

(PREVIEW)

## *Indian Standard*

# MECHANICAL SURFACE AERATORS — GUIDELINES FOR EVALUATION AND TESTING

### 1 SCOPE

**1.1** This standard gives guidelines regarding evaluation and testing of single surface aerators. It covers basic equations of mass transfer, characteristics of aeration equipments, oxygenation capacity determination, effects of variables on oxygenation, brief idea about reaeration of deoxygenation, estimation of dissolved oxygen and mass transfer coefficient  $K_L$  and overall test procedure for finding  $K_L a$  oxygenation capacity and oxygenation efficiency.

**1.2** This standard does not cover multiple surface aerators.

### 2 REFERENCES

**2.1** Indian Standard IS 3025 ( Part 38 ) : 1990 'Methods of sampling and test (physical and chemical ) for water and waste water : Part 38 Dissolved oxygen', is a necessary adjunct to this standard.