

2019-2020

①



ICLTSET'20

(DINDIGUL)

**6th International E - Conference
on Latest Trends in Science,
Engineering and Technology**

Indexed in

Google



KARPAGAM
INSTITUTE OF TECHNOLOGY

Inspiring Innovation

(Approved by AICTE & Affiliated to Anna University, Chennai)

L&T Bypass Road, Bodipalayam Post, Coimbatore-641 105.

Certificate

This is to certify that Mr./Ms./Dr. **Dr. K. Vinoth Kumar, ASP/ECE**
of **SSM Institute of Engineering and Technology, Dindigul** has presented a
paper titled " **HANDS WITH H2O USING LORA FOR SMART VILLAGE** "

in the 6th International E - Conference on Latest Trends in Science, Engineering and
Technology (ICLTSET'20) on April 13, 2020.

Dr. S. GOPINATH
Convener

Dr. D. BHANU
Vice Principal

Dr. P. MANIMARAN
Principal



Dr. D. SENTHIL KUMAR, M.E., Ph.D., (NUS)
Principal

SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

2



ICTSET'20

6th International E - Conference
on Latest Trends in Science,
Engineering and Technology

Indexed in

Google



KARPAGAM
INSTITUTE OF TECHNOLOGY

Inspiring Innovation

(Approved by AICTE & Affiliated to Anna University, Chennai)

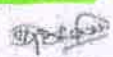
1&T Bypass Road, Bodipalayam Post, Coimbatore-641 105.

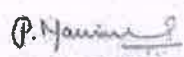
Certificate

This is to certify that Mr./Ms./Dr. **Dr. K. Vinoth Kumar, ASP/ECE**
of **SSM Institute of Engineering and Technology, Dindigul** has presented a
paper titled " **SMART GARBAGE MANAGEMENT USING LORA** "


in the 6th International E - Conference on Latest Trends in Science, Engineering and
Technology (ICTSET'20) on April 13, 2020.


Dr. S. GOPINATH
Convener


Dr. D. BHANU
Vice Principal


Dr. P. MANIMARAN
Principal




Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

3



ICLTSET'20

6th International E - Conference
on Latest Trends in Science,
Engineering and Technology

Indexed in
Google



KARPAGAM
INSTITUTE OF TECHNOLOGY

Inspiring Innovation

(Approved by AICTE & Affiliated to Anna University, Chennai)

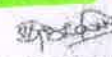
L&T Bypass Road, Bodipalayam Post, Coimbatore-641 105.

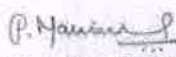
Certificate

This is to certify that Mr./Ms./Dr. **G.Saranya, AP/ECE**
of **SSM Institute of Engineering and Technology, Dindigul** has presented a
paper titled "IOT BASED COAL MINING SAFETY MONITORING SYSTEM USING NODE MCU"

in the 6th International E - Conference on Latest Trends in Science, Engineering and
Technology (ICLTSET'20) on April 13, 2020.


Dr. S. GOPINATH
Convener


Dr. D. BHANU
Vice Principal


Dr. P. MANIMARAN
Principal




Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (KUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

Design and Fabrication of Ocean Water Pumping and Storage System

124




M. Muthukannan, S. Anantha Krishnan, and Ajay Pratap Kushwaha

Abstract Existence of fossil fuels in the near future is not promising because of their depletion at a faster rate and their limited availability. Further, owing to the growing concern for the environmental degradation has led to the world's interest in renewable energy resources. In such a scenario, wave power, which is a potential source of energy, can cater to the power needs of future generation and is clean. Our objective is to develop a model which can be used for efficient conversion of wave energy into electrical power. In the present study, the concept of buoyancy has been utilized to pump the ocean water and storing it at a higher elevation. From this elevation, the potential energy of water can be converted into kinetic energy for power generation. From the study undertaken, it is observed that the possibility of electricity generation by using this method and on conducting the experiment, it is observed that for a wave power of 150 W, only 10% of the wave power has been converted and stored in the form of potential energy of water and the remaining unutilized wave power shows that there still exists scope for research work for improving the efficiency of extraction.

Keywords Buoyancy · Efficiency · Potential energy · Wave energy




Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

M. Muthukannan (✉) · S. Anantha Krishnan · A. P. Kushwaha
SSM Institute of Engineering and Technology, Dindigul, Tamil Nadu 624002, India
e-mail: mmk.mech59@gmail.com

S. Anantha Krishnan
e-mail: sakrish007@gmail.com

A. P. Kushwaha
e-mail: kushwahapratap0719@gmail.com