



The Peer-reviewed International Journal

International Journal of Engineering Inventions

CERTIFICATE

It is certify that the paper entitled by "Effectiveness of Palm Oil Waste Cooling Media to Increase Surface Hardness of AISISAE 1020 Steel Under Pack Carburizing Quenching" is accepted for further publication in **International Journal of Engineering Inventions (IJEI)**.

Paper has published with following details:

Authors Name : **Sujita Sujita**
Journal Name : International Journal of Engineering Inventions (IJEI)
Journal URL : www.ijeijournal.com
Review Type : Peer Reviewed Journal
Publication Type : Online & Print both
ISSN No. : 2278-7461 (Online) ; 2319-6491 (Print)
Vol No. : 14
Issue No. : 05 (May 2025)



Editor-In-Chief
International Journal of Engineering Inventions (IJEI)
www.ijeijournal.com
Mail id: ije@editormails.com



The Peer-reviewed International Journal

International Journal of Engineering Inventions

CERTIFICATE

It is certify that the paper entitled by "Effectiveness of Palm Oil Waste Cooling Media to Increase Surface Hardness of AISISAE 1020 Steel Under Pack Carburizing Quenching" is accepted for further publication in **International Journal of Engineering Inventions (IJEI)**.

Paper has published with following details:

Authors Name : **Rudy Sutanto**
Journal Name : International Journal of Engineering Inventions (IJEI)
Journal URL : www.ijeijournal.com
Review Type : Peer Reviewed Journal
Publication Type : Online & Print both
ISSN No. : 2278-7461 (Online) ; 2319-6491 (Print)
Vol No. : 14
Issue No. : 05 (May 2025)



Editor-In-Chief
International Journal of Engineering Inventions (IJEI)
www.ijeijournal.com
Mail id: ije@editormails.com