

STUDY ON WATER PROCESSING USING HIGH ELECTRIC FIELD PULSE

AMITAGARWAL¹, CHETANDEO SINGH², GAURAVGARG³ & R SUDHA⁴

^{1,2,3} Student of Electrical and Electronics Engineering (SELECT, VIT University Vellore), Tamil Nadu, India

⁴ Assistant Professor, VIT University Vellore, Tamil Nadu, India

ABSTRACT

In this review paper the effect of high intensity pulsed electric field on water containing bacteria's like Escherichia coli, Staphylococcus aureus, Bacillus subtilis and Pseudomonas fluorescence Lactose broth was explained and how the nature of electric field affects the count of bacteria, this will determine the level of water purification. The results show that a different type of micro-organism affects the purification level of the water and how to make this method more effective.

KEYWORDS: Electric Field Fluid Treatment Chamber, Water Processing by High Intensity Pulsed Electric Fields