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Outlet: Journal of Applied Science Environmental Management, Vol. 15 (1) 127 – 133

Date: 2011

Abstract: Accidents occur as a result of unsafe conditions and the resultant injury to human and damage to human has been tremendous in the manufacturing organisations. This study used the principles of statistical expectation and efficiency index to analyse the performance of safety programme in a brewery based in Ibadan, Oyo State.

For this study the following were identified: type of input resource, total number of input resources, the total number of prevented accidents by class, the unit cost of each of the accident class, the cost of input resources quantity of each type of input resources and the targeted period.

The number of prevented accidents and the corresponding values of lives and property saved were estimated annually for a period of eight years (2000-2007). The way available resources were used to achieve safety was also explored.

The study revealed that in comparison to the Pre-safety period, the safety programme saved lives and property worth ₦20.2 million, at an average of ₦2.5 million annually. The computation of efficiency indices due to use of all the input resources when compared with the Standard Period showed that all the resources were well utilised.