List of Tables

Table 1.1  Red List status of freshwater fishes in the Western Ghats of India...............................9
Table 1.2  Checklist of fishes in Western Ghats Region.................................................................10
Table 2.1  Morphometric characters of Sahyadria denisonii used for the present study ....................46
Table 2.2  Logarithmic length-weight relationship (LWR) of Sahyadria denisonii .........................48
Table 2.3  Length-length relationships (LLRs) of Sahyadria denisonii ...........................................49
Table 2.4  Meristic characters of Sahyadria denisonii .....................................................................51
Table 2.5  Statistical estimate of morphometric characters of Sahyadria denisonii as function of total length ..............................................................................................................53
Table 2.6  Statistical estimate of morphometric characters of Sahyadria denisonii as function of head length ...........................................................................................................54
Table 2.7  Regression analysis of morphometric characters of Sahyadria denisonii as function of total length ..............................................................................................................54
Table 2.8  Regression analysis of morphometric characters of Sahyadria denisonii as function of head length ...........................................................................................................54
Table 3.1  Length at different ages of S. denisonii estimated by VBGF equation ...............................72
Table 4.1  Monthly sex ratio in Sahyadria denisonii during 2012-2013 ..........................................97
Table 4.2  Sex ratio in Sahyadria denisonii in each 10 mm length groups .........................................97
Table 4.3  Fecundity and fecundity relationships of Sahyadria denisonii .........................................99
Table 4.4  Relationship between fecundity with length and weight of fish and ovary ......................101
Table 4.5  Correlation coefficient (r) and their significance with fecundity relationships .................101
Table 4.6  Statistical analysis to test deviation from Cube law ........................................................102
Table 7.1  Stages of anaesthetic induction in Sahyadria denisonii .....................................................163
Table 7.2  Timing (sec) of anaesthesia and recovery phases in Sahyadria denisonii exposed to various clove oil concentrations (mean values) .......................................................165
Table 7.3  Water Quality parameters in the experimental tanks ....................................................169
Table 7.4  Stages of anaesthesia induction observed in Sahyadria denisonii .....................................170
Table 7.5  Timing (sec) of anaesthesia and recovery phases in Sahyadria denisonii exposed to various MS-222 concentrations (mean ±S.D) .........................................................172
Table 7.6  Induction and recovery stages observed in Sahyadria denisonii ....................................177
Table 7.7  Stages of induction and recovery (seconds) in Sahyadria denisonii, exposed to different concentrations of 2-phenoxyethanol (Average ± S.D) .........................................178
Table 8.1  Water Quality Parameters observed in the artificial habitat .........................................190
Table 8.2  Early embryonic development of Sahyadria denisonii ....................................................197
Table 9.1 Nutritional characteristics of the diets used in the experiment .................................210
Table 9.2 Water quality parameters observed in rearing tanks ....................................................213
Table 9.3 Main developmental stages of larval phase of S denisonii based on morphological observations ..................................................................................................................216
Table 9.4 Growth performance and survival rate of Sahyadria denisonii larvae fed with different diets ........................................................................................................................221
Table 10.1 Morphological measurements of vertebral deformed Sahyadria denisonii ...........238