

Sr. No.	CONTENTS	Page No.
1.	INTRODUCTION	1
2.	MATERIALS AND METHODS	19
	2.1 Animal Model	19
	2.2 Selection of Animals	19
	2.3 Distribution, Habit and Habitat	19
	2.4 Classification of Animal	20
	2.5 Collection of Animals	20
	2.6 Maintenance of Animals	20
	2.7 Food and Feeding	21
	2.8 Uses of Animal	21
	2.9 tannery wastewater	21
	2.9.1 Collection of Tannery wastewater	21
	2.9.2 Characterization of tannery wastewater	22
	2.9.3 Tannery wastewater toxicity test	23
	2.9.4 Concentration of tannery wastewater	23
	2.10 Stock Animals And Acclimatization	23
	2.11 Number And Size of The Test Animals	24
	2.12 Test Container	24
	2.13 Measurement of Toxicity and Calculations	24
	2.14 Exposure to Tannery wastewater	25
	2.15 Biochemical Studies	25
	2.15.1 Protein	25
	2.15.2 Glycogen	25
	2.15.3 Lactic Acid	26
	2.15.4 Cholesterol	26
	2.16 Enzyme Studies	27
	2.16.1 Acid Phosphatase	27
	2.16.2 Alkaline Phosphatase	27
	2.16.3 Glutamate Oxaloacetic Transaminase	28
	2.16.4 Glutamate Pyruvate Transaminase	28
	2.16.5 Adenosine Triphosphatase	29
	2.16.6 Lactate Dehydrogenase	29

2.17	Light Microscopy	30
2.18	Atomic Absorption Spectrophotometry	30
2.19	Statistical Analysis	30
3.	OBSEVATIONS	31
3.1	Tannery industry	31
3.2	Characteristics of tannery wastewater	31
3.2.1	pH	31
3.2.2	Turbidity	31
3.2.3	Total Solids	32
3.2.4	Total Suspended Solids	32
3.2.5	Total Dissolved Solids	32
3.2.6	Chlorides	32
3.2.7	Chemical Oxygen Demand	32
3.2.8	Oil and Grease	32
3.2.9	Chromium	32
3.3	Bivalve behavior	32
3.4	Acute Toxicity	33
3.5	Percentage mortality of the bivalve, <i>Lamellidens marginalis</i> exposed to different concentrations of tannery wastewater at different time intervals.	33
3.6	Subacute Toxicity	34
3.7	Atomic Absorption Spectrophotometry	34
3.8	Biochemical Observations.	34
3.8.1	Protein	34
3.8.2	Glycogen	36
3.8.3	Lactic acid	37
3.8.4	Cholesterol	38
3.9	Enzyme observations	38
3.9.1	Acid phosphatase	38
3.9.2	Alkaline phosphatase	39
3.9.3	Glutamate Oxaloacetic Transaminase	40
3.9.4	Glutamate Pyruvic Transaminase	41
3.9.5	Adenosine Triphosphatase	42

