

SRI LANKA STANDARD 776 : 1987

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**TOLERANCE LIMITS FOR
INDUSTRIAL EFFLUENTS DISCHARGED ON LAND
FOR IRRIGATION PURPOSES**

SRI LANKA STANDARDS INSTITUTION

TOLERANCE LIMITS FOR INDUSTRIAL EFFLUENTS
DISCHARGED ON LAND FOR IRRIGATION PURPOSES

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FOREWORD

This Sri Lanka Standard has been authorized for adoption and publication by the Council of the Sri Lanka Standards Institution on 1987-01-07 after the draft, finalized by the Drafting Committee on Industrial Effluents, had been approved by the Chemicals Divisional Committee.

One of the modes of disposal of industrial effluents is by discharging them on agricultural lands. This mode of disposal not only avoids degradation of quality of water resources but also makes available a source of irrigation water.

Irrigation practices should be designed for maximum economical use of water; these should also depend upon water-holding capacity of soil, land topography, general climate, the particular crop etc. Such objectives are, however, seldom followed, resulting in following difficulties:

- a) Concentration of various constituents which may be deleterious to crop yields;
- b) Decrease of soil permeability; and
- c) Increased chances of ground water contamination.

It is therefore imperative that soils on which the effluents are discharged are studied periodically from the viewpoint of physico-chemical characteristics to ensure that they are not damaged and the ground waters not polluted. Hydraulic loading rates generally applicable for different types of soils are given in Appendix A, for information and guidance.

In order to regulate disposal of effluents on land, it is necessary to limit certain constituents in effluents, especially those considered toxic, so that the effluents may comply with normally accepted irrigation water quality.