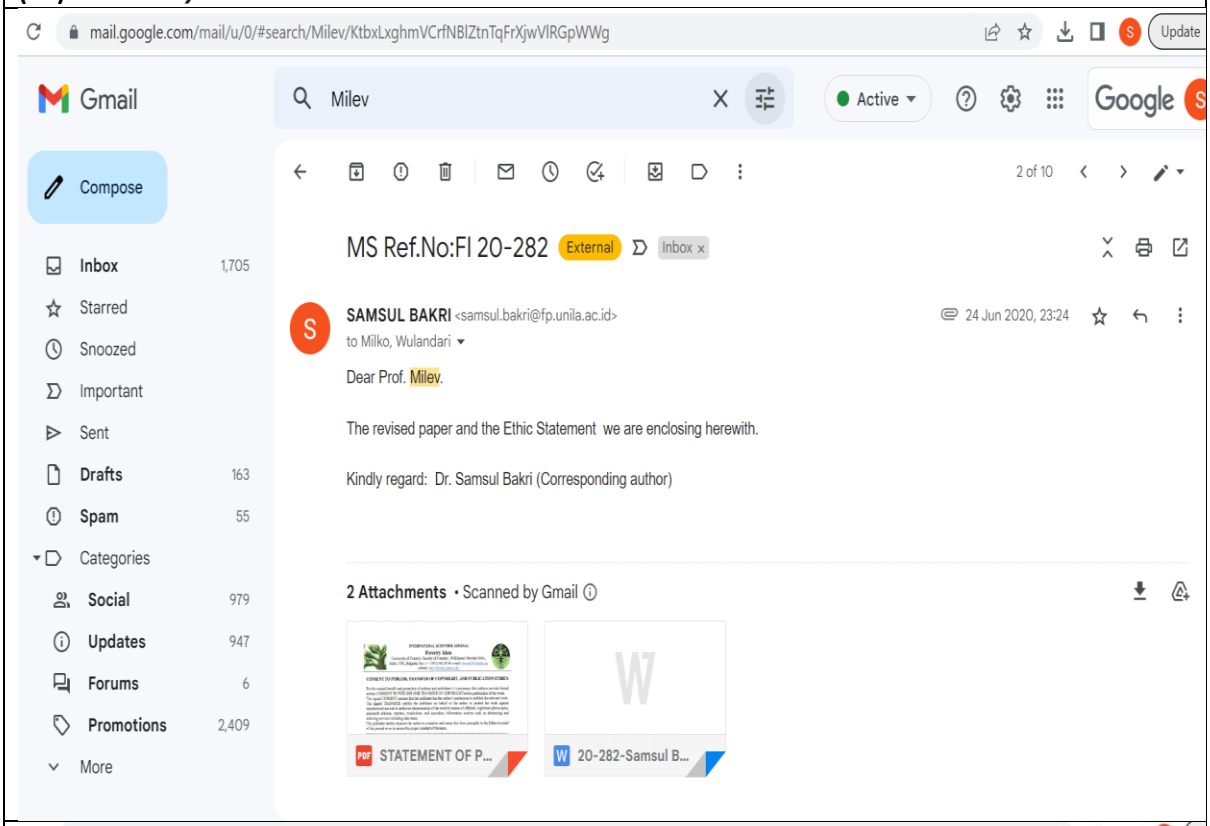
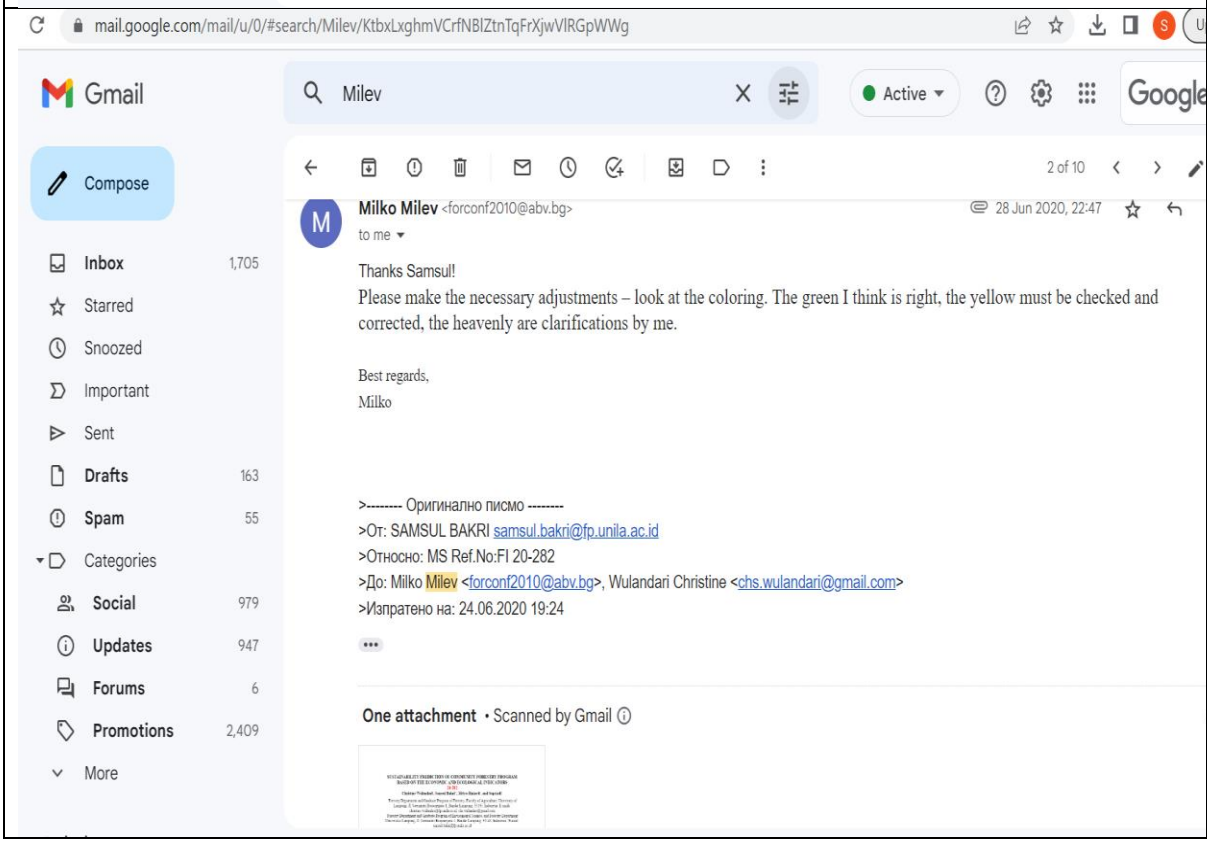
JEJAK KORESPONDENSI_PAPER BERJUDUL ***Fostering the Sustainability Of Community Forestry Program: Case Study in Lampung-Sumatra*** **(FORESTRY IDEAS, 2021, vol. 27, No 1 (61): 210–232)**





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20-282-Samsul B...

SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id> 1 Jul 2020, 09:20

to Milko

Dear Prof. Milko Milet

I have completed your request upon our paper. The paper I am enclosing herewith.

Kindly regard.

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Kindly regard.

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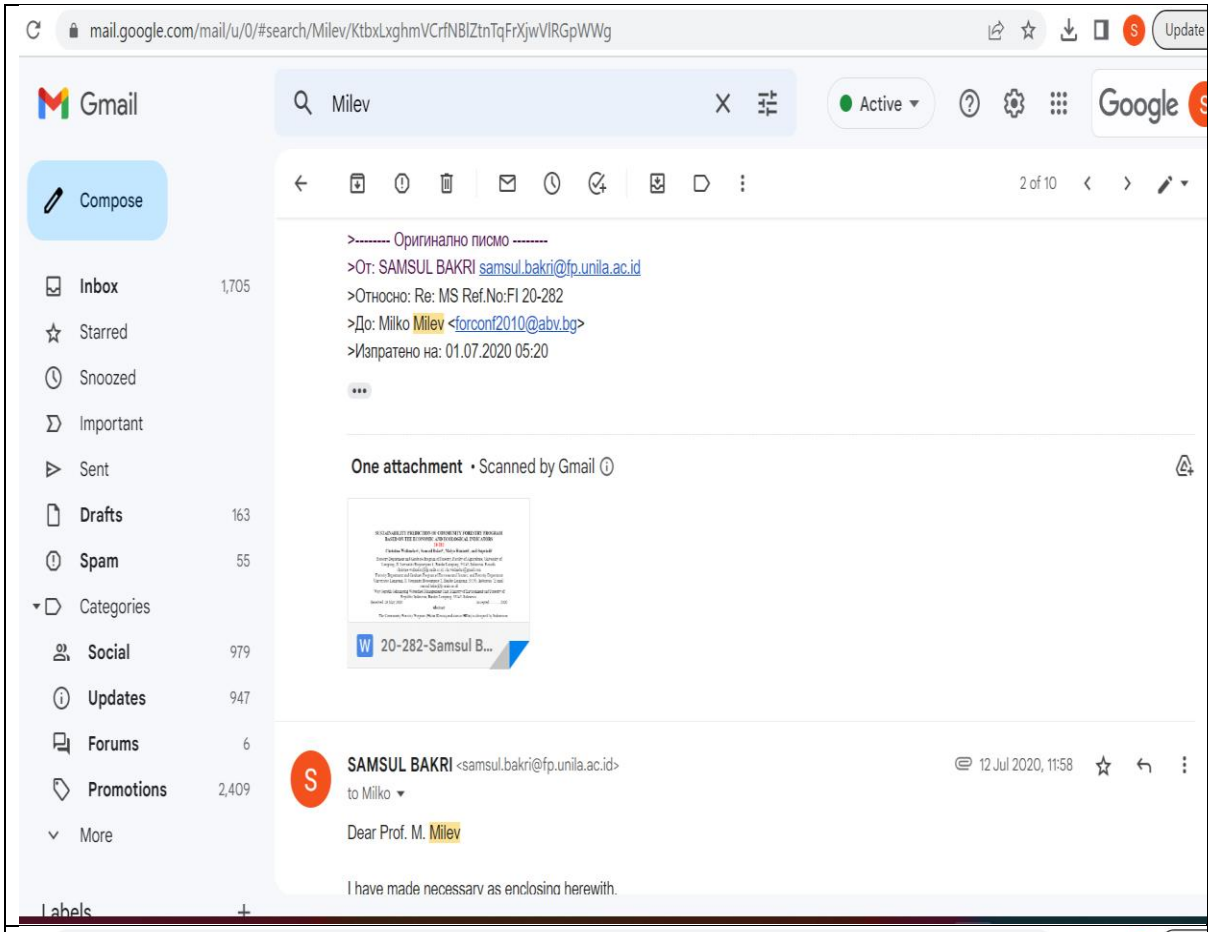
20-282-Samsul B...

Milko Milev <forconf2010@abv.bg> 1 Jul 2020, 16:24

to me

Dear Samsul,
Please make the necessary adjustments – look at the coloring.

Best regards,
Milko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2 of 10
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 01.07.2020 05:20
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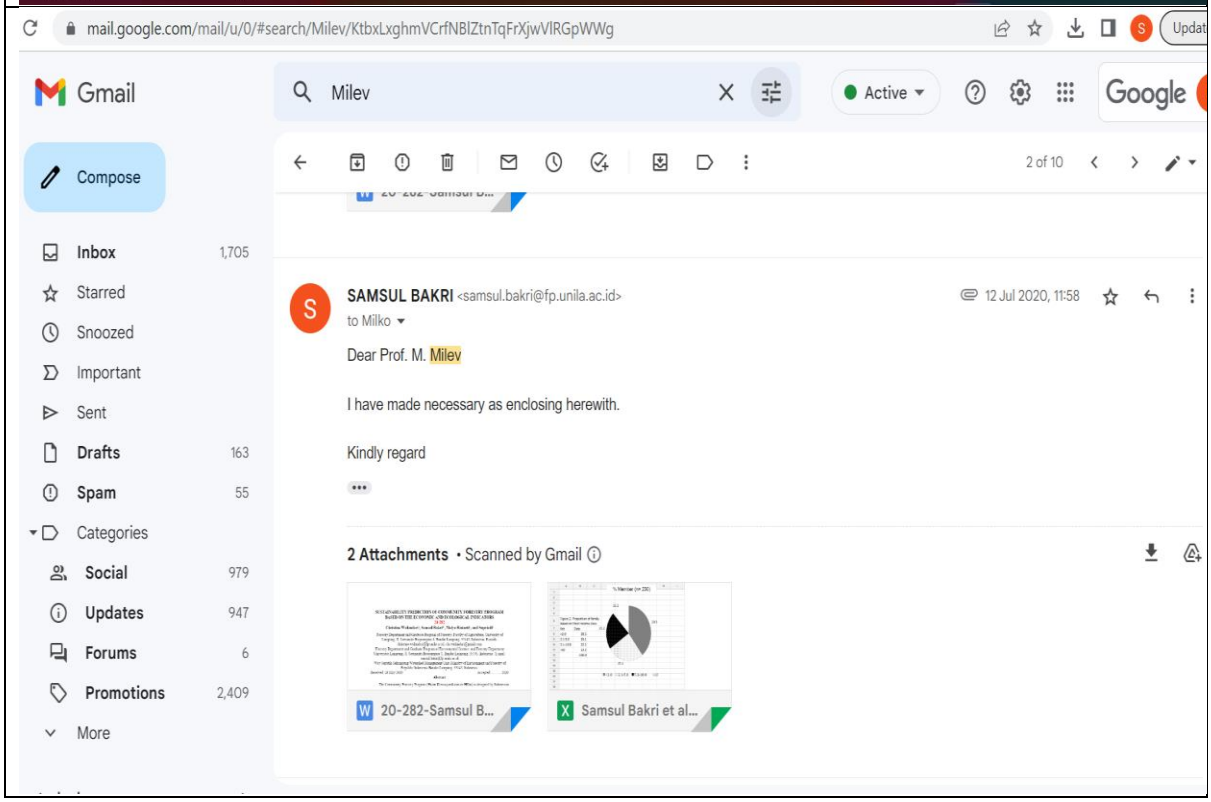
20-282-Samsul B...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
12 Jul 2020, 11:58
to Milko
Dear Prof. M. Milev
I have made necessary as enclosing herewith.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SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
12 Jul 2020, 11:58
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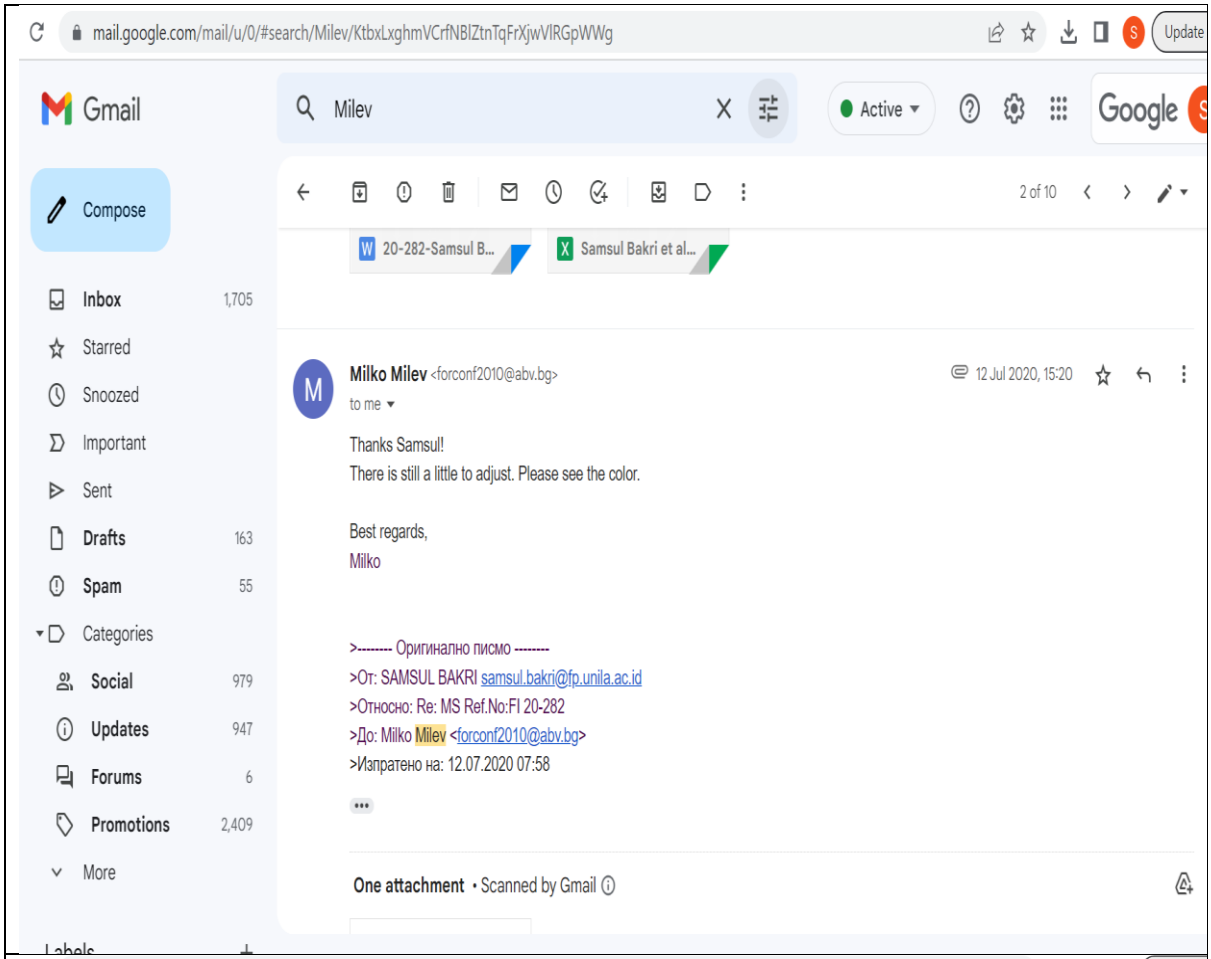
Kindly regard
2 Attachments • Scanned by Gmail
20-282-Samsul B...
Samsul Bakri et al...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20-282-Samsul B...
Samsul Bakri et al...
Milko Milev <forconf2010@abv.bg>
12 Jul 2020, 15:20
to me
Thanks Samsul!
There is still a little to adjust. Please see the color.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 12.07.2020 07:58
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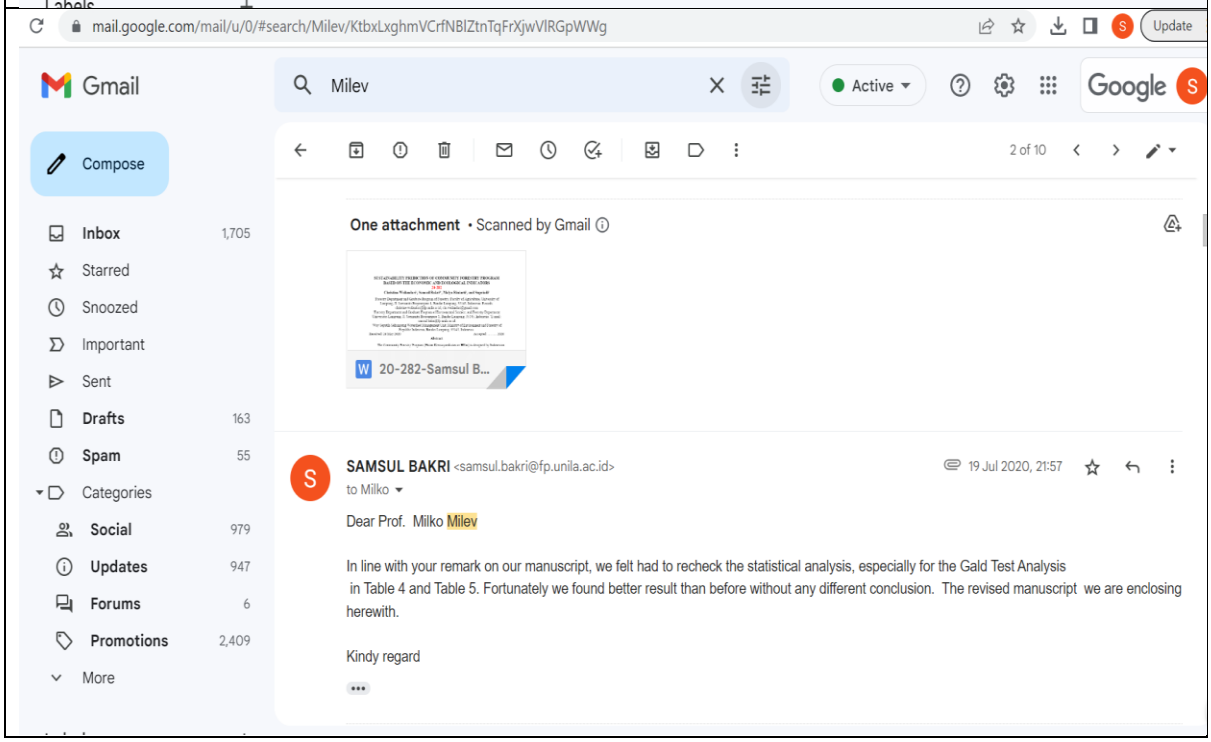
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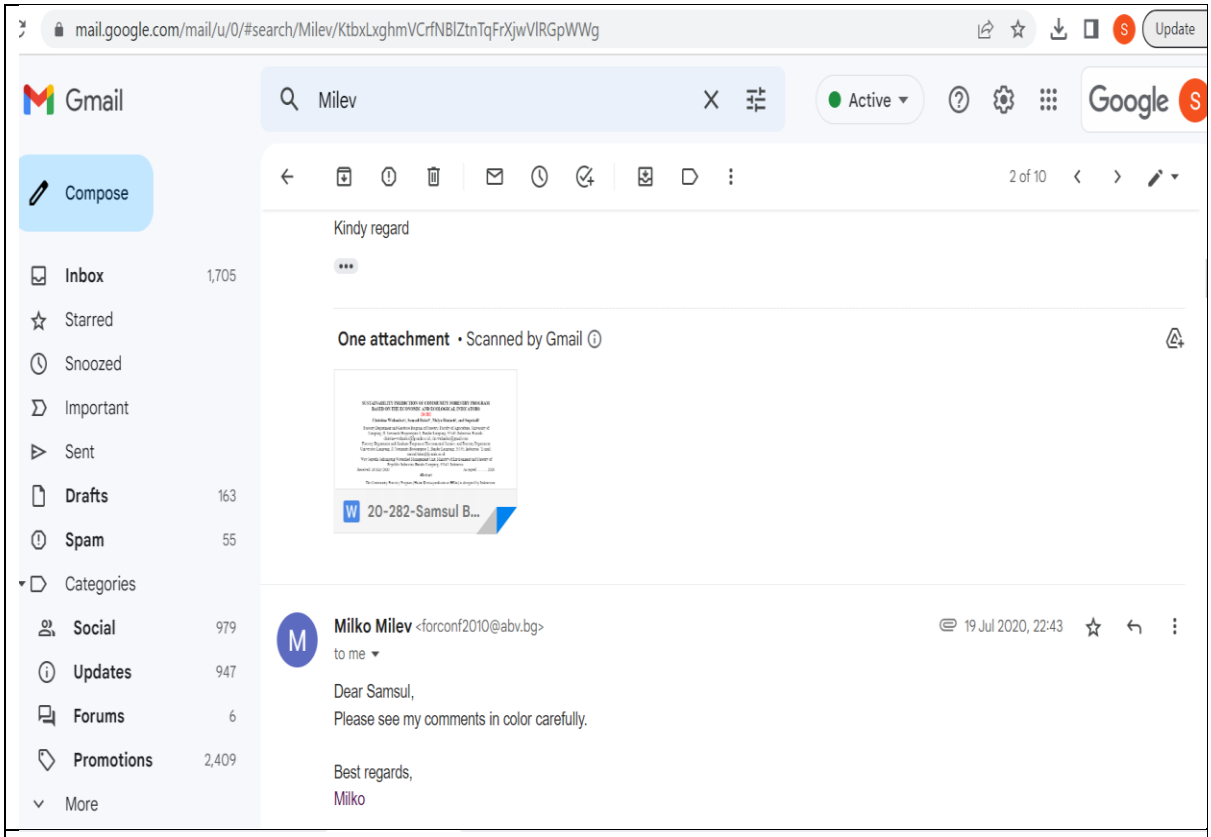
One attachment • Scanned by Gmail
20-282-Samsul B...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
19 Jul 2020, 21:57
to Milko
Dear Prof. Milko Milev
In line with your remark on our manuscript, we felt had to recheck the statistical analysis, especially for the Gald Test Analysis in Table 4 and Table 5. Fortunately we found better result than before without any different conclusion. The revised manuscript we are enclosing herewith.
Kindy regard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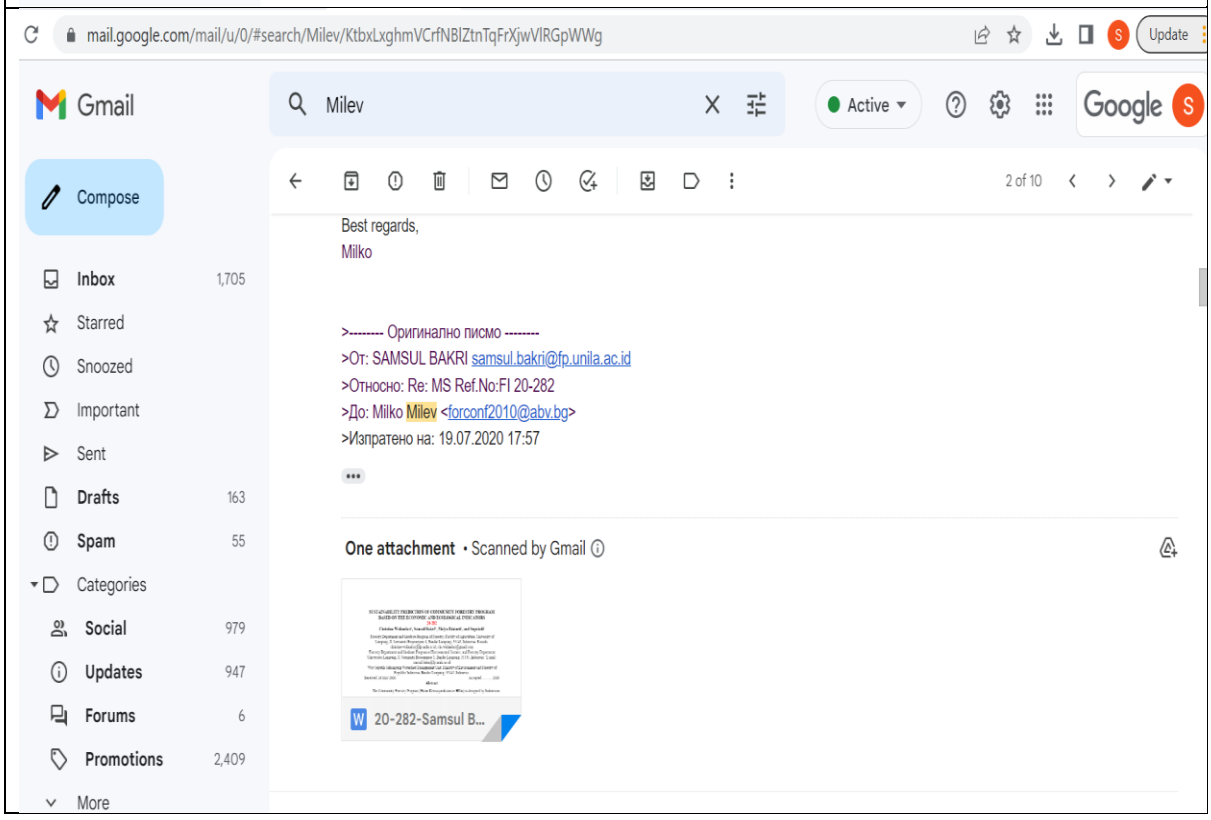
Forums 6
Promotions 2,409
More
Kindy regard
One attachment • Scanned by Gmail
20-282-Samsul B...
Milko Milev <forconf2010@abv.bg>
19 Jul 2020, 22:43
to me
Dear Samsul,
Please see my comments in color carefully.
Best regards,
Milko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Social 979
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More
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 19.07.2020 17:57
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SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id> 26 Jul 2020, 10:43
to Milko

Dear Prof Milko Milev.

I have tried to improve our manuscript based on your remarks. I am hoping to next your correction later on.

Kindly regard.

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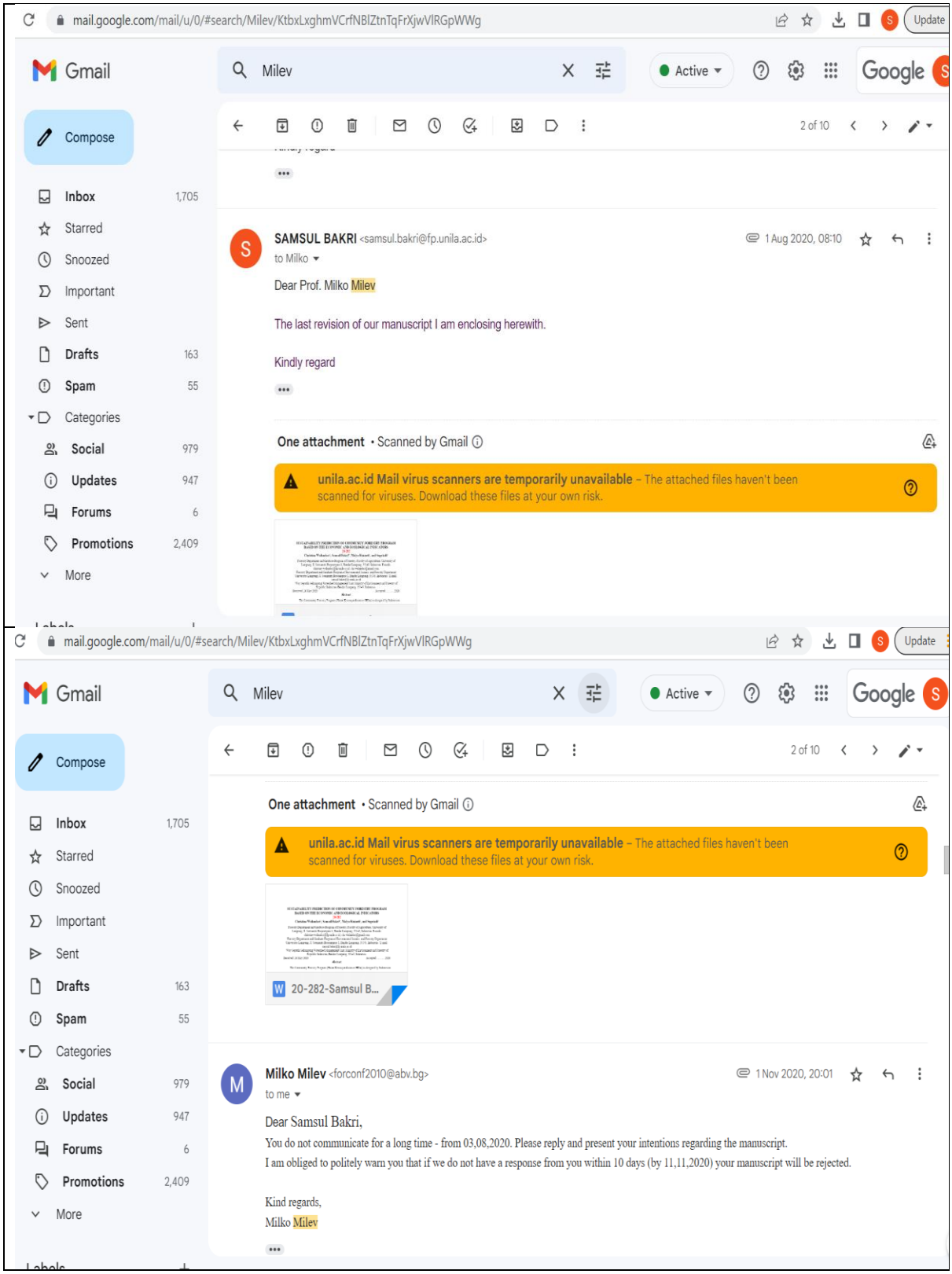
20-282-Samsul B...

SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id> 1 Aug 2020, 08:09
to Milko

Dera Prof. Milko Milev

The last revision of our manuscript I am enclosing herewith.

Kindly regard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SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
1 Aug 2020, 08:10
to Milko
Dear Prof. Milko Milev
The last revision of our manuscript I am enclosing herewith.
Kindly regard
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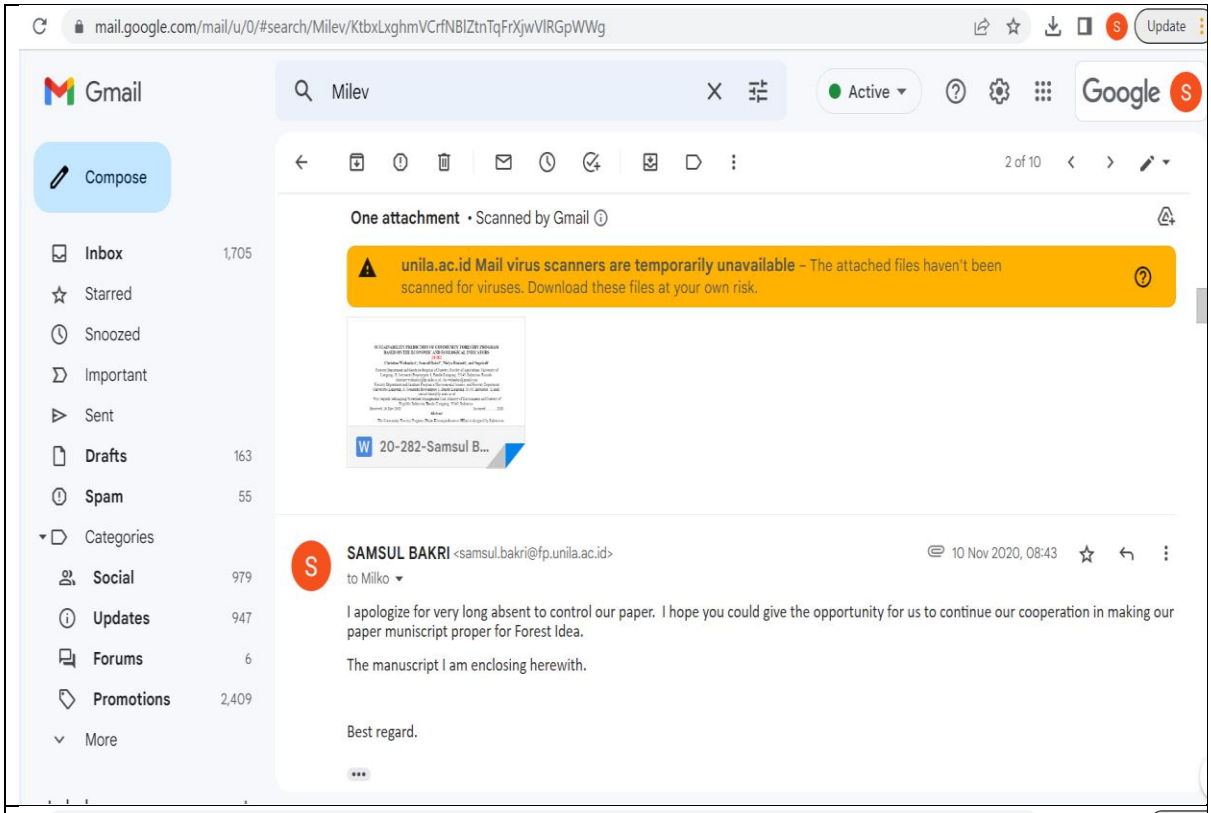
20-282-Samsul B...
Milko Milev <forconf2010@abv.bg>
1 Nov 2020, 20:01
to me
Dear Samsul Bakri,
You do not communicate for a long time - from 03,08,2020. Please reply and present your intentions regarding the manuscript.
I am obliged to politely warn you that if we do not have a response from you within 10 days (by 11,11,2020) your manuscript will be rejected.
Kind regards,
Milko Milev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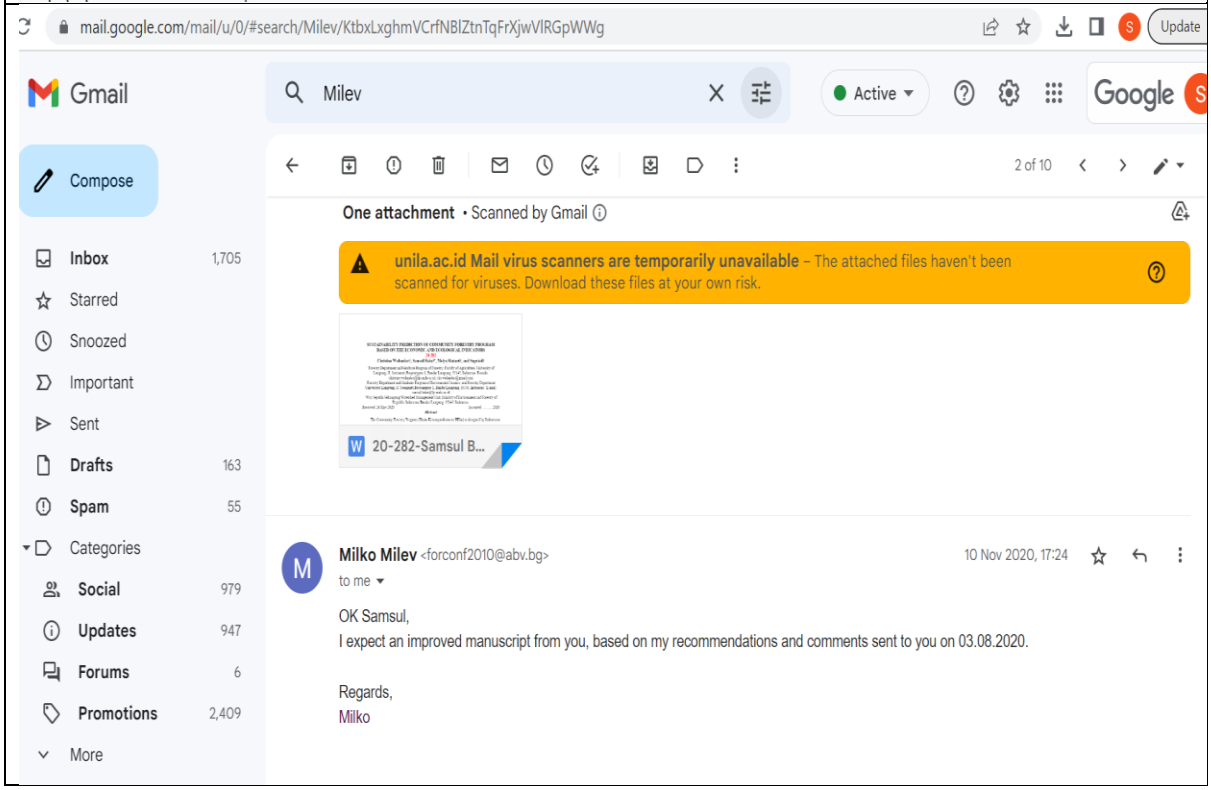
20-282-Samsul B...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
10 Nov 2020, 08:43
to Milko
I apologize for very long absent to control our paper. I hope you could give the opportunity for us to continue our cooperation in making our paper muniscript proper for Forest Idea.
The manuscript I am enclosing herewith.
Best regard.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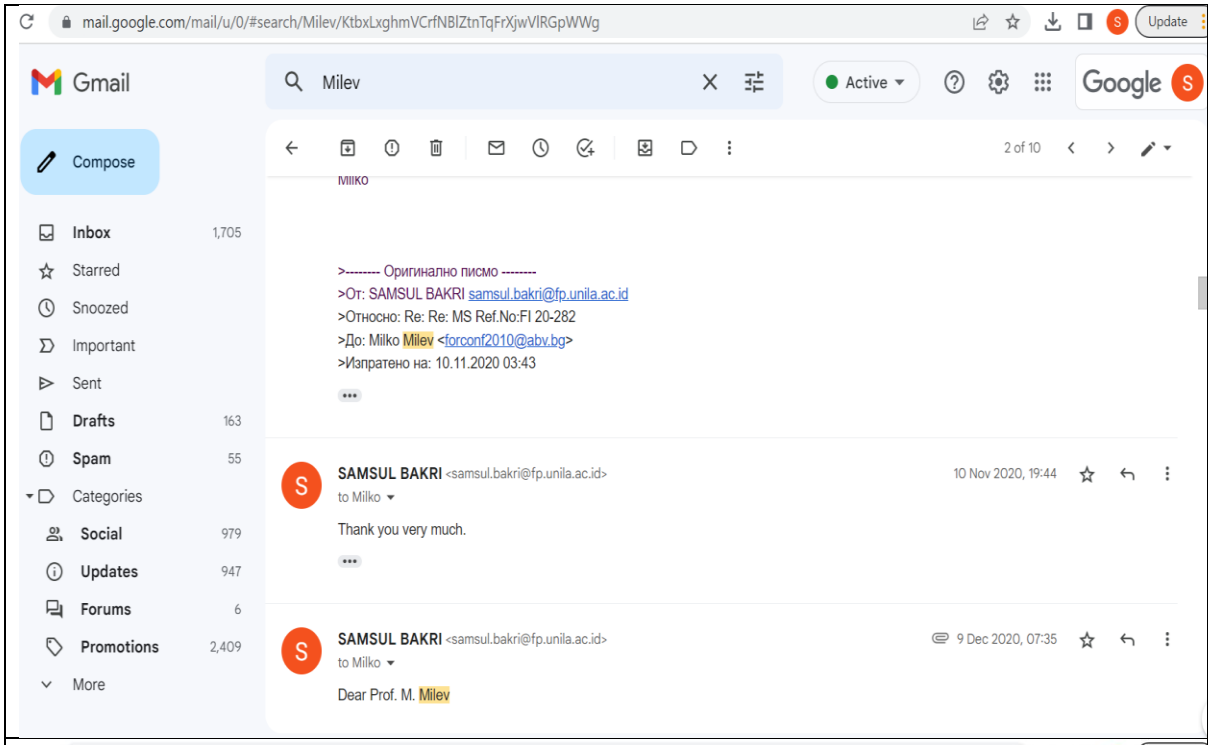
20-282-Samsul B...
Milko Milev <forconf2010@abv.bg>
10 Nov 2020, 17:24
to me
OK Samsul,
I expect an improved manuscript from you, based on my recommendations and comments sent to you on 03.08.2020.
Regards,
Milko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Social 979
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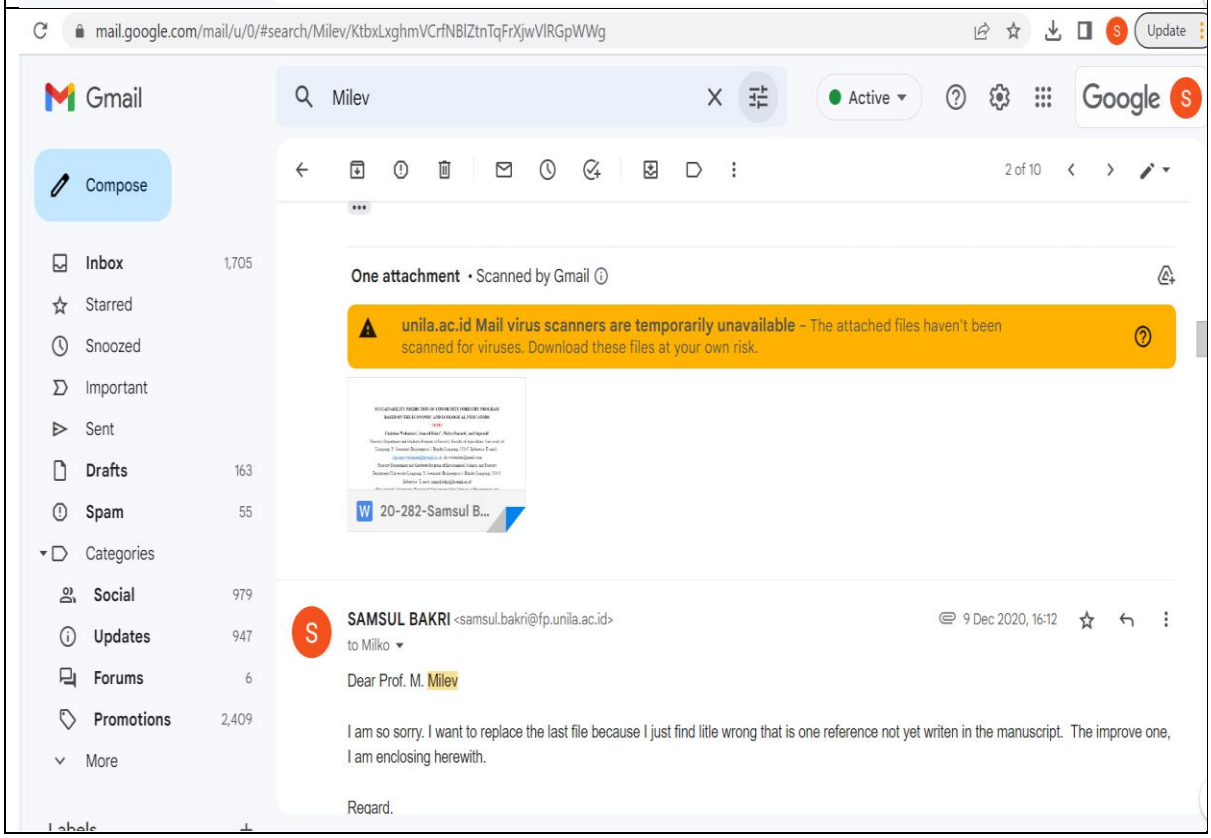
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 10.11.2020 03:43
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
to Milko
10 Nov 2020, 19:44
Thank you very much.
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
to Milko
9 Dec 2020, 07:35
Dear Prof. M. Milev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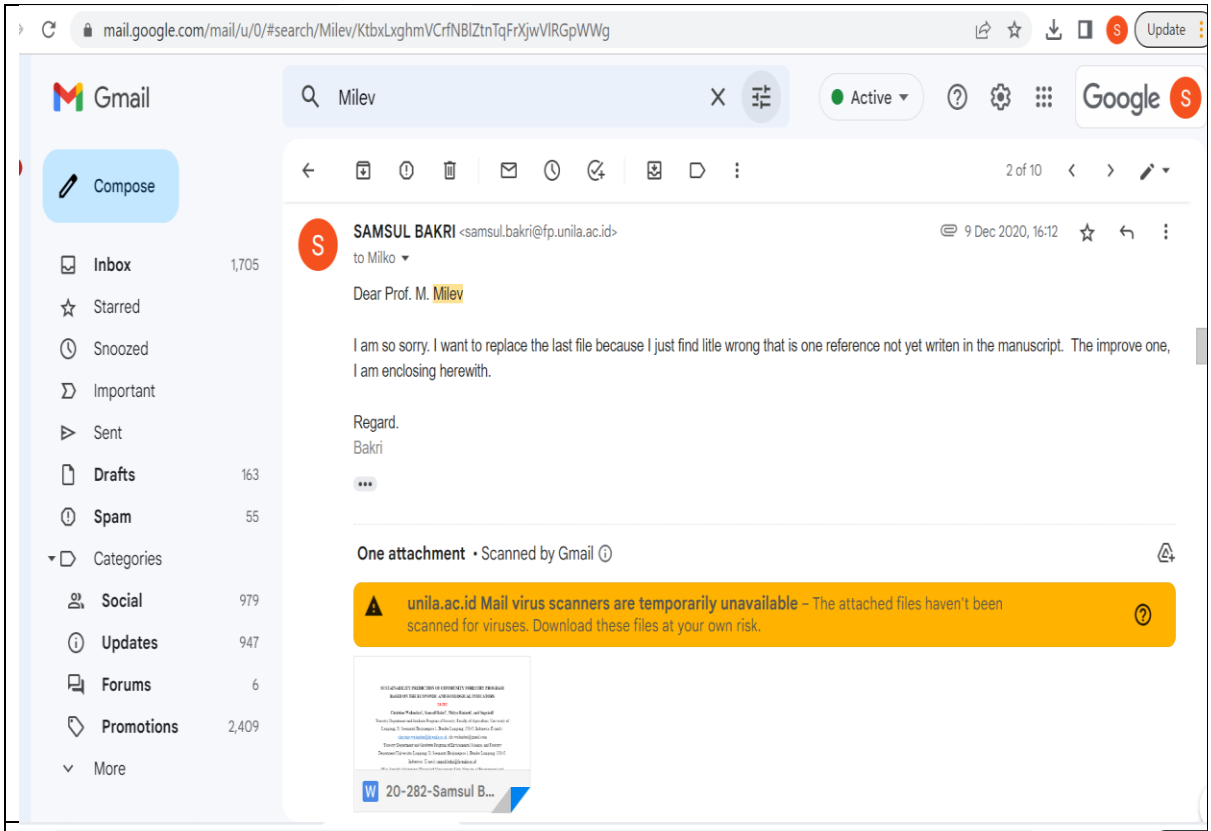
20-282-Samsul B...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
to Milko
9 Dec 2020, 16:12
Dear Prof. M. Milev
I am so sorry. I want to replace the last file because I just find litle wrong that is one reference not yet writen in the manuscript. The improve one, I am enclosing herewith.
Regard.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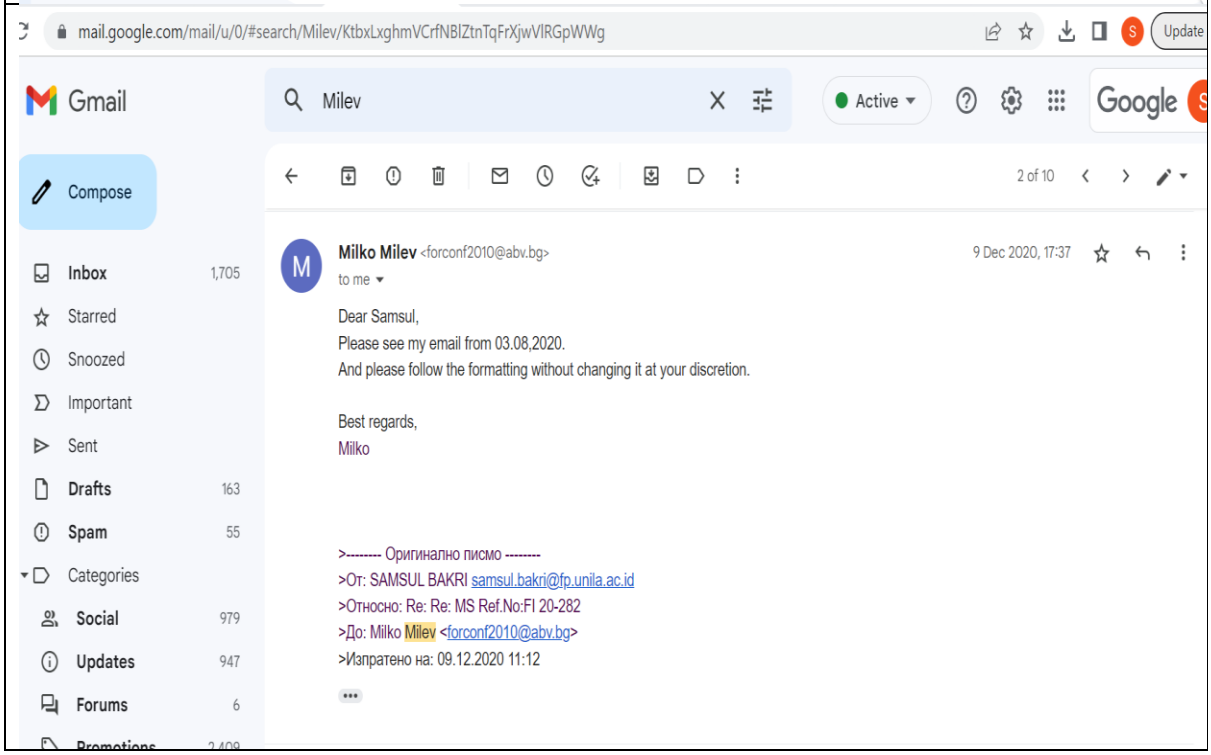
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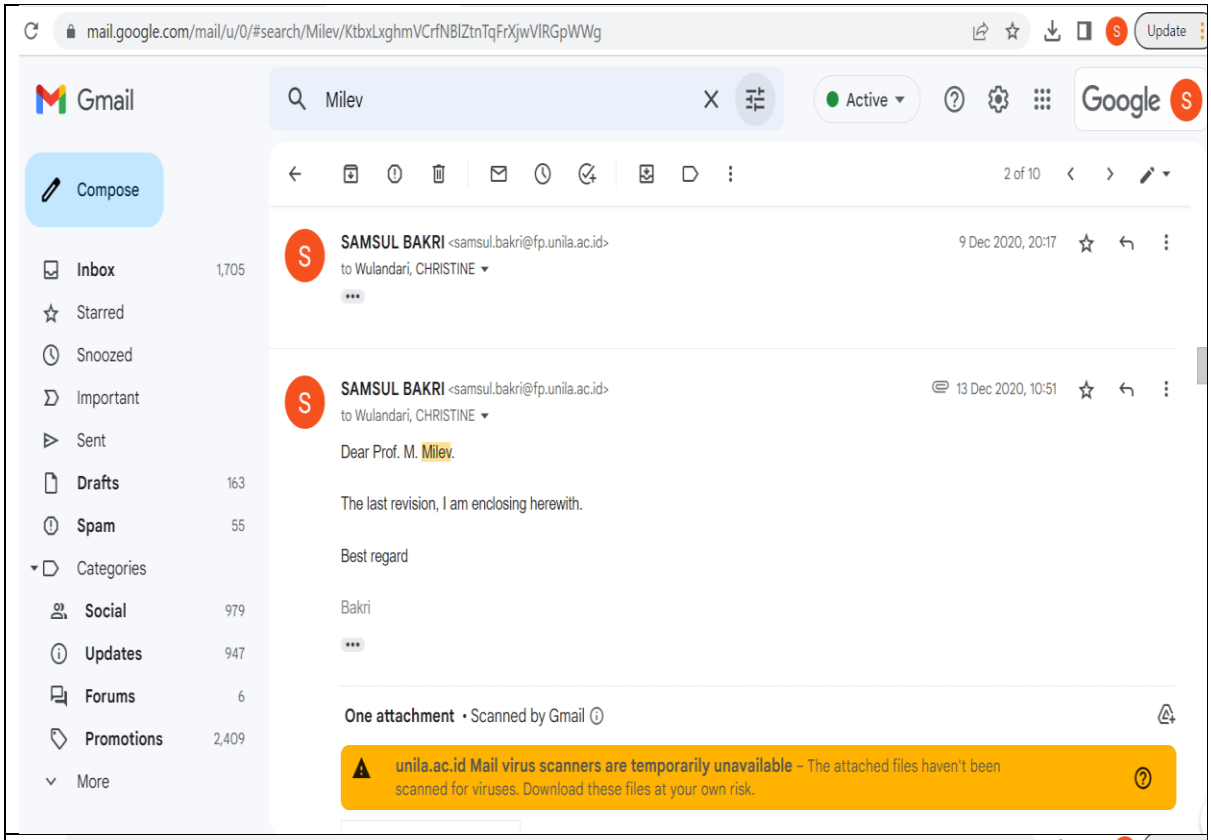
Milko Milev <forconf2010@abv.bg>
9 Dec 2020, 17:37
to me
Dear Samsul,
Please see my email from 03.08.2020.
And please follow the formatting without changing it at your discretion.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 09.12.2020 11:12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SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
to Wulandari, CHRISTINE
9 Dec 2020, 20:17
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
to Wulandari, CHRISTINE
13 Dec 2020, 10:51
Dear Prof. M. Milev.
The last revision, I am enclosing herewith.
Best regard
Bakri
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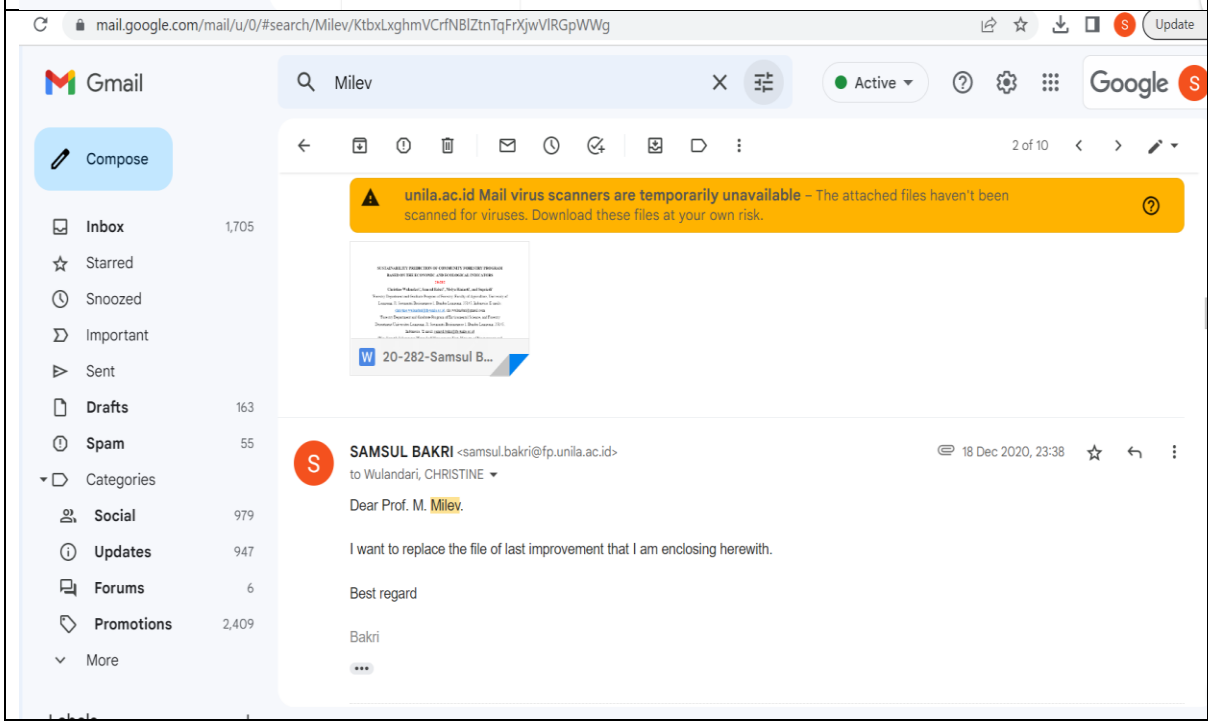
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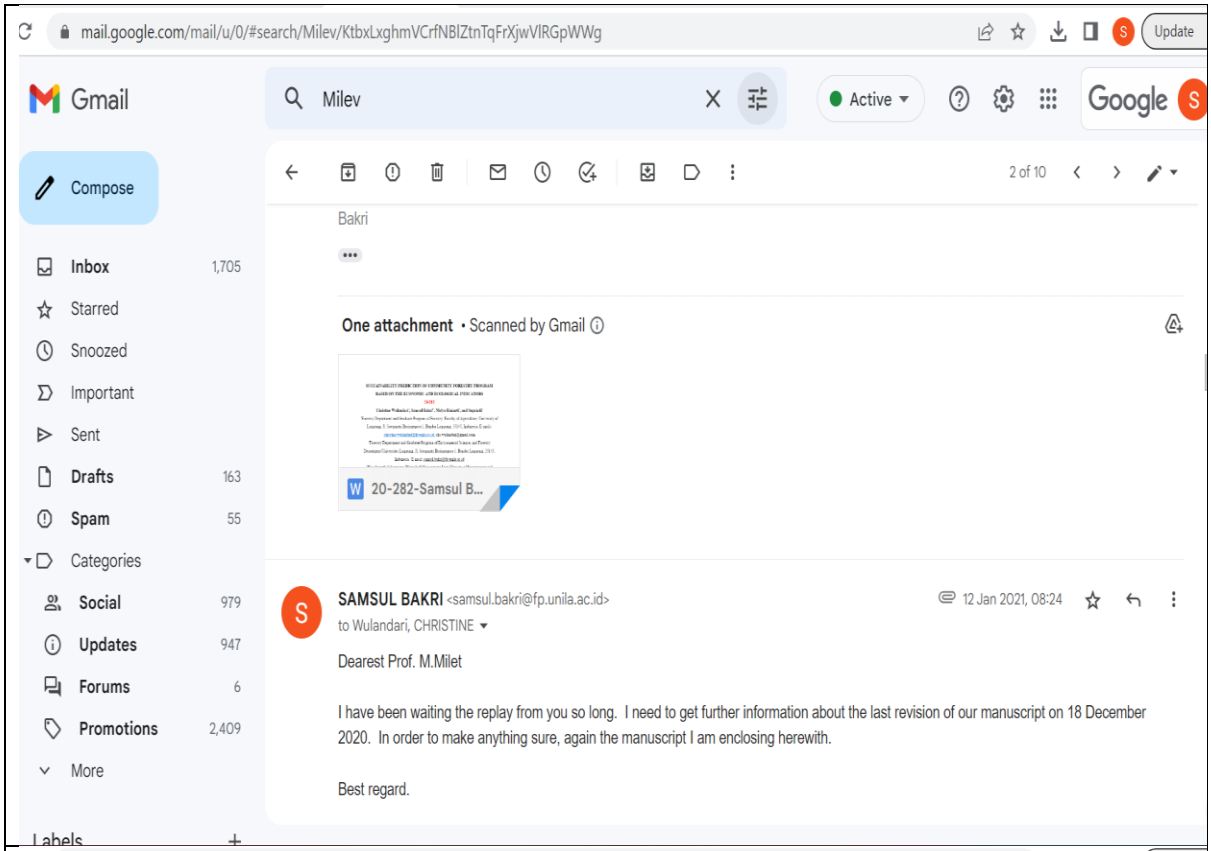
20-282-Samsul B...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
to Wulandari, CHRISTINE
18 Dec 2020, 23:38
Dear Prof. M. Milev.
I want to replace the file of last improvement that I am enclosing herewith.
Best regard
Bakri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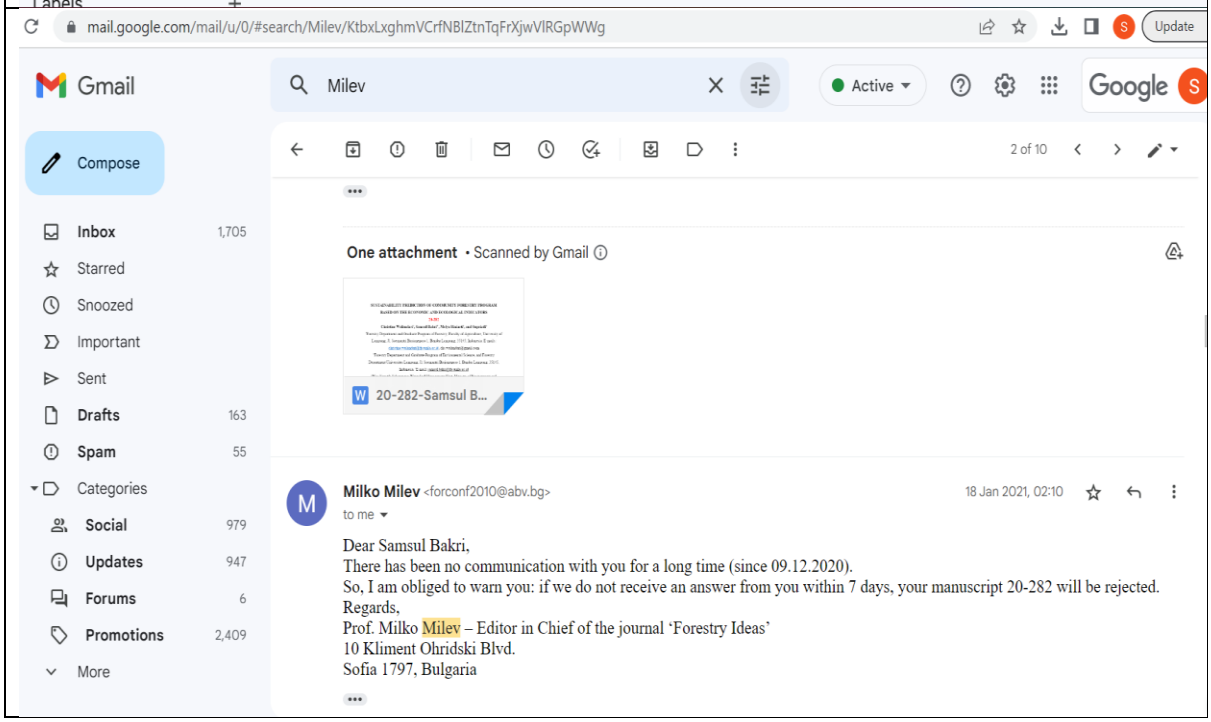
20-282-Samsul B...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
12 Jan 2021, 08:24
to Wulandari, CHRISTINE
Dearest Prof. M.Milet
I have been waiting the replay from you so long. I need to get further information about the last revision of our manuscript on 18 December 2020. In order to make anything sure, again the manuscript I am enclosing herewith.
Best regard.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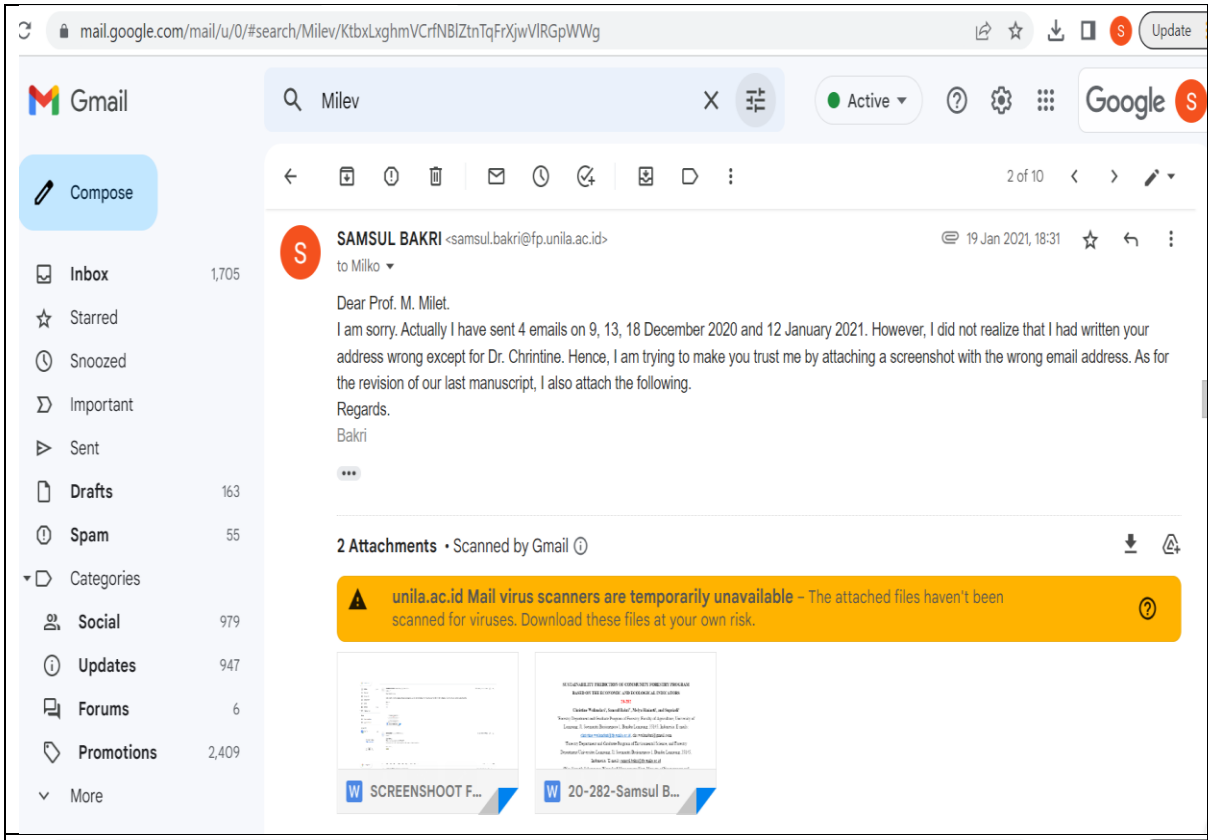
Forums 6
Promotions 2,409
More
2 of 10
One attachment • Scanned by Gmail
20-282-Samsul B...
Milko Milev <forconf2010@abv.bg>
18 Jan 2021, 02:10
to me
Dear Samsul Bakri,
There has been no communication with you for a long time (since 09.12.2020).
So, I am obliged to warn you: if we do not receive an answer from you within 7 days, your manuscript 20-282 will be rejected.
Regards,
Prof. Milko Milev – Editor in Chief of the journal 'Forestry Ideas'
10 Kliment Ohridski Blvd.
Sofia 1797, Bulgaria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Drafts 163
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Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
19 Jan 2021, 18:31
to Milko
Dear Prof. M. Milet.
I am sorry. Actually I have sent 4 emails on 9, 13, 18 December 2020 and 12 January 2021. However, I did not realize that I had written your address wrong except for Dr. Chrintine. Hence, I am trying to make you trust me by attaching a screenshot with the wrong email address. As for the revision of our last manuscript, I also attach the following.
Regards.
Bakri
2 Attachments • Scanned by Gmail
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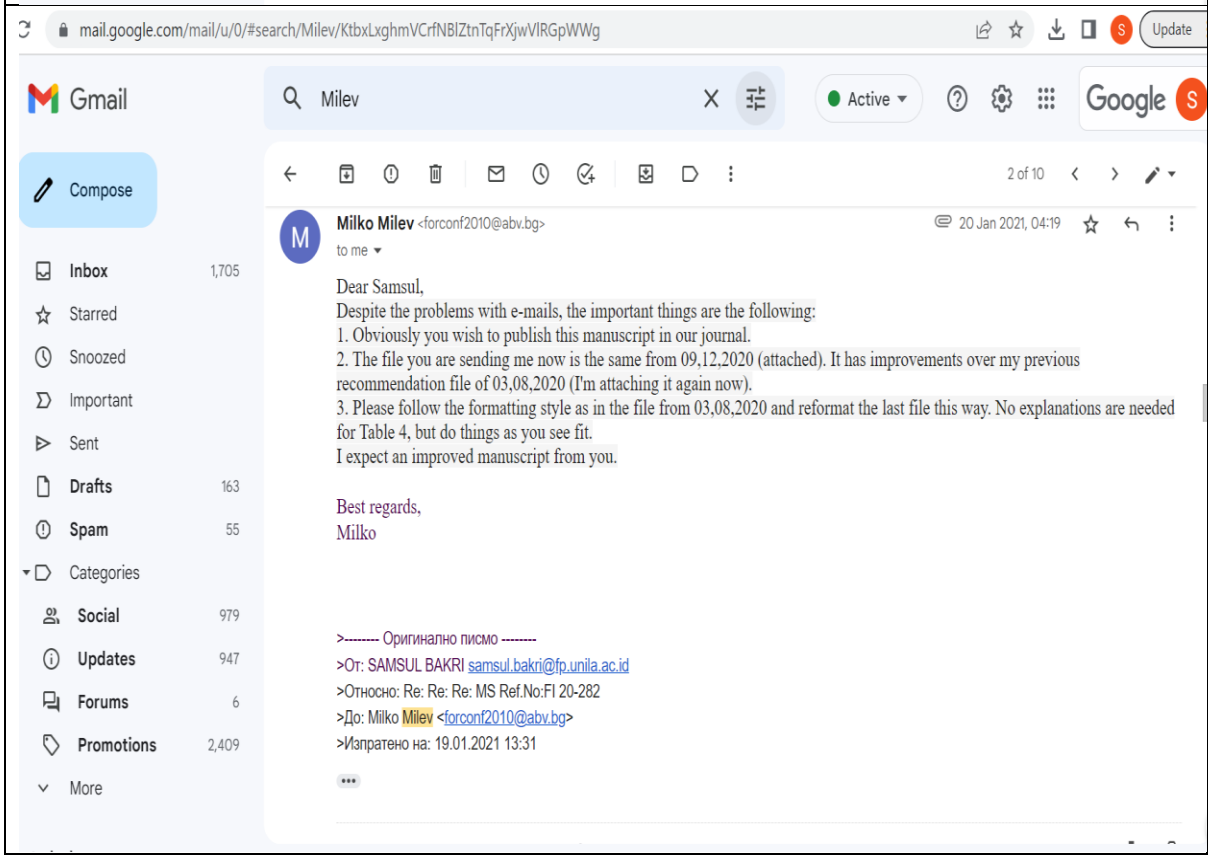
20-282-Samsul B...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Drafts 163
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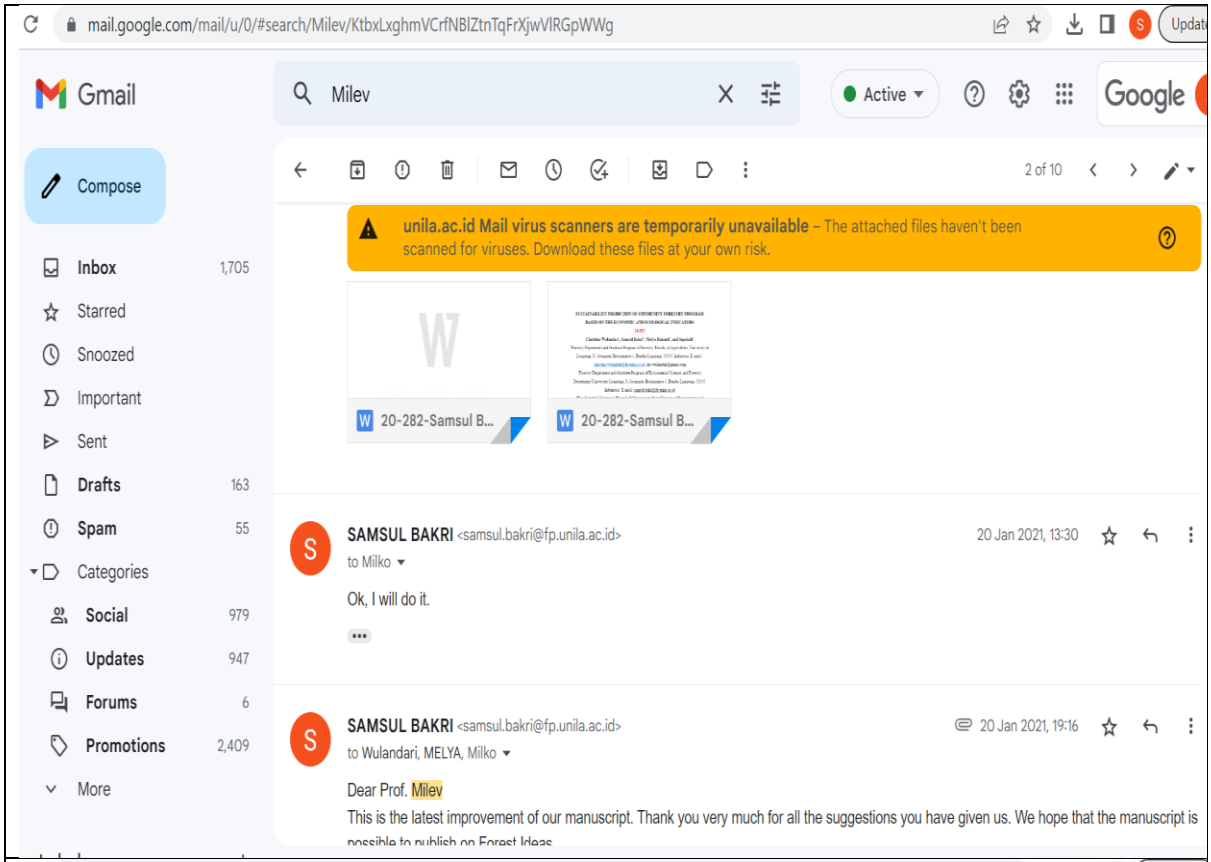
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
Milko Milev <forconf2010@abv.bg>
20 Jan 2021, 04:19
to me
Dear Samsul,
Despite the problems with e-mails, the important things are the following:
1. Obviously you wish to publish this manuscript in our journal.
2. The file you are sending me now is the same from 09,12,2020 (attached). It has improvements over my previous recommendation file of 03,08,2020 (I'm attaching it again now).
3. Please follow the formatting style as in the file from 03,08,2020 and reformat the last file this way. No explanations are needed for Table 4, but do things as you see fit.
I expect an improved manuscript from you.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 19.01.2021 13:31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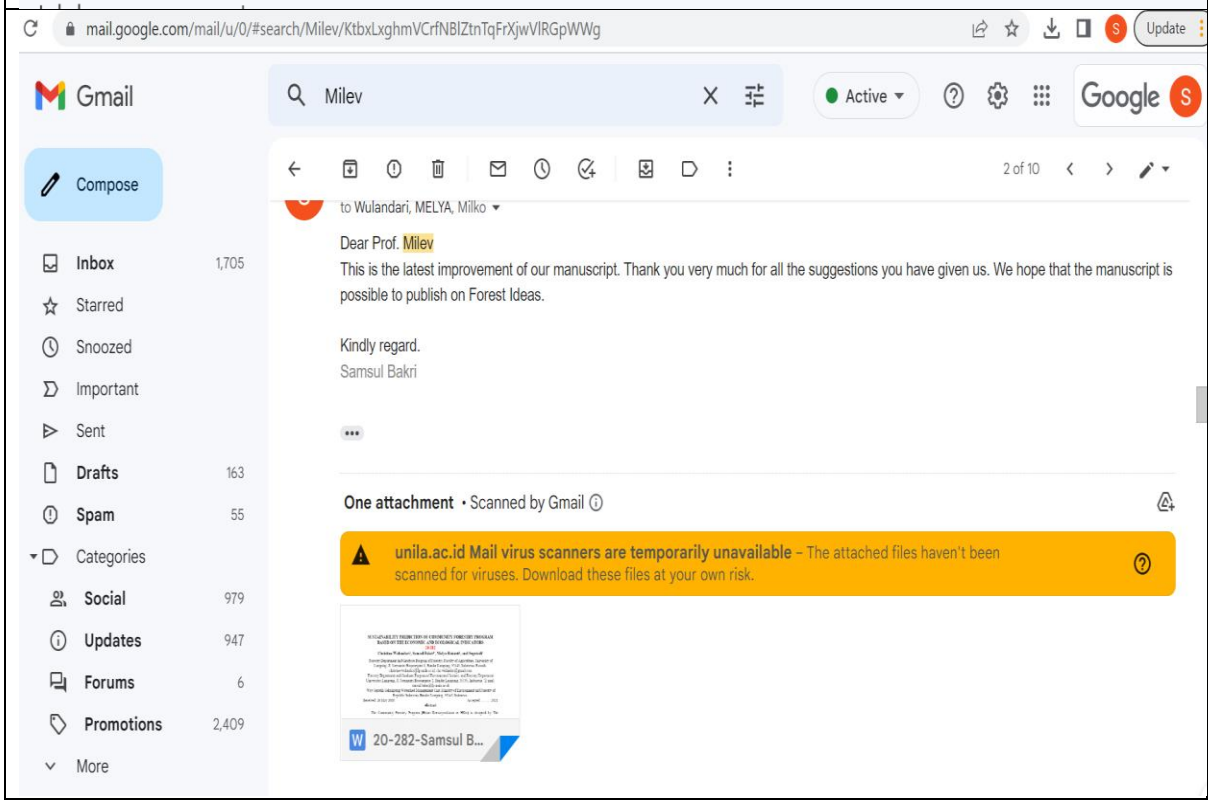
20-282-Samsul B...
20-282-Samsul B...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
20 Jan 2021, 13:30
to Milko
Ok, I will do it.
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
20 Jan 2021, 19:16
to Wulandari, MELYA, Milko
Dear Prof. Milev
This is the latest improvement of our manuscript. Thank you very much for all the suggestions you have given us. We hope that the manuscript is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to Wulandari, MELYA, Milko
Dear Prof. Milev
This is the latest improvement of our manuscript. Thank you very much for all the suggestions you have given us. We hope that the manuscript is possible to publish on Forest Ideas.
Kindly regard.
Samsul Bakri
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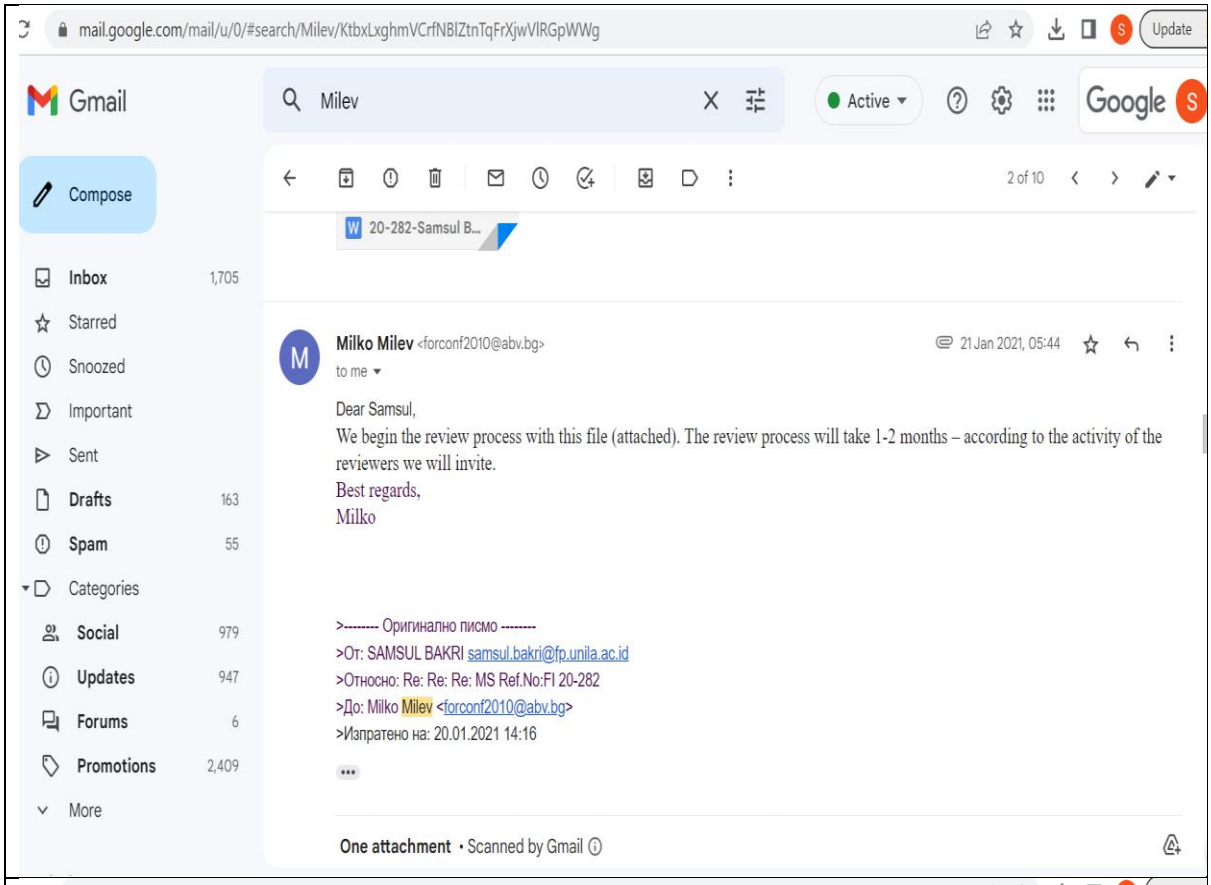
20-282-Samsul B...


mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
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2 of 10
20-282-Samsul B...
Milko Milev <forconf2010@abv.bg>
21 Jan 2021, 05:44
to me
Dear Samsul,
We begin the review process with this file (attached). The review process will take 1-2 months – according to the activity of the reviewers we will invite.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 20.01.2021 14:16
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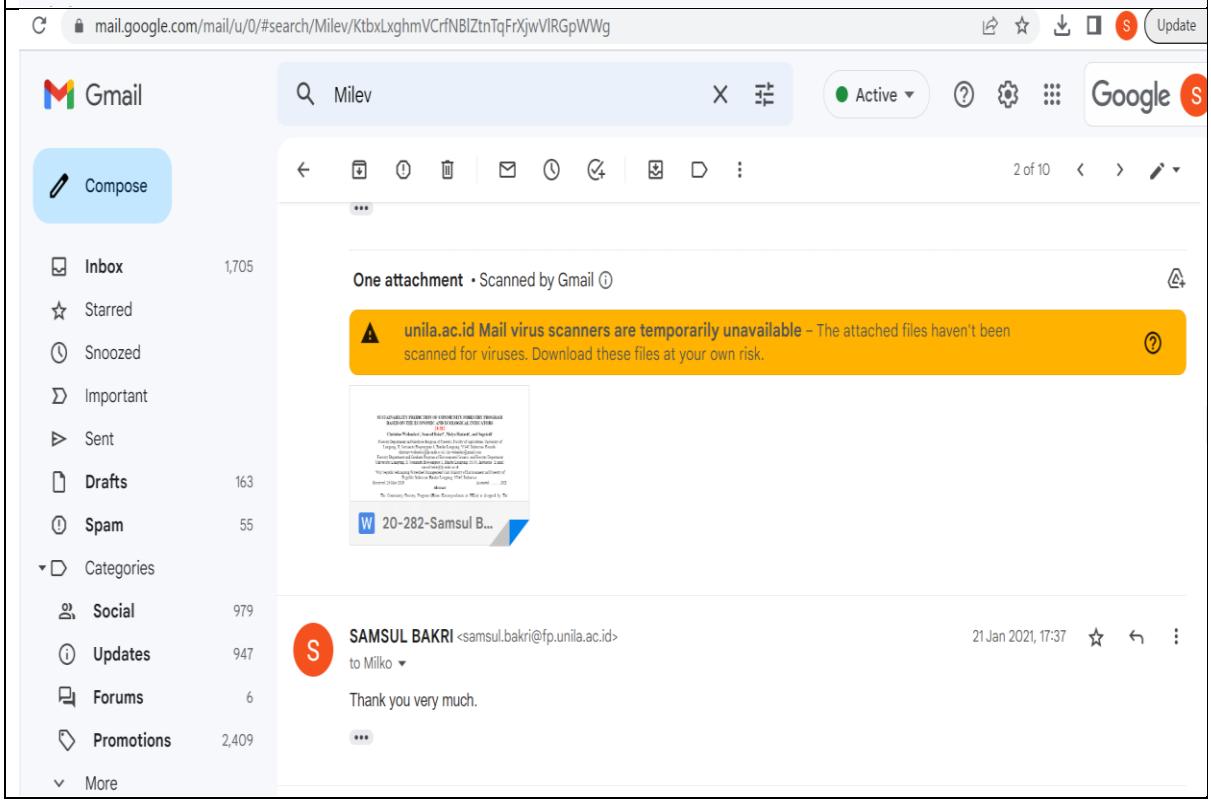
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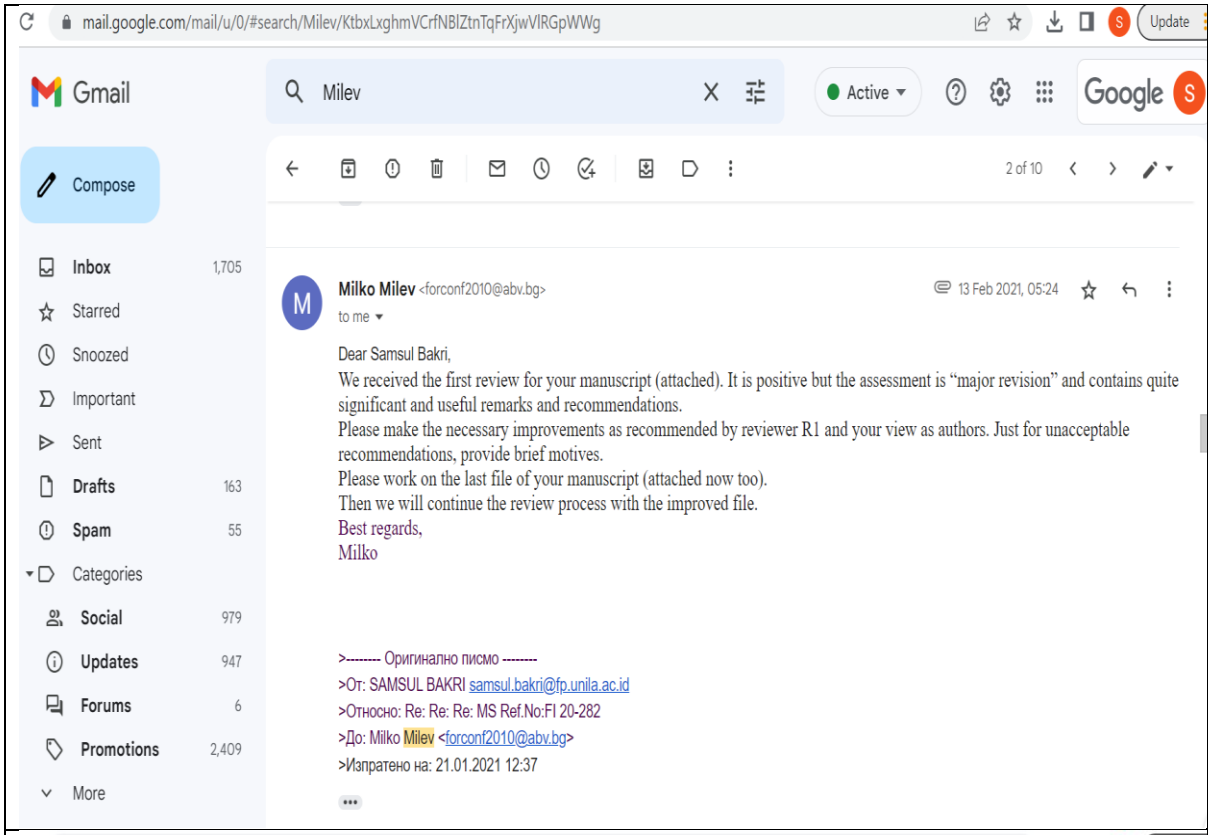
20-282-Samsul B...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
21 Jan 2021, 17:37
to Milko
Thank you very much.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Drafts 163
Spam 55
Categories
Social 979
Updates 947
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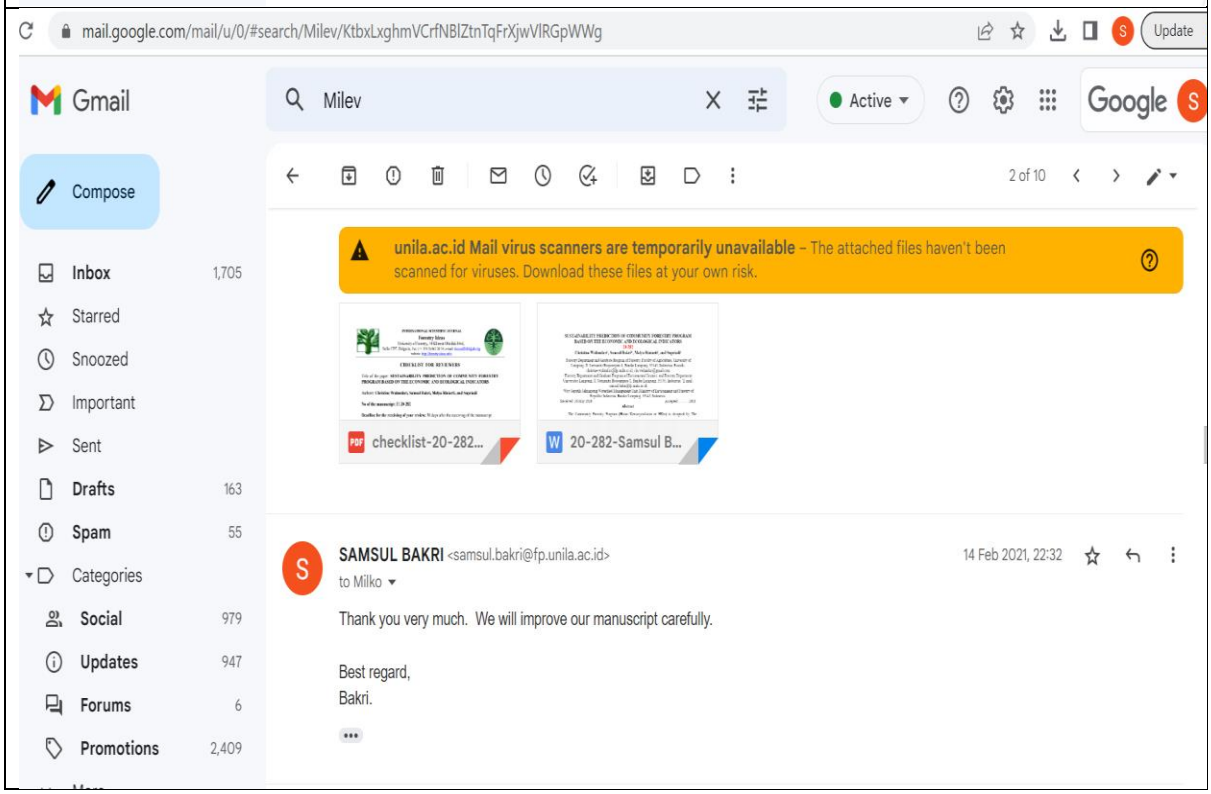
Promotions 2,409
More
Milko Milev <forconf2010@abv.bg>
13 Feb 2021, 05:24
to me
Dear Samsul Bakri,
We received the first review for your manuscript (attached). It is positive but the assessment is "major revision" and contains quite significant and useful remarks and recommendations.
Please make the necessary improvements as recommended by reviewer R1 and your view as authors. Just for unacceptable recommendations, provide brief motives.
Please work on the last file of your manuscript (attached now too).
Then we will continue the review process with the improved file.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 21.01.2021 12:37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Social 979
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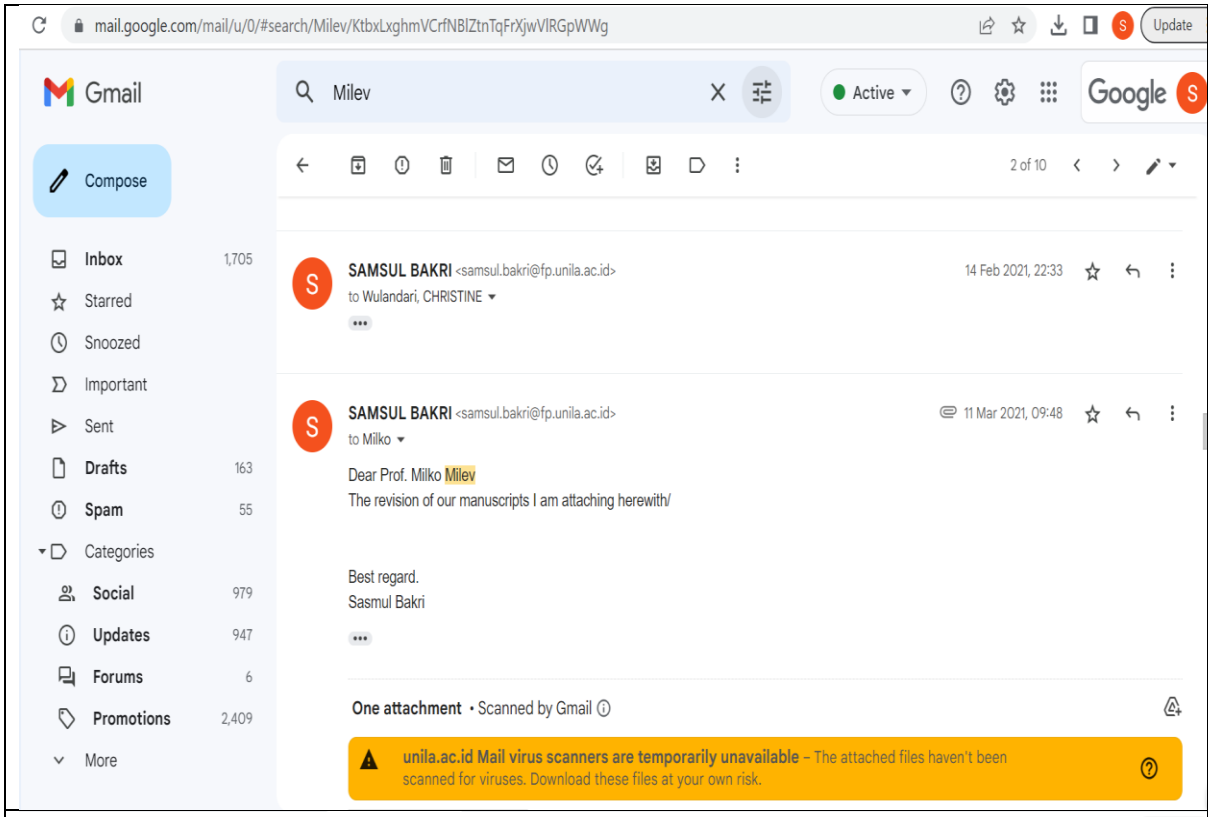
Forums 6
Promotions 2,409
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
14 Feb 2021, 22:32
to Milko
Thank you very much. We will improve our manuscript carefully.
Best regard,
Bakri.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SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
14 Feb 2021, 22:33
to Wulandari, CHRISTINE
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
11 Mar 2021, 09:48
to Milko
Dear Prof. Milko Milev
The revision of our manuscripts I am attaching herewith/
Best regard.
Sasmul Bakri
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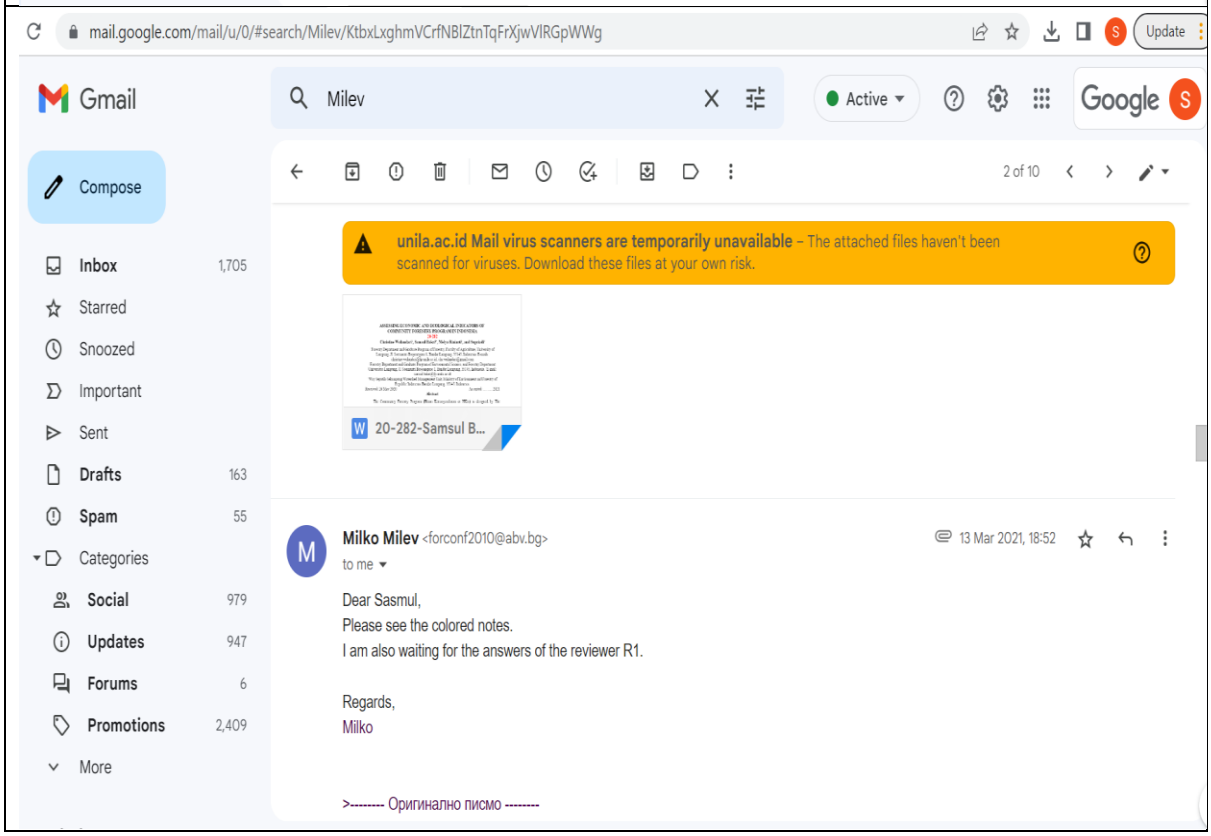
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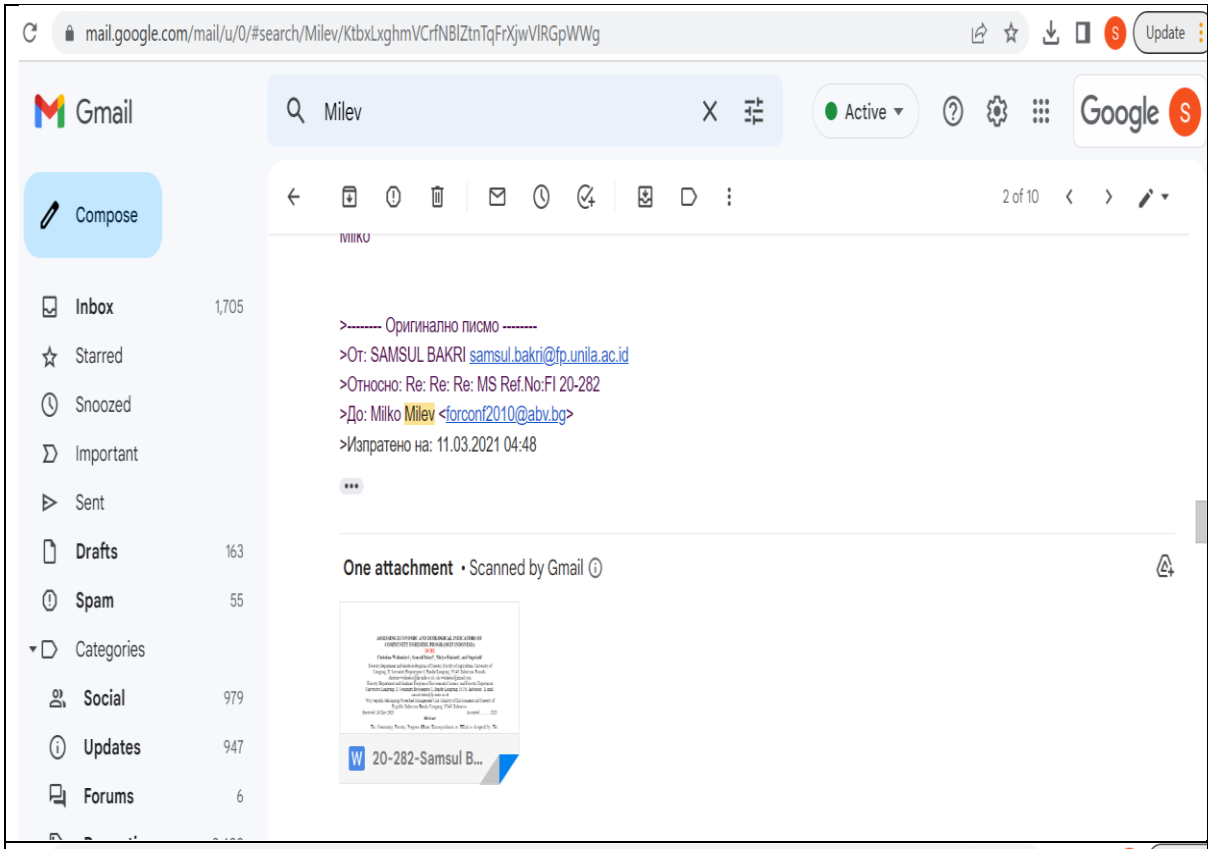
20-282-Samsul B...
Milko Milev <forconf2010@abv.bg>
13 Mar 2021, 18:52
to me
Dear Sasmul,
Please see the colored notes.
I am also waiting for the answers of the reviewer R1.
Regards,
Milko
>-------- Оригинално писмо --------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>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 11.03.2021 04:48
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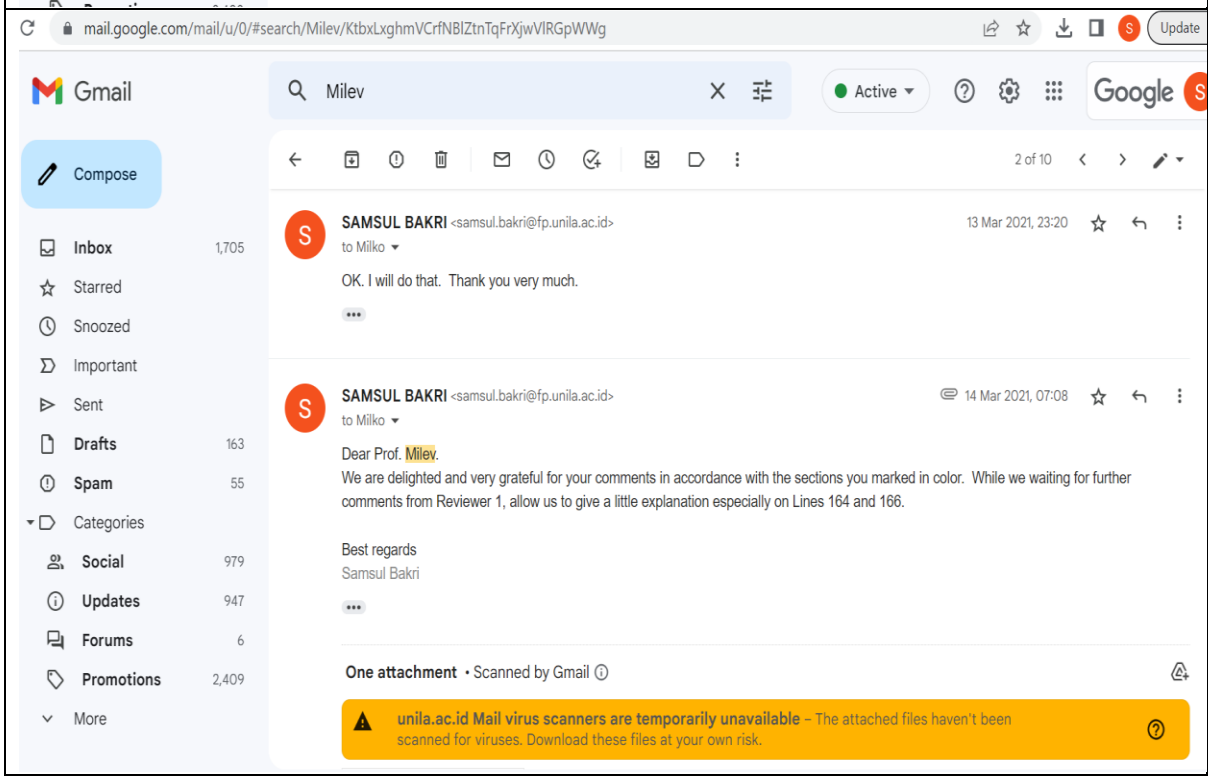
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Updates 947
Forums 6
Promotions 2,409
More
2 of 10
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
13 Mar 2021, 23:20
to Milko
OK. I will do that. Thank you very much.
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
14 Mar 2021, 07:08
to Milko
Dear Prof. Milev.
We are delighted and very grateful for your comments in accordance with the sections you marked in color. While we waiting for further comments from Reviewer 1, allow us to give a little explanation especially on Lines 164 and 166.
Best regards
Samsul Bakri
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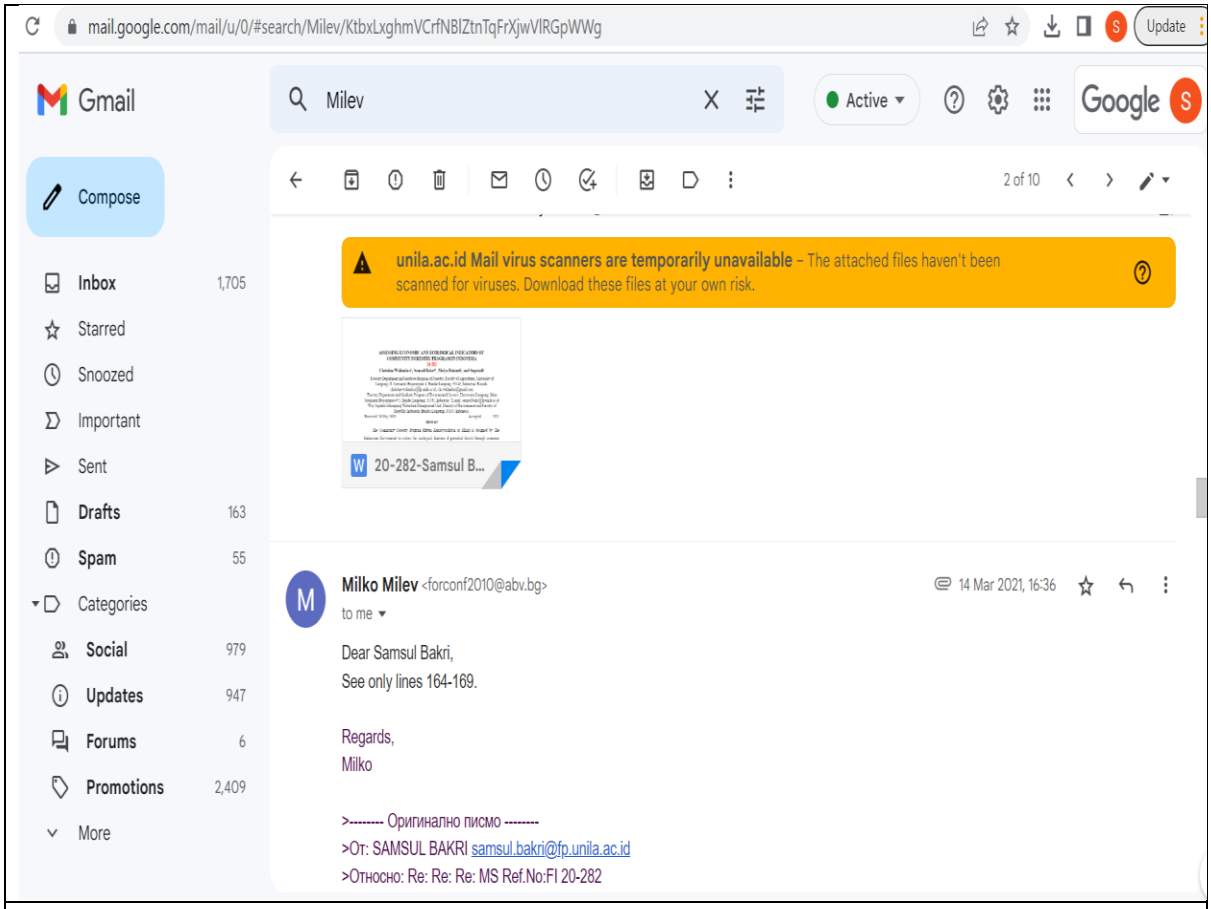
mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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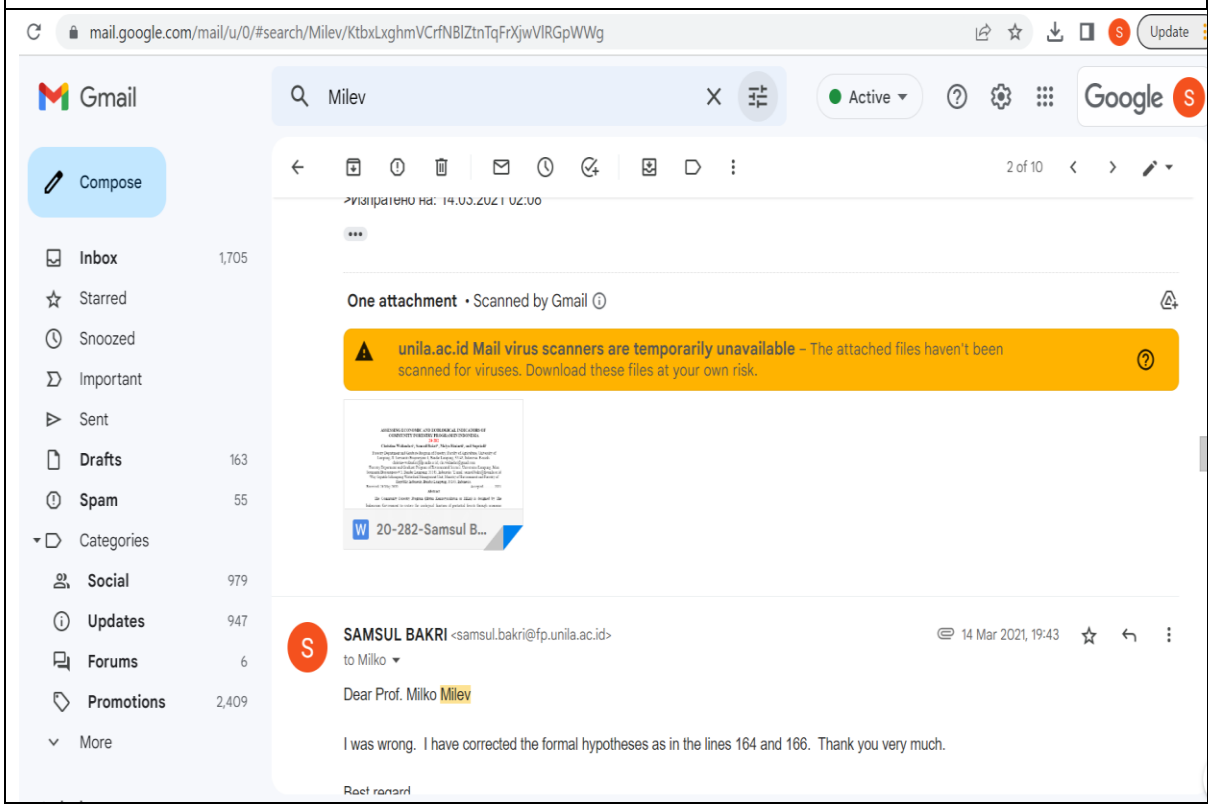
20-282-Samsul B...
Milko Milev <forconf2010@abv.bg>
14 Mar 2021, 16:36
to me
Dear Samsul Bakri,
See only lines 164-169.
Regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282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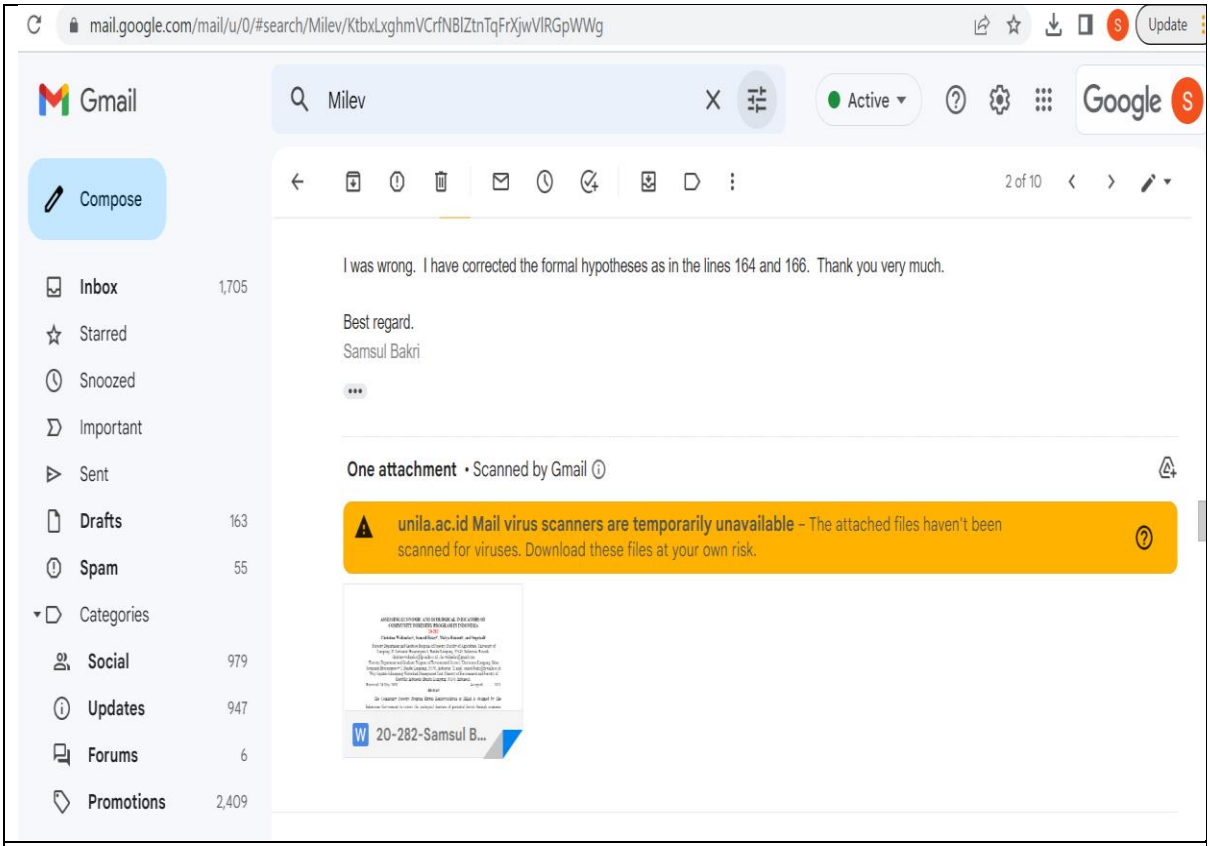
20-282-Samsul B...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
14 Mar 2021, 19:43
to Milko
Dear Prof. Milko Milev
I was wrong. I have corrected the formal hypotheses as in the lines 164 and 166. Thank you very much.
Best regard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I was wrong. I have corrected the formal hypotheses as in the lines 164 and 166. Thank you very much.
Best regard.
Samsul Bakri
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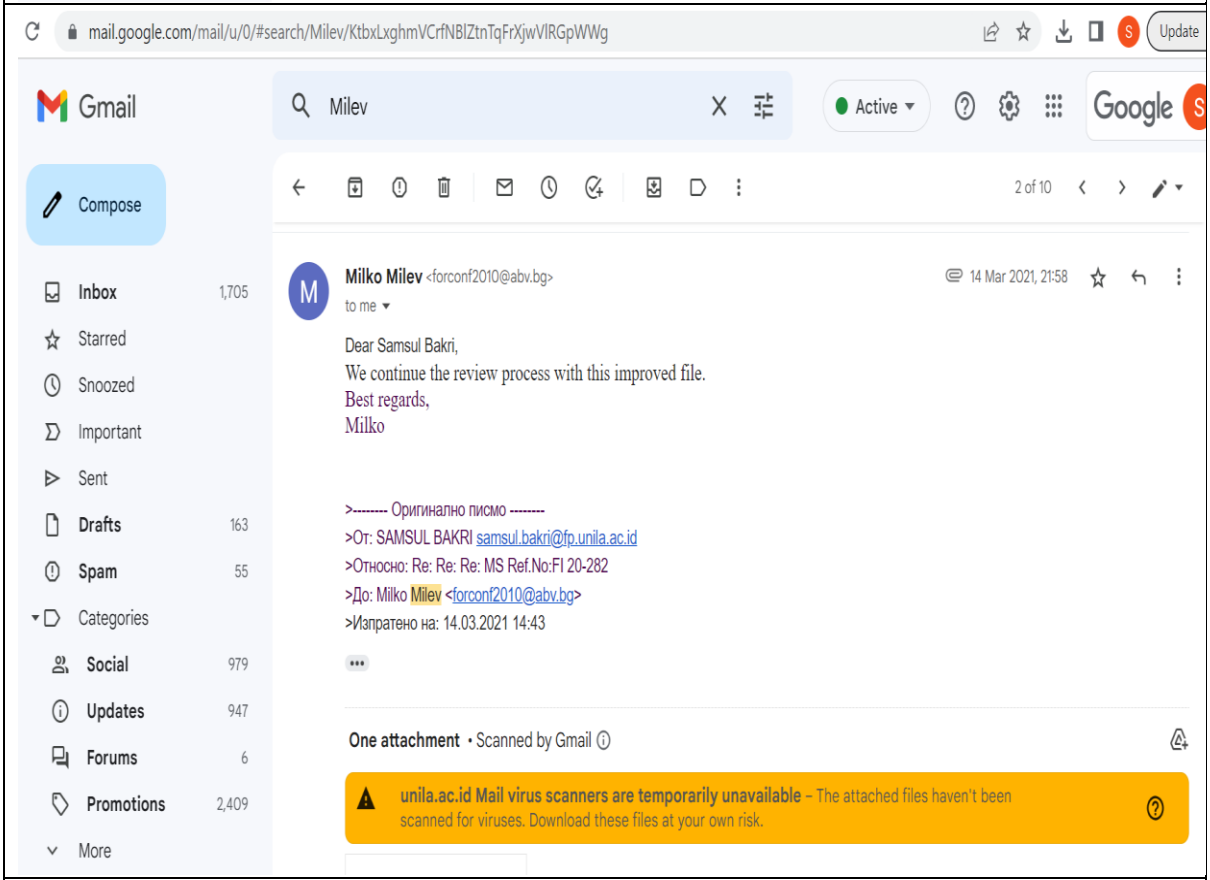
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Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
Milko Milev <forconf2010@abv.bg>
to me
14 Mar 2021, 21:58
Dear Samsul Bakri,
We continue the review process with this improved file.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 14.03.2021 14:43
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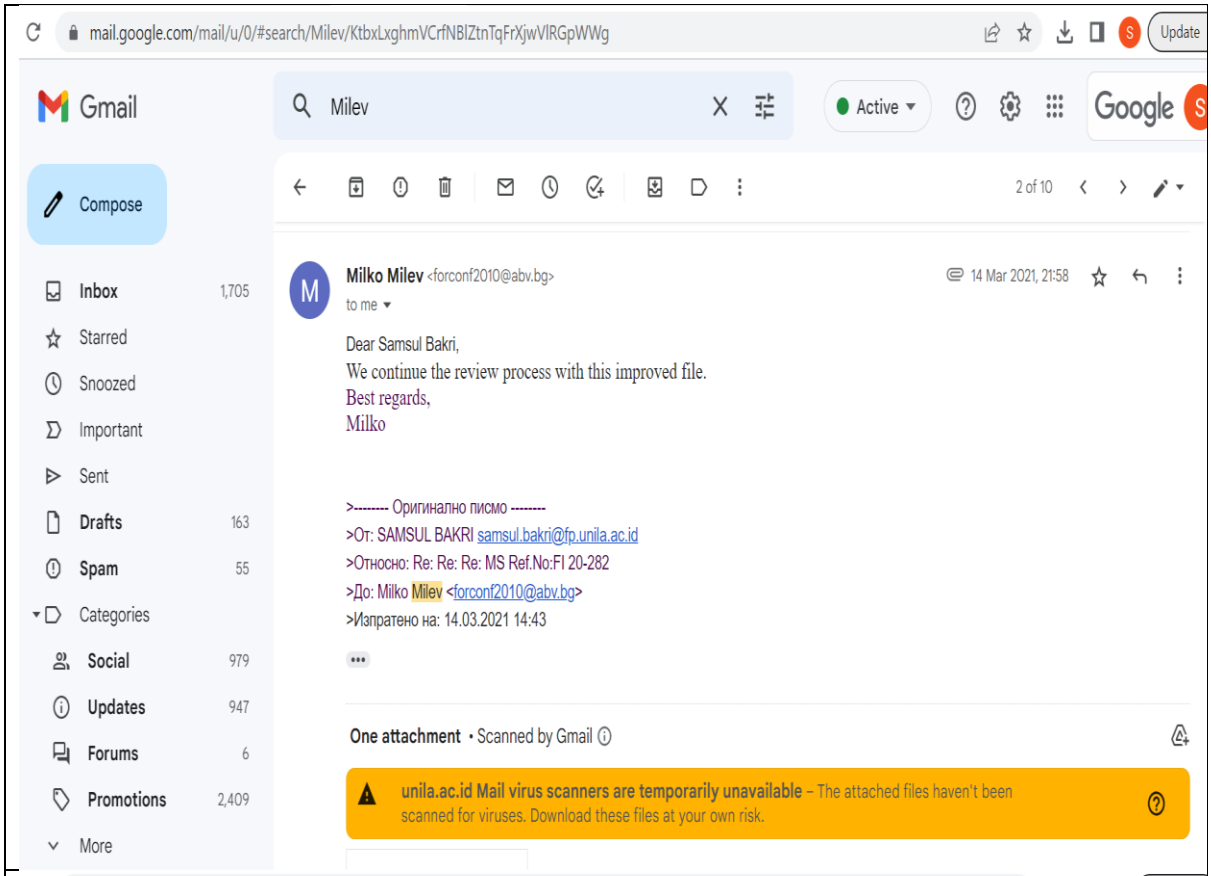
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Drafts 163
Spam 55
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Social 979
Updates 947
Forums 6
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More
Milko Milev <forconf2010@abv.bg>
14 Mar 2021, 21:58
to me
Dear Samsul Bakri,
We continue the review process with this improved file.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 14.03.2021 14:43
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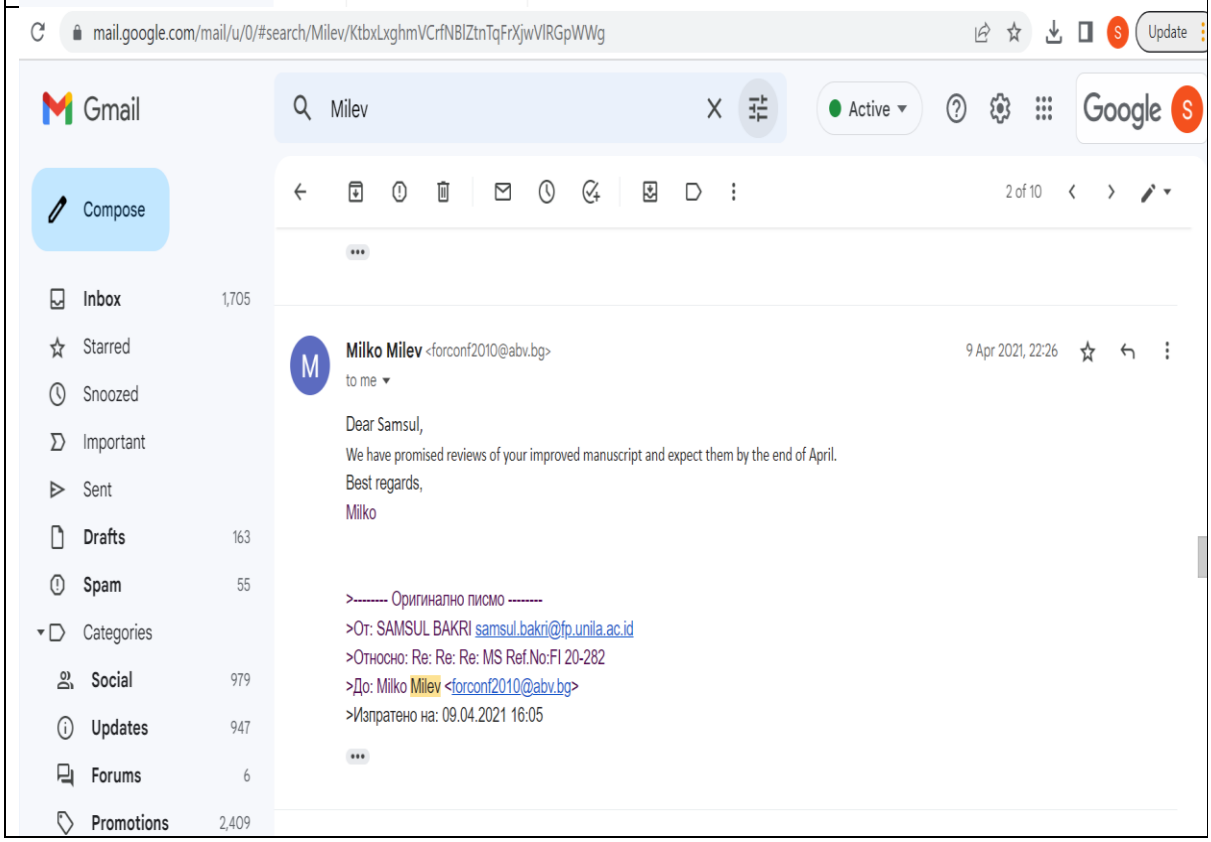
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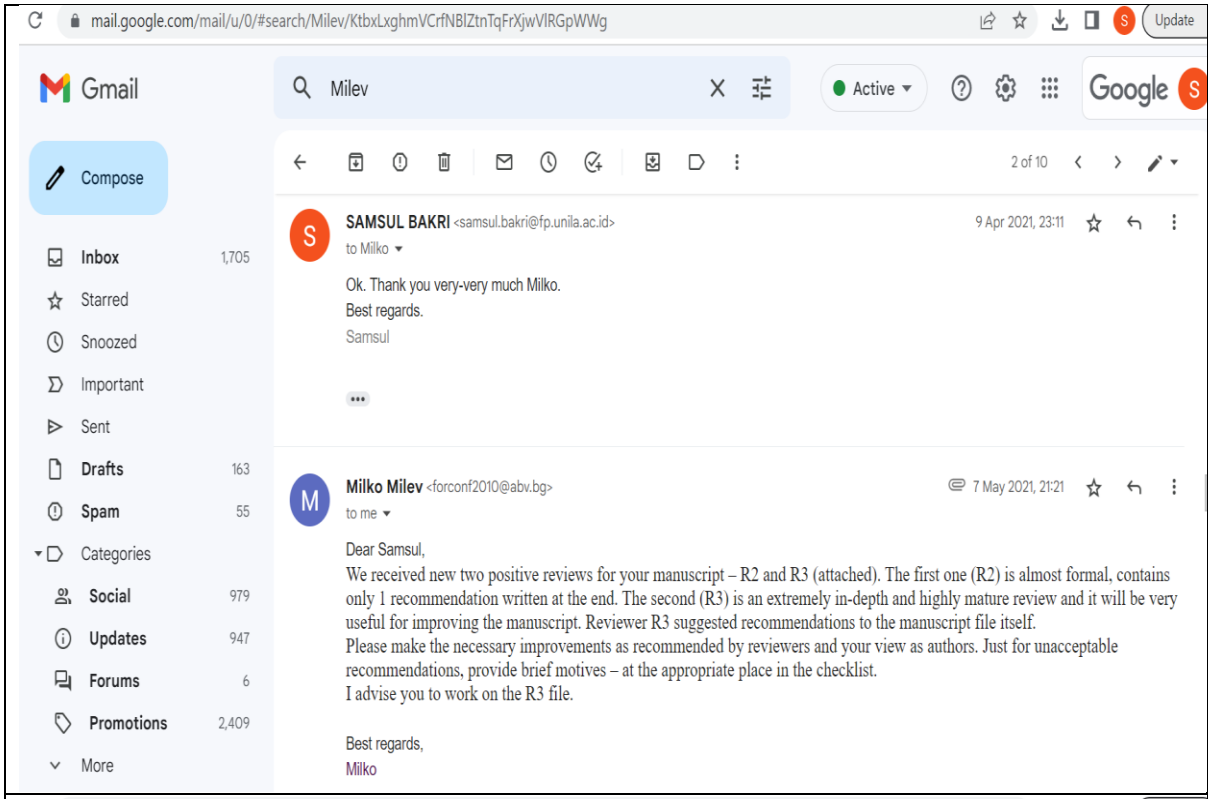
Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
Milko Milev <forconf2010@abv.bg>
9 Apr 2021, 22:26
to me
Dear Samsul,
We have promised reviews of your improved manuscript and expect them by the end of April.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 09.04.2021 16:05


mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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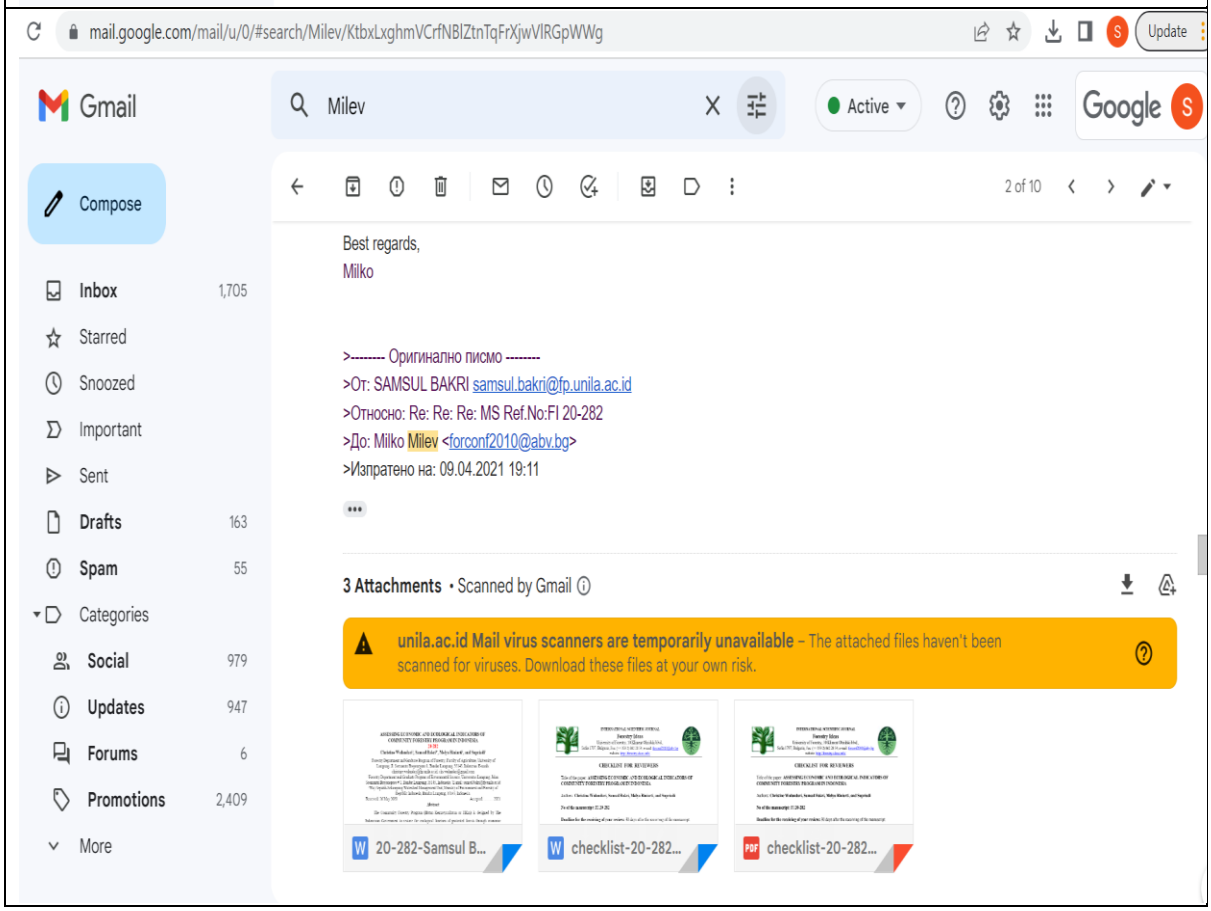
Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
9 Apr 2021, 23:11
to Milko
Ok. Thank you very-very much Milko.
Best regards.
Samsul
Milko Milev <forconf2010@abv.bg>
7 May 2021, 21:21
to me
Dear Samsul,
We received new two positive reviews for your manuscript – R2 and R3 (attached). The first one (R2) is almost formal, contains only 1 recommendation written at the end. The second (R3) is an extremely in-depth and highly mature review and it will be very useful for improving the manuscript. Reviewer R3 suggested recommendations to the manuscript file itself.
Please make the necessary improvements as recommended by reviewers and your view as authors. Just for unacceptable recommendations, provide brief motives – at the appropriate place in the checklist.
I advise you to work on the R3 file.
Best regards,
Milko


mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 09.04.2021 19:11
3 Attachments • Scanned by Gmail
unila.ac.id Mail virus scanners are temporarily unavailable – The attached files haven't been scanned for viruses. Download these files at your own risk.
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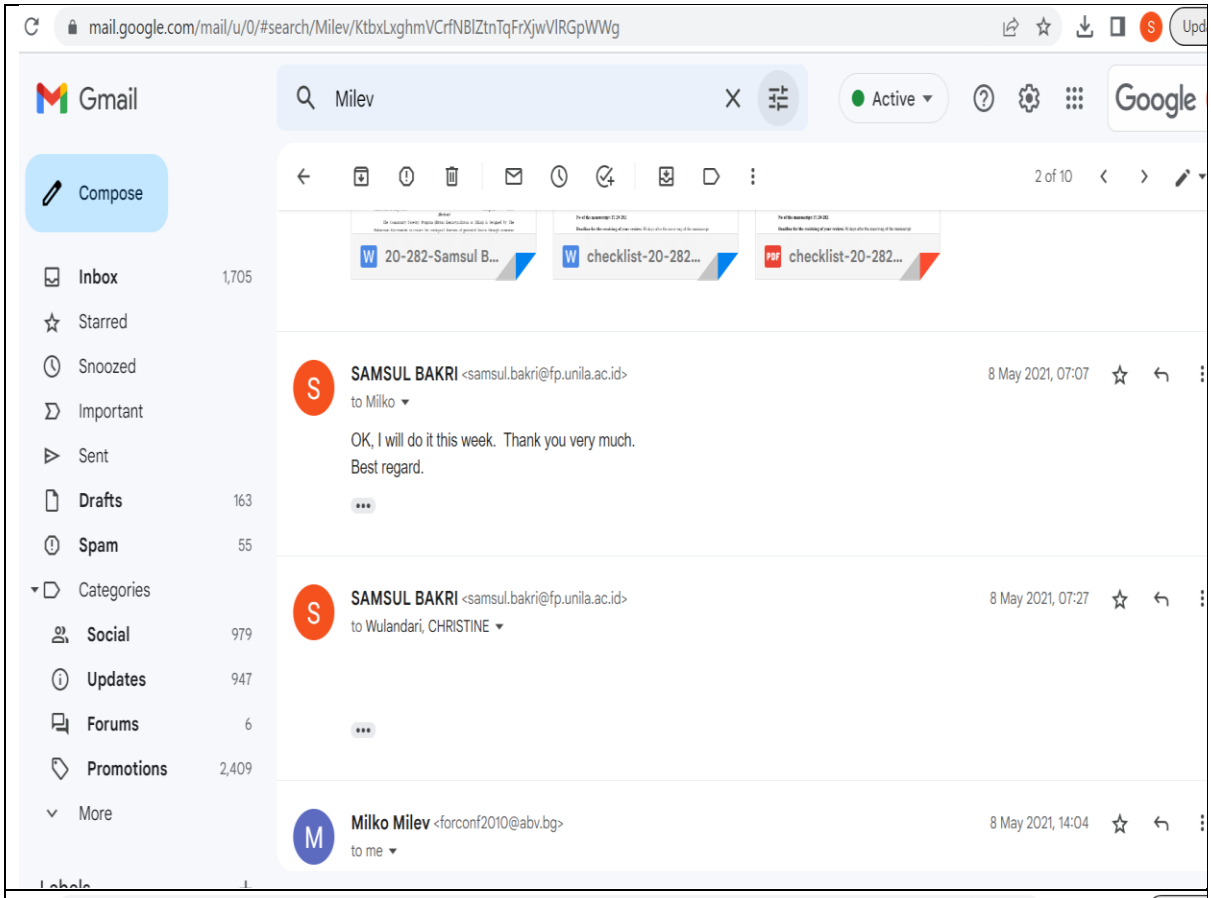
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Categories
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Updates 947
Forums 6
Promotions 2,409
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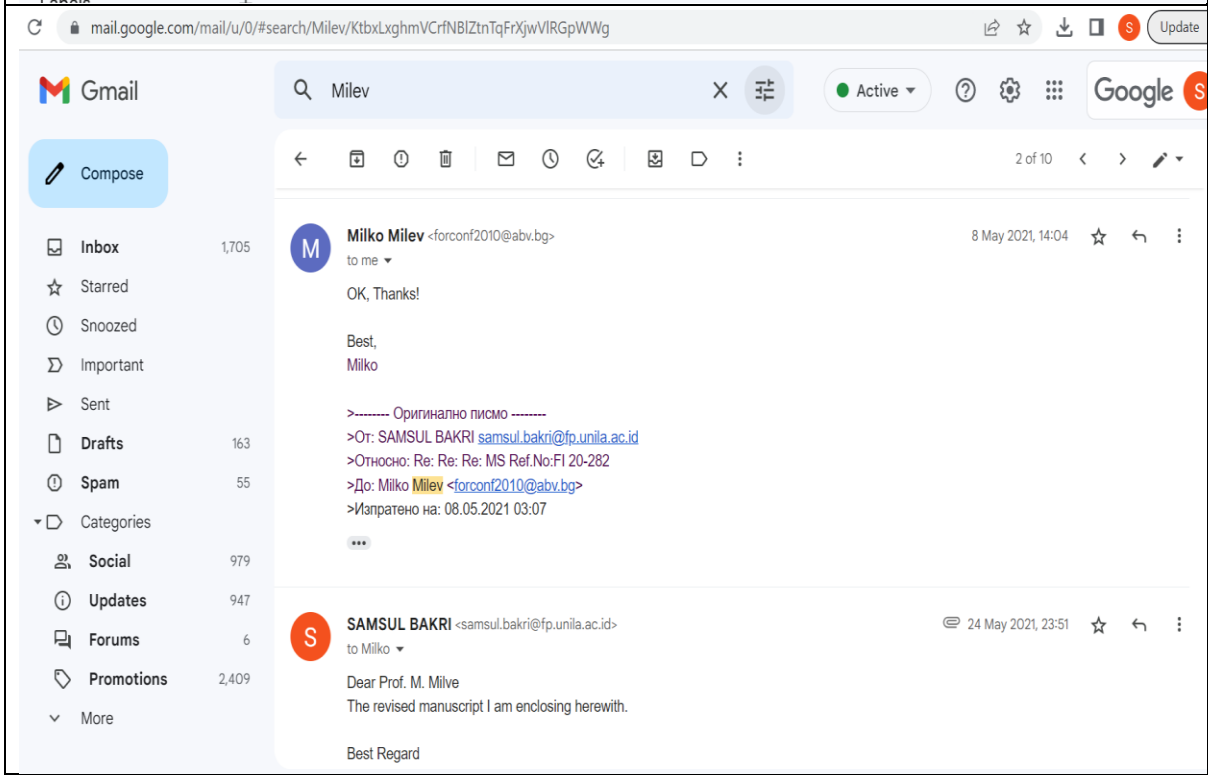
20-282-Samsul B...
checklist-20-282...
checklist-20-282...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
8 May 2021, 07:07
to Milko
OK, I will do it this week. Thank you very much.
Best regard.
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
8 May 2021, 07:27
to Wulandari, CHRISTINE
Milko Milev <forconf2010@abv.bg>
8 May 2021, 14:04
to me


mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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Snoozed
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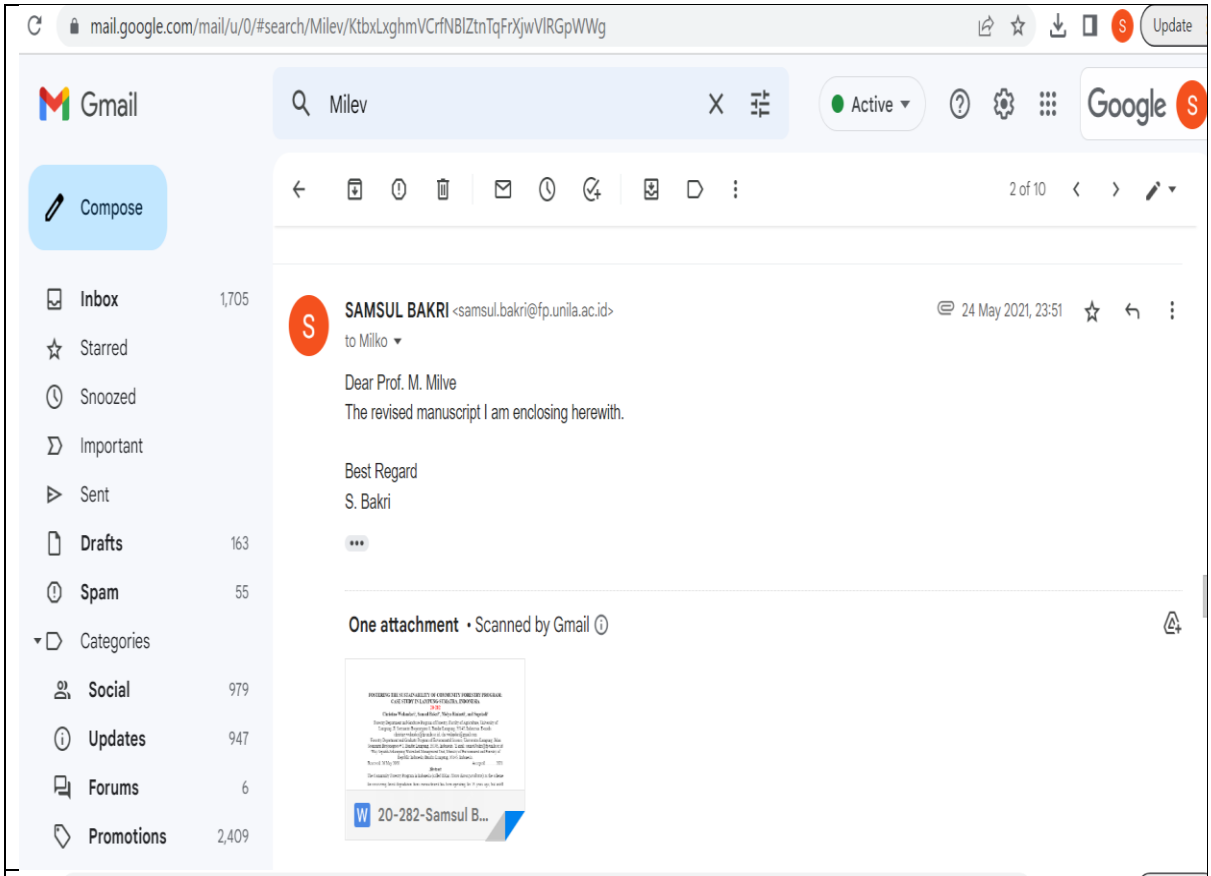
Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
Milko Milev <forconf2010@abv.bg>
8 May 2021, 14:04
to me
OK, Thanks!
Best,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 08.05.2021 03:07
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
24 May 2021, 23:51
to Milko
Dear Prof. M. Milve
The revised manuscript I am enclosing herewith.
Best Regard


mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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Drafts 163
Spam 55
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Social 979
Updates 947
Forums 6
Promotions 2,409
2 of 10
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
24 May 2021, 23:51
to Milko
Dear Prof. M. Milve
The revised manuscript I am enclosing herewith.
Best Regard
S. Bakri
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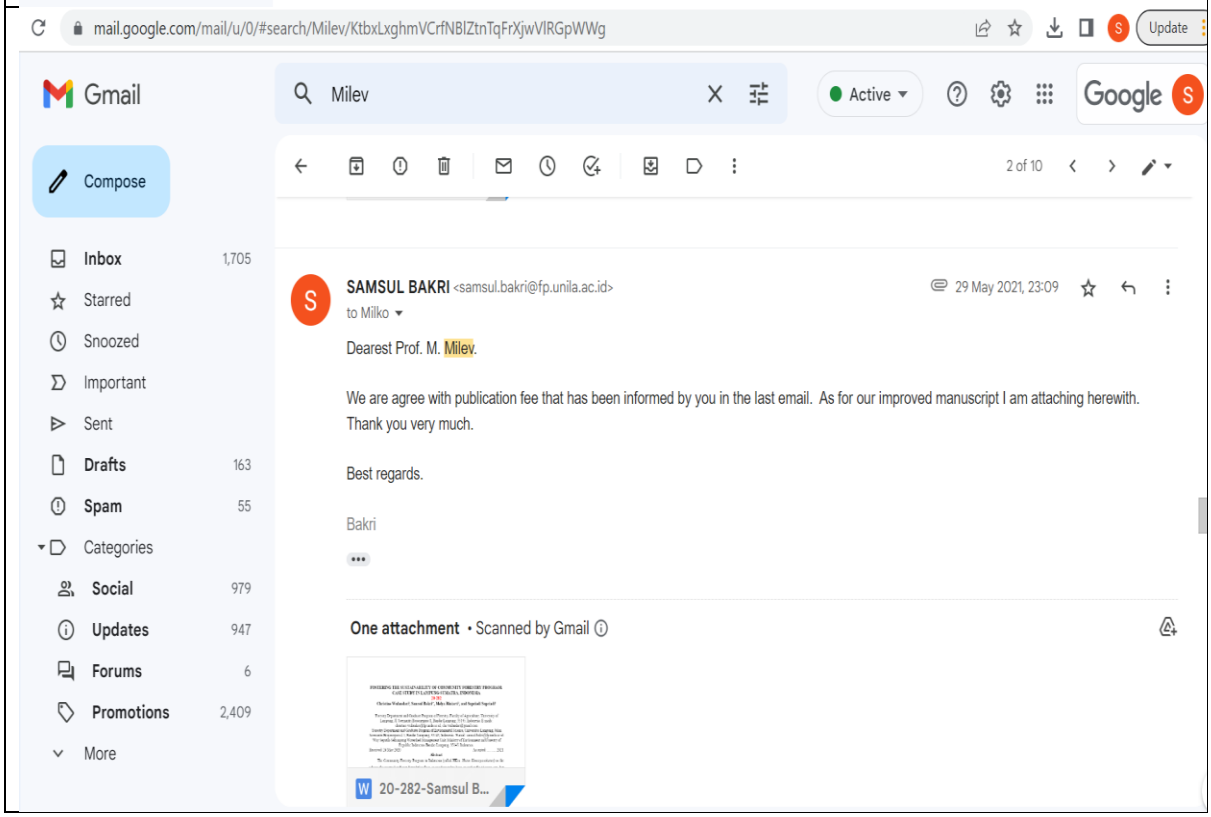
20-282-Samsul B...


mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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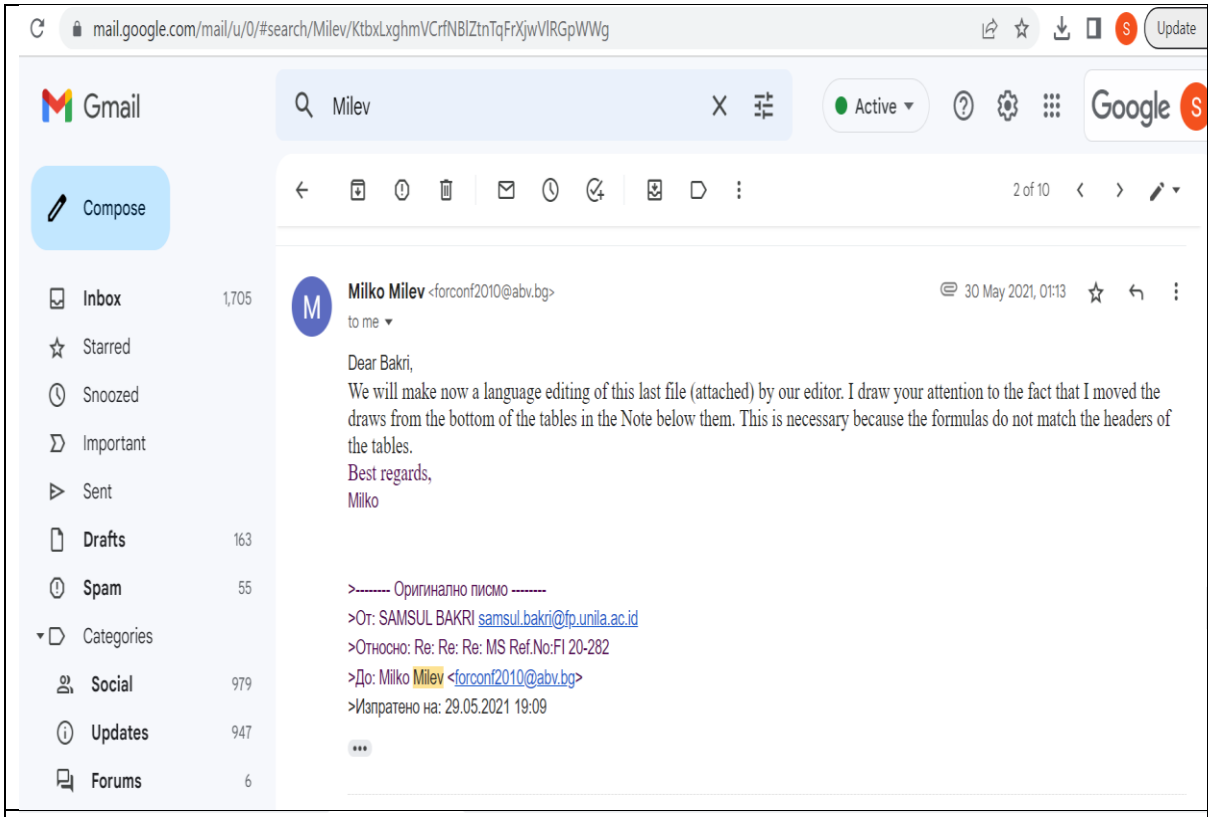
Snoozed
Important
Sent
Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
29 May 2021, 23:09
to Milko
Dearest Prof. M. Milev.
We are agree with publication fee that has been informed by you in the last email. As for our improved manuscript I am attaching herewith.
Thank you very much.
Best regards.
Bakri
One attachment • Scanned by Gmail
20-282-Samsul B...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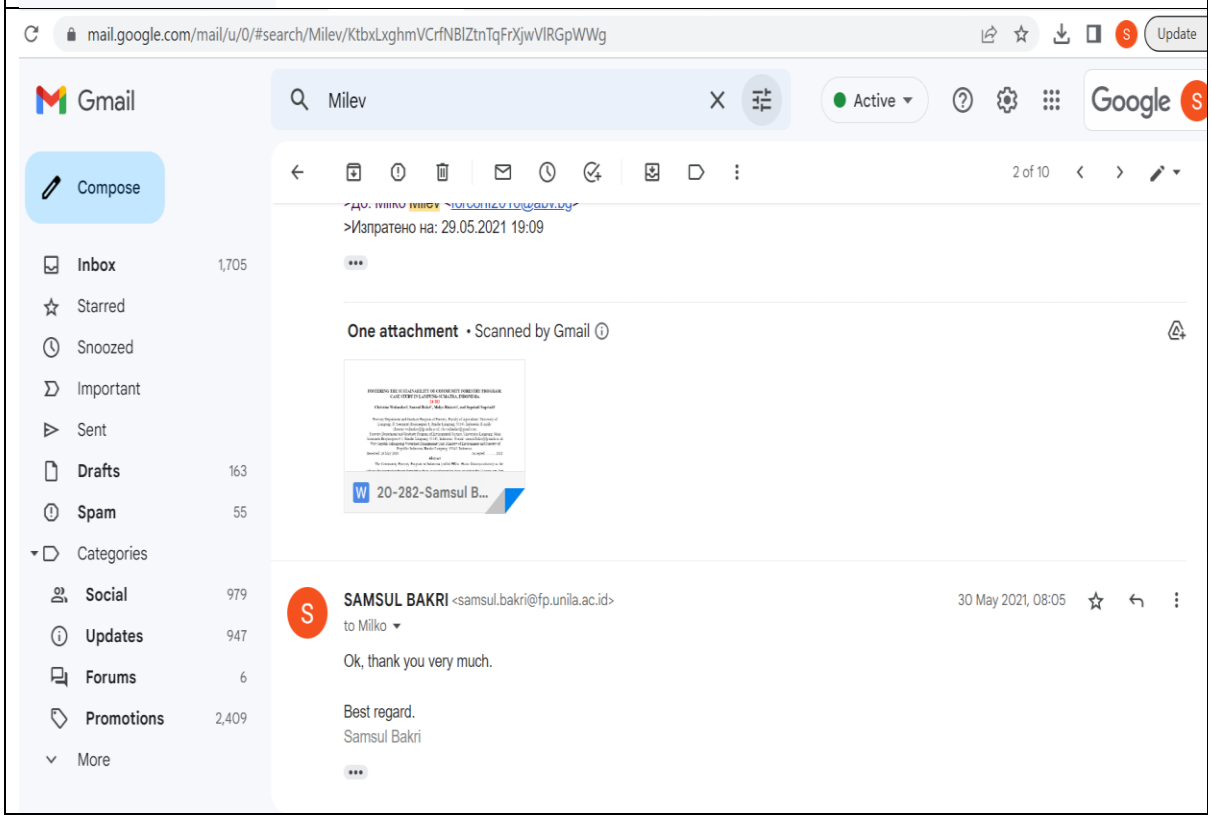
Inbox 1,705
Starred
Snoozed
Important
Sent
Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Milko Milev <forconf2010@abv.bg>
30 May 2021, 01:13
to me
Dear Bakri,
We will make now a language editing of this last file (attached) by our editor. I draw your attention to the fact that I moved the draws from the bottom of the tables in the Note below them. This is necessary because the formulas do not match the headers of the tables.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 29.05.2021 19:09


mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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>Изпратено на: 29.05.2021 19:09
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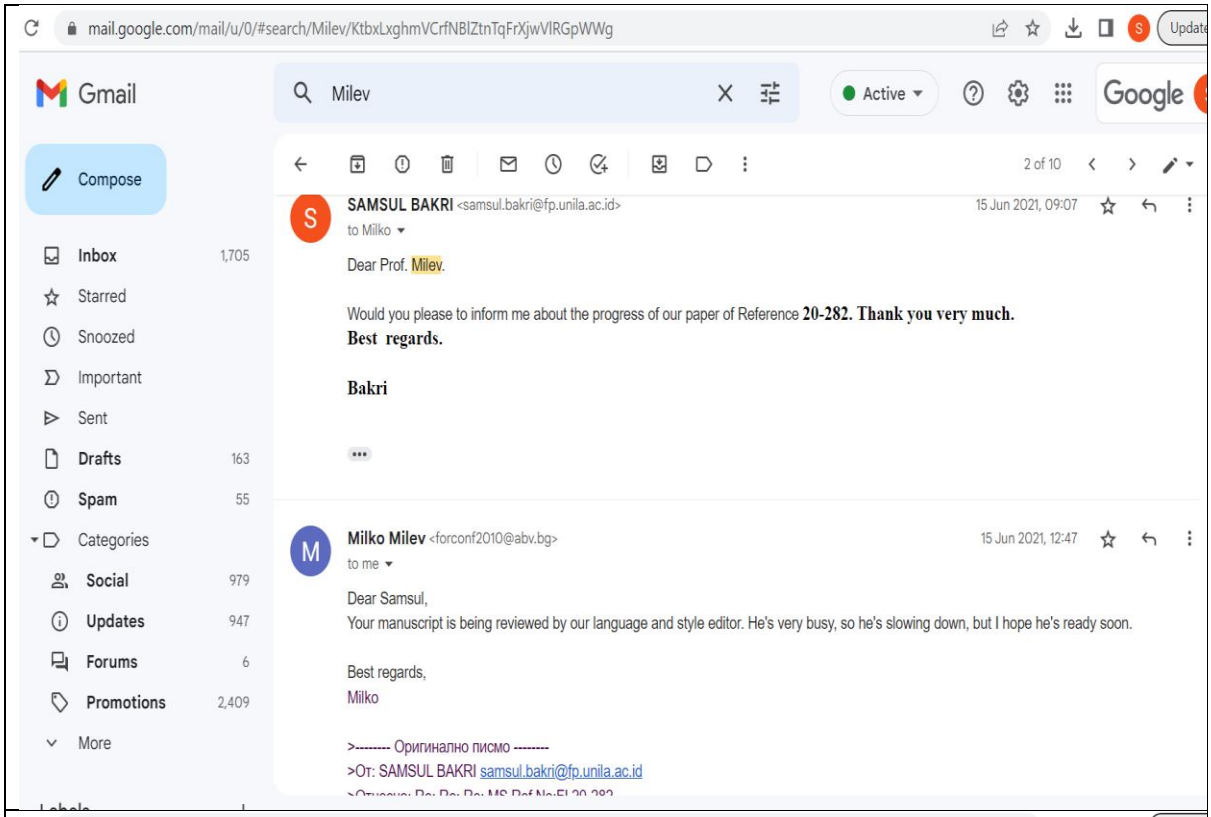
Social 979
Updates 947
Forums 6
Promotions 2,409
More
One attachment • Scanned by Gmail
20-282-Samsul B...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
30 May 2021, 08:05
to Milko
Ok, thank you very much.
Best regard.
Samsul Bakri


mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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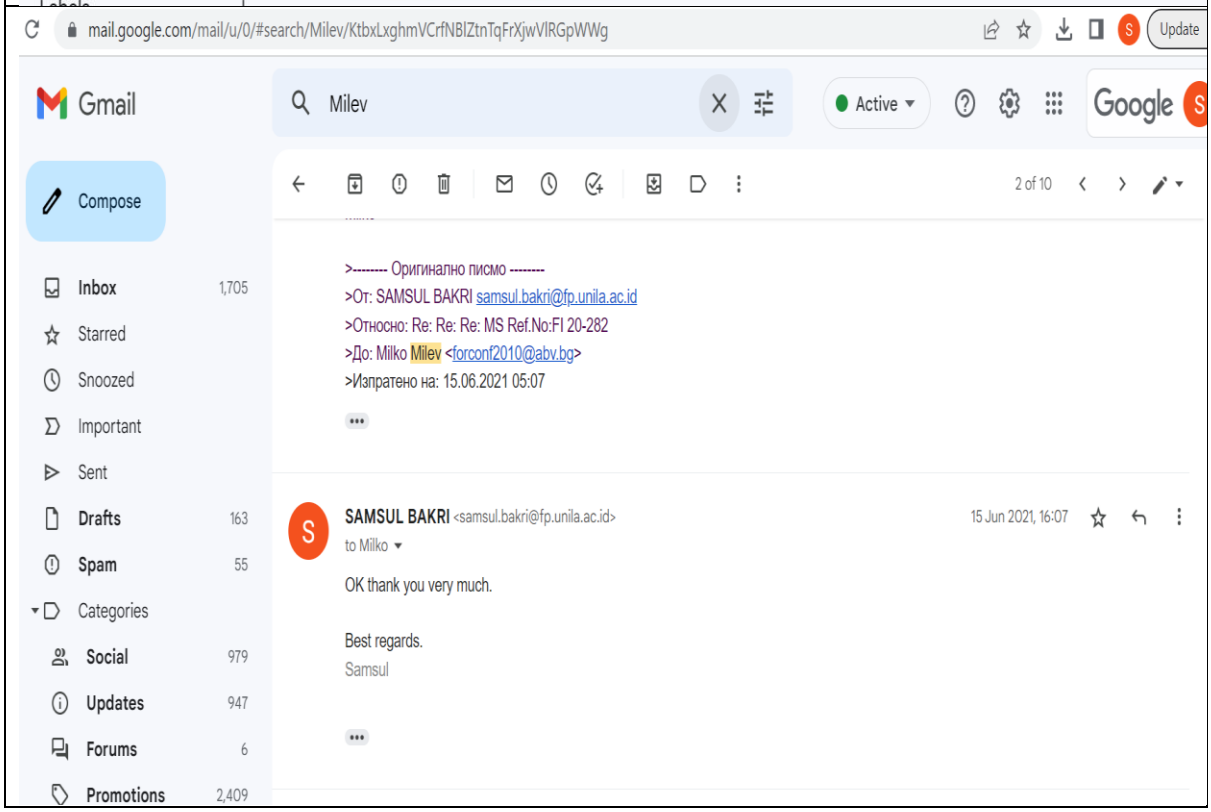
Sent
Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
15 Jun 2021, 09:07
to Milko
Dear Prof. Milev.
Would you please to inform me about the progress of our paper of Reference 20-282. Thank you very much.
Best regards.
Bakri
Milko Milev <forconf2010@abv.bg>
15 Jun 2021, 12:47
to me
Dear Samsul,
Your manuscript is being reviewed by our language and style editor. He's very busy, so he's slowing down, but I hope he's ready soon.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id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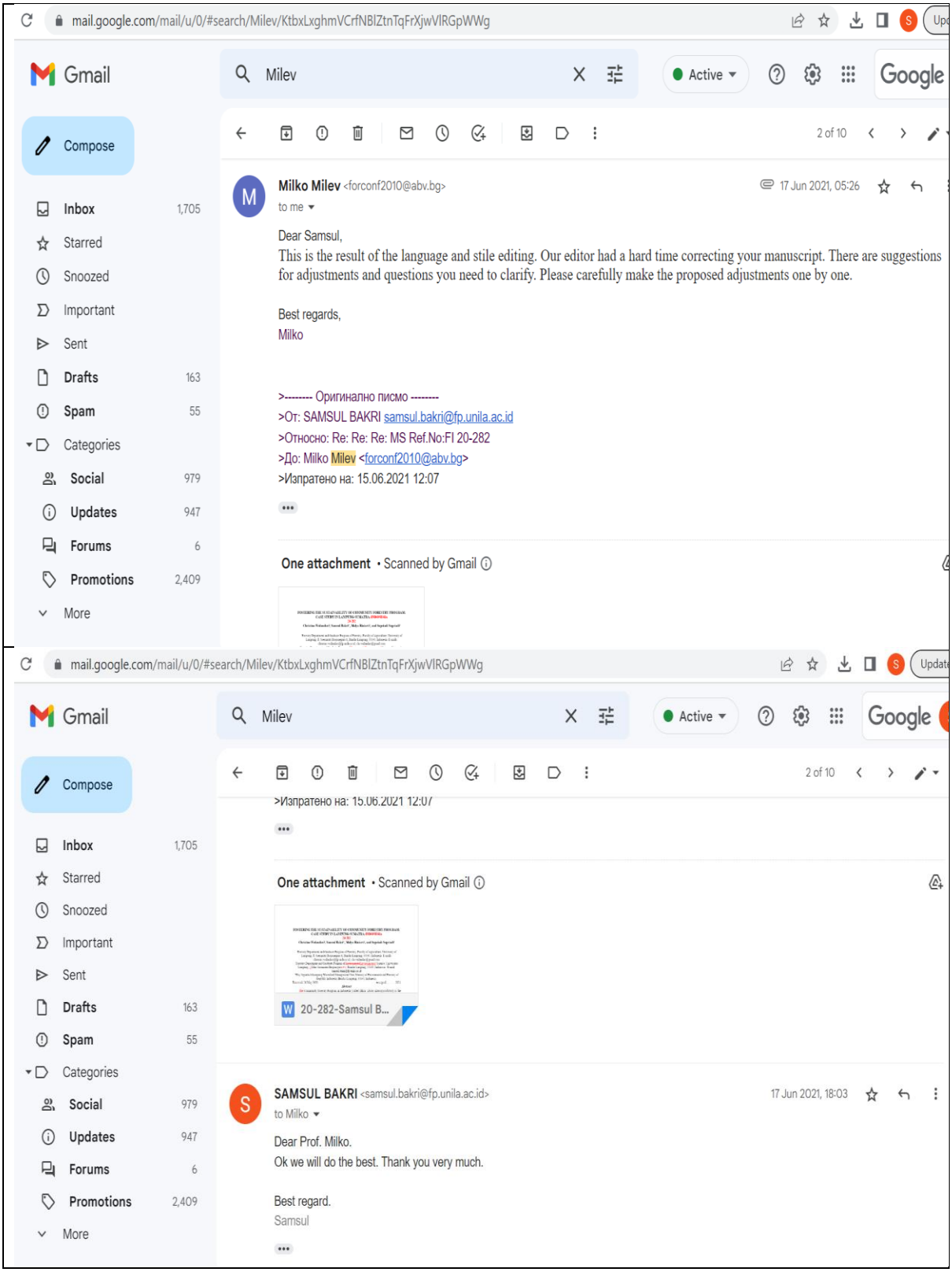
Sent
Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
2 of 10
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 15.06.2021 05:07
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
15 Jun 2021, 16:07
to Milko
OK thank you very much.
Best regards.
Samsul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Snoozed
Important
Sent
Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
Milko Milev <forconf2010@abv.bg>
17 Jun 2021, 05:26
to me
Dear Samsul,
This is the result of the language and stile editing. Our editor had a hard time correcting your manuscript. There are suggestions for adjustments and questions you need to clarify. Please carefully make the proposed adjustments one by one.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 15.06.2021 12:07
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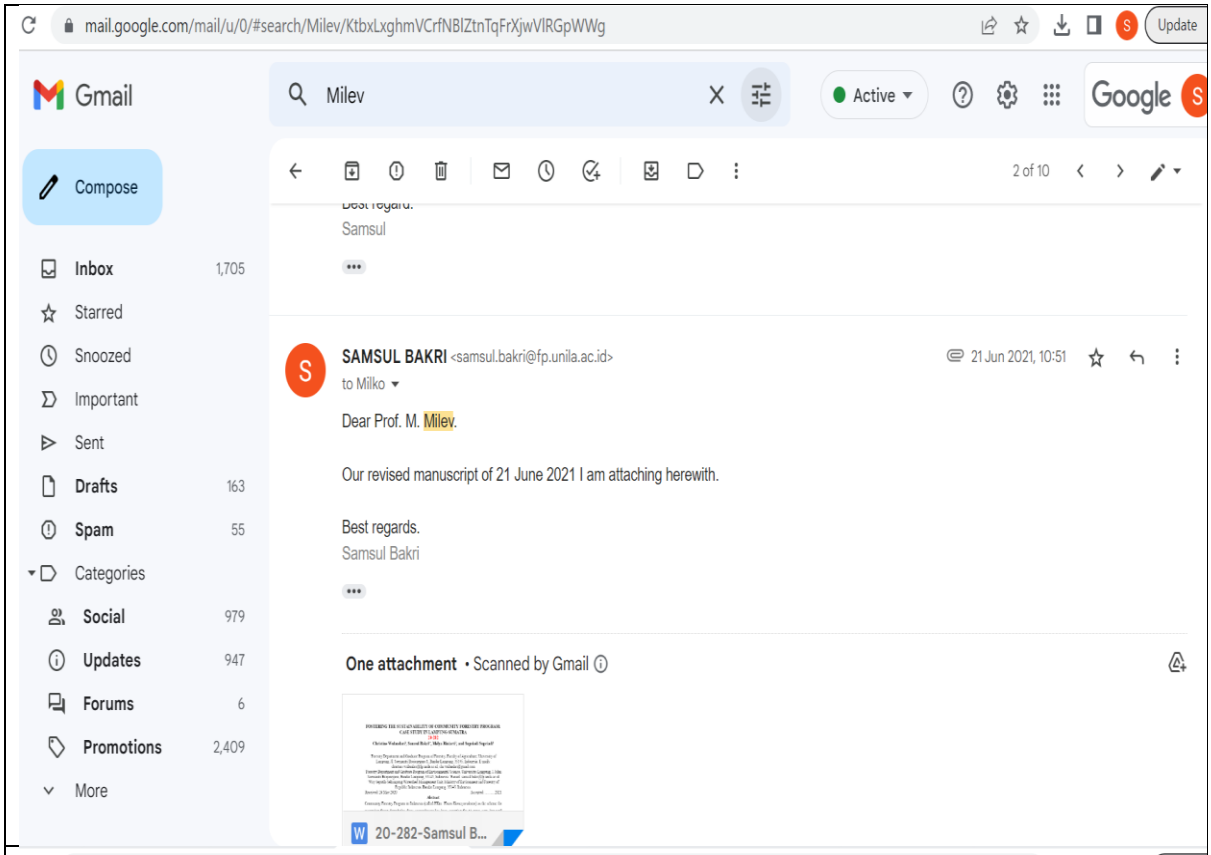
20-282-Samsul B...
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
17 Jun 2021, 18:03
to Milko
Dear Prof. Milko.
Ok we will do the best. Thank you very much.
Best regard.
Samsul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Updates 947
Forums 6
Promotions 2,409
More
2 of 10
Samsul
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
21 Jun 2021, 10:51
to Milko
Dear Prof. M. Milev.
Our revised manuscript of 21 June 2021 I am attaching herewith.
Best regards.
Samsul Bakri
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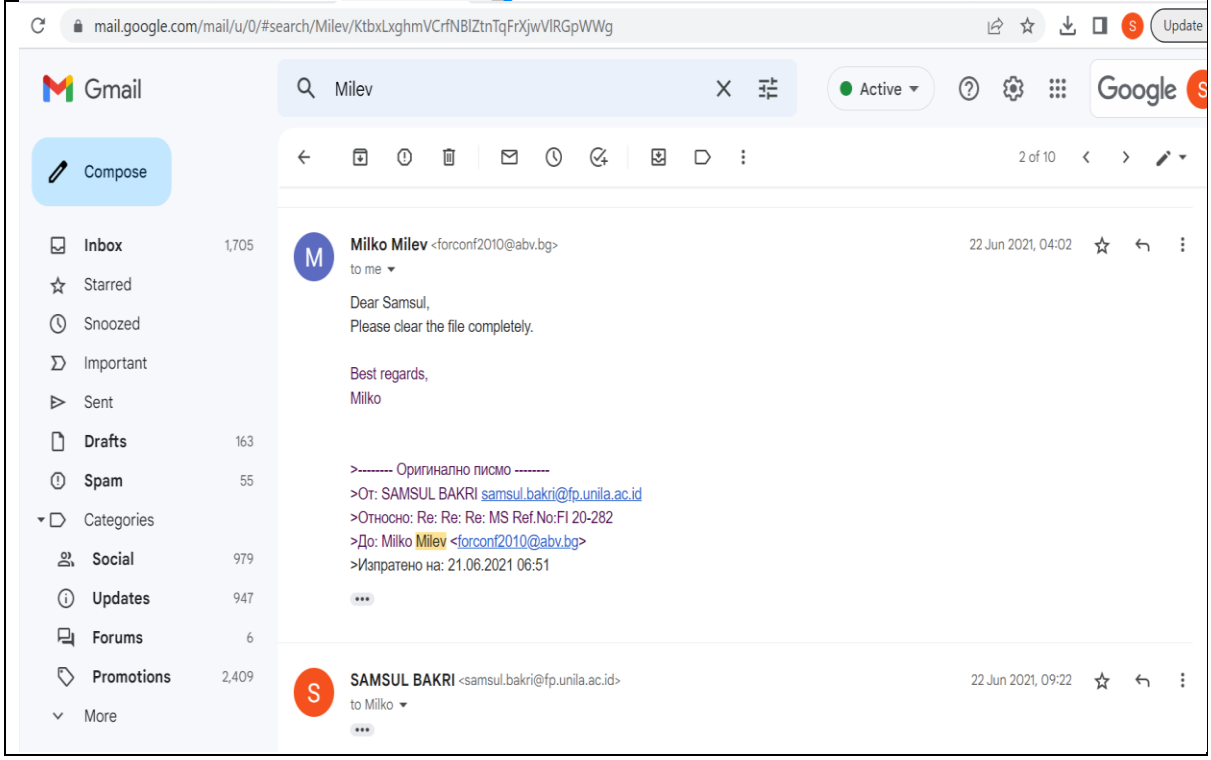
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Starred
Snoozed
Important
Sent
Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
Milko Milev <forconf2010@abv.bg>
22 Jun 2021, 04:02
to me
Dear Samsul,
Please clear the file completely.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 21.06.2021 06:51
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
22 Jun 2021, 09:22
to Milko

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Forums 6
Promotions 2,409
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2 of 10

SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id> 22 Jun 2021, 10:33
to Milko

Dear Prof M. Milev

The clear manuscript I am enc;losing herewith.

Best Regard.

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20-282-Samsul B...

Milko Milev <forconf2010@abv.bg> 22 Jun 2021, 12:33
to me

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Spam 55
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Updates 947
Forums 6
Promotions 2,409
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Best regards,
Milko

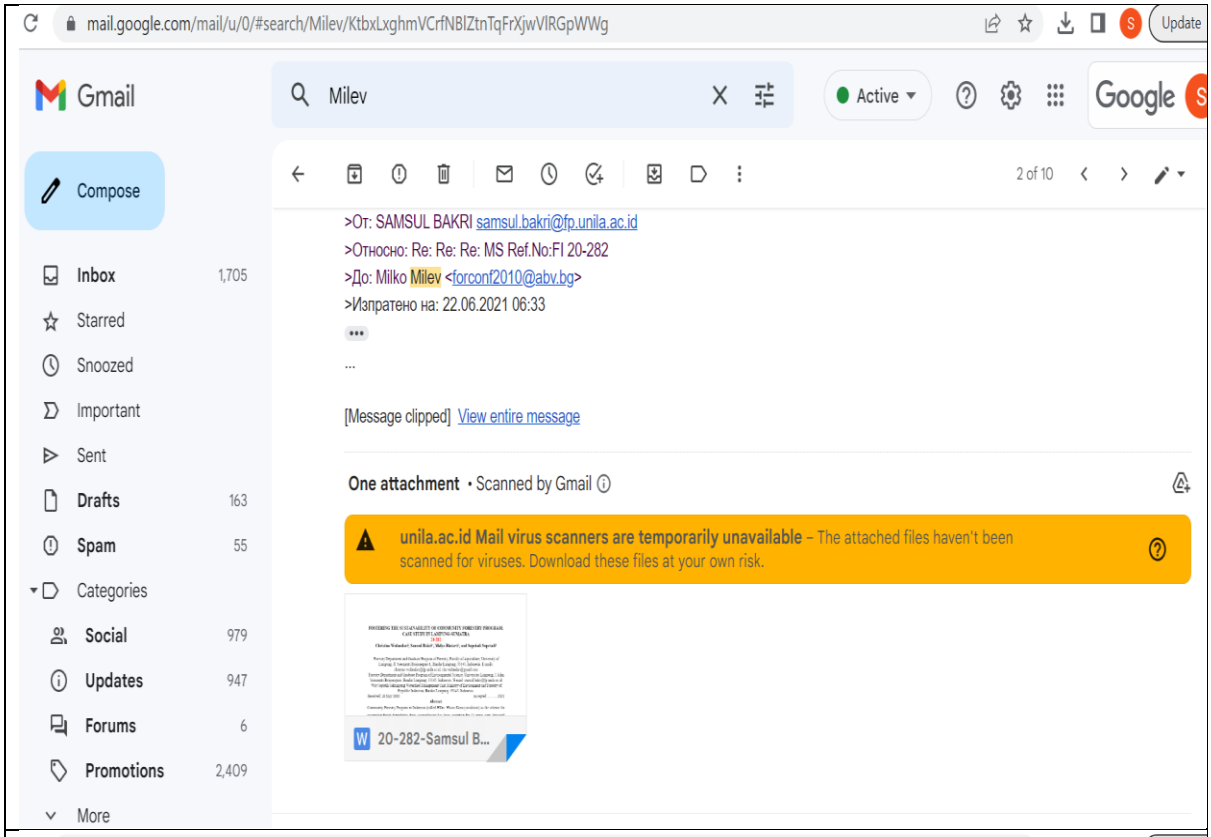
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 22.06.2021 06:33
...

[Message clipped] View entire message

Milko Milev <forconf2010@abv.bg> 26 Jun 2021, 02:27
to me

Dear Samsul,
This is the result of the second language and stile editing. There are still suggestions for adjustments and questions you need to clarify. Please carefully make the proposed adjustments one by one.

Regards,
Milko


mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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Snoozed
Important
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>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 22.06.2021 06:33
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unila.ac.id Mail virus scanners are temporarily unavailable – The attached files haven't been scanned for viruses. Download these files at your own risk.
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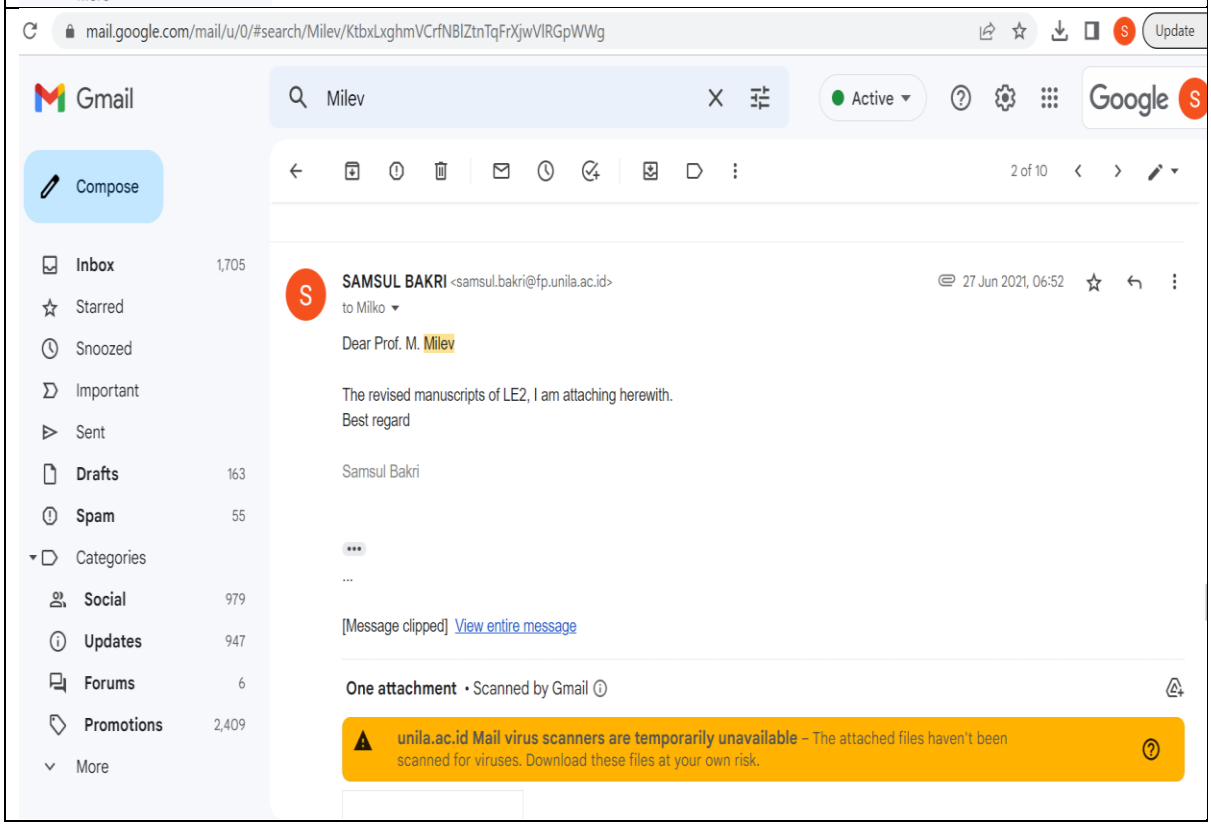
mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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Updates 947
Forums 6
Promotions 2,409
More
2 of 10
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
to Milko
27 Jun 2021, 06:52
Dear Prof. M. Milev
The revised manuscripts of LE2, I am attaching herewith.
Best regard
Samsul Bakri
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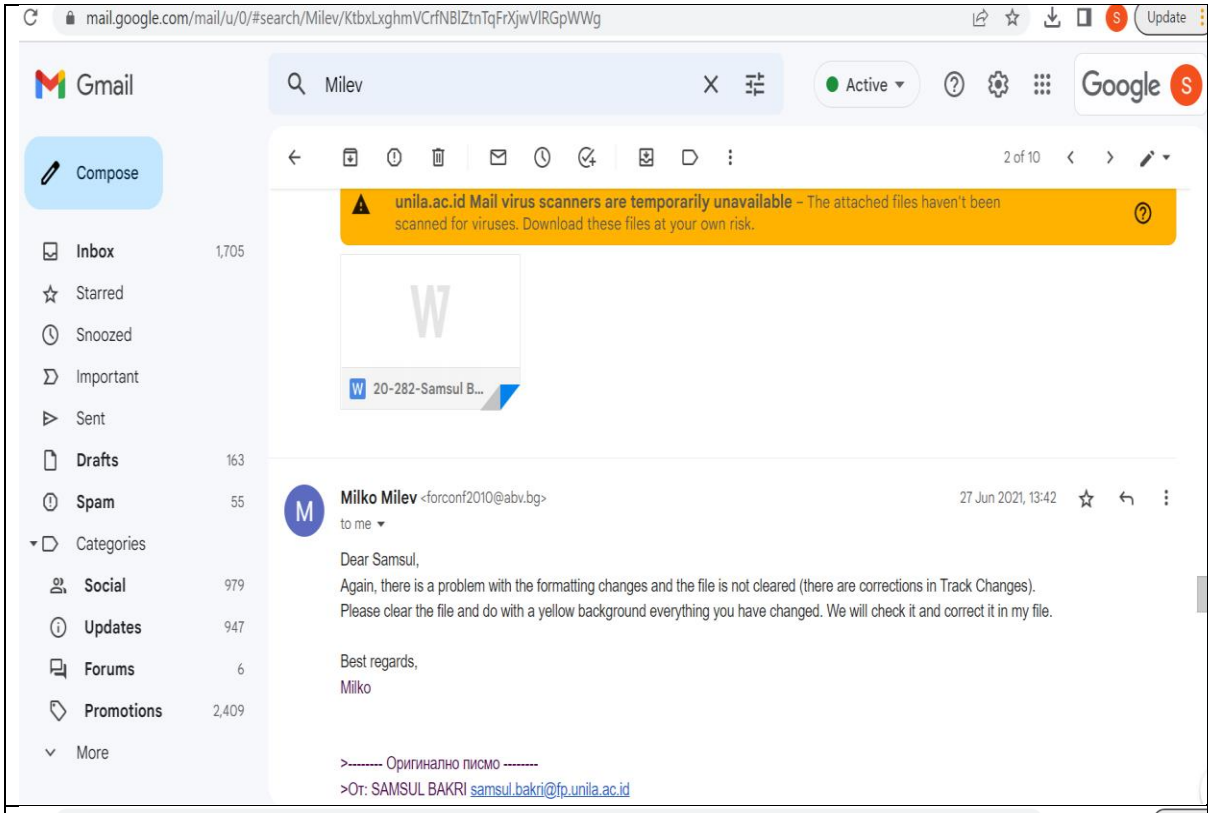
unila.ac.id Mail virus scanners are temporarily unavailable – The attached files haven't been scanned for viruses. Download these files at your own risk.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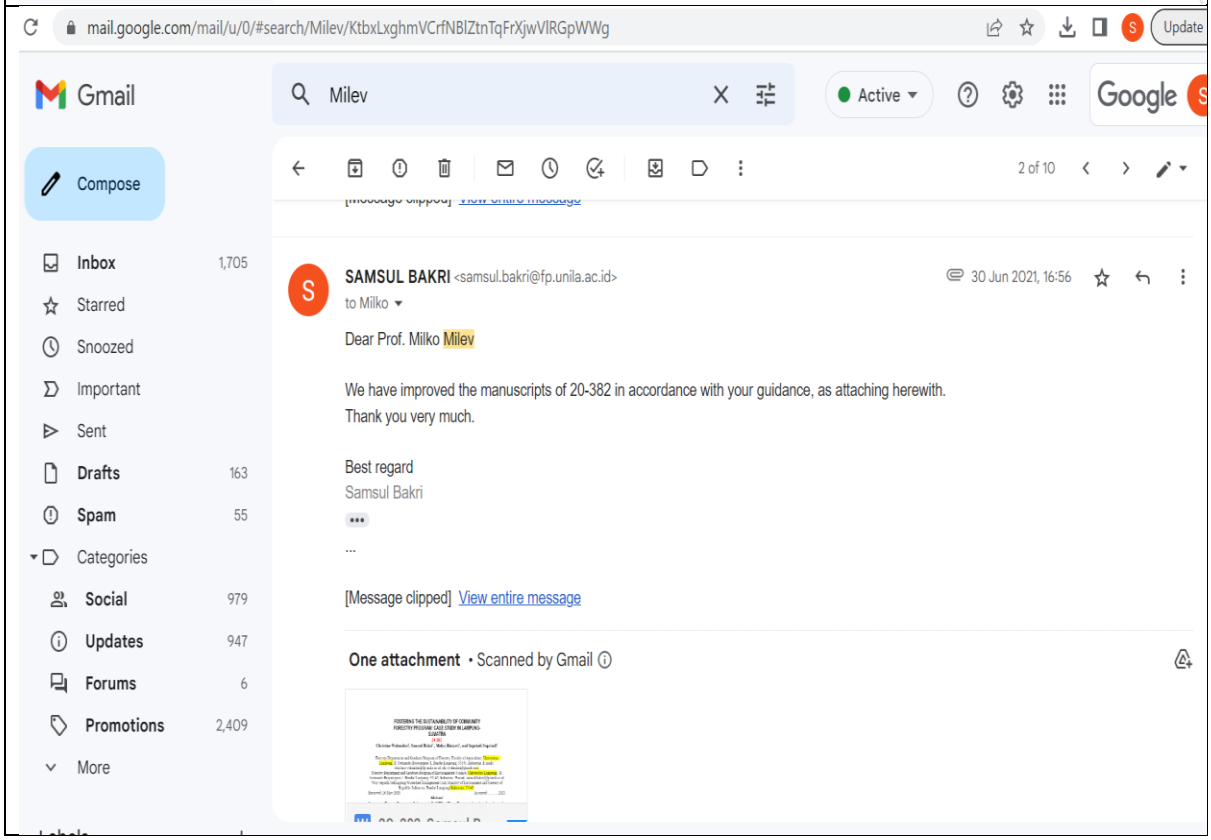
unila.ac.id Mail virus scanners are temporarily unavailable – The attached files haven't been scanned for viruses. Download these files at your own risk.
20-282-Samsul B...
Milko Milev <forconf2010@abv.bg>
27 Jun 2021, 13:42
to me
Dear Samsul,
Again, there is a problem with the formatting changes and the file is not cleared (there are corrections in Track Changes).
Please clear the file and do with a yellow background everything you have changed. We will check it and correct it in my file.
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id


mail.google.com/mail/u/0/#search/Milev/KtbxLxghmVCrfNBlZtnTqFrXjwVlRGpWWg
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Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
30 Jun 2021, 16:56
to Milko
Dear Prof. Milko Milev
We have improved the manuscripts of 20-382 in accordance with your guidance, as attaching herewith.
Thank you very much.
Best regard
Samsul Bakri
...
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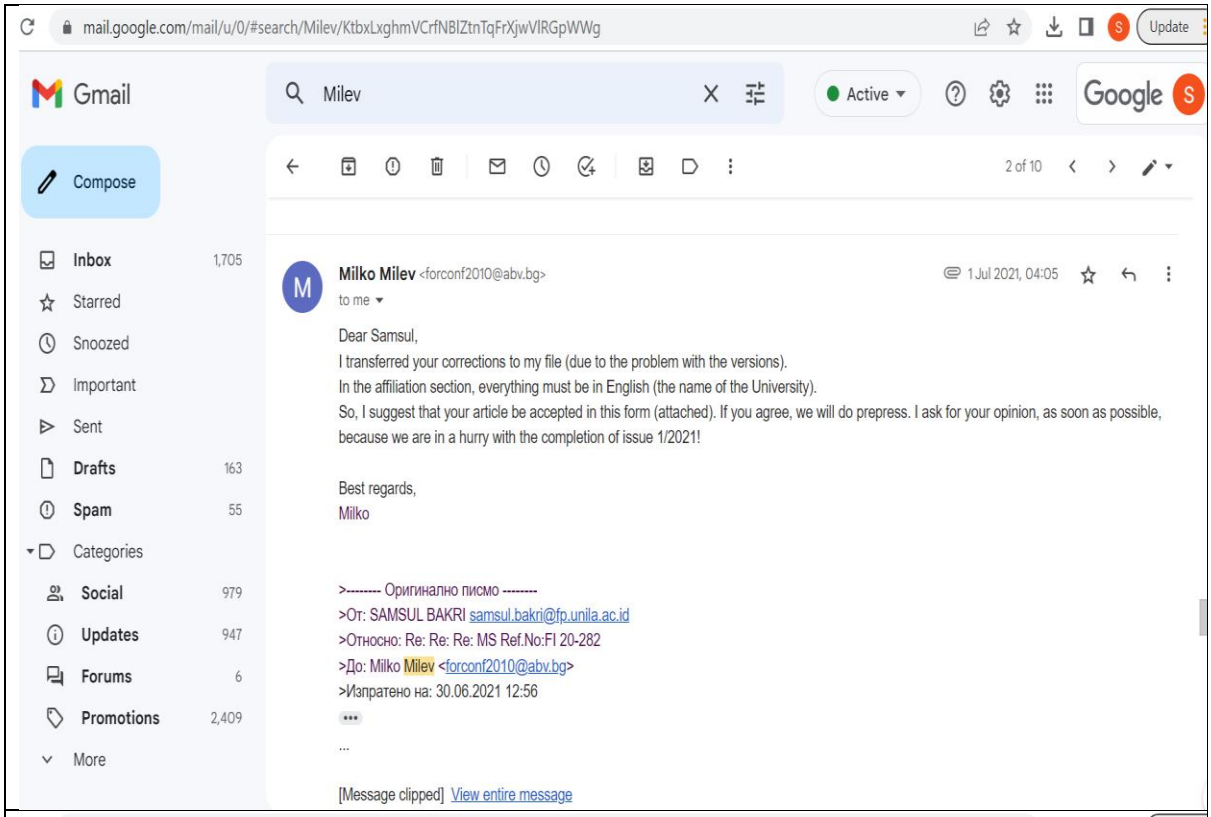
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Updates 947
Forums 6
Promotions 2,409
More
Milko Milev <forconf2010@abv.bg>
to me
1 Jul 2021, 04:05
Dear Samsul,
I transferred your corrections to my file (due to the problem with the versions).
In the affiliation section, everything must be in English (the name of the University).
So, I suggest that your article be accepted in this form (attached). If you agree, we will do prepress. I ask for your opinion, as soon as possible, because we are in a hurry with the completion of issue 1/2021!
Best regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 30.06.2021 12:56
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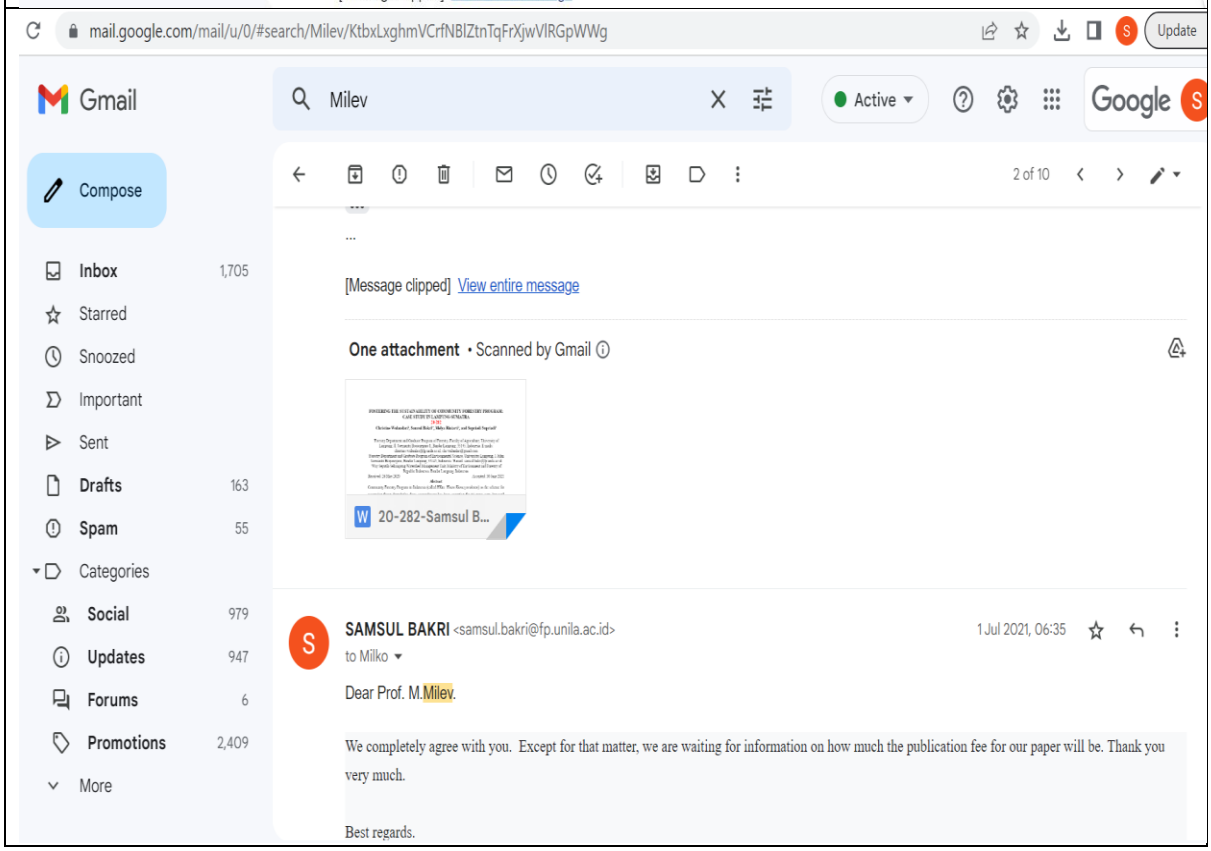
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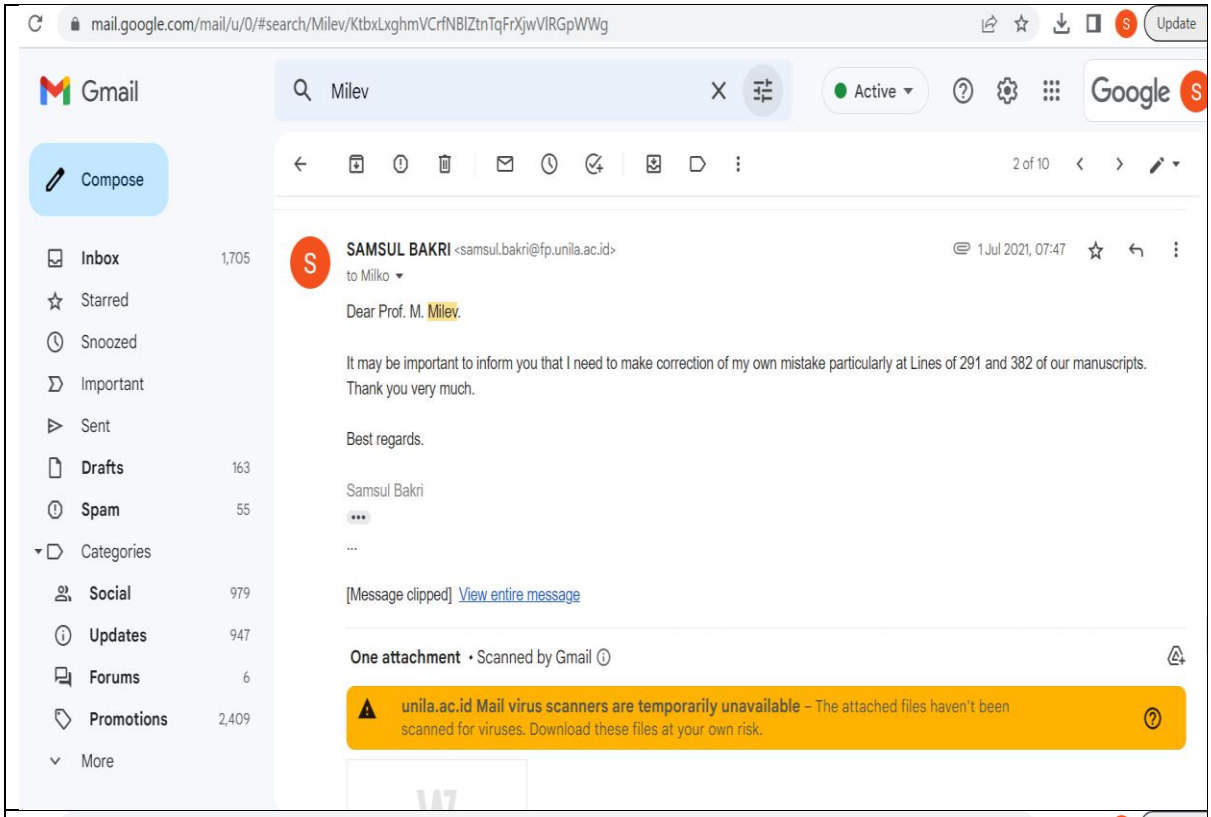
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
to Milko
1 Jul 2021, 06:35
Dear Prof. M.Milev.
We completely agree with you. Except for that matter, we are waiting for information on how much the publication fee for our paper will be. Thank you very much.
Best regards.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2 of 10
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
1 Jul 2021, 07:47
to Milko
Dear Prof. M. Milev.
It may be important to inform you that I need to make correction of my own mistake particularly at Lines of 291 and 382 of our manuscripts.
Thank you very much.
Best regards.
Samsul Bakri
...
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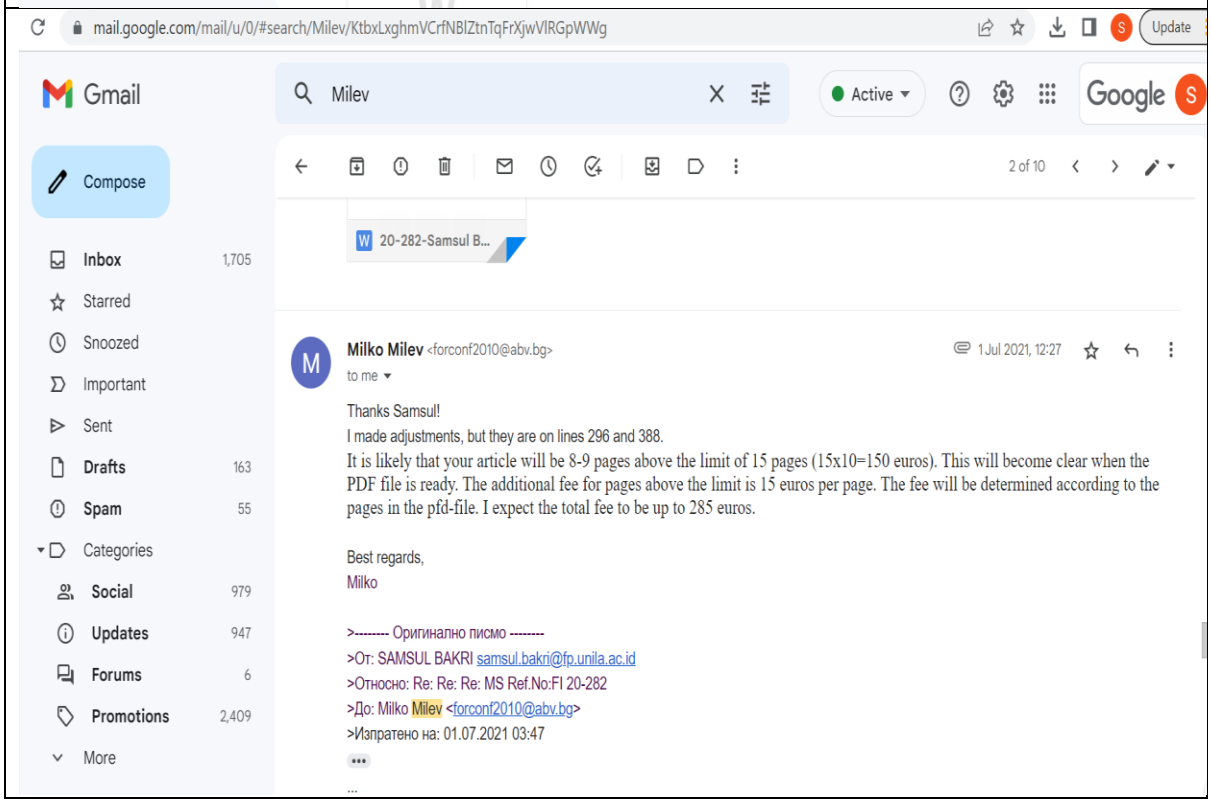
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20-282-Samsul B...
Milko Milev <forconf2010@abv.bg>
1 Jul 2021, 12:27
to me
Thanks Samsul!
I made adjustments, but they are on lines 296 and 388.
It is likely that your article will be 8-9 pages above the limit of 15 pages (15x10=150 euros). This will become clear when the PDF file is ready. The additional fee for pages above the limit is 15 euros per page. The fee will be determined according to the pages in the pfd-file. I expect the total fee to be up to 285 euros.
Best regards,
Milko
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>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 01.07.2021 03:47
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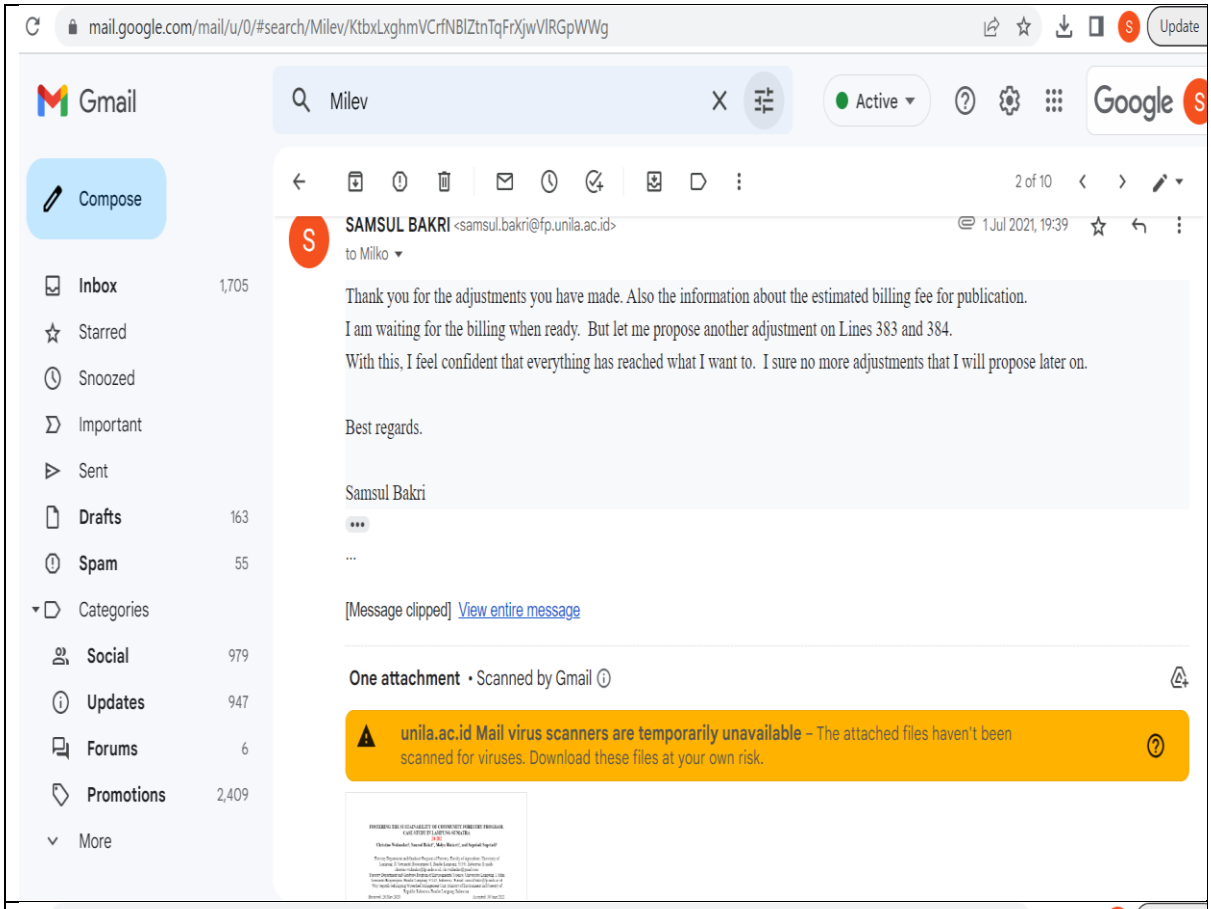
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Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
1 Jul 2021, 19:39
to Milko
Thank you for the adjustments you have made. Also the information about the estimated billing fee for publication.
I am waiting for the billing when ready. But let me propose another adjustment on Lines 383 and 384.
With this, I feel confident that everything has reached what I want to. I sure no more adjustments that I will propose later on.
Best regards.
Samsul Bakri
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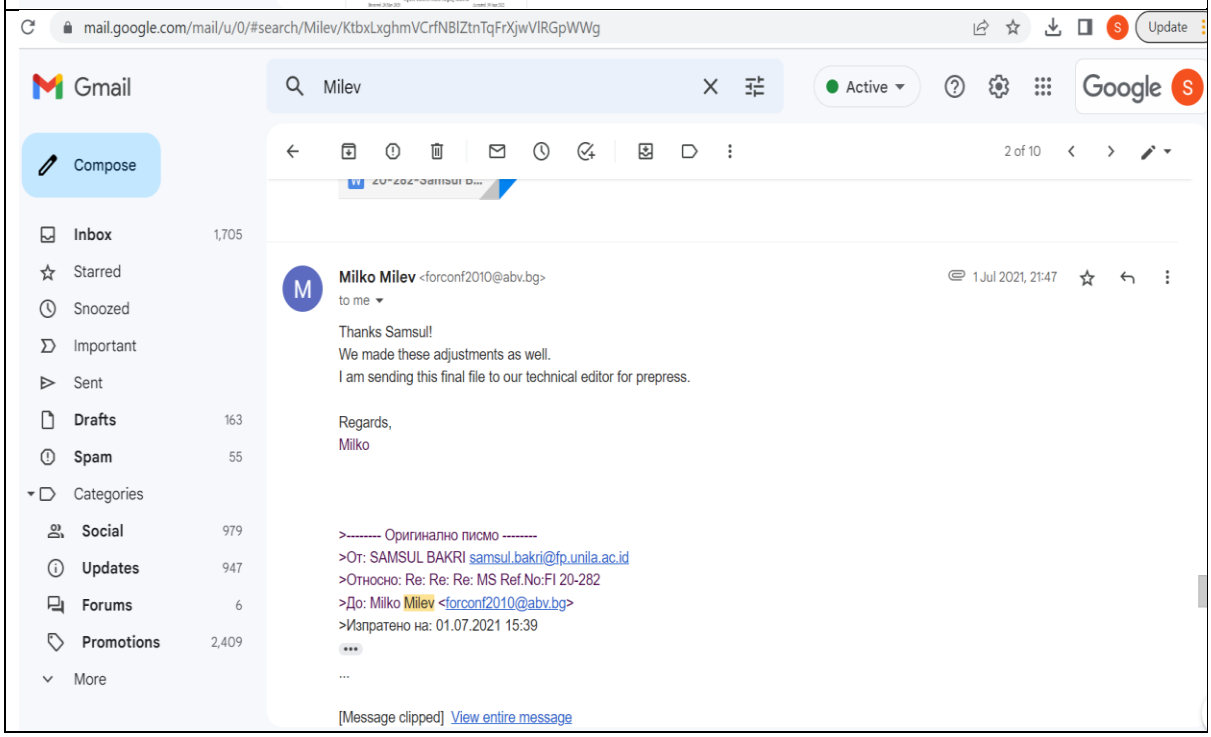
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Drafts 163
Spam 55
Categories
Social 979
Updates 947
Forums 6
Promotions 2,409
More
2 of 10
Milko Milev <forconf2010@abv.bg>
1 Jul 2021, 21:47
to me
Thanks Samsul!
We made these adjustments as well.
I am sending this final file to our technical editor for prepress.
Regards,
Milko
>-------- Оригинално писмо --------
>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 01.07.2021 15:39
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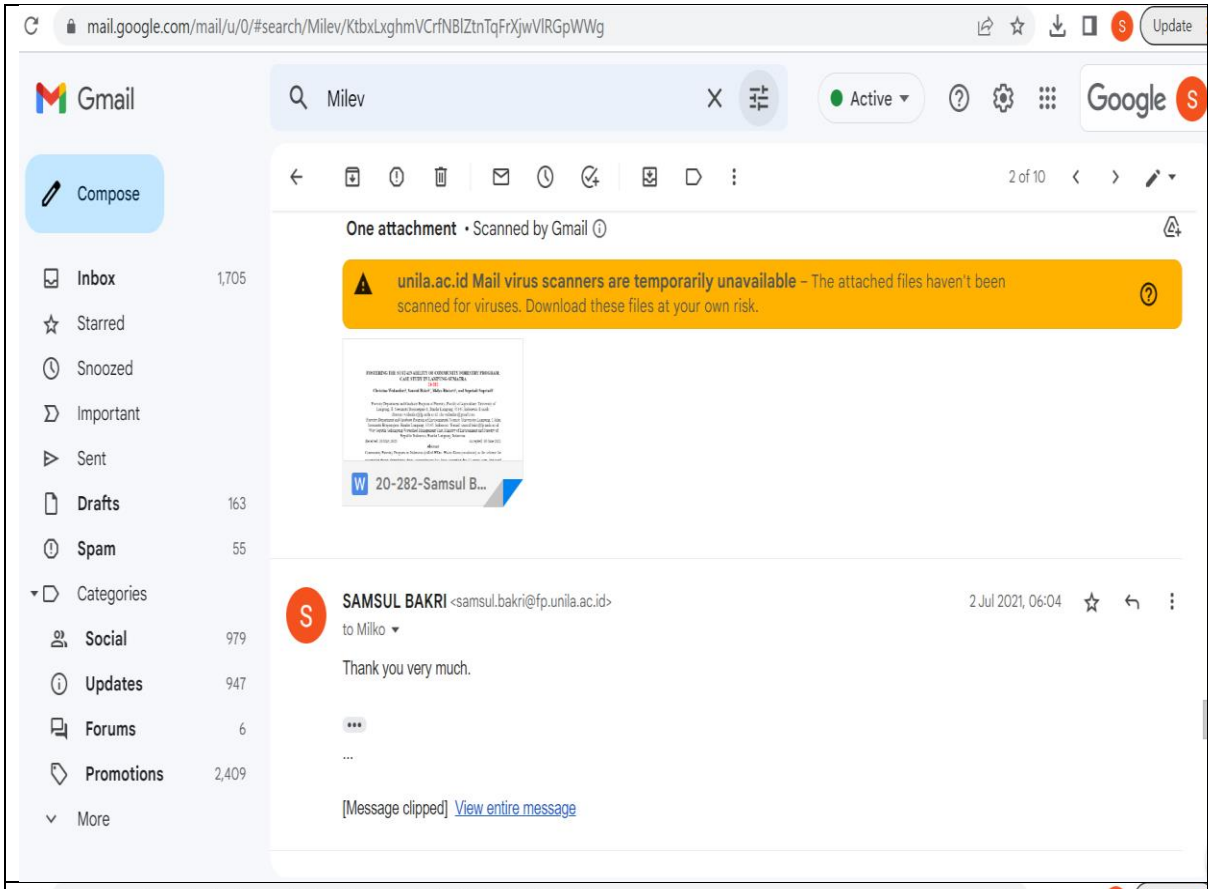
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SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
2 Jul 2021, 06:04
to Milko
Thank you very much.
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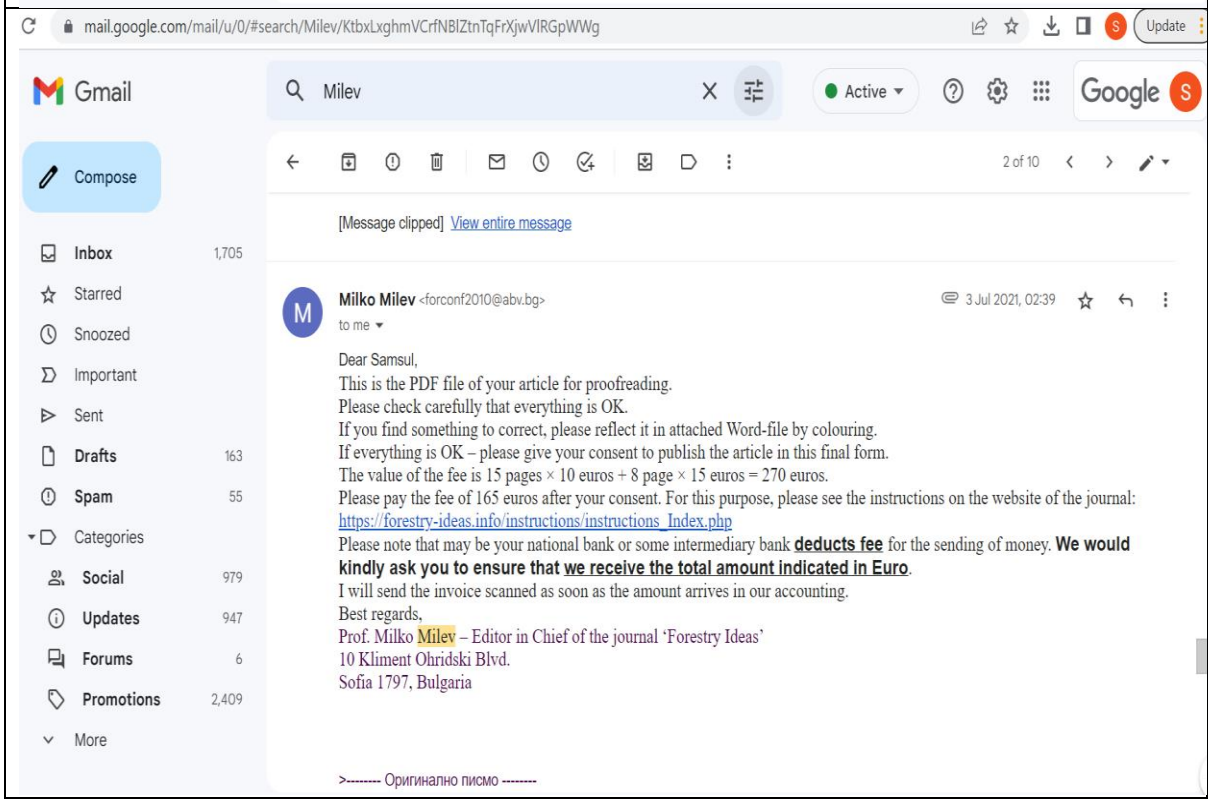
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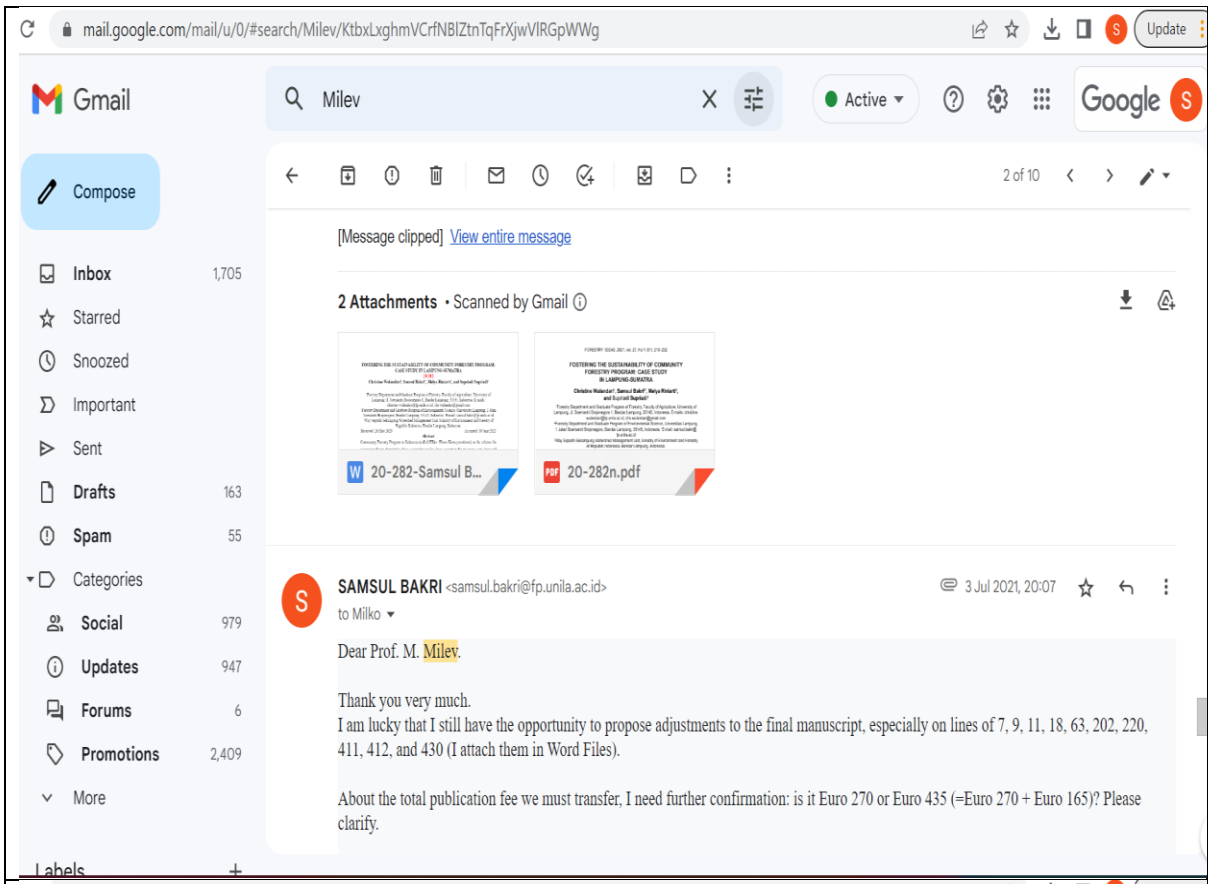
Milko Milev <forconf2010@abv.bg>
3 Jul 2021, 02:39
to me
Dear Samsul,
This is the PDF file of your article for proofreading.
Please check carefully that everything is OK.
If you find something to correct, please reflect it in attached Word-file by colouring.
If everything is OK – please give your consent to publish the article in this final form.
The value of the fee is 15 pages × 10 euros + 8 page × 15 euros = 270 euros.
Please pay the fee of 165 euros after your consent. For this purpose, please see the instructions on the website of the journal:
https://forestry-ideas.info/instructions/instructions_Index.php
Please note that may be your national bank or some intermediary bank deducts fee for the sending of money. We would kindly ask you to ensure that we receive the total amount indicated in Euro.
I will send the invoice scanned as soon as the amount arrives in our accounting.
Best regards,
Prof. Milko Milev – Editor in Chief of the journal 'Forestry Ideas'
10 Kliment Ohridski Blvd.
Sofia 1797, Bulgaria
>-------- Оригинално писмо --------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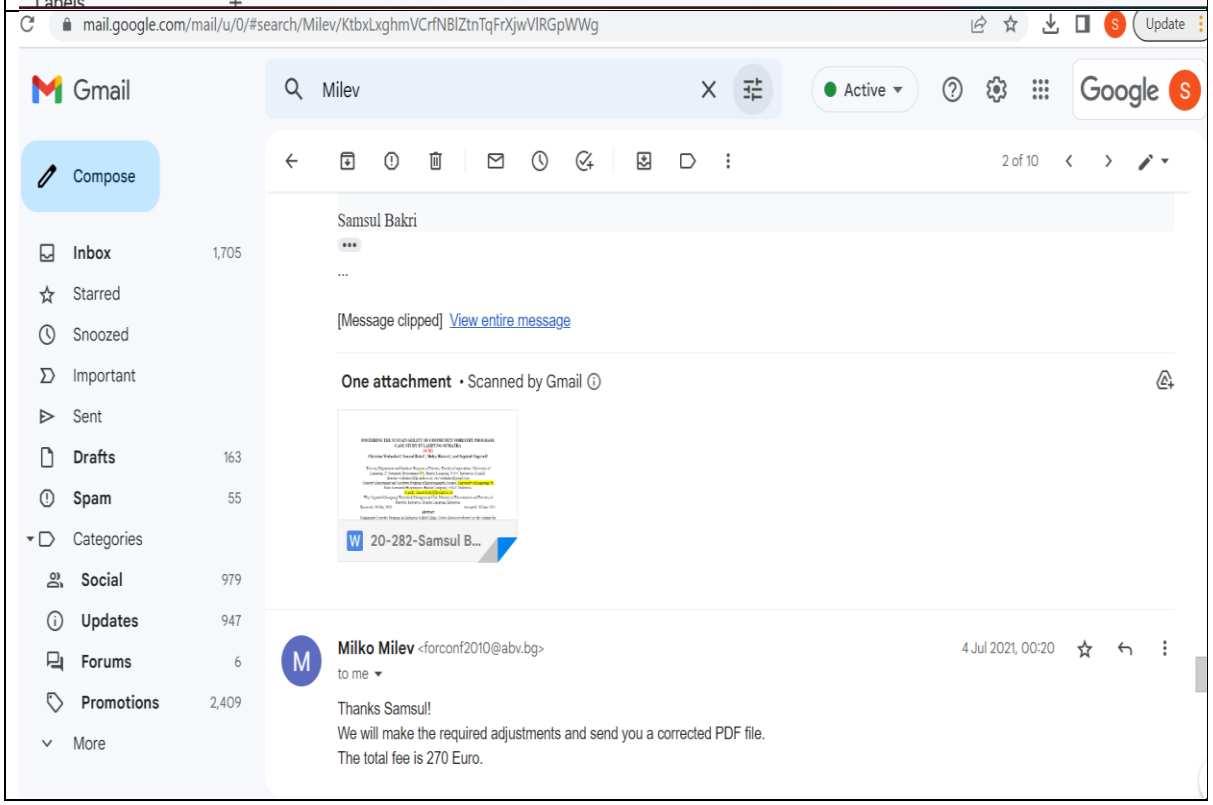
20-282n.pdf
SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
3 Jul 2021, 20:07
to Milko
Dear Prof. M. Milev.
Thank you very much.
I am lucky that I still have the opportunity to propose adjustments to the final manuscript, especially on lines of 7, 9, 11, 18, 63, 202, 220, 411, 412, and 430 (I attach them in Word Files).
About the total publication fee we must transfer, I need further confirmation: is it Euro 270 or Euro 435 (=Euro 270 + Euro 165)? Please clarify.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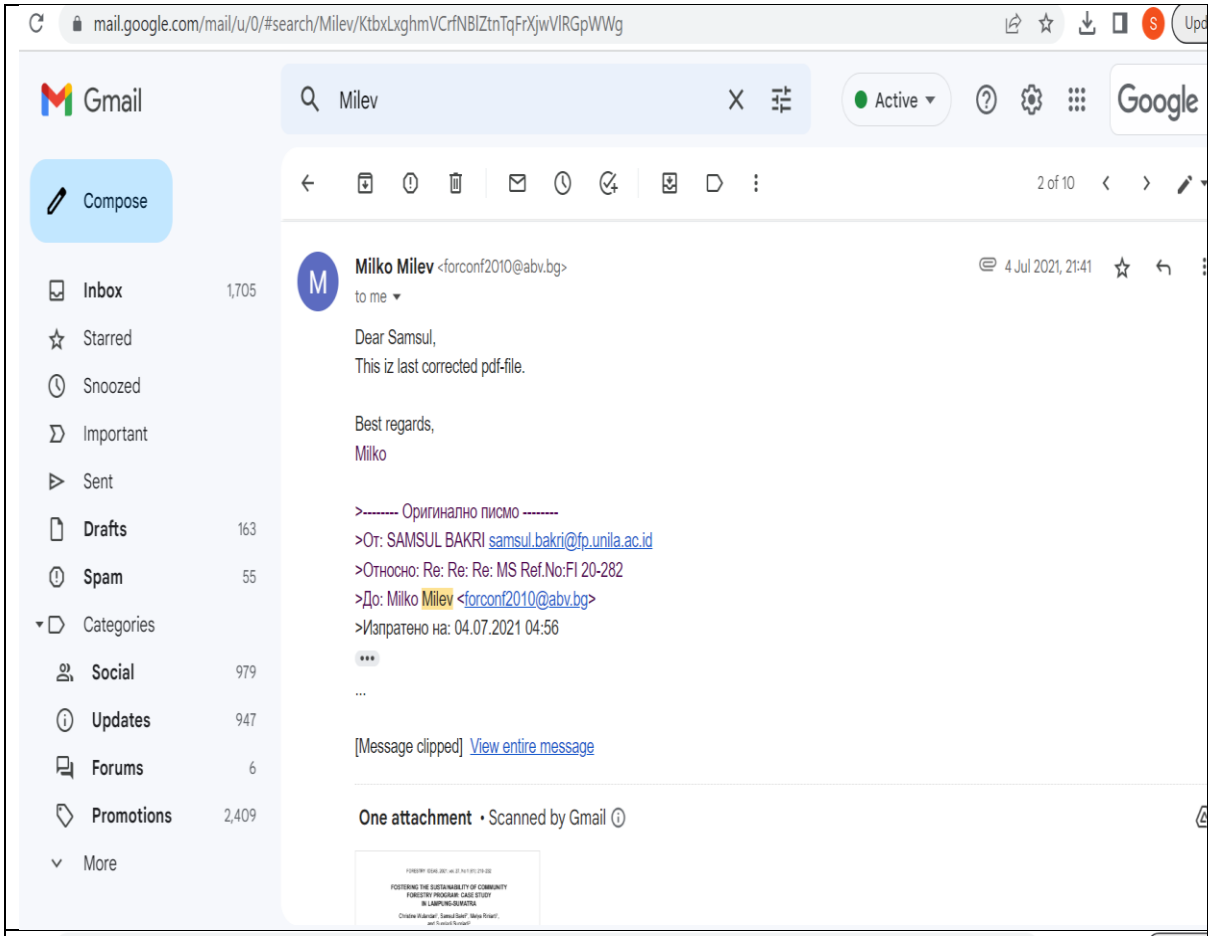
Milko Milev <forconf2010@abv.bg>
4 Jul 2021, 00:20
to me
Thanks Samsul!
We will make the required adjustments and send you a corrected PDF file.
The total fee is 270 Euro.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Social 979
Updates 947
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Milko Milev <forconf2010@abv.bg>
to me
4 Jul 2021, 21:41
Dear Samsul,
This iz last corrected pdf-file.
Best regards,
Milko
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>От: SAMSUL BAKRI samsul.bakri@fp.unila.ac.id
>Относно: Re: Re: Re: MS Ref.No:FI 20-282
>До: Milko Milev <forconf2010@abv.bg>
>Изпратено на: 04.07.2021 04:56
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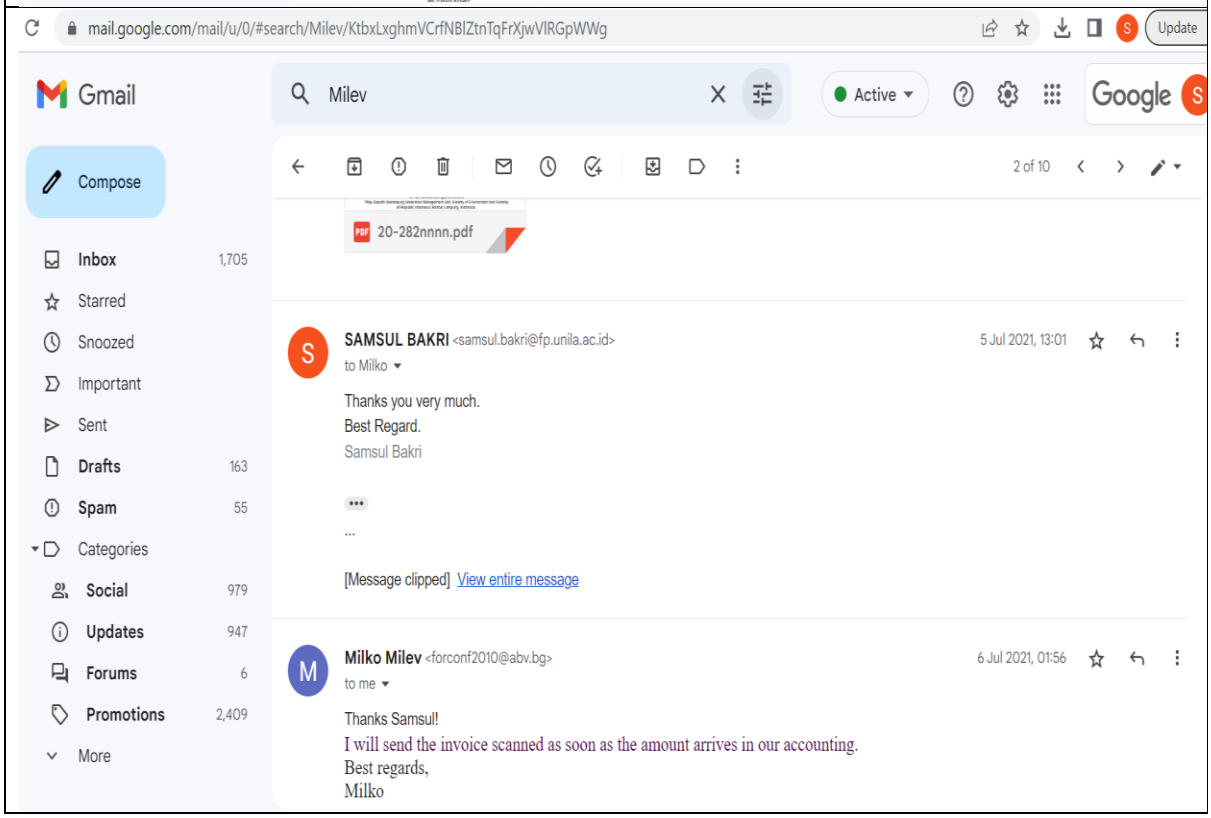
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SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
to Milko
5 Jul 2021, 13:01
Thanks you very much.
Best Regard.
Samsul Bakri
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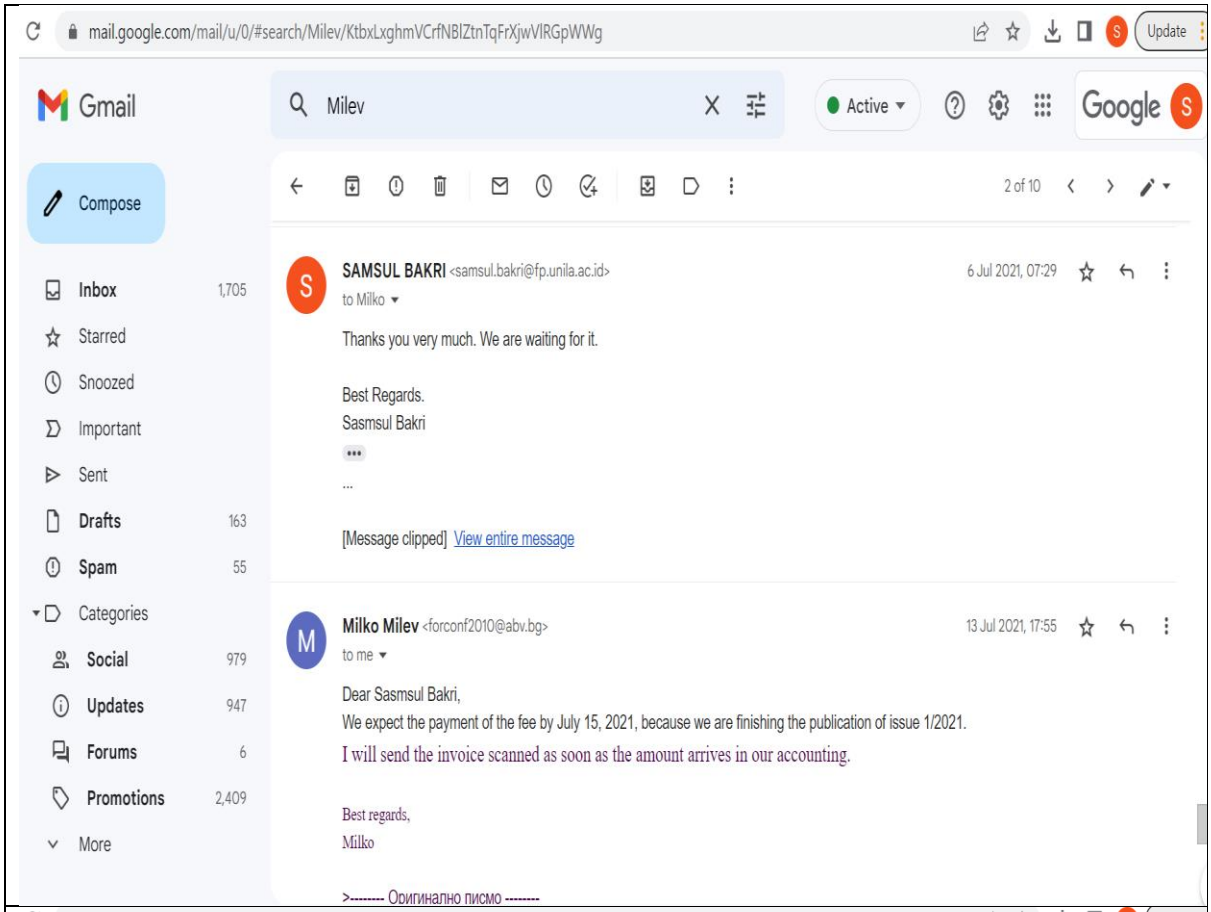
Milko Milev <forconf2010@abv.bg>
to me
6 Jul 2021, 01:56
Thanks Samsul!
I will send the invoice scanned as soon as the amount arrives in our accounting.
Best regards,
Milko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SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
6 Jul 2021, 07:29
to Milko
Thanks you very much. We are waiting for it.
Best Regards.
Sasmsul Bakri
...
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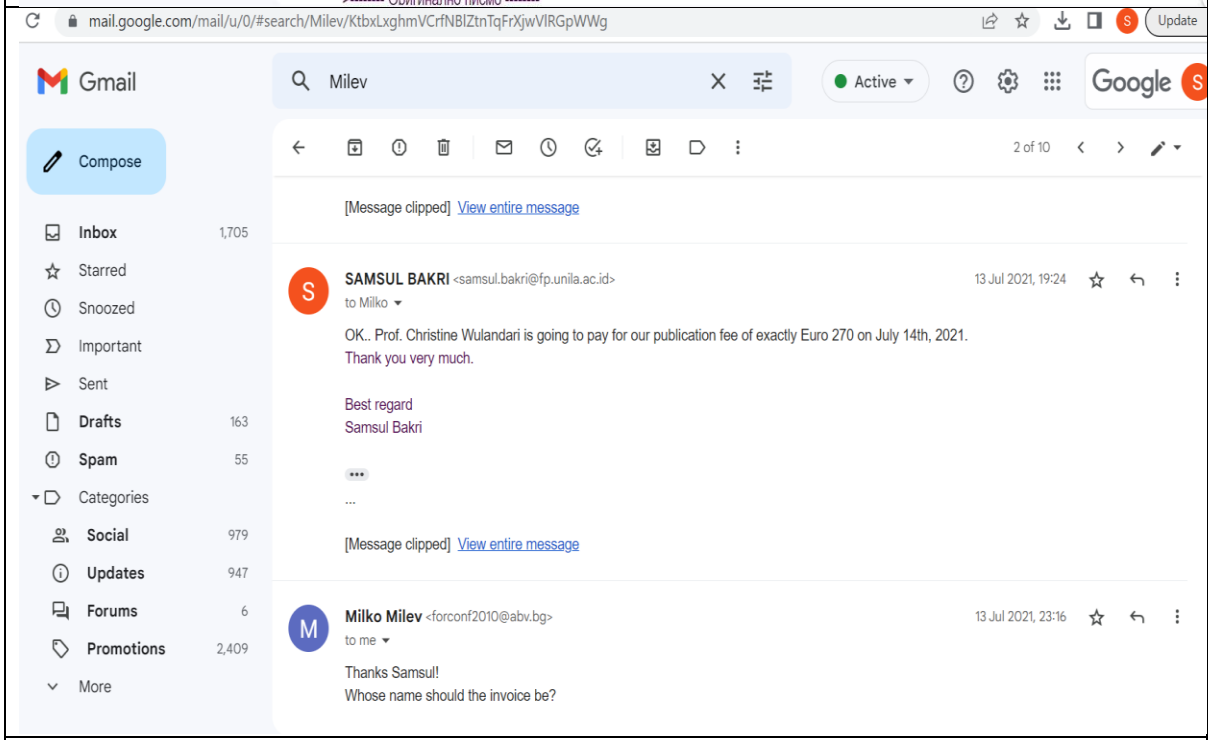
Milko Milev <forconf2010@abv.bg>
13 Jul 2021, 17:55
to me
Dear Sasmsul Bakri,
We expect the payment of the fee by July 15, 2021, because we are finishing the publication of issue 1/2021.
I will send the invoice scanned as soon as the amount arrives in our accounting.
Best regards,
Milko
>-------- Оригинално писмо --------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SAMSUL BAKRI <samsul.bakri@fp.unila.ac.id>
13 Jul 2021, 19:24
to Milko
OK.. Prof. Christine Wulandari is going to pay for our publication fee of exactly Euro 270 on July 14th, 2021.
Thank you very much.
Best regard
Samsul Bakri
...
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Milko Milev <forconf2010@abv.bg>
13 Jul 2021, 23:16
to me
Thanks Samsul!
Whose name should the invoice be?

FOSTERING THE SUSTAINABILITY OF COMMUNITY FORESTRY PROGRAM: CASE STUDY IN LAMPUNG-SUMATRA, INDONESIA

20-282

Christine Wulandari[1], Samsul Bakri[2*], Melya Riniarti[1], and Supriadi[3]

[1]Forestry Department and Graduate Program of Forestry, Faculty of Agriculture, University of Lampung, Jl. Soemantri Brojonegoro 1, Bandar Lampung, 35145, Indonesia. E-mails: christine.wulandari@fp.unila.ac.id, chs.wulandari@gmail.com

[2]Forestry Department and Graduate Program of Enviromental Science, Universitas Lampung, Jalan Soemantri Brojonegoro # 1, Bandar Lampung, 35145, Indonesia. [*]E-mail: samsul.bakri@fp.unila.ac.id

[3]Way Seputih-Sekampung Watershed Management Unit, Ministry of Environment and Forestry of Republic Indonesia, Bandar Lampung, 35145, Indonesia.

Received: 26 May 2020 Accepted: ……2021

Abstract

The Community Forestry Program in Indonesia (called HKm: *Hutan Kemasyarakatan*) as the scheme for recovering forest degradation from encroachment has been operating for 13 years ago, but untill nowadays there is no available gridline for fostering its sustainability (SUST). The HKm Authority, however, still have 22-24 years remain to foster the program before the scheme due. It is in needing both economic and tree biodiversity indicators of every HKm's member land as the guidance for sustaining the program. The income as the economic indicator itself commonly affected by the endogenous and exogenous variables. This research aimed at determining the roles of: (*i*) the endogenous and exogenous variables on agroforestry income (INCM), (*ii*) the INCM on tree biodiversity performance (BIODV), and the BIODV on the HKm's program sustainability (SUST). Data collected by interviewing to 230 members of HKm Jaya Lestari located in Way Kanan Regency-Lampung, Indonesia in February-May 2018. We employed OLS regression postulate model to investigate the first purpose and Loglinear Regression to examine the second and the third purposes. Minitab Version 16 software applied for the models' goodness-fits test and parameter optimization at 90 and 95% confident level. The research suggest: (*i*) the endogenous variables with positively affect INCM were the family number size, participation in extension activities, land holding acreage, the tribes whose Sundanese and Semendonese were higher than Javanese, and with negatively effect was the land elevation; whereas the exogenous variable affected negatively namely the rural facility construction and nursery demonstration plot activities; (*ii*) the higher INCM the higher BIODV, but (*iii*) the more BIODV the less SUST will be. It recommend that continue in fostering the HKm members by managing the endogenous variables in order to rise up INCM, and then multiply BIODV as well as to broaden HKm members' awareness on voluntary planting some wooden trees as the prerequisite of pursuing SUST.

Key words: forest recovery, agroforestry, income, biodiversity, and sustainability.

Introduction

Sustainability is still remain a major theme in every development process since the Malthusian pessimism aroused in the early century, including in the agrarian sectors that commonly susceptible to the socio-demographical dynamic, market pricing commodity shock,

environmental disturbances, as well as macroeconomic or international policy changes. The phenomena is also experiencing by almost forest management programs in Indonesia including forest recovery from encroachment called HKm scheme (Wulandari and Inoue, 2018). The forest encroachment itself was rampant during Indonesia underwent governmental reformation from authoritarian to democratization regime followed by forest decentralization to local government in the period of 1998-2001. According to McCarthy (2006) during the period the desperate economic situation and disjointed political climate, many Indonesians saw that there would not likely be any punishment for unlawful actions in protected areas. Besides, the poverty, meanwhile, accompanied by lacking of land holding as well as the limited government apparatus for controlling state own forest region were the major triggering on the encroachment phenomenon.

According to Watala (2008) during the period forest cover loss at the protected forest, production forest, Way Kambas National Park and Bukit Barisan National Park were around 80%, 76%, 36% and 16% respectively. So that this province was the first established for the HKm scheme. Under the scheme forest encroachers recruited as the HKm member for 35 years, permitted to manage their claimed land by applying agroforestry gradually, forbidden in cutting tree woods instead of non wood products such as sap, latex, rattan, coffee fruit, vegetable, food crops etc. This HKm scheme can be considered as an incremental planning instead of radical planning due to limited resource or power. The HKm schemes contribution on forest recovery can be indicated by the improvement coverage forested area in Lampung Province.

According to Seno et al (2018) that in this province there has been forest cover improvement from 39,380 to 129,136 ha in between 2001 to 2014. This improvement occur particularly in the state own production forest and protected forest areas. Whereas in the conservation forests or national parks were almost free from encroachment due to very tightly guarding activities. The improvement of forest coverage areas, further, can contributes to the environmental services performance including microclimatic amenity, enhance ecological equilibrium, and at least to reduce infectious or zoonosis diseases incidence such dengue hemorrhagic fever (Seno et al, 2018), malaria (Wigaty et al, 2019), and avian influenza (Rohayati et al, 2018).

Those significant progress of the forest recovery that also maybe contributed by HKm scheme, however, has never been examined its sustainability ye. It is important to note that the sustainability indicator is something dynamic, always change from time to time, and even

sometime move down. Perhaps some years shows in highly performance, but the next year on maybe rise down. The sustainability HKm program, therefore, must be nurtured, managed, and pursued by fostering some of determined variables. The important and relevant variables commonly used are both economic and tree biodiversity performance of every parcels of forest land as the indicators (Wulandari et al., 2018a; Ruchyansyah et al. 2018). According some researchers both indicators commonly are trade off in a forest ecosystem. It was true for conventionally forest science in past, but not for agroforestry system currently.

Agroforestry system, actually can afford both economic and biodiversity all at once. The stratum of vegetations are stake, pole, and seedling can be growing bellow the wood stumpages in the agroforestry system. This stratified tree trunk system means to compose tree biodiversity on one hand and can afford economic benefit for the farmers (Puspasari et al., 2017). Among them that can afford a highly economic benefit for example cinnamon (*Cinnamomum verum*), coffee (*Coffea canephora*.) or cocoa (*Theobroma cacao*) for the stake and pole strata respectively. There are so many vegetation species of seedling stratum that can afford highly economic benefit as well as to contribute the biodiversity enhancement *i.e.* soybean, peanut, some vegetables, aromatic or medical herbs etc. (Bakri et al., 2018)

Applying agroforestry system for the HKm members, therefore, is an prominent way to meet their obligation for forest recovering beside to provide for their family income. But, the farmers' ability certainly will be constrained by some endogenous and exogenous variables. Their stock of knowledge and skill, their physical capital, or productive asset available are the endogenous variables that are possibly controlled internally by HKm management. The skill and knowledge level, however, are commonly affected by their socio-demographic variables including age, sex, family size, education, culture or ethnicity, group involvement, participation in extension, access to information, distance to market place (Idayanati et al., 2019). Besides, the skill and knowledge land acreage, the ownership of hand phone, grocery, fishpond, motor bike will be become productive capital that determine their productivity and will shed out in the form of their income later on. Additionally the exogenous variable including the availability of rural public investment as well as the social safety net maybe impact to their income.

Triggering by some incentive that possibly be generated by the economic benefits from miscellaneous agroforestry yields, it is normal to expect that the farmers will add various tree species voluntarily on their land, particularly whenever their income can be promoted by fostering the HKm authority. In line with this background, it is needing to build model

prediction of farmer income as the function of both the endogenous and exogenous variables and then the income need to predict to tree biodiversity performance as well as the control the sustainability of the HKm program. This research, therefore, was conducted with the aims of: (*i*) Modeling the HKm members' income from agroforestry yield (INCM) based on their endogenous and exogenous variables, (*ii*) Modeling tree biodiversity (BIODV) performance base on INCM, and (*iii*) Modeling the HKm sustainability program as the function of the BIODV. These three series model will become reliable tools in planning to foster the HKm Schemes sustainability endeavor in Indonesia.

M aterial and Methods

This study consists of a field survey and data analyses, from February to May 2018. The field survey was conducted at Talang Mangga Village, Banjit District, Way Kanan Regency, Lampung Province, Indonesia (Fig. 1). Data were collected through interviews using questionnaires guidance to 230 HKm members. The cluster random sampling method on a population of HKm Mangga Jaya group members totaling 697 households and composed of 9 sub groups. The sub-grouping is formed based on block area that may consist of one or more village. Each sub group has about 73 to 76 households as members. Each sub group is treated as the cluster. We randomly drew samples of 25–26 households in each sub group as potential respondents so total our samples is 230 households, and we call this as 230 respondents. As to the decision about 25–26 respondents as the minimum size of sample per sub group is intended of having normal distribution of the data. According to the Central Limit Theorem (Johann Karl Gauss 1777–1855 as cited by Sang and Hae 2017; Lunsford et al. 2006; Dinov et al. 2008; Ghasemi and Zahediasl 2012) if the sample data size is large enough, it will follow a normal distribution regardless of the form of the population distribution. Sang and Hae (2017) and also Ghasemi and Zahedials (2012) have proven a sample size of >30 is the golden rule to meet normal distribution, while Lunsford et al. (2006) and Dinov et al. (2008) the golden number of minimum size is 25 members.

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Commented [A2]: Explain the distribution of samples: one village? Or more.
One block of areas of Community Forest?

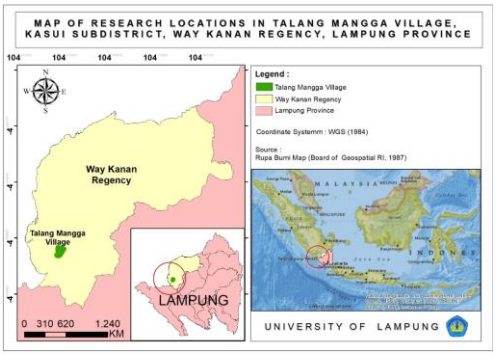

Fig. 1. Research location (Source: Redesigned based on Rupa Bumi Map, Board of Geospatial RI, Bogor, 1987)

Model Approach and Testing Hypotheses

In accordance with the aim of this research there are three measured response variables: 1) the farmers' income 2) the tree biodiversity indices (BIODV), and 3) the sustainability of HKm program indices (SUST). As for the surrogate of three are explianed in the following.

Model I: The Farmer Income

The farmer's income from agroforestry yields (INCM) is intended to depict their welfare under HKm program. In this research, ECNM is measured by using the total income per family per annum, the income from cultivation on HKm land only, such as latex (rubber sap), coffee bean, areca nut etc. The increasement INCM is expected to become an important variable in determining the improvement of tree biodiversity of every land parcel (BIODV) belong to HKm members. The BIODV itself is a good indicator of the forest ecosystem recovery process particularly agroforestry system instead of monoculture cropping pattern-.

According to Idayanti et al (2019), INCM is significantly influenced by age, sex, and number of dependents. While as reported by Puspasari et al (2017), there are no real differences between ethnicities in earning income. Setiawan et al. (2014), however, proved that in this study area Javanese ethnicity was more resilient in increasing their income than ethnic Lampung and others in making a living. Meanwhile, in the local forestry institution namely KPH Bukit Punggur (2014) Strategic Plan document, it is stated that the HKm members in this research area are composed of Javanese, Sundanese, Lampung, and Semendo ethnic groups. The first two ethnicities are immigrants while the others are native ethnicities who are very adaptive to agroforestry cultivation legacy from their ancestor. The ethnicity can be considered as the surrogate of a traditionally cultural bundle that have accumulated day by day along history. The

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Commented [A4]: I believe this is a new paragraph?

Commented [A5R4]: OK, thanks

different ethnicity can be utilized for contrasting skills and local knowledge in relation their productivity in agroforestry cultivation. This variable, therefore, should be counted on every community development plan included in the fostering to behave more efficiently in earning from agroforestry yields (INCM). The earning, in turn, will be the basic for stimulating HKm member to plant wooden tree crops other than rubber. The INCM modeling functioning as the endogenous and exogenous variables of household that in detailed summarized in Table 1. Model I as the INCM prediction is expressed in Formula (1):

$$INCM_i = \alpha_o + \alpha_1 AGE_i + \alpha_2 SEX_i + \alpha_3 FMLSZ_i + \alpha_4 VDAM_i + \alpha_5 GADM_i + \alpha_6 AJOB_i + \alpha_7 CLVTN_i + \alpha_8 D1\_ELS_i + \alpha_9 D1\_JHS_i + \alpha_{10} D2\_SND_i + \alpha_{11} D2\_SMD_i + \alpha_{12} D2\_LPG_i + \alpha_{13} LHLD_i + \alpha_{14} UPLN_i + \alpha_{15} RICEF_i + \alpha_{16} GOAT_i + \alpha_{17} FPOND_i + \alpha_{18} MBIKE_i + \alpha_{19} GCERY_i + \alpha_{20} TVOW_i + \alpha_{21} HPOW_i + \alpha_{22} EXTN_i + \alpha_{23} ELVT + \alpha_{24} DLND_i + \alpha_{25} DVLM_i + \alpha_{26} DDST_i + \alpha_{27} RINVT_i + \alpha_{28} SCNET_i + \alpha_{29} NURSY + €_i, \quad (1)$$

where: INCM is income from agroforestry yield of respondents; α_0 is intercept; α_1-α_{29} are parameter Model I; € is residual error Model I; i=1, 2, …, 230 are respondent numbers; the other symbols correspond to the symbols in Table 1.

The working hypothesis Model I as is expressed in the following:

Ho: $\alpha_1 = \alpha_2 = \alpha_3 = \ldots = \alpha_{29} = 0$ (among the 29 variables enlisted in Table 1, there is no variable that affect the family's income significantly);

H_1: $\alpha_1 \neq \alpha_2 \neq \alpha_3 \neq \ldots \neq \alpha_{29} \neq 0$ (among the 29 variables enlisted in Table 1, at least there would be one variable that affects the family's income significantly).

The testing hypothesis and optimization parameters process for Model I was conducted by applying Minitab 16. The (*F*)*isher Statistic* employed to examine the goodness fits test for the Model I at confident level of 90 and 95%. Then to depict every parameter of predictor variables we employed the *T* statistic at confident level of 90 and 95% as well.

Model II: The Tree Biodiversity Prediction Model

As mentioned before that Model II is intended to predict the probability of tree biodiversity improvement of every land parcel belong to HKm members. The Model II is predicted by single variable of INCM. This model is expected can express that HKm members will add more tree species voluntarily at their land whenever their income from agroforestry yield (INCM) is risen up. In order to depict this objective, we employed the Loglinear Regression or Logistics regression that expressed in the Formula (2):

Commented [A6]: Why education is not included in here?

Commented [A7R6]: Education is included in the socio-demographic factor that has mention in Table 1.

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$$Ln\frac{P(BIODVi)=1}{1-P(BIODVi)=1} = \beta_0 + \beta_1 INCM_i + \xi_i \quad (2)$$

where: *Ln* is logarithm operator using the natural number (e=2,718281828459...) as the basis; $P(BIODV_i) = 1$ are the probability of being succeeded in improving tree biodiversity of the respondent i^{th}; $1\text{-}P(BIODV_i) = 1$ are probability of being fail in improving tree biodiversity of respondent i^{th}; β_0 is intercept; β_1 is parameter Model II; ξ_i is residual error Model II; $i = 1, 2, \ldots,$ 230 are respondent numbers. The working hypothesis of Model II is expressed in the following:

H_0: $\beta_1 = 0$ (the family income do not affect the tree biodiversity performance significantly);

H_1: $\beta_1 \neq 0$ (the family income affect the tree biodiversity performance significantly).

Commented [A9]: Seems this is not really biodiversity indicator of this only depends on trees diversity – just call this tree diversity (?)

Commented [A10R9]: Yes, we are agree with you Sir. Thak you.

Commented [A11R9]: OK, thanks.

Table 1. The endogenous and exogenous variables of family head and their data scoring in model employed as well as the expected sign in regression result

Group of variable and the variables	Symbol	Unit or data scale measured	Scoring	Expected Sign in Regression: Brief explaination in relation to the income per family
Social demographic*				
1. Age	AGE	year	integer number	- : the older the lessen their productivity will be
2. Sex	SEX	catagorical	=1 if man; =0 if other	+ : man more powerfull in cultivation than woman
3. Family size number	FMLSZ	person	integer number	+ : the more person the more income
4. Role in village administration	VADM	-	=1 if village administrator	+ : will earn more access to information and power
5. Role in HKm group	GADM	-	=1 if administrator of HKm	+ : will earn more access to information and power
6. Additional job	AJOB	-	=1 if any	+ : will bring other source of income
7. Cultivation applied	CLTVN	-	=1 if agroforestry; =0 if monoculture	+ : who applied agroforestry have miscellaneous yield so that more secure from cropping failure as well as from pricing market shock
Education level* (0 = never schooling)				
8. Dummy elementary school	D_1_ELS	dummy	=1 if elementary; =0 if others	+ : graduate ELS more innovative then who never schl.
9. Dummy junior high school	D_1_JHS	dummy	=1 if yunior high sch.; =0 if others	+ : graduate JHS more innovative then who ELS
Ethnicity* (0 = Javanese tribe)				
10. Sundanese	D_2_SND	dummy	=1 if Sundanese; =0 if others	- : Sundanese less adaptive in agroforest than Javanese
11. Semendonese	D_2_SMD	dummy	=1 if Semendonese; =0 if others	+ : Semendonese more adaptive than Javanese
12. Lampungnese	D_2_LPG	dummy	=1 if Lampungnese; =0 if others	+ : Lampungeses the most adaptive in agroforest
Productive assets*				
13. Total land holding acreage	LHLD	ha	rational number	+ : the more total land holding the more income
14. Up land acreage inside HKm area	UPLN	ha	rational number	+ : the more up land in HKm area the more income
15. Rice field inside HKm area	RICEF	ha	rational number	+ : the more rice field in HKm area the more income
16. Goat number ownership	GOAT	ha	integer number	+ : the more number goat the more income
17. Fish pond ownership	FPOND	categorical	=1 if own; =0 if other	+ : who owe fishpond will earn more income
18. Motorbike ownership	MBIKE	categorical	=1 if own; =0 if other	+ : who owe motor bike will earn more income
19. Small grocery shop ownership	GCERY	categorical	=1 if own; =0 if other	+ : who owe small grocery will earn more income
Information and physical accesibility *				
20. TV ownership	TVOW	categorical	=1 if own; =0 if other	+ : who own TV will have more productive information
21. HP ownership	HPOW	categorical	=1 if own; =0 if other	+ : who own HP will have more productive information
22. Extension participation	EXTN	-	=1 if active =0 if other	+ : who participate in extension have more productive
23. Elevation of land area	ELVT	m a.s.l.	rational number	- : the higher the more effort and the less income
24. Distance to land area	DLND	minutes by bike	rational number	- : the farther distance the more time or transportation cost needed
25. Distance to village market	DVLM	minutes by bike	rational number	- : the farther distance the more time or transportation cost needed
26. Distance to subdistrict centre	DDST	minutes by bike	rational number	- : the farther distance the more time or transportation cost needed
Beneficiary from rural facility investment**				
27. Rural facility investment	RINVT	-	=1 if any; =0 if other	- : public investment activities project such as rural road improve will make trade off time and negatively impact to agroforestry activities
28. Social safety net	SCNET	-	=1 if any; =0 if other	+ : social safety net also will affect positively to income
29. Nursery demonstration plot	NURSY	-	=1 if any; =0 if other	+ : the plot will affect positively to the farmers skill & their income.

Note:* endogenous variables, **the exogenous variables.

For the H_1 above, a positive number of parameter β_1 was expected that would be produced later on through optimization process using statistical software of Minitab 16. The Gald statistic was employed to test the goodness fits of model. Whereas the significancy of parameter model was tested by employing the Wald statistic. Both Gald test and Wald test were employed at confident levels of 90 and 95%.

Model III: The HKm Program Sustainability Perdiction Model

Model III is intended to predict the sustainability of the HKm program (SUST) by using single predictor variable of BIODV. The model III is expressed in the Formula (3):

$$\text{Ln}\frac{\text{P(SUSTi)=1}}{1-\text{P(SUSTi)=1}} = £_0 + £_1\text{BIODV}_i + \pi_i \quad (3)$$

where: Ln and i are as in formula (2); $P(SUST_i) = 1$ is the probability of respondents – i^{th} succeeded to support HKm program sustainability; $1 - P(SUST_i) = 1$ is the probability of respondents – i^{th} fail to support HKm program sustainability; $£_0$ is intercept; $£_1$ is a parameter Model III; π_i is residual error of Model III.

The working hypothesis Model III is expressed in the following:

H_0: $£_1 = 0$ (the tree biodiversity performance do not affect the sustainability program significantly);

H_1: $£_1 \neq 0$ (the tree biodiversity performance affect the sustainability program significantly).

Also in the Model III, a positive number of parameter $£_1$ was expected that would be produced by optimization process using statistical software of Minitab 16. The Gald statistic was employed to test the Goodness fits of the model. Whereas the significancy of parameter model was tested by employing the Wald statistic. Both Gald test and Wald test were employed at confident levels of 90 and 95%.

Results and Discussion

Result in Descriptive Statistic

Very firstly we need to describe three variables that used as the respond variables in the three models regression, namely [INCM], [BIODV], and [SUST]. Having displayed the descriptive statistic of the three variables respond, the three modeling results will be provided consecutively later on. It is important to note from data gathered of the field survey, that lowest [INCM] was IDR 0.15 and the highest was IDR 23 M per year. Briefly distribution of [INCM] is provided in Table 2. Based on this term, the dominant class [ICNM] was <2 M per year, with the

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Logical flow should be improved and to be well developed.

Better to present in two sub-headings: results and discussions.
Results section should be just discussing results.
Literature review should be in the earlier section if the references support the choice of variables used.
If the literature supports the findings, and these should be used in the discussion section.
Discussion section focusses on making the connection between results to the hypothesis and support the arguments with literature as necessary.

frequency of 91 family (39.4 %). This fact can be treated as the bech mark in planning to enhance INCM from agroforestry earning that have to be fostered by HKm scheme.

Table 2. Proportion of family based on their income.

No.	Income Class (IDR M/annum)	Frequency	Proportion (%)
1.	<2.0	91	39.4
2.	2.1 – 5.0	60	26.1
3.	5.1 – 10.0	51	22.2
4.	>10.0	28	12.2

As for the tree biodiversity [BIODV] is defined by addition the wooden tree crop that have planted and successes to grow, The number addition of wooden tree then are grouped in three classes BIODV namely low, moderate, and high. The moderate class is defined in between 3 to 5 species added, while beyond both boundaries are low and high classes of BIODV respectively. The distribution BIODV is described in Table 3. From this table we can appraise for forestry workers, who have been striving their effort to recovery forest degradation (Bakri et al. 2018; Chamberlain et al., 2019). It is the fact that for 11 years HKm's program was operated only did 1.7% or 4 parcels of land covered by the high BIODV. The dominant is still 54.4% (125 parcel of land) low in tree biodiversity performance (BIODV). This fact can be treated as the bench mark in planning to speed up the forest recovery program under the HKm scheme as well.

Table 3. Proportion of the family based on tree biodiversity.

No.	Tree Biodiversity Class	Frequency	Proportion (%)
1.	Low	125	54.4
2.	Moderate	101	43.9
3.	High	4	1.7

Commented [A13]: Tree diversities?

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Commented [A15R13]: OK, thanks

The third respond variable is classified as *yes* or *no* in supporting HKm's sustainability program (SUST). The distribution of this data of SUST is provided in Table 4. It is important to note that the criterium for separating between the two class (*yes versus not*) is the compliance of HKm's members to plant the additional wooden tree crops on their land even though without any financial assistant from HKm authority or from other sources except from themselves . In case a member comply is as "*Yes*" to support the probability of the HKm's sustainability

program. The revers is as "*No*". This distribution between two is depicted in Table 4. The table displays that more than half of the families are still not support yet the probability of the HKm's sustainability program (SUST). This fact should be taken into account in developing programs to foster the SUST.

Table 4. Proportion of the family who support the probability of the HKm's sustainability program.

No.	Family who support	Frequency	Proportion (%)
1.	Yes	87	37.8
2.	No	143	62.2

For the sake of pursuing the guidelines to foster the SUST, we need to examine the relationship among the three variables consecutively in series models regression. Having known which ones of among both endogenous and exgenous variables (Tabel 1) that significantly affect on INCM, we then can estimate or predict BIODV performance. We, furthermore, use the predicted BIODV to examine the SUST. The three regressions model are presented in the following.

Result of the Regression Models

The Model I is to explain the role both the endogenous and exogenous variables (detail in Table 1) in determining family income from agroforestry in HKm land. The goodness of fits test result for the Model I applied is provided in Table 5. Meanwhile the optimization parameter of variables affecting family income (INCM) can be seen in Table 6.

Table 5. Analysis of variance of role independent variables on family income.

Source	Degree of Freedom	Sum Square	Mean Square	F	P
Regression	33	3746.76	113.54	13.36	0.000
Residual Error	195	1657.55	8.50		
Total	228	5404.31			

Note: S = 2.91552; R^2 = 69.3 %; R^2-*adj* (adjusted to sample size) = 64.1 %;
F = Fisher Statistic value; P = Probability to miss prediction.

By referring to the *P-value=0.000* (in Table 5), it means that we have had no enough fact to reject H_1 (that also means there is no enough fact to accept H_0). In other word that the Model I is valid or robust predictor model of INCM that based on both endogenous and exogenous variables of every family at the study area. It is important to realize that there is no breaking any mathematical rules in case we write this *P-value=0.0004* because this member is

approximately the same with the originate number. But the *P-value=0.0004* can help the interpretation about the robustness the Model I obtained. It tells us that if we applied the model for predicting INCM based on the 29 predictor (Table 1, the endogenous and exogenous) variables to predict 10.000 families, we will get very highly precision of predicted INCM *i.e.* there will be maximum 4 family miss predicted than the actual ones. Briefly speaking, the confident level of the Model I is more than 99%.

Table 6. The parameter optimization of socioeconomic variables that affected family income.

Predictor	Symbol	Coeff.	SE coeff.	*T*	*P*
Constant		4.7200	3.795	1.24	0.215
Social demography					
1.Age	AGE	-0.0059	0.0172	-0.34	0.731
2.Sex	SEX	0.3911	0.7872	0.50	0.620
3.Family size number	FMLSZ	0.4210	0.1386	3.04	**0.003**
4.Role in village administration	VADM	-0.0072	0.8622	-0.01	0.993
5.Role in HKm group	GADM	-1.2230	1.8350	-0.67	0.506
6.Additional job	ADJOB	-0.0627	0.6643	-0.09	0.925
7. Cultivation applied	CLTVN	1.2030	1.6220	0.74	0.459
Education level (0 =never schooling)					
8.Dummy elementary school	D_1_ELS	1.0231	0.7861	1.30	0.195
9.Dummy junior high school	D_1_JHS	0.1139	0.8287	0.14	0.891
Ethnicity (0 = Javanese tribe)					
10.Sundanese	D_2_SND	1.6366	0.5892	2.78	**0.006**
11.Semendonese	D_2_SMD	1.8658	0.6891	2.71	**0.007**
12.Lampungese	D_2_LPG	0.7410	1.5850	0.47	0.640
Productive assets					
13.Land holding acreage	LHLD	3.9783	0.2681	14.84	**0.000**
14.Land acreage	UPLN	0.1412	0.6829	0.21	0.836
15.Rice field inside HKm area	RICEF	-0.9278	0.8834	-1.05	0.295
16.Goat number ownership	GOAT	-0.0594	0.4735	-0.13	0.900
17.Fish pond ownership	FPOND	0.2654	0.4802	0.55	0.581
18.Motorbike ownership	MBIKE	-0.5104	0.5406	-0.94	0.346
19.Small grocery shop ownership	GCERY	-0.3521	0.5735	-0.61	0.540
Information and physical accessibility					
20.TV ownership	TVOW	-0.1725	0.5691	-0.30	0.762
21. HP ownership	HPOW	-0.4943	0.6455	-0.77	0.445
22. Participation in Extension	EXTN	2.3851	0.5094	4.68	**0.000**
23.Elevation of land area	ELVT	-0.0072	0.0025	-2.93	**0.004**
24.Distance to land area	DLND	-0.0229	0.07400	-0.31	0.758
25.Distance to village market	DVLM	-0.0229	0.0740	-0.31	0.758
26.Distance to district centre	DDIST	-0.0575	0.0543	-1.06	0.291
Beneficiary from rural facility investment					
27. Rural facility investment	FIVST	-2.4571	0.6511	-3.77	**0.000**
28. Social safety net	SCNET	0.9818	0.9044	1.09	0.279
29. Nursery demonstration plot	NURSY	-2.8541	0.5818	-4.91	**0.000**

Note: the bold numbers are significant at level < 1.0 %.

As for which ones among the 29 variables that affect the ICNM significantly, we must examine their probability to miss (*P*) in Table 6. The table connoted that there are eight variables affect to INCM significantly with *P <1%* (or confident level more than 99%) namely

the variables of the family number size (FMLSZ), the ethnicity where the Sundanese (D_1_SND) and Semendonese (D_1_SMD) compare to Javanese, land holding acreage (LHLD), participation in extension (EXTN), land elevation position (ELV), rural investment facility (FISVT) and nursery development plot project (NURSY). In other words, against to these eight variables, there is no enough fact to reject H_1 (all at to accept H_0). Additionally, that the last two variables mentioned happen to be are the exogenous variable where the others six are the endogenous variables. Fortunately the effect of the six endogenous variables are in the same direction with the INCM, the better quality of each variable the better INCM will be. On the contrary, for two remain of the exogenous variables, the INCM will reduce significantly if the activities of both FISVT and NURSY exists.

As for the 21 variables remain on the contrary, there is no enough fact to reject H_0 (or all at once to accept H_1). All these variables have any effect significantly to the INCM. As mention before, the Model II is intended to explain tree biodiversity (BIODV) based on the family income (INCM). The goodness fits test of the Model II as well as the significancy effect of INCM on the BIODV is provided in Table 7. This table depicts that there is no enough fact to reject H_1 (and all at once to accept H_0). In other word that the INCM affects significantly on the tree biodiversity (BIODV). In case the INCM at average rise up as much as IDR 1M per year, the BIODV will improve by 1.13 as indicated by its Odd Ratio and this improvement is very significant that indicated by its $P_{\text{-value}} = 0.000$ or with confident level is more than 99%.

Table 7. The Wald Test of Model II: The logistic regression model of the effect of income to the tree biodiversity performance.

Predictor	Symbol	Coefficient (Coeff.)	SE Coeff.	*Z*	*P*-value	Odd Ratio	95% Confident interval (CI)	
							Lower	Upper
Constant	-	-0.330442	0.200843	-1.65	0.100	-	-	-
Income	INCM	0.122602	0.034123	3.59	0.000	1.13	1.06	1.21

Note: G = Gald statistic; *Z* = Coeff./SE Coeff.; Log-Likelihood = -149.873; Test that all slopes are zero result *G* = 15.685; *DF* = 1; *P*-value = 0.000

Developing Model III is motivated by seeking some clues to compose a guideline for fostering every HKm member in order to contribute the probability increasement of the HKm's sustainability program (SUST). The goodness fits test of the Model III as well as the significancy effect of BIODV as the predictor of SUST is provided in Table 8.

Table 8. The Wald Test of Model III: Logistic regression of the effect of tree biodiversity performance to the sustainability of HKm.

Predictor	Symbol	Coefficient (Coeff.)	SE Coeff.	*Z*	*P*-value	Odd Ratio	95% Confident interval	
							Lower	Upper
Constant	-	-0.138836	0.199487	-0.70	0.486	-	-	-
Tree biodiversity Performance	BIODV	-0.660920	0.275737	-2.40	0.017	0.52	0.30	0.89

Note: G = Gald statistic; Z = Coeff./SE Coeff.; Log-Likelihood = -149.637; test that all slopes are zero result G = 5.801; DF = 1; P-value = 0.016.

Table 8 indicates that there is no enough fact to reject H_1 (all at once to accept H_0). It means that the tree biodiversity performance (BIODV) is a reliable variable to perdict the HKm's sustainable program (SUST). But unfortunately, in case the BIODV improve from low to moderate or to high levels, the probability of the to become SUST will reduce by 0.52 as indicates by its Odd Ratio with confident level is more than more than 98.3% as indicated by its $P\text{-}_{value}$=0.017.

Discussion

The role demographyc variables on income

Among the demographic variables, only the total family size number variable (FMLSZ) affects the INCM, if the other variables are constant, a family who has more than one family member will have an increase in income around IDR 0.4210 M per year. The effect of the addition of labor supply (family members) to the region is very significant (P = 0.003). This phenomenon means that the marginal labour productivity in the region is still positive in stimulating the INCM. Because the core business of HKm authority is to release this protected forest from human occupation, it is a must to employ a policy to enhance labor skill by extension or training program instead of mobilizing labor from outside area (Idayanti et al., 2019). Training silviculture cycle from seedling to post harvesting will make labor augmented by knowledge and technology, in turn will increase their work productivity and then lessen the excess demand of traditional labor (Supriadi et al., 2018). This finding is congruence with the effect of the landholding acreage variable (LHLD) that will be elaborated below.

The other variables of demographics, namely. age, sex, role in village administration, role in a HKm group, additonal job, and cultivation applied do not affect significantly on the INCM. As depicted in Table 5, there is no significant effect of SEX, as the income of family (INCM) is relatively the same regardless the sex of the head of family. Similar to SEX is the variable of

Commented [A16]: This would be the common case whether community forestry program. What are the unique results that resulted from the analysis that you could say related to community forest program?

Commented [A17R16]: Because the main mission of HKm authory is to release this protected forest from human occupation, it is a must to employ a policy to enhance labor skill by extension or trainning program instead of mobilising from out area. Trainning silviculture cycle from seedling to post harvesting will make labor augmented by knowledge and technology, in turn will increase their work productivity and then lessen the excees demand of traditional labor.

CLTVN, a family applying an agroforstry pattern indeed has a higher INCM than that using monoculture, but the difference is not significant (P = 0.459).

Another AGE variable shows that the family income (INCM) will decrease with increasing age of the family heads each year, however, the effect is not significant (P = 0.731). This reflects the agricultural work in the region is resilient enough to change in age of the farmers. So are the effects of the variables of VADM, GADM, and ADJOB. The INCM of the family heads involved in the village administration (VADM) are commonly lower than those free from that affair, but the difference is not significant (P = 0.993). It is similar to GDAM, with P = 0.506. Both cases suggest that voluntary work does not significantly disturb families in making a living. An interesting fact there is the effect of job addition (ADJOB) such as construction labour, pedicab drivers, etc. The families having the ADJOB tend to lose their opportunity to intensify their agricultural work and have lower income than those not having additional jobs.

In short, the FMLSZ is the only demographic variables that can enhance the INCM. In development practice, allocating more manpower to this region can be the only opportunity available for forest planners to increase economic performance as a necessary condition for enabling sustainable development besides the biodiversity of any landholding plots of. For the sake to find some opportunities in enhancing the economic performance, we need to examine other variables that give significant effects on the INCM as also depicted in Table 3.

Commented [A18]: I do not see this has been mentioned before. Please check.

Commented [A19R18]: It should be FMLSZ

Commented [A20R18]: OK thanks.

Effect of education level on income

It is normal to expect an educational background on people's productivity in economic sectors, and so is it in the agroforestry sector in the study area. The higher people's education background the higher their innovativeness, that will be accompanied by their higher productivity reflected in their income. This expectation, unfortunately, cannot be achieved in this study. As referring to Table 5, the level of education of the family heads does not significantly affect the ICNM. Family heads with an Elementary School education level (D_1_ELS) have an income of IDR 1.0231M, compared to those who never attended school . The difference , however, is not significant (P = 0.195). The similar effect occurs with family heads categorized as junior high school diploma holders (D_1_ SHSC). Although the family heads of the D_1_YHSC category have an extra of IDR 0.1139 M per year compared to those categorized as D_1_ELM, the difference is not significant (P = 0.891).

In brief the 3 levels of education background of the family heads have no significant impact on the ICNM. It can be concluded that the education background has not yet

399 significantly stimulated innovativeness so that there are no significant effects on the ICNM as
400 well. The phenomenon, however, will be very useful for forest planners eager to look for an
401 INCM elevating strategy, at least that the forest planners will not need to separate the family
402 heads based on the education level in conducting extension activities etc. The extension
403 program itself gives a significant effect on the INCM, as discussed below.
404
405 ***Effect of ethnicity on income***
406 Contrary to the educational level, the ethnicity affects the INCM significantly. The
407 family heads in the study area belong to 4 ethnic groups: Javanese, Sundanese, Semendonese,
408 and Lampungese. In order to make a comparison of the magnitude effect among the four ethnic
409 groups on the INCM, the Javanese becomes the reference. The scoring applied for the Javanese
410 is equal to *0* in the ICNM modeling (Table 1). The results, in Table 5, show that the Lampungese
411 (D_2_LGP) indeed have an average income (ICNM) of IDR 0.7410 M per year more than that
412 of the Javanese do. But the difference is not significant (P = 0.640). On the contrary, the INCM
413 of the Sundanese reaches IDR 1.6366 M per year more than that of the Javanese. The difference
414 is s significant (P = 0.006 or <1 %). It seems that the Semendonese people are the most
415 productive among the four ethnic groups in the study area. The family income of the
416 Semendonese (D_2_SMD) is IDR 1.8658 M per annum more than that of the Javanese. The
417 difference is also significant (P = 0.007 or <1 %).
418 It is interesting to discuss the differences in INCM based on the ethnicity analysis.
419 Setiawan et al. (2014) revealed that the Lampungese and the Semenodenese in the study area
420 could be regarded as the native ethnic groups whereas the Javanese and the Sundanese were the
421 newcomers. The natives commonly cultivate cash crops, including coffee, cocoa, cinnamon,
422 and rubber through the agroforestry system. Meanwhile, according to Nurhaida et al. (2007)
423 both the Javanese and the Sundanese migrated from Java Island (or their offsprings) in between
424 1961 and 1965 under the of National Reconstruction Scheme. The newcomers do not do much
425 cash crop cultivation through the agroforestry system. Instead, they do the perennial crops
426 cultivation especially for rice cultivation culture. Many of them, in fact, have no background in
427 any agricultural livelihood at all. From this background it is easily understood why the Javanese
428 come last in the INCM from rubber agroforestry cultivation. Reversing the argument, we have
429 proven why the Semendonese (D_2_SMD) is the most productive ethnic group in the study area,
430 shown by their INCM.
431 We would be trapped in a wrong argument if we insist on using the origin of the people
432 to explain the Sundanese or the Lampungese productivities. Although the Sundanese people are

the newcomers, they commonly live side by side with the Semendonese. Like the Semendonese, the ancestors of Sundanese in West Java commonly lived in the upper area of a landscape, cultivated rice on terracing land combined with fish ponds and wood plants in their backyard. The agrocomplex system pattern in the Sundanese community in the study area was found during the field research. Except for cultivating rice and managing fish ponds, both the Sundanese and the Semendonese prefer to live in an area biophysically very similar so they commonly live side by side in the study area. Sundanese, however, is more intensive in adopting skills for the cultural technique of rubber agroforestry in daily work. This background can serve as an appropriate explanation why the Sundanese are more productive than the Javanese are in the Study area. A reverse argument perhap could explain better why the productivity of the Lampungese is not different from the Javanese as expressed by their average annual income. The implication in the developmental economic planning in relation to the four ethnic groups in the study area that planners should be taken into consideration whenever they convey the technical assistant in extension activities.

In line with this finding, we should take a valuable lesson learnt provided by Nurhaida et al (2007) that proved the use local languages in accordance with their ethnicity (Javanese, Semendonese, and Lampungese) in pictured story books had been break trough effectively against the literacy barrier in conveying messages and improved significantly the knowledge's of low literate community about soil and water conservation on recharge areas of West Lampung Regency. Nurhaida et al (2011) who also conducted on a research at buffer zone of Way Kambas National Park-Lampung Province reported the use three tribal languages (Javanese, Sundanese, Balinese) in cartoon media of fable were much more effective in conveying messages of wildlife conservation than that of in Indonesian language. Beside the language, the local knowledge about the matter (that had been inventoried before) also to be utilized in the extension media designed by Nurhaida et al (2007 and 2011). In Figure 2 describe that agroforestry pattern demonstrated by Semendonese or Sundanese should be introduce to Javanese or Lampungese by a subtle extension methods in order to be accepted without any cross culture barrier.

Commented [A21]: How? So the community forestry program should be designed for a particular ethnic? Not clear what are the implications from the analysis on ethnic to the recommendation for successful community forestry program.

Commented [A22R21]: Happen to be our research prove that the extension activities affect on increasing INCM signifcantly. So the descrimination planning based on the ethnic background important particullary in extention program, need miticoulus consideration upon all aspects including custome, habit, norm, local language, local wisdom etc. In ordert to support our argument we provide two researchs that is relevant reported by Nurhaida et al (2006 ansd 2015). Tank you verymuch anyhow.

Figure 2. Croping pattern in rubber silviculture: (a) Javanese, monoculture, seem deligent to clean weed as their ancessor who custome with annual crops in Java Island, (b) Semendonese almost an ideal agroforestry pattern, (c) Sundanese seems make adaptation to Semendonese, (d) Lampungese seem too litle cultivation.

462

463 Additionally, the relevant custome including norm, habit, satire, allusion, folklore and
464 other cultural acceptabilities or heritage from their ancestor were used exhaustively in Nurhaida
465 (2007 and 2011). Because the extension envolvement (EXT) is positively significant in
466 enhancing INCM (Tabel 5), it is a rational way in using up the strategic program in order to
467 become the strategy for fostering the HKm's sustainability program (SUST) through improving
468 the BIODV. All of the culture heritage of every tribe such as hospitality, local norm, habit, local
469 wisdom, should be taken as consideration in developing extension programs.

470

471 ***Effect of productive asset***

472 Among the 8 variables of the productive assets (Table 3) only landholdings under the
473 HKm scheme acreage have a significant effect on the family income (INCM). This claim is

Commented [A23]: Belum ada di daftar pustaka

Commented [A24R23]: Ok, tanks

connoted by the *P*-value of 0.000 which means this variable significantly influences the income because it has an error below 5 %. The coefficient of this variable is 3.9783 which means that the family income will increase by IDR 3.9783per ha on landholding plots under the HKm scheme. This implies that in the study area a landholding is still limited to achieve the community's welfare such as in Tanggamus Regency of Lampung Province (Ruchyansyah et al. 2018). This constraint can naturally encourage further encroachment if the authority cannot make an incentive policy to slow this tendency down. Thus, the challenge for forestry planners is to look for another productive asset that is possible to leverage the INCM without presupposing any need to increase land allocation. In relation to this challenge, fish pond management, goat and poultry development are prospectively economic activities that are possible to improve the economic performance due to their better economic gains.

The effect of information and physical accessibility

Among the 4 variables, only the land elevation gives a significant effect on the family income variable (INCM). Farmers whose land elevation lies above 100 m a.s.l. will reduce their income by IDR 0.7420 M per annum. Perhaps the farmers must spend more effort or a bigger budget to cultivate rubber on land with a higher elevation such as found by Zhafira et al. (2019). The rubber sap productivity will also decrease significantly if cultivated on a higher elevation due to the temperature suitability of the rubber crop growth (Andrian et al. 2014).

As for both television ownership (TVOW) and cell phone ownership (HPOW) variables, they do not significantly affect the family income (INCM). Farmer participation in extension programs , on the contrary, plays a significant role in the enhancement of the family income (INCM). This kind of condition is based on the results of Idayanti et al. (2019) and Supriadi et al. (2018). Both research results have also proven that HPOW and TVOW have no effect on the income.

It is only the variable of farmer's participation in extension activities (EXTN) among the 6 variables of the information and physical accessibility having a positively significant effect on the INCM. Farmers who are more active in the EXTN can get an income of IDR 2.3851 mper annum, or more than those who are not. This proves that the extension program is an important source of information for the villagers in the study area such as found by Wulandari and Inoue (2018) in West Lampung. The knowledge contained in the extension can be very valuable in rubber cultivation activities. It is also possible that the social atmospheric interaction among the villagers has been improved by the extension activities so that the social capital can be developed as well.

Commented [A25]: Need to be explained first in the beginning on how one block area under community forestry has been divided into the household members.

Commented [A26R25]: Land allocation was based on individual claim when they were enlisting to become as a HKm member. On behalf of The Minister of Enviromental and Forestry Affairs, the HKm authority conducted on series procedures before issuing the legal right upon their claimed land result from encroachment.

Commented [A27]: Why would the Community Forestry Program be allocated on area with this elevation? Does this mean, the pre-condition survey was not appropriately conducted?

Commented [A28R27]: They are forest ancoachers during the periode of politcal transformation from authoritarian regim to democracy regims accompanied by decentalization to local government. During the process as if vacant of power, so the poor community freely encrhoacher the forest areas. The limitted number apparatuse also contribute too. The HKm program is kind of the moderate way to empower the enchraochers by giving concesionary forest areas for 35 years. It is because the government impossible to expllet the enchoachers radically that almost will end in bloodsheding. In other word tha HKm Scheme is an incremental planning instead of the radical planning that applied when the authority is in weak potision. (See the revised Introduction Section).

Effect of rural facility investment activities

These exogenous varibles are include the rural facility investment project (FIVST), nursurey demonstration plot activity (NURSY), and social safety net SCNET. The presence of FIVST has decreased the INCM, farmers joining the temporary work have an average income of IDR 2.4571 M, less than those who do not. Perhaps they spend too much time in the non farm work so that they miss the opportunity to cultivate rubber trees. A similar situation also occurs in the the NURSY. These jobs are more attractive because the villagers can take cash than taken money from selling rubber latex, coffee bean, cocoa and other agroferestry yields that commonly much depend upon some variable such the buyers with normal price. This condition is also proven by Idayanti et al. (2019) that the improvement of project facilities has a negative influence on the INCM.

As for the SCNET program has no any significant effect on the INCM. Perhaps the program has not made their morale spirite risen up. But based on his research among pine (*Pinus merkusii*) sap tappers community at forest plantation in Central Java-Indonesia, Cahyono (2010) reported that the SCNET in cash assistance had been lessen the farmers' morale on working, reduce their productivity and increase consumption spending. On the contrary was the research conducted on in the community of sap damar (*Shorea javanica*) farmers at West Lampung Regency reported by Setiawan et al (2014) that SCNET in cash had stimulated their spirit in working and had induced their INCM increasement. Both Cahyono (2010) and Setiawan et al (2014) recommend that enhance extension program in order to foster the farmer's spirit to be able to self empower gradually escaping from poverty trap.

The role income on tree biodivrsity performance

As seen in Table 7, the *G* statistic is big enough (*G* = 15.685) with $P\text{-}_{value} = 0.000$. This can be equated with $P\text{-}_{value} = 0.0004$ because the rounding of 3 digits will be the same as $P\text{-}_{value} = 0.000$. So the meaning of *P-value = 0.0004* (or $P\text{-}_{value} = 0.04$ %) is that 99.06 % (100 % subtracted by 0.04 %) variations of the BIODV among the 230 respondents' land parcel can be explained by the sole INCM variable, whereas the remaining 0.004 % can not, but should be explained by other variables that not applied in this model. In brief, the precision of this model is very high because the confident level at more than 99.04%.

As for how much the INCM variable can multiply the BIODV, we need to refer to the Odd Ratio obtained, namely 1.13 with the $P = 0.000$ that can also be equated to $P = 0.0004$ (Table 7). It connotes that every farmer's income increases by an average of IDR 1 M per year,

Commented [A29]: Is this part of the Community Forestry Program?

Commented [A30R29]: No. These are the exogenous varible, beyon tduties of HKm Authority. The village road improve, bridge contruction etc are conducted on out of the forest area and under responsibility of the regency government specifictly intended to improve rural service providing including access to healtcare centre, shooling, acces to market etc. The Social safety net conducted on accidently by the Central Government especially when general subsidiary must be pulled out. Nursery demonstration plot is inteded to provide reforestration program using watershed approach not specifict for HKm program.

accompanied by the increasing of the BIODV by 1.13 times. The increase is around 95 % CI (namely in between 1.01 and 1.26) with the missing probability of is only around 0.06 %. This very small probability tells us that the built model is strong. This fact also justifies that the improvement of the BIODV through farmers' income improvement in this research area is in line with the mission of the HKm Scheme. In other words, the HKm Authority has conducted an amendment program for rehabilitating the degradation of protected forests through farmers' income increasement effort. The program proves effective. The members of the HKm are commonly very responsive to the program of planting some annual and cash crops under rubber trees stumpage. It is logical that farmers depend on forest's biodiversity for their daily needs so they will manage their forest neatly and conserve the biodiversity (Wulandari et al. 2018a).

The role of tree biodiversity performance on HKm's Program Sustainability

The BIODV is strong enough to be the predictor variable of the sustainability of the HKm Program. As seen in Table 8, this claim is proven by the Gald statistic results at 5.801 with $P\text{-}_{value} = 0.016$. It means that the sole predictor variable of BIODV is reliable as the indicator of the sustainability of HKm due to its small missing probability of only 0.016 (=1.6 % or less than 5 %). This number tells us that there will be 16 units missing if we use the BIODV variable to predict 1,000 sustainability of the HKm Program. Therefore we can rely on this model to predict the sustainability of HKm.

We, furthermore, are interested in knowing how big the change of sustainability of the HKm is in case the BIODV rises from low to medium or high. Unfortunately, the sustainability of HKm will drop to only 0.52 as the BIODV rises from low to medium or high. This clue is indicated by the Odd Ratio described in Table 5, namely 0.52 (CI = 0.30 to 0.89) with $P = 0.017$, indicating the model is strong enough.

The reduction in the HKm program sustainability as a result of the increase in the BIODV gives a signal of a critical phase. It implies that farmers, whose BIODV has been rising up, need more nurturing from the HKm authority to support a critical breakthrough of a biodiversity development phase especially for newly wooden planted crops other than rubber. During that phase the farmers must pay much more attention in order to promote the growth of the newly planted wooden tree other than rubber. Those plants must survive from weed disruption, pests and borne diseases, poor soil fertility, and even from rubber plant shading. The farmers need to allocate their resources more than when planting rubber in a monocultural way, such as controlling weeds and pests, applying soil fertilizer, pruning rubber canopies and using them for green manure. This certainly will reduce the farmers' opportunity to earn income from the

Commented [A31]: This means that training on silviculture techniques should be part of the implementation activities.

rubber sap production. This claim is also in line with the FMLSZ roles to the INCM as expressed in Table 6. The HKm authority, therefore, are strongly recommended to conduct activities, including technical assistance through intensifying extension activities beside financial aids in the form of chemical material and cropping facilities for farmers whose BIODV has been rising up; otherwise, the BIODV will possibly decrease.

Conclusion

The hypotheses have to be accepted at confident level more than 95% namely: (*i*) the endogenous variables with positively affect on the income from agroforestry yield (INCM) were the family number size, participation in extension activities, land holding acreage, the tribes whose Sundanese and Semendonese were higher than Javanese, and with negatively effect was the land elevation; whereas the exogenous variable affected negatively namely the rural facility contruction and nursery demonstration plot activities; (*ii*) the INCM effect on tree biodiversity (BIODV) enhancement *i.e* the BIODV performance will rise up by 1.13 for every if the ENCM rise up by IDR 1M per annum; and (*iii*) the effect of BIODV on the HKm's program sustainability (SUST) that will reduce by 0.53. It is clue that the nurturing phase on HKm member at critical stage. It recommend that continue in fostering the HKm members by managing the endogenous variables in order to rise up INCM, and then multiply BIODV as well as to broaden HKm members' awareness on voluntary planting some wooden trees as the prerequisite of pursuing the SUST.

Commented [A32]: Clear conclusion related to the hypothesis should be described here.

Recommendations

The three consecutive models have been achieved from this research certainly are very meaningful tool for developing the next programs, particularly the strategies in fostering every HKm member in order to be able to contribute in pursuing the HKm's program sustainability (SUST). The Model III is the final point and flash back to the use Model II and Model I. At the ultimate objective that the enhancement of tree biodiversity performance (BIODV) has to be able to stimulate the awareness of HKm's member to add wood tree at every vacant space of their lands. The extension activities, including in silviculture techniques, are certainly a strategic way to broaden their knowledge if planting some wooden tree species will get some benefits of improvement in: shading coffee or cocoa crops, litter basalt and mulch of organic matter, soil fertility, and the opportunity to make earning from miscellaneous vegetable yields. Planting wooden tree, therefore, can generated these economic incentive for the farmers. On the other side, planting many species of wooden tree for the HKm authority is the main indicator of succussing duties in forest recovery program from the encroachment phenomenon.

As proved by the Model II, this scenario in fostering SUST through corner stones of improving tree biodiversity (BIODV) will be possible as the prerequisite if and only if the

Commented [A33]: Should be added: comprehensive and clear recommendations to improve the design and the strategy for community forestry program.
There are a lot interesting and useful findings and need to be formulated in a more meaningful way in fostering the sustainability of community forestry program.

farmer's income (INCM) can be risen up. The flash back, therefore, we have to exploit the Model I as the basis for enhancing INCM strategy. It is clear that we have to use the endogenous variables which has characteristic of enabling to and being possible to induce INCM. From the six of endogenous variables (Table 4), only does the extension variable (EXTN) that meet the two characteristics, whereas the three variables remain are not, namely the family number size, land holding acreage, and land elevation.

Family size number is the endogenous variable that does not have meaning for fostering the SUST. This variable is not possible to be added or reduced for the sake of enhancing INCM. And so does the elevation of land parcel position, there is no real act can be conducted on changing the land elevation position across the landscape in whole HKm location. Additionally, although the land holding variable is possible to be expanded in order to enhance the INCM but this policy will contrary to the other mission of HKm Authority to free the protected forest from the occupation problem. So that the only strategic way in fostering the SUST through INCM enhancement (that later on inducing BIODV) is the promoting extension.

In order to achieve SUST, therefore, the extension promotion is a very important strategy in fostering of every HKm member. Therefore, even though the extension materials are focused on silviculture techniques, as exemplified by Nurhaida et al (2007 and 2011), the implementation of the activities of each extension program must also consider the ethnicity variables, which in this HKm the Ethnicity of Sundanese and Semendonese need to be distinguished from Javanese or Lampungese.

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