

Distribution System Reliability Indices (SAIFI, SAIDI & MAIFI) of Urban Feeders of UPCL for the month of January 2020

| SI No | Name of Electricity Distribution Division | Feeder Voltage | Nos of Outages > 5 Min | Total Connected Load KW | Affected Load KW | SAIFI Calculation | | SAIDI Calculation | | MAIFI Calculation | | | |
|-------|---|----------------|------------------------|-------------------------|------------------|------------------------------------|-----------|------------------------------------|------------|------------------------|------------------|------------------------------------|----------|
| | | | | | | $\Sigma Ai \times Ni$ for Division | SAIFI | $\Sigma Bi \times Ni$ for Division | SAIDI | Nos of Outages < 5 Min | Affected Load KW | $\Sigma Ci \times Ni$ for Division | MAIFI |
| | | | | | | | Nos. | | Min | | | | Nos. |
| 1 | Raipur Dehradun | 11 | 207 | 9817 | 9817 | 280479 | 29 | 6681492 | 681 | 68 | 9817 | 123442 | 13 |
| 2 | Mohanpur | 11 | 57 | 5124 | 2818 | 160637 | 31 | 3263476 | 637 | 21 | 2818 | 59182 | 12 |
| 3 | Vikasnagar | 11 | 262 | 19082 | 15893 | 521916 | 27 | 7248631 | 380 | 79 | 15893 | 159040 | 8 |
| 4 | Rishikesh | 11 | 357 | 13707 | 13707 | 468253 | 34 | 7011540 | 512 | 122 | 5594 | 139164 | 10 |
| 5 | Uttarkashi | 11 | 135 | 8288 | 7619 | 184027 | 22 | 4493144 | 542 | 64 | 7619 | 78178 | 9 |
| 6 | Barkot | 11 | 33 | 2370 | 850 | 28050 | 12 | 400350 | 169 | 6 | 850 | 5100 | 2 |
| 7 | Doiwala | 11 | 61 | 3399 | 3399 | 72758 | 21 | 1495032 | 440 | 29 | 3399 | 27025 | 8 |
| 8 | Dehradun (North) | 11 | 304 | 42259 | 42259 | 471188 | 11 | 18002334 | 426 | 139 | 40172 | 390051 | 9 |
| 9 | Dehradun (South) | 11 | 750 | 91148 | 91148 | 1754767 | 19 | 25657443 | 281 | 349 | 91148 | 846653 | 9 |
| 10 | Dehradun (Central) | 11 | 389 | 14472 | 14472 | 214475 | 15 | 9319968 | 644 | 109 | 13972 | 112447 | 8 |
| 11 | Srinagar | 11 | 149 | 12639 | 6319 | 177824 | 14 | 5655256 | 447 | 66 | 6319 | 68648 | 5 |
| 12 | Pauri | 11 | 399 | 16913 | 4939 | 298049 | 18 | 3751293 | 222 | 117 | 7331 | 124651 | 7 |
| 13 | Tehri | 11 | 375 | 29942 | 29942 | 801539 | 27 | 16222727 | 542 | 152 | 29942 | 370687 | 12 |
| 14 | Gopeshwar | 11 | 149 | 4583 | 4583 | 82607 | 18 | 3009886 | 657 | 44 | 4583 | 23919 | 5 |
| 15 | Narayanbagar | 11 | 87 | 2072 | 2072 | 92274 | 45 | 1534218 | 740 | 10 | 2072 | 16072 | 8 |
| 16 | Gairsain | 11 | 50 | 7901 | 7901 | 93726 | 12 | 4667856 | 591 | 35 | 7901 | 63011 | 8 |
| 17 | Kotdwar | 11 | 219 | 14442 | 5176 | 197112 | 14 | 4726552 | 327 | 117 | 5176 | 84264 | 6 |
| 18 | Rudraprayag | 11 | 243 | 2529 | 2635 | 97684 | 39 | 2337695 | 924 | 56 | 2635 | 23748 | 9 |
| 19 | Roorkee(Urban) | 11 | 583 | 33430 | 22765 | 953755 | 29 | 16140300 | 483 | 215 | 22765 | 360565 | 11 |
| 20 | Roorkee(Rural) | 11 | 247 | 15600 | 15600 | 779600 | 50 | 14160600 | 908 | 46 | 15600 | 142400 | 9 |
| 21 | Ramnagar (Roorkee) | 11 | 359 | 35376 | 35376 | 1152215 | 33 | 14108906 | 399 | 109 | 35376 | 305930 | 9 |
| 22 | Bhagwanpur | 11 | 28 | 79352 | 79352 | 2221844 | 28 | 22773903 | 287 | 7 | 79352 | 555461 | 7 |
| 23 | Haridwar(Urban) | 11 | 523 | 2970 | 2231 | 36922 | 12 | 1400970 | 472 | 337 | 2231 | 29050 | 10 |
| 24 | Haridwar(Rural) | 11 | 30 | 605 | 550 | 7922 | 13 | 379878 | 628 | 14 | 550 | 4178 | 7 |
| 25 | Jwalapur | 11 | 139 | 51443 | 51443 | 540057 | 10 | 17059204 | 332 | 24 | 30721 | 64259 | 15 |
| 26 | Laksar | 11 | 49 | 29188 | 29188 | 737114 | 25 | 15590340 | 534 | 15 | 29188 | 209478 | 7 |
| 27 | Hadwani (Urban) | 11 | 609 | 95437 | 14542 | 459676 | 5 | 14600231 | 153 | 130 | 95437 | 611531 | 6 |
| 28 | Hadwani (Rural) | 11 | 92 | 3659 | 2370 | 68489 | 19 | 958997 | 262 | 21 | 2370 | 19857 | 5 |
| 29 | Nainital | 11 | 283 | 28632 | 20158 | 491816 | 17 | 10017465 | 350 | 113 | 20158 | 199210 | 7 |
| 30 | Ramnagar | 11 | 153 | 16948 | 7775 | 255910 | 15 | 6504120 | 384 | 65 | 7775 | 94345 | 6 |
| 31 | Kashipur | 11 | 170 | 39753 | 39753 | 546282 | 14 | 20298561 | 511 | 132 | 39753 | 497683 | 13 |
| 32 | Bazpur | 11 | 98 | 13927 | 13927 | 195065 | 14 | 5831912 | 419 | 76 | 13927 | 155460 | 11 |
| 33 | Jasur | 11 | 48 | 11368 | 11368 | 136202 | 12 | 3100170 | 273 | 16 | 11368 | 44892 | 4 |
| 34 | Rudrapur | 11 | 293 | 59423 | 59423 | 703820 | 12 | 12854226 | 216 | 69 | 59423 | 165366 | 3 |
| 35 | Sitraganj | 11 | 130 | 9856 | 9856 | 265792 | 27 | 8410336 | 853 | 37 | 9856 | 59648 | 6 |
| 36 | Khatima | 11 | 66 | 11702 | 4290 | 91300 | 8 | 4031940 | 345 | 42 | 4290 | 57530 | 5 |
| 37 | Almora | 11 | 201 | 5782 | 5782 | 103661 | 18 | 2672097 | 462 | 104 | 5782 | 57287 | 10 |
| 38 | Bageshwar | 11 | 43 | 4176 | 4176 | 179568 | 43 | 3662352 | 877 | 8 | 4176 | 33408 | 8 |
| 39 | Ranikhet | 11 | 204 | 2365 | 793 | 43489 | 18 | 627442 | 265 | 57 | 793 | 10652 | 5 |
| 40 | Bhikiyasain | 11 | - | - | - | - | - | - | - | - | - | - | - |
| 41 | Pithoragarh | 11 | 346 | 34495 | 11227 | 406548 | 12 | 11442837 | 332 | 124 | 7686 | 125966 | 4 |
| 42 | Dharchula | 11 | 82 | 8298 | 4292 | 60511 | 7 | 2623850 | 316 | 86 | 4292 | 47839 | 6 |
| 43 | Champawat | 11 | 103 | 12766 | 3830 | 68317 | 5 | 3023134 | 237 | 68 | 3830 | 44763 | 4 |
| | UPCL | 11 | 9105 | 907237 | 715615 | 16503239 | 18 | 337752664 | 372 | 3498 | 763938 | 6612041 | 7 |

Distribution System Reliability Indices (SAIFI, SAIDI & MAIFI) of Rural Feeders of UPCL for the month of January 2020

| Sl No | Name of Electricity Distribution Division | Feeder Voltage | Nos of Outages > 5 Min | Total Connected Load KW | Affected Load KW | SAIFI Calculation | | SAIDI Calculation | | MAIFI Calculation | | | |
|-------------|---|----------------|------------------------|-------------------------|------------------|------------------------------------|-----------|------------------------------------|------------|------------------------|------------------|------------------------------------|----------|
| | | | | | | $\sum A_i \times N_i$ for Division | SAIFI | $\sum B_i \times N_i$ for Division | SAIDI | Nos of Outages < 5 Min | Affected Load KW | $\sum C_i \times N_i$ for Division | MAIFI |
| | | KV | KW | | Nos. | Min | | | Nos. | | | | |
| 1 | Raipur Dehradun | 11 | 644 | 32745 | 32403 | 1002521 | 31 | 25482524 | 778 | 340 | 32403 | 527642 | 16 |
| 2 | Mohanpur | 11 | 559 | 39472 | 25394 | 971388 | 25 | 25353594 | 642 | 192 | 25394 | 283115 | 7 |
| 3 | Vikasnagar | 11 | 949 | 52478 | 40448 | 1364007 | 26 | 22347524 | 426 | 159 | 40448 | 542990 | 10 |
| 4 | Rishikesh | 11 | 928 | 27432 | 27432 | 1282751 | 47 | 20272554 | 739 | 8 | 22647 | 14398 | 8 |
| 5 | Uttarkashi | 11 | 493 | 16784 | 15239 | 542417 | 32 | 14923014 | 889 | 126 | 15239 | 116644 | 7 |
| 6 | Barkot | 11 | 421 | 18301 | 15124 | 653524 | 36 | 9128713 | 499 | 66 | 15124 | 81455 | 4 |
| 7 | Doiwala | 11 | 255 | 13411 | 13411 | 320709 | 24 | 10807868 | 806 | 104 | 13411 | 119649 | 9 |
| 8 | Dehradun (North) | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | Dehradun (South) | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | Dehradun (Central) | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | Srinagar | 11 | 653 | 39404 | 19702 | 610771 | 16 | 22335260 | 567 | 212 | 19702 | 236066 | 6 |
| 12 | Pauri | 11 | 1347 | 75372 | 17071 | 828897 | 11 | 21725278 | 288 | 561 | 14687 | 350640 | 5 |
| 13 | Tehri | 11 | 1491 | 103400 | 103400 | 2842809 | 27 | 99909563 | 966 | 697 | 103400 | 1233244 | 12 |
| 14 | Gopeshwar | 11 | 290 | 7174 | 7174 | 143286 | 20 | 6826325 | 952 | 112 | 7174 | 58186 | 8 |
| 15 | Narayanbagar | 11 | 315 | 10044 | 10044 | 348348 | 35 | 12397790 | 1234 | 90 | 10044 | 95644 | 10 |
| 16 | Gairsain | 11 | 458 | 16070 | 16070 | 656059 | 41 | 19740627 | 1228 | 116 | 16070 | 125911 | 8 |
| 17 | Kotdwar | 11 | 2723 | 97860 | 26818 | 1261919 | 13 | 33609424 | 343 | 1188 | 26818 | 628948 | 6 |
| 18 | Rudraprayag | 11 | 685 | 12930 | 12930 | 486530 | 38 | 15724040 | 1216 | 199 | 12930 | 129270 | 10 |
| 19 | Roorkee(Urban) | 11 | 710 | 24663 | 9344 | 530259 | 22 | 16924554 | 686 | 280 | 9344 | 202927 | 8 |
| 20 | Roorkee(Rural) | 11 | 1527 | 84439 | 84439 | 5634643 | 67 | 143329177 | 1697 | 226 | 84439 | 854187 | 10 |
| 21 | Ramnagar (Roorkee) | 11 | 266 | 24836 | 24836 | 852184 | 34 | 30193318 | 1216 | 103 | 24836 | 310222 | 12 |
| 22 | Bhagwanpur | 11 | 324 | 996445 | 996445 | 15678949 | 16 | 734401934 | 737 | 134 | 996445 | 5865151 | 6 |
| 23 | Haridwar(Urban) | 11 | 64 | 112 | 95 | 1680 | 15 | 74698 | 667 | 48 | 95 | 1388 | 12 |
| 24 | Haridwar(Rural) | 11 | 29 | 1518 | 1380 | 19344 | 13 | 1480668 | 975 | 21 | 1380 | 13380 | 9 |
| 25 | Jwalapur | 11 | 82 | 4774 | 4774 | 95480 | 20 | 3199856 | 670 | 46 | 4774 | 41052 | 9 |
| 26 | Laksar | 11 | 528 | 110150 | 110150 | 2665710 | 24 | 131942233 | 1198 | 147 | 110094 | 660558 | 6 |
| 27 | Haldwani (Urban) | 11 | 98 | 9100 | 1606 | 58558 | 6 | 2473956 | 272 | 19 | 9100 | 57411 | 6 |
| 28 | Haldwani (Rural) | 11 | 1825 | 210229 | 109255 | 5002365 | 24 | 98957526 | 471 | 771 | 109255 | 1022007 | 5 |
| 29 | Nainital | 11 | 724 | 44664 | 17195 | 454384 | 10 | 16562016 | 371 | 407 | 17195 | 242624 | 5 |
| 30 | Ramnagar | 11 | 508 | 24490 | 14557 | 377866 | 15 | 13448413 | 549 | 265 | 14557 | 218026 | 9 |
| 31 | Kashipur | 11 | 299 | 38042 | 35685 | 696635 | 18 | 36220078 | 952 | 164 | 35685 | 365774 | 10 |
| 32 | Bazpur | 11 | 365 | 34552 | 34552 | 700645 | 20 | 34639415 | 1003 | 178 | 34552 | 328680 | 10 |
| 33 | Jasipur | 11 | 360 | 33024 | 33024 | 784018 | 24 | 28895856 | 875 | 170 | 33024 | 310075 | 9 |
| 34 | Rudrapur | 11 | 590 | 100462 | 100462 | 1534732 | 15 | 31181768 | 310 | 84 | 100462 | 270472 | 3 |
| 35 | Sitraganj | 11 | 497 | 41344 | 41344 | 1212768 | 29 | 48574096 | 1175 | 86 | 41344 | 208336 | 5 |
| 36 | Khatima | 11 | 458 | 44149 | 19018 | 496562 | 11 | 29624178 | 671 | 252 | 19018 | 310402 | 7 |
| 37 | Almora | 11 | 850 | 11953 | 11953 | 371302 | 31 | 13092188 | 1095 | 228 | 11953 | 94994 | 8 |
| 38 | Bageshwar | 11 | 387 | 39274 | 39274 | 723786 | 18 | 40385918 | 1028 | 175 | 39274 | 320580 | 8 |
| 39 | Ranikhet | 11 | 939 | 9697 | 4032 | 146240 | 15 | 4003699 | 413 | 334 | 4032 | 48277 | 5 |
| 40 | Bhikyasain | 11 | 1105 | 7655 | 7655 | 158956 | 21 | 5522539 | 721 | 196 | 7655 | 51456 | 7 |
| 41 | Pithoragarh | 11 | 1263 | 54680 | 31584 | 861466 | 16 | 23903968 | 437 | 318 | 12534 | 214356 | 4 |
| 42 | Dharchula | 11 | 375 | 26818 | 10152 | 166147 | 6 | 10465725 | 390 | 274 | 10152 | 132871 | 5 |
| 43 | Champawat | 11 | 656 | 22639 | 6792 | 254105 | 11 | 8283332 | 366 | 326 | 6792 | 120672 | 5 |
| UPCL | | 11 | 27040 | 2562587 | 2132263 | 52794720 | 21 | 1868365206 | 729 | 9422 | 2113482 | 16809678 | 7 |