of the 4th International Research Symposium on Pure and Applied Sciences, University of Kelaniya, Sri Lanka

Ibstract No: MO-20

pevelopment of organic inorganic hybrid water purification system D. G. N. V. Dikella and M. Maddumaarachchi*

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focculation by PAM and adsorption on to nano-sized pores of diatomite at optimum composition can be due to the combined mechanism of two components; transmittance, than that of untreated dye water sample. The dye removal by PAD composite make the transmittance of treated Rhodamine B dye water sample (50 cm³, 0.6 ppm) exceed 9%, was ranged from 0.2 g to 0.3 g, which was more than 25% increment of the Rhodamine B than that by PAM alone. The optimum dosage of PAD composite that could %20 wt. %. The novel composite flocculant exhibited a significant capability of removing was achieved for the PAD-4-4 which had the ratio of PAM and diatomite content of 80 wt. capacity. Among the studied compositions of PAD composites, the maximum dye removal was studied in synthetic Rhodamine B dye water samples to evaluate the dye removal scanning electron microscopy. Furthermore, the influence of PAM and diatomite content on composites were characterized by infrared spectroscopy, thermogravimetric analysis and the composite formation was investigated. The flocculation performance of PAD composite were successfully prepared through aqueous solution polymerization. The synthesized PAD efficient reatment separately. Series of polyacrylamide-diatomite composites (PAD) for waste water treatment separately. Series of polyacrylamide-diatomite composites (PAD) efficient water purification system. Both PAM and diatomite have been studied extensively porganic hybrid material was synthesized using polyacrylamide (PAM) and diatomite for nurification system. Both PAM and diatomite have have have where over the water by means of low of and efficient technologies is still a major challenge. In this study, a novel organicsputicity up to the control of textile waste water by means of low water in this control of textile waste water by means of low water in this control of textile waste water by means of low water in this control of textile waste water by means of low water in this control of textile waste water by means of low water in this control of textile waste water by means of low water in the control of textile waste water by means of low water in this control of textile waste water by means of low water in the control of textile waste water by means of low water in the control of textile waste water by means of low water in the control of textile waste water by means of low water in the control of textile waste water by means of low water in the control of textile waste water by means of low water in the control of textile waste water by means of low water in the control of textile waste water by means of low water in the control of textile waste water by means of low water in the control of textile waste water by means of low water in the control of the control of textile waste water by means of low water in the control of the control of the control of textile waste water by means of low water in the control of industries and A variety of methods have been developed for the treatment of textile waste super recent years. However, colour removal from textile waste waste waste guaries and a major polluter of drinking water. It generates huge quantities of complex adves. A variety of methods have been developed for the treatment. Water is one of all living beings. Textile industry is one of the most chemically intensive and a major polluter of drinking water. It generates huge committee intensive water is one of the essential resources on earth. It is very important to protect water for the

keywords: Diatomaceous earth, Polyacrylamide, Composite flocculant, Textile dye