## **DVVP College of Engg**

Vilad Ghat Ahmednagar

State Name: Maharashtra, Code: 27

### CASH PAYMENT Voucher

No. : 684

Dated : 4-Dec-2019

Particulars	
Account:	Amount
Seminar Exp - Civil	3,000.00

Through:

Cash

On Account of:

paid to Dr. M.P wagh an account of seminar expenses vide enclosed bills.

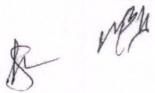
Amount (in words):

Indian Rupees Three Thousand Only

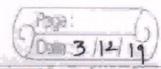
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PRINCIPAL
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### Assessment of Coagulation process for the distillery spent wash using Alum polyelectrolyte and Fenton

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#### Abstract

All over the world, around 61 % distillery industries utilize sugarcane molasses to produce the ethanol and rectified spirit. Gradually demand of ethanol, alcohol and rectified spirit increases on a large scale. Ethanol rectified spirit and alcohol production in distillery industries in India are 8 to 15 % by quantity, it illustrates that 85 to 92 % distillery spent wash (Wastewater) generated by volume. As a result distillery industries comprise an enormous unpleasant impact on the surroundings. Numbers of clean up techniques have been worked out to competently treat the distillery spent wash (DSW). Coagulation processes were carried out using Alum polyelectrolyte and advanced oxidation process such as Fenton were implemented to treat the DSW. Polyelectrolyte Magnafloc 1011, Magnafloc1997, Zetag 63 and Zetag 7650 were implemented. Treatment with alum cum polyelectrolyte (Magnafloc 1011, Img/L) gave 29% COD removal at pH 8. Fenton reduces maximum COD 79%. Maximum decolourization achieved 98% by application of hydrogen peroxide dose in ratio 4:1 at 45 °C. At higher peroxide dose the effect of temperature on COD removal efficiency is very small.

Index Terms: distillery spent wash, electro coagulation, biomethanation

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