

LIST OF TABLES

- Table 1.1: Description of the Sample Sites of Selected Wetlands
- Table 1.2: Method Adopted or Instruments Used for Water Quality Analysis.
- Table 2.1: Administrative Setup of the Study Area
- Table 2.2: Major River System of the District
- Table 2.3: Average Maximum, Minimum Temperature and Rainfall of Koch Bihar
- Table 2.4: Rainfall of Koch Bihar District
- Table 2.5: Depth of Ground Water Table
- Table 2.6: District Wise Area under Forests by Legal Status In West Bengal *Area in Sq.Km*
- Table 2.7: Soil Texture of Different Blocks of Koch Bihar District
- Table 2.8: Soil Classification of the Study Area
- Table 2.9: Population Growth of Koch Bihar District
- Table-2.10: Block Wise Population of Koch Bihar District (2011)
- Table 2.11: Sex Ratio and Literacy Rate of Koch Bihar District
- Table 2.12: Religion and Caste Composition
- Table 2.13: Working Population
- Table-2.14: Percentage of Population Distribution over Different Categories of Workers & Non-Workers in the District of Koch Bihar (As Per Census, 2011)
- Table 2.15: Percentages of Different Categories of Working Population in Koch Bihar
- Table 2.16: Distribution of Educational Facilities in Koch Bihar District (2011-12)
- Table 2.17: Categories of Medical Institution Available in Koch Bihar District (2011)
- Table 2.18: Availability of Amenities in Villages (%) of Koch Bihar District (2011)
- Table 3.1: Ramsar Classification System for Wetland Type
- Table 3.2: Modified National Wetland Classification System
- Table 3.3: Definitions of Wetland Categories Used by Indian Space Research Organisation (ISRO)
- Table 3.4: Type-Wise Area Estimates of Wetlands in India (Area in Ha)
- Table 3.5: State-Wise Wetland Distribution in India
- Table 3.6: Type-Wise Distribution of Wetlands in West Bengal (Area in Ha)
- Table 3.7: District-Wise Distribution of Wetland

Table 3.8: Area Estimates of Wetlands in Koch Bihar (Area in Ha)

Table 3.9: Block-Wise Impounded Water Area of Koch Bihar

Table 3.10: Block-Wise Water Bodies under Fish Farmers Development Agency (F.F.D.A) in the Study Area

Table 3.11: Block-Wise Wetland Distribution in the Study Area

Table 3.12: Distribution of Different Types of Wetland (Area in Ha), Koch Bihar & Tufanganj Subdivision, 2017

Table 3.13: Distribution of Wetland according to Nearest River

Table 3.14: Wetland Distance from River in the Study Area

Table 4.1: Lift Irrigation from Sample Wetland

Table 4.2: Amount of Jute Retting in Different Wetlands

Table 4.3: Particulars of Fisheries in the Blocks of Koch Bihar for the Year 2012-13

Table 4.4: Use of Selected Wetlands of the Study Area

Table 4.5: Distribution of Forest in and Around Rasik Beel

Table 4.6: Number of Beneficiaries of Rasik Beel According to Use of Wetland

Table 4.7: Average Wetland Service of Rasik Beel According to Observation Method

Table 4.8: Land Use and Land Cover of Rasik Beel and its Surroundings

Table 4.9: Number of Beneficiaries of Dhangdhar Chhara According to Use of Wetland

Table 4.10: Wetland Service of Dhangdhar Chhara According to Observation Method

Table 4.11: Land Use and Land Cover of Dhangdhar Chhara and its Surroundings

Table 4.12: Number of Beneficiaries of Rasomati Jheel According to Use of Wetland

Table 4.13: Wetland Service of Rasomati Jheel According to Observation Method

Table 4.14: Land Use and Land Cover of Rasomati Jheel and its Surroundings

Table 4.15: Number of Beneficiaries of Baiganbari Chhara According to Use of Wetland

Table 4.16: Wetland Service of Baiganbari Chhara According to Observation Method

Table 4.17: Land Use and Land Cover of Baiganbari Chhara and its Surroundings

Table 4.18: Number of Beneficiaries of Chandan Dighi According to Use of Wetland

Table 4.19: Wetland Service of Chandan Dighi According to Observation Method

Table 4.20: Land Use and Land Cover of Chandan Dighi and its Surroundings

Table 4.21: Number of Beneficiaries of Sagar Dighi According to Use of Wetland

Table 4.22: Wetland Service of Sagar Dighi According to Observation Method

Table 4.23: Land Use and Land Cover of Sagar Dighi and its Surroundings

Table 4.24: Use of wetlands

Table 4.25: Chi-Square (χ^2) of the Use of Wetlands

Table 5.1: Description of the Sample Sites of Selected Wetlands

Table 5.2: Water Quality of Different Wetlands in the Study Area

Table 5.3: Value of Soil Properties of Selected Wetlands with Soil Quality Rating Standard

Table 5.4: Present Status of EC of Different Wetlands, Koch Bihar and Tufanganj, 2016 &2017

Table 5.5: Abundance Status of Aquatic Plants in Selected Wetlands, Koch Bihar & Tufanganj Subdivision

Table 5.6: Abundance Status of Flora of the Study Area

Table 5.7: Abundance Status of Common Varieties of Fishes Found in Selected Wetlands, Koch Bihar & Tufanganj Subdivision

Table 5.8: Abundance Status of Insect in Selected Wetlands, Koch Bihar & Tufanganj Subdivision

Table 5.9: Abundance Status of Water Bird in Selected Wetlands, Koch Bihar & Tufanganj Subdivision

Table 5.10: Abundance Status of Freshwater Snails in Selected Wetlands, Koch Bihar & Tufanganj Subdivision

Table 5.11: Abundance Status of Other Vertebrates in Selected Wetlands, Koch Bihar & Tufanganj Subdivision

Table 5.12: Abundance Status of Reptiles in Selected Wetlands, Koch Bihar & Tufanganj Subdivision

Table 5.13: Check List of Mammals in Selected Wetlands, Koch Bihar & Tufanganj Subdivision

Table 5.14: Abundance Status of Fauna in Selected Wetlands, Koch Bihar & Tufanganj Subdivision

Table 6.1: Thickness of Mud in Wetland Bed

Table 6.2: Organic Carbon Concentration in the Different Wetland

Table 6.3: Length of Roads Maintained by Different Agencies in the Study Area, 2010-11

Table 6.4: Land Use and Land Cover of Baiganbari Chhara and its Surroundings

Table 6.5: No. of Lift Irrigation (Govt.) and Irrigated Area (Ha) from Wetlands of Koch Bihar Sadar & Tufanganj

Table 6.6: No. of Lift Irrigation (Private) from Sample Wetland

Table 6.7: Nature of Garbage Dumping

Table 6.8: Source of Pollutant Inflow

Table 6.9: Vegetation Cover and Open Water Share in Selected Wetlands of the Study Area

Table 6.10: Indiscriminate Fishing Status

Table 6.11: Weed Clearance Status of the Study Area

Table 6.12: Area, Production and Yield in the Blocks (Jute), 2011

Table 6.13: Amount of Jute Retting in Different Wetland

Table 6.14: Socio-Cultural Activities in and Around Wetlands

Table 6.15: Classification of Water Quality Based on Weighted Arithmetic WQI Method

Table 6.16: Standard for Drinking Water and Aquatic Life

Table 6.17: Water Quality Index for Aquatic Life in Bochamari Beel during Pre-Monsoon 2016

Table 6.18: WQI for Aquatic Life in Selected Wetland During Post-Monsoon & Pre-Monsoon of 2016 & 2017

Table 6.19: Classification of Water Quality Based On Weighted Arithmetic WQI Method

Table 6.20: WQI Variance and Standart Error

Table 6.21: Calculation of ANOVA Statistic

Table 6.22: Depth of Water in Feet

Table 6.23: Total Number of Each Water bird Species Recorded at Rasik Beel Wetland Complex

Table 6.24: Temporal Change of Selected Wetlands in the Study Area

Table 6.25: Change of Occupation During 15-20 Years