LIST OF TABLES

Table 1.1: Comparative analysis of hydro-geological & demographic features in three zones & districts proposed for study ..................... 3-4
Table 1.2: Perspective vision 2025 plan for watershed development of rainfed areas ................................................................................. 44
Table 2.1: Summary of analytical methods used for chemical analysis of water samples ........................................................................... 56
Table 2.2: Water classes based on EC values ................................................................................................................................. 57
Table 2.3: Drinking water quality standards (ISI 1983, 1991 & WHO 1983) .............................................................................................. 59
Table 2.4: Water classes based on % Na (Wilcox, 1955) ............................................................................................................................. 66
Table 2.5: Water classes based on SAR (after U. S. Salinity Laboratory Staff, 1954) .................................................................................. 67
Table 2.6: Summary of analytical methods used for chemical analysis of soil samples .................................................................................. 70
Table 2.7: Soil standards of major elements (Turekian and Wedepohl, 1961) ............................................................................................... 75
Table 2.8: Detail of Satellite data used for all watersheds ......................................................................................................................... 82
Table 3.1: Result of chemical analysis of water samples collected from Khinang & Jagla Watersheds ............................................................. 109
Table 3.2: Result of chemical analysis of water samples collected from Kaza & Yargo Margo Rangrik Watershed .............................................. 110
Table 3.3: Chemical parameters calculated from analytical data of Khinang, Jagla, Kaza & Yargo Margo Rangrik Watersheds ................................ 111
Table 3.4: Evaluation of water samples of Khinang, Jagla, Kaza & Yargo Margo Rangrik Watersheds for irrigation purposes .......................... 112
Table 3.5: Result of chemical analysis of water samples collected from Phallan Watershed

Table 3.6: Result of chemical analysis of water samples collected from Mashna Watershed

Table 3.7: Chemical parameters calculated from analytical data of Phallan & Mashna Watersheds

Table 3.8: Evaluation of water samples of Phallan & Mashna Watersheds for irrigation purposes

Table 3.9: Result of chemical analysis of water samples collected from Giri River North iii-iv Watershed

Table 3.10: Result of chemical analysis of water samples collected from Gulhari Dagroh Khad Watershed

Table 3.11: Chemical parameters calculated from analytical data of Giri River North iii-iv & Gulhari Dagroh Khad Watersheds

Table 3.12: Evaluation of water samples of Giri River North iii-iv & Gulhari Dagroh Khad Watersheds for irrigation purposes

Table 4.1: Chemical analysis of soil samples of Khinang, Jagla, Kaza and Yargo Margo Rangrik Watersheds

Table 4.2: Chemical analysis of soil samples of Phallan and Mashna Watersheds

Table 4.3: Chemical analysis of soil samples of Giri River North iii-iv and Gulhari Dagroh Khad Watersheds

Table 4.4: Sieve analysis of soil sample of Khinang Watershed & Jagla Watershed

Table 4.5: Sieve analysis of soil samples of Jagla, Kaza & Yargo Margo Rangrik Watershed

Table 4.6: Sieve analysis of soil sample of Phallan Watershed
Table 5.18: Slope categories in Phallan Watershed ............................................ 309
Table 5.19: Slope Categories in Mashna Watershed ........................................ 309
Table 5.20: Slope Categories in Giri River North iii-iv watershed .................... 310
Table 5.21: Slope Categories in Gulhari Dagroh Khad watershed ................... 313
Table 6.1: Detail of year wise expenditure of funds under watershed project for Khinang Watershed ................................................................. 340
Table 6.2: Detail of year wise expenditure of funds under watershed project for Jagla Watershed ................................................................. 341
Table 6.3: Detail of year wise expenditure of funds under watershed project for Kaza & Yargo Margo Rangrik Watersheds ................................. 343
Table 6.4: Village profile of Khinang Watershed as per census 2001 ............... 344
Table 6.5: Village profile of Jagla Watershed as per census 2001 ..................... 345
Table 6.6: Village profile of Kaza Watershed as per census 2001 ..................... 346
Table 6.7: Village profile of Yargo Margo Rangrik Watershed as per census 2001 .............................................................................................. 348
Table 6.8: Village profile of Khinang Watershed based on primary data ......... 349
Table 6.9: Village profile of Jagla Watershed based on primary data ............. 350
Table 6.10: Village profile of Kaza Watershed based on primary data .......... 351
Table 6.11: Village profile of Yargo Margo Rangrik Watershed based on primary data ................................................................. 352
Table 6.12: Educational qualification of Khinang Watershed ......................... 373
Table 6.13: Educational qualification of Jagla Watershed ............................... 373
Table 6.14: Educational qualification of Kaza Watershed .............................. 374
Table 6.15: Educational qualification of Yargo Margo Rangrik Watershed ....... 374
Table 6.16: Change in crop productivity and level of production per annum in Khinang Watershed ............................................................... 381
Table 6.17: Change in crop productivity and level of production per annum in Jagla Watershed ........................................................................ 382
Table 6.18: Change in crop productivity and level of production per annum in Kaza Watershed ............................................................. 382
Table 6.19: Change in crop productivity and level of production per annum in Yargo Margo Rangrik Watershed ...................................................... 383
Table 6.20: Change in livestock population of Khinang Watershed ............ 385
Table 6.21: Change in livestock population of Jagla Watershed .................... 386
Table 6.22: Change in livestock population of Kaza Watershed .................. 386
Table 6.23: Change in livestock population of Yargo Margo Rangrik Watershed .......................................................................................... 387
Table 6.24: Year wise allocation of funds of Phallan & Mashna Watersheds..... 397
Table 6.25: Village profile of Phallan Watershed as per census 2001 .......... 399
Table 6.26: Village profile of Mashna Watershed as per census 2001 .......... 400
Table 6.27 Village profile of Phallan Watershed based on primary (a, b): data ................................................................................................... 401-402
Table 6.28 Village profile of Mashna Watershed based on primary (a, b, c): data .................................................................................................... 403-405
Table 6.29: Educational qualification of Phallan Watershed ....................... 418
Table 6.30: Educational qualification of Mashna Watershed ....................... 419
Table 6.31: Change in crops production and level of production per annum in Phallan Watershed ................................................................. 424
Table 6.32: Change in crops production and level of production per annum in Mashna Watershed ................................................................. 425
Table 6.33: Change in Livestock Population of Phallan Watershed ............... 426
Table 6.34: Change in Livestock Population of Mashna Watershed .......... 427
Table 6.35: Detail of year wise activities under (IWDP) batch-iii in Giri River North iii – iv Watershed ................................................................. 435
Table 6.36: Detail of year wise activities under (DPAP) batch -vi in Gulhari Dagroh Khad Watershed ................................................................. 437
Table 6.37: Village profile of Giri River North iii - iv Watershed as per census 2001 ........................................................................................................ 438
Table 6.38 Village Profile of Gulhari Dagroh Khad Watershed as per census (a, b): 2001 ................................................................................................... 440-441
Table 6.39: Village profile of Giri River North iii - iv Watershed based on primary data ...................................................................................... 442
Table 6.40 Village profile of Gulhari Dagroh Khad Watershed based on (a, b, c): primary data ............................................................................... 443-445
Table 6.41: Educational qualification of Giri River North iii-iv Watershed…… 457
Table 6.42: Educational qualification of Gulhari Dagroh Khad Watershed…… 458
Table 6.43: Change in crops production and level of production per annum in Giri River North iii - iv Watershed ................................................... 463
Table 6.44: Change in crops production and level of production per annum in Gulhari Dagroh Khad Watershed ................................................... 465
Table 6.45: Change in livestock population of Giri River North iii-iv Watershed ...................................................................................... 466
Table 6.46: Change in livestock population of Gulhari Dagroh Khad Watershed ...................................................................................... 467