



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

*It is here by certified that the paper ID : IJRASET26063, entitled
Energy Efficient Protocol for Wireless Sensor Networks using Bee Meta-Heuristic
Algorithm*

*by
K. Kanimozhi*

*after review is found suitable and has been published in
Volume 7, Issue XII, December 2019
in
International Journal for Research in Applied Science &
Engineering Technology
(International Peer Reviewed and Refereed Journal)
Good luck for your future endeavors*

By [Signature]

Editor in Chief, iJRASET

J^oSRA
I
F

ISRA Journal Impact
Factor: 7.429

45.98
INDEX COPERNICUS

THOMSON REUTERS
Researcher ID: N-9681-2016

doi 10.22214/IJRASET
cross ref

Scopus
TOGETHER WE REACH THE GOAL
SJIF 7.429



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

*It is here by certified that the paper ID : IJRASET26063, entitled
Energy Efficient Protocol for Wireless Sensor Networks using Bee Meta-Heuristic
Algorithm
by
M. Thirunavukkarsu*

*after review is found suitable and has been published in
Volume 7, Issue XII, December 2019
in
International Journal for Research in Applied Science &
Engineering Technology
(International Peer Reviewed and Refereed Journal)
Good luck for your future endeavors*

By [Signature]

Editor in Chief, iJRASET

J^oSRA
I
F

ISRA Journal Impact
Factor: 7.429



45.98
INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016



10.22214/IJRASET
doi
cross
ref



Scopus
TOGETHER WE REACH THE GOAL
SJIF 7.429