LIST OF TABLES

1.1 Annual rate of siltation in selected reservoirs in India
2.1 Properties of sediments
2.2 Experimental Combinations of Parameters used
2.3 Calibration curve equations
3.1 Sediment-water mixture discharges of sand sediments
3.2 Sediment-water mixture discharges of silt sediments
3.3 Sediment-water mixture discharges of black cotton sediments
3.4 Sediment-water mixture discharges of sandy loam sediments
3.5 Sediment-water mixture discharges of red soil sediments
3.6 Sediment-water mixture discharges of quarry dust sediments
3.7 Trend line equations between sediment-water mixture discharge and diameter for various sediments when head = 0.40 m
3.8 Trend line equations between sediment-water mixture discharge and diameter for various sediments when head = 0.60 m
3.9 Trend line equations between sediment-water mixture discharge and diameter for various sediments when head = 0.80 m
3.10 Trend line equations between sediment-water mixture discharge and diameter for various sediments when head = 1.00 m
3.11 Trend line equations between sediment-water mixture discharge and diameter of suction pipe under various heads for sand sediments
3.12 Trend line equations between sediment-water mixture discharge and diameter of suction pipe under various heads for silt sediments
3.13 Trend line equations between sediment-water mixture discharge and diameter of suction pipe under various heads for black cotton sediments
3.14 Trend line equations between sediment – water mixture discharge and diameter of suction pipe under various heads for sandy loam sediments

3.15 Trend line equations between sediment – water mixture discharge and diameter of suction pipe under various heads for red soil sediments

3.16 Trend line equations between sediment – water mixture discharge and diameter of suction pipe under various heads for quarry dust sediments

3.17 Sediment concentration ratio for various heads and diameters of the suction pipes

4.1 Sediment-water mixture discharges of different sediments under various heads

4.2 Trend line equations between sediment – water mixture discharge and head for various sediments when diameter = 0.025 m

4.3 Trend line equations between sediment – water mixture discharge and head for various sediments when diameter = 0.031 m

4.4 Trend line equations between sediment – water mixture discharge and head for various sediments when diameter = 0.035 m

4.5 Trend line equations between sediment – water mixture discharge and head for various sediments when diameter = 0.047 m

4.6 Trend line equations between sediment – water mixture discharge and head for various sediments when diameter = 0.063 m
4.7 Trend line equations between sediment – water mixture discharge and head for various sediments when diameter = 0.075 m

4.8 Trend line equations between sediment – water mixture discharge and head for various sediments when diameter = 0.100 m

4.9 Trend line equations between sediment concentration ratio and head for various sediments when diameter = 0.025 m

4.10 Trend line equations between sediment concentration ratio and head for various sediments when diameter = 0.031 m

4.11 Trend line equations between sediment concentration ratio and head for various sediments when diameter = 0.035 m

4.12 Trend line equations between sediment concentration ratio and head for various sediments when diameter = 0.047 m

4.13 Trend line equations between sediment concentration ratio and head for various sediments when diameter = 0.063 m

4.14 Trend line equations between sediment concentration ratio and head for various sediments when diameter = 0.075 m

4.15 Trend line equations between sediment concentration ratio and head for various sediments when diameter = 0.100 m

5.1 Reynolds number of various types of sediments under various heads and diameters

5.2 Trend line equations for Reynolds number against sediment-water mixture discharge

5.3 Trend line equations and constants for different types of sediments

6.1 Trend line equations and Coefficient of discharge for sediments

6.2 Variation of predicted sediment-water mixture discharge to observed sediment-water mixture discharge