عنوان مقاله:

(Odor removal from a Fish meal plant by oxidative scrubber (a pilot study

محل انتشار:

کنفرانس بین المللی توسعه پایدار، راهکارها و چالش ها با محوریت کشاورزی، منابع طبیعی، محیط زیست و گردشگری (سال: 1393)

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خلاصه مقاله:

In this research, unpleasant odor component from a case study of fish meal has been removed by utilizing a wet scrubber and two oxidative scrubbers. A GC/MS method was used to monitor the TMA (source of unpleasant odor in fish meal industry), H2S and DMS on external air of production process. The utilizing of Hypochlorite as oxidative and a 2.7 meter packed section lead to increase the performance of odor removing as best as possible. The result showed that the treatment system which include 3 stage (water spray, first scrubber and second scrubber) have the individual removing efficiency of TMA as 60%, 26%, 12%, respectively. The samplings of external liquid of stages showed a decreasing trend of COD (200, 168, and 96 mg/l) and BOD (89.6, 66.4, and 35 mg/l); which confirm the performance of deodorization. However, in this study, the total removing efficiency of TMA and trace sulfur compound were 97% .and 100% respectively

کلمات کلیدی:

fishmeal, oxidative scrubber, TMA(tri-methyl-amine), deodorization, removal efficiency

لینک ثابت مقاله در پایگاه سیویلیکا: