

WATER PURIFICATION USING SOLAR ENERGY

S.V.PAVITHRAADEVI

T.JAISHREEDEVAKI

K.VINISHA

Email ID:

pavithraadevi.ec21@bitsathy.ac.in

jaishreedevaki.ec21@bitsathy.ac.in

vinisha.ec21@bitsathy.ac.in

BANNARI AMMAN INSTITUTE OF TECHNOLOGY

Abstract:

Every year million of people,most of them children ,die from disease associated with inadequate water supply,sanitation,and hygiene.More than two and a half billion people have gained access to improved drinking source since1990,but 666 million people are still without.Each day,nearly 1000 children die due to preventable water and sanitation related diarrhoeal disease.

Process in purifying water using solar energy :

- As solar power is a renewable resources which is used to purify water, these problems can be avoided.
- It is the advancement of the current water purification system.
- In this paper we presented the methodology of the solar water purifier.
- Energy source in this purifier is solar power and energy is stored in the battery.
- Fundamental parts of a sunlight based water purifier are sun powered charger, battery, warming loop, separating chalk, twofold layer condenser and a few water vessels.
- This purifier uses a filtering mechanism which removes dirt from water and a boiling mechanism which kills organisms.
- Through this process, pure drinking water is achieved.

As solar energy is being used for water purification , which is cheap and abundant ,it can be used everywhere where electricity is not available. By using this process the water based diseases can be prevented .In Bangladesh , this technique is used to purify the water .

Keywords : Solar energy , Filtration , Water , purify .

