose pile material will put the load fully at the base which is passed on to the slope. Placement of overburden must be spaced from the slope to reduce load on the slope surface [3]. Landslide at low-wall can also be triggered by weathered rock on the slope surface. This type of landslide usually occurs in tropics which have very high weathering rate, and the surface is influenced by rill erosion.

Joint pattern plays a very important role for instability because there are some joints that are key to all joint systems. This type of instability is triggered by joint or fracture that cuts each other forming a shape of "X". Under normal condition, instability of natural slope is generally in stable condition. However, if a part of the "X" formation is taken due to slope forming, then instability may occur due to

reduced horizontal force and increased groundwater level in joint area that results in increased hydrostatic pressure either vertically or horizontally (Fig. 6). Instability will occur when resisting force is smaller than driving force. If this mechanism can be known from the beginning, then instability can be anticipated early.

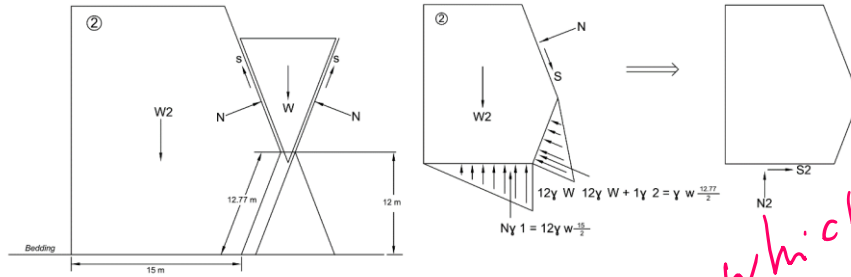


Fig. 6. Unfavorable joint mechanism [4].

The increased factor of safety for 'closed' joint ends cases over their 'open' counterparts for small scale slopes confirms the effectiveness of support measures such as bolting and wire meshes that essentially force exposed joint ends to move together. The modelling in the paper also confirms the loss in efficiency of such support with increasing slope height and suggests that other stabilization methods be considered for large slope [5]. The consideration of this variability was essential to reproduce buckling failure. Back analyses of failure mechanism were done, leading to representative values of the in-situ stress state and the normal and shear stiffness modulus of the foliation discontinuities [6].

Clastic sedimentary rocks in the Warukin Formation have low hardness [7] and the rocks will degrade when exposed to the surface [8]. With this condition, clastic sedimentary rocks, especially claystone, have limited engineering properties, and type of clay mineral must be considered before choosing construction material [9-10]. Large scale low-wall failures cause considerable disruptions to mining associated with a loss of production, damaged infrastructure, and the potential loss of life [11]. Depressurization is indispensable in pit optimization and pit design [12]. Numerical modeling in slope stability analysis for optimizing mine slope is more convincing in the result of slope stability analysis [13]. Theoretical aspects of resonant and chaotic dynamics to practical applications, and lays an essential logical foundation for future developments [14].

## 2. Methods

The method used in this study is back analysis on landslide at low-wall. Back analysis was carried out by exploring all geological and geohydrological conditions as well as physical and mechanical properties of slope rock, then evaluating slope stability analysis that had been carried out before the landslide occurred. Geological condition was explored by detailing slope material, identifying contact zone, calculating bedding ratio, and mapping structure seen after the landslide; while geohydrological component was explored by identifying slope bedding to obtain the type of aquifer.

which paper?  
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Structure was mapped to determine the orientation of joint pattern found on the slope and identify the existence of low angle joint. Field observation includes identification of failure zone found in the landslide area as an indication of release point of force from rock bedding. Physical and mechanical properties were evaluated by comparing sampling position to the results of laboratory tests that have been carried out. Additional number of samples required for further analysis was added for detailing back analysis later. Laboratory tests such as hardness test, triaxial test, and uniaxial test were carried out by following the ASTM standards. Material properties used for analysis are in Table 1.

**Table 1. Material properties.**

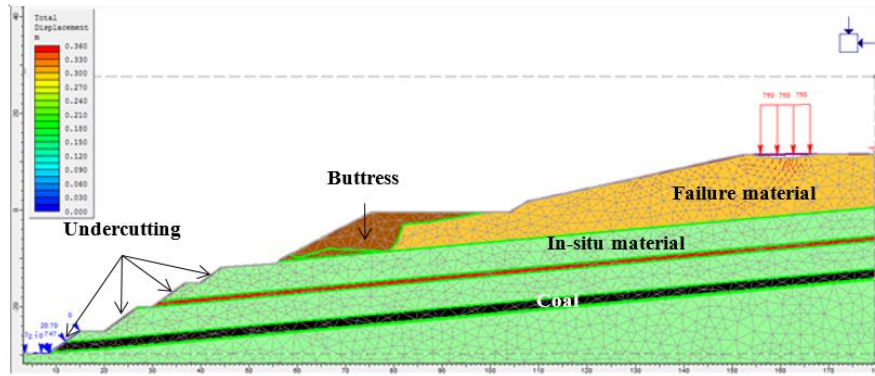
Material	Properties					
	Unit weight (kN/m <sup>3</sup> )	Cohesion (kPa)	Friction angle (°)	Tensile strength (kPa)	Young mod. (kPa)	Poisson ratio
Disposal and buttress	17	75	20	75	125000	0.4
Mudstone	18	160	35	160	125000	0.4
Weak zone	14	10	30	5	50000	0.4
Coal seam	14	189	35	189	50000	0.4

### 3. Results and Discussion

The research area was located at one of the coal mines in the Warukin Formation with low-wall dip of about 9°. The area consists of sandstone, claystone, and coal with hardness below 1 MPa. The groundwater level was relatively high, about 10 m from the surface. Undercutting was planned to be carried out to the toe of landslide that had occurred before. The landslide caused mining activity to stop, leaving the pit neglected, so 1/3 toe of the landslide was submerged in water. Mining was carried out again after 5 years the pit had been abandoned and the mining process began with dewatering of the water in the pit.

The stratigraphic unit of research area in the form of landslide material was on slope surface with a dip of about 14° and a material thickness of about 30 m. In-situ materials were beddings of claystone, mudstone, and coal with dips of about 7-9°. Counterweight was put on the toe of landslide material by back filling up the overburden material layer by layer, so that optimal buttress was obtained. Undercutting was carried out about 15 m from the buttress toe with an undercut depth of about 35 m, calculated from the elevation of buttress toe. The dip of undercutting slope was about 38°, therefore there was daylight due to the bedding dip of 9° (Fig. 7).





**Fig. 7. Distribution of in-situ and failure materials.**

Soft material at the toe of landslide material had been cleaned before the buttress construction. Removal of the landslide toe caused creeping on 1/3 part of the slope (after being submerged) but did not cause major failure (Fig. 8). Counterweight was formed at the toe of slope with a height of 15 m and a width of 25 m, and buttress dip of  $17^\circ$ . Undercutting formed a slope by cutting the bedding plane of in-situ rock on the low-wall side, causing daylight. Slope formation in the undercutting position was adjusted to the overall slope for undercutting.



**Fig. 8. Excavation using box cut method at low-wall.**

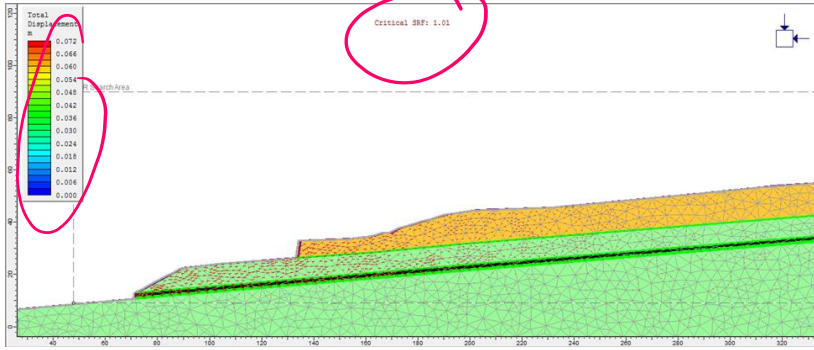
Analysis was performed to determine the stability of landslide material before the undercutting began. Stabilization of landslide material is required to know the impact on stability of undercutting that will be carried out. In general, the analysis was performed on:

1. Stability of landslide material with and without buttress.
2. Slope stability of landslide material and undercutting with and without buttress.

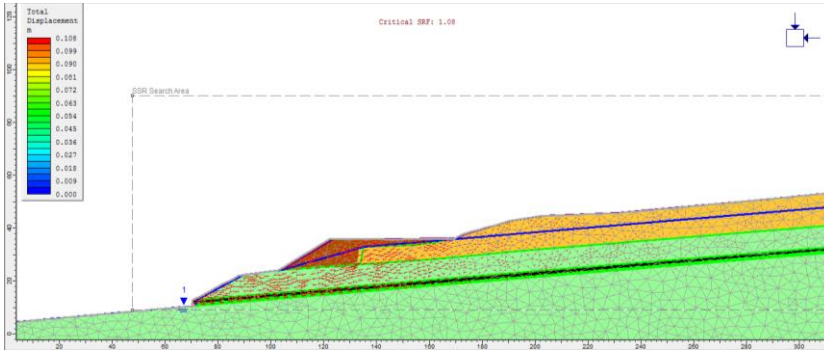
The analysis shows that the landslide material had safety factor of 1.01 which indicated repose condition, and this was in accordance with the real condition where the slope dip of landslide material was formed naturally when landslide occurred (Fig. 9). Stress accumulation was found at the toe of slope with slip surface in the contact area between the in-situ material and the landslide material above it. This was in line with the characteristics of the location. Buttress construction increased the stability of landslide material to 1.08, but when undercutting was carried out, the slope stability changed to 1.03 (Figs. 10 and 11).

*How do you obtain these values?*

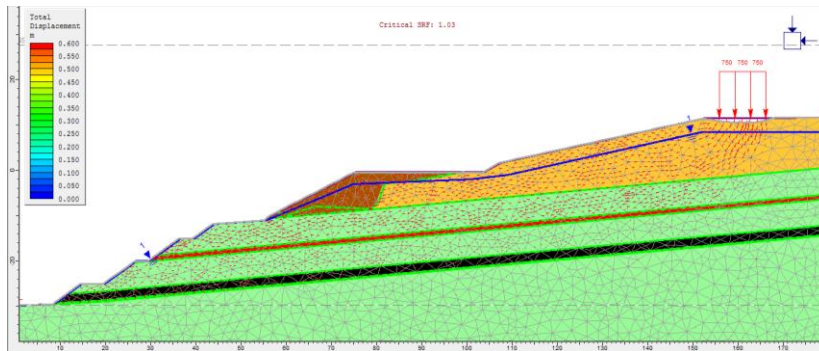
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**Fig. 9. Single step of in-situ and failure materials without buttress.**



**Fig. 10. Single step of in-situ and failure materials with buttress showing groundwater level to buttress.**



**Fig. 11. Undercutting final design and showing distribution displacement.**

Potential for landslide was found in the landslide material and in the discontinuous plane along the rock bedding which was a weak zone that controlled instability (Fig. 12). Material deformation occurred more in the landslide material and in the upper in-situ bed. Undercutting mining can be carried out with strict control to maintain the material properties at the top and in the in-situ material. The safety factor of 1.03 is a critical number, therefore, this should be utilized in undercutting mining. Surface water must also be managed to avoid either surface water flow into the landslide zone or infiltration to the contact zone between the in-situ and the landslide materials. If water gets into the contact zone, it will trigger slip surface along the contact zone. Heavy equipment in the landslide zone must also be restricted to keep the load stable. Heavy equipment activity in the landslide area can increase the material load, so the driving force becomes greater.

software?  
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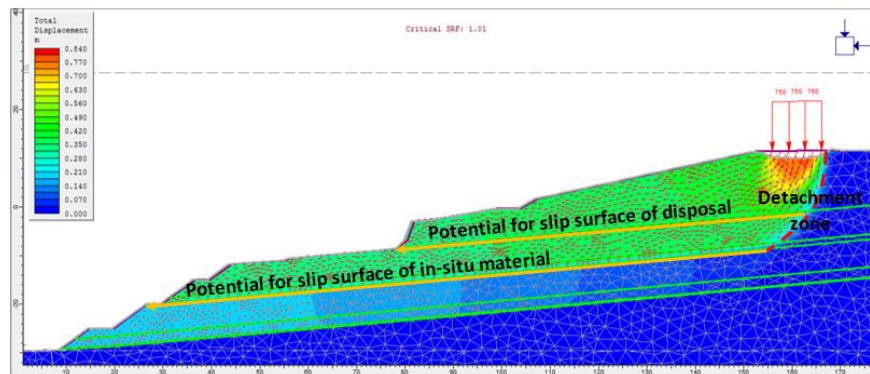


Fig. 12. Distribution of total displacement showing semi-circular pattern.

Slope monitoring system is also mandatory to obtain real condition of slope stability. The monitoring can use simple tool, considering the material has a high plasticity, so that the potential for sudden failure is quite small. Visual observation on drainage condition and buttress stability should also be regularly carried out during undercutting. With strict control, undercutting can be carried out safely and coal can be mined out properly. Coal reserves increased significantly based on the result of this analysis. When the mining was completed, the stability of undercutting and buttress were maintained (Fig. 13).



**Fig. 13. Mining was completed using undercutting method without any instability issue.**

Based on the analysis result, undercutting can be carried out by considering detailed geological aspects of the area, and the analysis should pay attention to the aspects. Although the safety factor is quite critical, with efforts to maintain the physical and mechanical properties, stability can be maintained.

#### 4. Conclusions

Undercutting mining can be carried out by paying attention to the detailed aspects of geological condition. The analysis result using finite element method shows a critical safety factor, but with strict control of slope stability variables, undercutting activity can still be carried out. The analysis identified details of geological condition such as lithology, stratigraphy, aquifer, and weak zone between beds. Identification of discontinuous plane pattern must be done to ensure the kinematics of a bedding. In high stress zone, the condition of discontinuous plane has a significant role in stability of low-wall slope. Calculation of bedding ratio after modelling weak plane is highly recommended so that at the time of analysis, it will be close to the real field condition. Finite element method is recommended for low-wall stability analysis even though limit equilibrium method is still possible if circular pattern only occurs in one bedding. Depressurization is required to reduce aquifer stress due to the presence of distressed aquifer.

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✓  
Good!

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REVIEW FORM

Title of paper: UNDERCUTTING MINING METHOD, WHY NOT? A GEOTECHNICAL CONSIDERATION FOR COAL OPTIMIZATION

For sections A & B, please tick a number from 0 to 5, where 0 = strongly disagree and 5 = strongly agree.

A. Technical aspects

- 1. The paper is within the scope of the Journal.  0  1  2  3  4  5
- 2. The paper is original.  0  1  2  3  4  5
- 3. The paper is free of technical errors.  0  1  2  3  4  5

B. Communications aspects

- 1. The paper is clearly readable.  0  1  2  3  4  5
- 2. The figures are clear & do clearly convey the intended message.  0  1  2  3  4  5
- 3. The length of the paper is appropriate.  0  1  2  3  4  5

C. Comments to the authors (You may use another sheet of paper.)

Refer to comments after section E.

D. Recommendation (Tick one)

- 1. Accepted without modifications.
- 2. Accepted with minor corrections.
- 3. Accepted with major modification.
- 4. Rejected.

E. Comments to the editors (These comments will not be sent to the authors)

The reviewer is still having the opinion (as previous report), the manuscript lacks the criteria of good manuscript that is acceptable for publication unless the main issue raised that is clarification of FEM approach in the study. The improvement in term of alignment between abstract, introduction, literature review and methodology are very minimal.

### C. Comments to the authors

1. There is still no correlation between the abstract and the methodology (also the results and discussion). The abstract clearly mention the use of FEM as the main approach in this study. But it is nowhere to be found in the methodology, except for discussion with regards to experimental works.
2. FEM is an approach to make prediction of physical phenomenon by means of simulation using numerical technique. However, the manuscripts clearly fail to explain/discuss the material or physical condition such as material or slope (in this case). There are figures being presented in the results but without any explanation on what are being simulated in the methodology. There are so many approach/software available, but nothing is being referred to.
3. The analysis was performed on two condition:
  1. Stability of landslide material with and without buttress.
  2. Slope stability of landslide material and undercutting with and without buttress.
  - The reviewer is looking at these elements with regards to FEM (above comment No and 2)
  - Also, there is almost no data (in tabulated form) being presented for better understanding of the results.
3. This statement in Introduction: "Numerical modelling in slope stability analysis for optimizing mine slope is more convincing in the result of slope stability analysis [21]"...need further clarification on how this conclusion is made.
4. The first 3 paragraphs under subheading results and discussion should be in the methodology.

REVIEW FORM

Title of paper: UNDERCUTTING MINING METHOD, WHY NOT? A GEOTECHNICAL CONSIDERATION FOR COAL OPTIMIZATION

For sections A & B, please tick a number from 0 to 5, where 0 = strongly disagree and 5 = strongly agree.

A. Technical aspects

- 1. The paper is within the scope of the Journal.  0  1  2  3  4  5
- 2. The paper is original.  0  1  2  3  4  5
- 3. The paper is free of technical errors.  0  1  2  3  4  5

B. Communications aspects

- 1. The paper is clearly readable.  0  1  2  3  4  5
- 2. The figures are clear & do clearly convey the intended message.  0  1  2  3  4  5
- 3. The length of the paper is appropriate.  0  1  2  3  4  5

C. Comments to the authors (You may use another sheet of paper.)

The manuscript needs major improvement to have a strong alignment between the abstract, introduction, method and the results. It seems that FEM is depicted as the main tools in this study. However, it was not mentioned what is the tool being used or not even elaborated in the methodology. It is important that the methodology being elaborated and appropriately focus for better understanding of the results. The methodology is totally absent in the discussion of the modelling being employed. It is purely for experimental purposes. The review (introduction) is mostly presenting common knowledge except for the last two paragraph that shows favorable evidence of critical review.

D. Recommendation (Tick one)

- 1. Accepted without modifications.
- 2. Accepted with minor corrections.
- 3. Accepted with major modification.
- 4. Rejected.

E. Comments to the editors (These comments will not be sent to the authors)

Please accept my apology because geotechnical engineering is not my research focus. However, reviewers with civil engineering background should be able to comprehend what is being presented in this manuscript. Also, since the paper tried to deliver research with regards to FEM. It is so unfortunate, in my opinion, the manuscript lacks the criteria of good manuscript that is acceptable for publication. There is no alignment between abstract, introduction, literature review and methodology. Without knowing the methodology in appropriate details, it is difficult to accept and appreciate the results and discussion. The reviewer recommended No. 3 (major modification) for publication opportunity. The original copy of the manuscript with handwritten comments is also attached.



**REVIEW FORM**

**Title of paper:** Undercutting Mining Method, Why Not? A Geotechnical Consideration for Coal Optimization

For sections A & B, please tick a number from 0 to 5, where 0 = strongly disagree and 5 = strongly agree.

**A. Technical aspects**

- 1. The paper is within the scope of the Journal.  0  1  2  3  4  5
- 2. The paper is original.  0  1  2  3  4  5
- 3. The paper is free of technical errors.  0  1  2  3  4  5

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- 3. The length of the paper is appropriate.  0  1  2  3  4  5

**C. Comments to the authors** (You may use another sheet of paper.)

Dear Author  
You mentions that you use Finite Element , but you not clearly explain what is the constitutive model ,the element types the boundary condition, even you not give the reasons that you let you do this type of research. Thank you

**D. Recommendation** (Tick one)

- 1. Accepted without modifications.
- 2. Accepted with minor corrections.
- 3. Accepted with major modification.
- 4. Rejected.

**E. Comments to the editors** (These comments will not be sent to the authors)

Dear editors  
Thank you very much