

## COVER LETTER

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[13 November 2023]

Dear,

I/We wish to submit an original research article entitled “[**Development Of Insulation Oil Based On Palm Oil Mill Effluent With Nano Silica**]” for consideration by SINERGI.

We confirm that this work is original and has not been published elsewhere, nor is it currently under consideration for publication elsewhere. We promise not to withdraw this article after it has been processed by the Editorial Team. If there is a withdrawal, we are willing to pay a penalty of USD 150 (IDR 2000K) to the SINERGI Editorial Team.

In this paper, I/we report on / show that:

Field	:	Electrical Engineering
Topic	:	Oil Insulation
Brief Background	:	Insulation oil can even extinguish arcs if a spark occurs in the transformer windings. The oil most widely used as liquid insulation is mineral oil.
Research Problem	:	The Ministry of Energy and Mineral Resources of the Republic of Indonesia stated that the petroleum reserves in Indonesia from 2009 to 2016 have consistently decreased. The effort to reduce the use of mineral oil is to find alternatives to liquid insulation using vegetable oils.
Overview of Method	:	The raw material of oil insulation was developed from Palm Oil Mill Effluent with the addition of nano-silica. Laboratory tests were conducted to observe the characteristics of the developed oil insulation.
Significant finding	:	From conducted investigation, POME nano silica insulation oil has complied with IEC 6029 for oil density, viscosity, and breakdown strength. As an alternative raw material for liquid insulation, POME-based insulation oil can reduce environmental pollution.

We have no conflicts of interest to disclose.

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Thank you for your consideration of this manuscript.

Sincerely,  
[*Muhammad Abu Bakar Sidik*]



## AUTHORSHIP STATEMENT

I/We wish to submit an original research article entitled “[*Development Of Insulation Oil Based On Palm Oil Mill Effluent With Nano Silica*]” for consideration by SINERGI.

All persons who meet authorship criteria are listed as authors, and all authors certify that they have participated sufficiently in work to take public responsibility for the content, including participation in the concept, design, analysis, writing, or revision of the manuscript.

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Please submit 3 (three) potential reviewers (*that have not listed in SINERGI*) to speed up the review process that competent for the topic and has a good reputation in that area.

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