



# International Journal of Engineering Research and Applications (IJERA)

## CERTIFICATE

It is certify that the paper entitled by *“Modeling the Swell-Shrinkage Potential of a Stabilized Black Cotton Soil for Subgrade Pavement”* has been published in International Journal of Engineering Research and Applications (IJERA).

### ***Your article has been published with following details:***

Author's Name: Akpan Paul P.  
Journal Name: International Journal of Engineering Research and Applications (IJERA)  
Journal Web: [www.ijera.com](http://www.ijera.com)  
Journal Type: Online & Print (Both)  
Review Type: Peer Review Refereed  
ISSN: 2248-9622  
Vol No.: 12  
Issue No.: 06  
Publication Month: June  
Publication Year: 2022



***Editor-In-Chief***  
***International Journal of Engineering Research and Applications (IJERA)***  
***E-mail ID: [ijera.editor@gmail.com](mailto:ijera.editor@gmail.com)***  
***Web: [www.ijera.com](http://www.ijera.com)***



# International Journal of Engineering Research and Applications (IJERA)

## CERTIFICATE

It is certify that the paper entitled by *“Modeling the Swell-Shrinkage Potential of a Stabilized Black Cotton Soil for Subgrade Pavement”* has been published in International Journal of Engineering Research and Applications (IJERA).

***Your article has been published with following details:***

Author's Name: Anea-Bari Doland B.  
Journal Name: International Journal of Engineering Research and Applications (IJERA)  
Journal Web: [www.ijera.com](http://www.ijera.com)  
Journal Type: Online & Print (Both)  
Review Type: Peer Review Refereed  
ISSN: 2248-9622  
Vol No.: 12  
Issue No.: 06  
Publication Month: June  
Publication Year: 2022



***Editor-In-Chief***  
***International Journal of Engineering Research and Applications (IJERA)***  
***E-mail ID: [ijera.editor@gmail.com](mailto:ijera.editor@gmail.com)***  
***Web: [www.ijera.com](http://www.ijera.com)***



# International Journal of Engineering Research and Applications (IJERA)

## CERTIFICATE

It is certify that the paper entitled by *“Modeling the Swell-Shrinkage Potential of a Stabilized Black Cotton Soil for Subgrade Pavement”* has been published in International Journal of Engineering Research and Applications (IJERA).

### ***Your article has been published with following details:***

Author's Name: Akien-Alli I. j.  
Journal Name: International Journal of Engineering Research and Applications (IJERA)  
Journal Web: [www.ijera.com](http://www.ijera.com)  
Journal Type: Online & Print (Both)  
Review Type: Peer Review Refereed  
ISSN: 2248-9622  
Vol No.: 12  
Issue No.: 06  
Publication Month: June  
Publication Year: 2022



***Editor-In-Chief***  
***International Journal of Engineering Research and Applications (IJERA)***  
***E-mail ID: [ijera.editor@gmail.com](mailto:ijera.editor@gmail.com)***  
***Web: [www.ijera.com](http://www.ijera.com)***



# International Journal of Engineering Research and Applications (IJERA)

## CERTIFICATE

It is certify that the paper entitled by *“Modeling the Swell-Shrinkage Potential of a Stabilized Black Cotton Soil for Subgrade Pavement”* has been published in International Journal of Engineering Research and Applications (IJERA).

### ***Your article has been published with following details:***

Author's Name:       Abednego George G.T.  
Journal Name:        International Journal of Engineering Research and Applications (IJERA)  
Journal Web:         www.ijera.com  
Journal Type:         Online & Print (Both)  
Review Type:         Peer Review Refereed  
ISSN:                 2248-9622  
Vol No.:              12  
Issue No.:            06  
Publication Month:    June  
Publication Year:     2022



***Editor-In-Chief***  
***International Journal of Engineering Research and Applications (IJERA)***  
***E-mail ID: ijera.editor@gmail.com***  
***Web: www.ijera.com***



# International Journal of Engineering Research and Applications (IJERA)

## CERTIFICATE

It is certify that the paper entitled by *“Modeling the Swell-Shrinkage Potential of a Stabilized Black Cotton Soil for Subgrade Pavement”* has been published in International Journal of Engineering Research and Applications (IJERA).

***Your article has been published with following details:***

Author's Name: Sornate Easy L.

Journal Name: International Journal of Engineering Research and Applications (IJERA)

Journal Web: [www.ijera.com](http://www.ijera.com)

Journal Type: Online & Print (Both)

Review Type: Peer Review Refereed

ISSN: 2248-9622

Vol No.: 12

Issue No.: 06

Publication Month: June

Publication Year: 2022



***Editor-In-Chief***

***International Journal of Engineering Research and Applications (IJERA)***

***E-mail ID: [ijera.editor@gmail.com](mailto:ijera.editor@gmail.com)***

***Web: [www.ijera.com](http://www.ijera.com)***



# International Journal of Engineering Research and Applications (IJERA)

## CERTIFICATE

It is certify that the paper entitled by *“Modeling the Swell-Shrinkage Potential of a Stabilized Black Cotton Soil for Subgrade Pavement”* has been published in International Journal of Engineering Research and Applications (IJERA).

***Your article has been published with following details:***

*Author's Name:* Nwinuka, Barinor

*Journal Name:* International Journal of Engineering Research and Applications (IJERA)

*Journal Web:* [www.ijera.com](http://www.ijera.com)

*Journal Type:* Online & Print (Both)

*Review Type:* Peer Review Refereed

*ISSN:* 2248-9622

*Vol No.:* 12

*Issue No.:* 06

*Publication Month:* June

*Publication Year:* 2022



***Editor-In-Chief***

***International Journal of Engineering Research and Applications (IJERA)***

***E-mail ID: [ijera.editor@gmail.com](mailto:ijera.editor@gmail.com)***

***Web: [www.ijera.com](http://www.ijera.com)***