**Appendix 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rainfall data for Rangamati District | | | | | |  |  |  |  |  |  |  |  |
| Monthly & Yearly Total Rainfall in mm. | | | | | | | | |  |  |  |  |  |
| Year | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Spt. | Oct. | Nov. | Dec. | Annual |
| 1988 | 0 | 15 | 79 | 166 | 355 | 760 | 679 | 567 | 236 | 234 | 23 | 17 | 3131 |
| 1989 | 0 | 11 | 0 | 240 | 163 | 210 | 820 | 176 | 413 | 563 | 40 | 0 | 2636 |
| 1990 | 0 | 22 | 115 | 336 | 365 | 388 | 659 | 176 | 197 | 129 | 91 | 54 | 2532 |
| 1991 | 9 | 5 | 19 | 174 | 578 | 618 | 474 | 606 | 335 | 103 | 88 | 14 | 3023 |
| 1992 | 0 | 93 | 4 | 31 | 137 | 428 | 341 | 239 | 274 | 154 | 12 | 15 | 1728 |
| 1993 | 0 | 151 | 201 | 139 | 475 | 784 | 959 | 730 | 278 | 152 | 9 | 0 | 3878 |
| 1994 | 5 | 6 | 153 | 207 | 96 | 243 | 316 | 266 | 198 | 109 | 12 | 0 | 1611 |
| 1995 | 1 | 7 | 27 | 44 | 490 | 339 | 607 | 351 | 171 | 146 | 220 | 0 | 2403 |
| 1996 | 10 | 17 | 251 | 87 | 440 | 455 | 479 | 437 | 379 | 246 | 72 | 4 | 2877 |
| 1997 | 1 | 14 | 251 | 33 | 209 | 508 | 657 | 481 | 443 | 134 | 19 | 15 | 2765 |
| 1998 | 21 | 79 | 137 | 157 | 658 | 294 | 1065 | 493 | 287 | 102 | 19 | 0 | 3312 |
| 1999 | 0 | 0 | 3 | 0 | 379 | 1117 | 590 | 474 | 201 | 149 | 3 | 115 | 3031 |
| 2000 | 41 | 1 | 112 | 210 | 698 | 565 | 207 | 534 | 164 | 357 | 45 | 0 | 2934 |
| 2001 | 0 | 8 | 1 | 34 | 282 | 569 | 346 | 332 | 212 | 181 | 101 | 0 | 2066 |
| 2002 | 9 | 0 | 42 | 66 | 548 | 262 | 852 | 472 | 353 | 79 | 94 | 7 | 2784 |
| 2003 | 0 | 1 | 36 | 82 | 273 | 1086 | 252 | 222 | 370 | 93 | 0 | 59 | 2474 |
| 2004 | 0 | 0 | 8 | 170 | 116 | 841 | 1076 | 229 | 491 | 182 | 0 | 0 | 3113 |
| 2005 | 2 | 0 | 74 | 199 | 238 | 185 | 274 | 644 | 323 | 125 | 53 | 7 | 2124 |
| 2006 | 0 | 0 | 0 | 36 | 701 | 313 | 476 | 370 | 302 | 99 | 19 | 0 | 2316 |
| 2007 | 0 | 58 | 32 | 168 | 280 | 591 | 712 | 268 | 535 | 351 | 81 | 0 | 3076 |
| 2008 | 47 | 8 | 5 | 0 | 188 | 262 | 433 | 400 | 240 | 172 | 25 | 0 | 1780 |
| 2009 | 0 | 0 | 1 | 61 | 264 | 295 | 639 | 472 | 276 | 338 | 49 | 0 | 2395 |
| 2010 | 0 | 9 | 121 | 112 | 424 | 653 | 304 | 496 | 183 | 281 | 45 | 17 | 2645 |
| 2011 | 1 | 1 | 49 | 78 | 169 | 516 | 463 | 566 | 420 | 98 | 0 | 0 | 2361 |
| 2012 | 0 | 0 | 91 | 284 | 187 | 834 | 489 | 297 | 268 | 344 | 23 | 0 | 2817 |
| 2013 | 0 | 2 | 2 | 83 | 435 | 280 | 274 | 200 | 476 | 198 | 0 | 0 | 1950 |
| 2014 | 0 | 23 | 17 | 1 | 339 | 610 | 161 | 294 | 316 | 152 | 10 | 0 | 1923 |
| 2015 | 0 | 0 | 52 | 238 | 130 | 562 | 1035 | 714 | 386 | 213 | 10 | 2 | 3342 |
| 2016 | 3 | 85 | 11 | 29 | 274 | 513 | 405 | 239 | 214 | 139 | 120 | 0 | 2032 |
| 2017 | 0 | 0 | 108 | 388 | 186 | 1189 | 684 | 629 | 428 | 159 | 18 | 30 | 3819 |

Source: Bangladesh Meteorological Department, 2018

Figure 10: Monthly Rainfall records of Rangamati for years of 1988 to 2017 (Source: Bangladesh Meteorology Department)

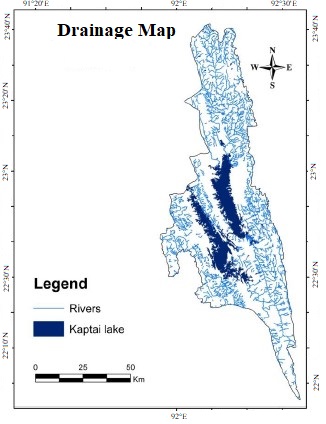


Figure 11: Drainage Map of Study Area