

Distribution System Reliability Indices (SAIFI, SAIDI & MAIFI) of Urban Feeders of UPCL for the month of December 2022

| 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 | | | |
|-------|---|----------------|------------------------|-------------------------|------------------|----------------------------------|-----------|----------------------------------|------------|------------------------|------------------|----------------------------------|----------|
| | | | | | | $\sum Ai \times Ni$ for Division | SAIFI | $\sum Bi \times Ni$ for Division | SAIDI | Nos of Outages < 5 Min | Affected Load KW | $\sum Ci \times Ni$ for Division | MAIFI |
| | | | | | | | Nos. | | Min | | | | Nos. |
| 1 | Raipur Dehradun | 11 | 101 | 2845 | 2845 | 53775 | 19 | 935400 | 329 | 95 | 2845 | 43007 | 15 |
| 2 | Mohanpur | 11 | 39 | 5620 | 3091 | 120549 | 21 | 4080120 | 726 | 11 | 3091 | 34001 | 6 |
| 3 | Vikasnagar | 11 | 238 | 46556 | 37245 | 1446326 | 31 | 28029143 | 602 | 22 | 37245 | 149097 | 3 |
| 4 | Rishikesh | 11 | 626 | 37064 | 37064 | 833595 | 22 | 7185884 | 202 | 14 | 37064 | 16794 | 0.5 |
| 5 | Uttarkashi | 11 | 122 | 8288 | 7619 | 187848 | 23 | 1658340 | 200 | 6 | 7619 | 8676 | 1 |
| 6 | Barkot | 11 | 22 | 2370 | 849 | 18678 | 8 | 260643 | 110 | 21 | 849 | 17829 | 8 |
| 7 | Doiwala | 11 | - | - | - | - | - | - | - | - | - | - | - |
| 8 | Dehradun (North) | 11 | 587 | 3907 | 3907 | 57159 | 15 | 1136937 | 291 | 490 | 3907 | 48798 | 12 |
| 9 | Dehradun (South) | 11 | 1011 | 112477 | 112477 | 2026481 | 18 | 28448309 | 253 | 352 | 112477 | 820186 | 7 |
| 10 | Dehradun (Central) | 11 | 544 | 4210 | 4210 | 52946 | 13 | 1155974 | 275 | 311 | 4210 | 35803 | 9 |
| 11 | Srinagar | 11 | 184 | 18888 | 9444 | 169713 | 9 | 4146539 | 220 | 21 | 9444 | 25122 | 1 |
| 12 | Pauri | 11 | 130 | 16929 | 4670 | 136770 | 8 | 1843650 | 109 | 13 | 4670 | 13915 | 1 |
| 13 | Nainidanda | 11 | - | - | - | - | - | - | - | - | - | - | - |
| 14 | Tehri | 11 | 171 | 29942 | 29942 | 420454 | 14 | 13458090 | 783 | 457 | 29942 | 971301 | 32 |
| 15 | Gopeshwar | 11 | 253 | 8146 | 8146 | 293439 | 36 | 5554659 | 682 | 22 | 8146 | 30235 | 4 |
| 16 | Narayanbagar | 11 | 38 | 1760 | 1760 | 35860 | 20 | 1814886 | 1031 | 6 | 1760 | 6248 | 4 |
| 17 | Gairsain | 11 | 190 | 10594 | 10594 | 395582 | 37 | 8224443 | 776 | 25 | 10594 | 51450 | 5 |
| 18 | Kotdwar | 11 | 529 | 56803 | 46717 | 1075402 | 19 | 20986898 | 493 | 401 | 46717 | 736369 | 13 |
| 19 | Rudraprayag | 11 | 190 | 6168 | 3867 | 181959 | 30 | 4053022 | 657 | 35 | 3867 | 23839 | 4 |
| 20 | Roorkee(Urban) | 11 | 1550 | 31880 | 31880 | 1434600 | 45 | 32928760 | 1127 | 87 | 31880 | 197975 | 6 |
| 21 | Roorkee(Rural) | 11 | 798 | 24045 | 18034 | 1154160 | 48 | 31715355 | 1319 | 73 | 18034 | 164560 | 7 |
| 22 | Ramnagar (Roorkee) | 11 | 375 | 20856 | 17838 | 557427 | 27 | 17846579 | 856 | 87 | 17838 | 129323 | 6 |
| 23 | Bhagwanpur | 11 | - | - | - | - | - | - | - | - | - | - | - |
| 24 | Haridwar(Urban) | 11 | 175 | 2133 | 1579 | 9742 | 5 | 137845 | 65 | 120 | 1579 | 5833 | 3 |
| 25 | Haridwar(Rural) | 11 | - | - | - | - | - | - | - | - | - | - | - |
| 26 | Jwalapur | 11 | 786 | 23646 | 20588 | 834453 | 35 | 21147700 | 894 | 24 | 20588 | 24490 | 1 |
| 27 | Laksar | 11 | 43 | 3675 | 3675 | 79575 | 22 | 2159775 | 588 | 18 | 3675 | 38625 | 11 |
| 28 | Hadwani (Urban) | 11 | 787 | 124318 | 14976 | 672590 | 5 | 10839199 | 87 | 54 | 14976 | 36677 | 0.3 |
| 29 | Haldwani (Rural) | 11 | 83 | 13091 | 6204 | 141834 | 11 | 2293153 | 175 | 12 | 6204 | 18861 | 1 |
| 30 | Nainital | 11 | 195 | 28148 | 24348 | 309412 | 11 | 9174131 | 326 | 51 | 24348 | 77578 | 3 |
| 31 | Ramnagar | 11 | 180 | 21573 | 8229 | 259882 | 12 | 3255522 | 151 | 34 | 8229 | 46274 | 2 |
| 32 | Kashipur | 11 | 428 | 39753 | 39753 | 1576896 | 40 | 40094297 | 1034 | 185 | 39753 | 611379 | 15 |
| 33 | Bazpur | 11 | 269 | 14160 | 14160 | 627491 | 44 | 18542673 | 1310 | 47 | 14160 | 108260 | 8 |
| 34 | Jaspur | 11 | 56 | 11368 | 11368 | 163472 | 14 | 4421960 | 389 | 16 | 11368 | 46052 | 4 |
| 35 | Rudrapur-I | 11 | 948 | 44270 | 44270 | 1726530 | 39 | 30668430 | 1009 | 70 | 44270 | 157790 | 4 |
| 36 | Rudrapur-II | 11 | 418 | 37237 | 37237 | 895129 | 24 | 11580273 | 445 | 28 | 37237 | 56090 | 2 |
| 37 | Sitraganj | 11 | 46 | 7316 | 3658 | 41800 | 6 | 2165488 | 296 | 0 | 3658 | 0 | 0 |
| 38 | Khatima | 11 | 168 | 7159 | 4510 | 187330 | 26 | 3152600 | 440 | 0 | 4510 | 0 | 0 |
| 39 | Almora | 11 | 578 | 11886 | 11886 | 636053 | 54 | 10717349 | 902 | 62 | 11886 | 64756 | 5 |
| 40 | Bageshwar | 11 | 143 | 5313 | 5313 | 405711 | 76 | 5025009 | 946 | 45 | 5313 | 108906 | 20 |
| 41 | Ranikhet | 11 | 124 | 3969 | 3969 | 162295 | 41 | 1870747 | 471 | 13 | 3969 | 11810 | 3 |
| 42 | Bhikiyasain | 11 | - | - | - | - | - | - | - | - | - | - | - |
| 43 | Pithoragarh | 11 | 545 | 37355 | 12211 | 803169 | 22 | 13272523 | 355 | 19 | 12211 | 28870 | 1 |
| 44 | Dharchula | 11 | 170 | 10780 | 6329 | 218212 | 20 | 2680132 | 249 | 55 | 6329 | 15212 | 1 |
| 45 | Champawat | 11 | 106 | 11482 | 3588 | 76236 | 7 | 3596011 | 313 | 109 | 3588 | 67793 | 6 |
| | UPCL | 11 | 13946 | 907979 | 670050 | 20480535 | 23 | 412258448 | 454 | 3511 | 670050 | 5049783 | 6 |

Distribution System Reliability Indices (SAIFI, SAIDI & MAIFI) of Rural Feeders of UPCL for the month of December 2022

| 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 | | | |
|-------|---|----------------|------------------------|-------------------------|------------------|------------------------------------|-----------|------------------------------------|------------|------------------------|------------------|------------------------------------|----------|
| | | | | | | $\Sigma Ai \times Ni$ 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 |
| | | KV | KW | | Nos. | Min | | | Nos. | | | | |
| 1 | Raipur Dehradun | 11 | 699 | 45976 | 45976 | 1517242 | 33 | 22894564 | 498 | 427 | 45976 | 560156 | 12 |
| 2 | Mohanpur | 11 | 545 | 43900 | 28131 | 1120221 | 26 | 25322464 | 577 | 424 | 28131 | 702310 | 16 |
| 3 | Vikasnagar | 11 | 842 | 119431 | 95545 | 3104107 | 26 | 44237602 | 370 | 18 | 95545 | 110018 | 1 |
| 4 | Rishikesh | 11 | - | - | - | - | - | - | - | - | - | - | - |
| 5 | Uttarkashi | 11 | 506 | 19948 | 18048 | 504906 | 25 | 2877775 | 144 | 16 | 18048 | 17890 | 1 |
| 6 | Barkot | 11 | 584 | 24419 | 20198 | 494229 | 20 | 5743186 | 235 | 616 | 20198 | 553814 | 23 |
| 7 | Doiwala | 11 | 316 | 25514 | 25514 | 476021 | 19 | 23879692 | 936 | 44 | 25514 | 56066 | 2 |
| 8 | Dehradun (North) | 11 | - | - | - | - | - | - | - | - | - | - | - |
| 9 | Dehradun (South) | 11 | - | - | - | - | - | - | - | - | - | - | - |
| 10 | Dehradun (Central) | 11 | - | - | - | - | - | - | - | - | - | - | - |
| 11 | Srinagar | 11 | 1157 | 59279 | 29639 | 884434 | 15 | 18528682 | 313 | 168 | 29639 | 129685 | 2 |
| 12 | Pauri | 11 | 501 | 69314 | 10815 | 382544 | 6 | 8362205 | 121 | 86 | 10815 | 46915 | 1 |
| 13 | Nainidanda | 11 | 485 | 24274 | 9225 | 293408 | 12 | 5418758 | 223 | 245 | 9225 | 147972 | 6 |
| 14 | Tehri | 11 | 1288 | 109100 | 109100 | 2324410 | 21 | 154690825 | 1418 | 1605 | 109100 | 2827461 | 26 |
| 15 | Gopeshwar | 11 | 675 | 9166 | 9166 | 438992 | 48 | 10302345 | 1124 | 94 | 9166 | 72696 | 8 |
| 16 | Narayanbagar | 11 | 396 | 11506 | 11506 | 464651 | 40 | 15007382 | 1304 | 59 | 11506 | 66903 | 6 |
| 17 | Gairsain | 11 | 524 | 22574 | 22574 | 705370 | 31 | 16670009 | 738 | 43 | 22574 | 48803 | 2 |
| 18 | Kotdwar | 11 | 1157 | 28874 | 6765 | 533097 | 18 | 7174262 | 248 | 301 | 6765 | 159634 | 6 |
| 19 | Rudraprayag | 11 | 726 | 12801 | 7521 | 289891 | 23 | 6616199 | 517 | 148 | 7521 | 61889 | 5 |
| 20 | Roorkee(Urban) | 11 | 1840 | 23890 | 23890 | 2093003 | 88 | 67704260 | 2834 | 510 | 23890 | 580049 | 24 |
| 21 | Roorkee(Rural) | 11 | 2949 | 84482 | 63362 | 5660294 | 67 | 241534038 | 2859 | 412 | 63362 | 1087714 | 13 |
| 22 | Ramnagar (Roorkee) | 11 | 513 | 28874 | 21160 | 775363 | 27 | 43640989 | 1511 | 146 | 21160 | 220669 | 8 |
| 23 | Bhagwanpur | 11 | 2081 | 2960 | 2960 | 139995 | 47 | 6392187 | 2160 | 386 | 2960 | 25967 | 9 |
| 24 | Haridwar(Urban) | 11 | 592 | 264 | 162 | 16617 | 63 | 598560 | 2267 | 105 | 162 | 3240 | 12 |
| 25 | Haridwar(Rural) | 11 | 124 | 9026 | 8205 | 127178 | 14 | 2796879 | 310 | 23 | 8205 | 23589 | 3 |
| 26 | Jwalapur | 11 | 1444 | 29807 | 21250 | 1424863 | 48 | 44989570 | 1509 | 63 | 21250 | 38968 | 1 |
| 27 | Laksar | 11 | 759 | 171491 | 171491 | 5523576 | 32 | 220622682 | 1286 | 218 | 171491 | 1557040 | 9 |
| 28 | Hadwani (Urban) | 11 | 153 | 18129 | 2112 | 115575 | 6 | 2215120 | 122 | 27 | 2112 | 17982 | 1 |
| 29 | Haldwani (Rural) | 11 | 1559 | 259513 | 140958 | 3538056 | 14 | 57727329 | 222 | 478 | 140958 | 1231278 | 5 |
| 30 | Nainital | 11 | 470 | 48852 | 18444 | 312407 | 6 | 4441672 | 91 | 135 | 18444 | 85593 | 2 |
| 31 | Ramnagar | 11 | 895 | 29448 | 16411 | 680970 | 23 | 12844948 | 436 | 237 | 16411 | 208442 | 7 |
| 32 | Kashipur | 11 | 909 | 55894 | 50347 | 2098967 | 38 | 69805004 | 1249 | 540 | 50347 | 984455 | 18 |
| 33 | Bazpur | 11 | 1180 | 40043 | 40028 | 2422345 | 60 | 114786419 | 2867 | 228 | 40028 | 514174 | 13 |
| 34 | Jaspur | 11 | 701 | 33024 | 33024 | 1422618 | 43 | 67804000 | 2053 | 272 | 33024 | 536277 | 16 |
| 35 | Rudrapur-I | 11 | 1503 | 81837 | 81837 | 4664709 | 57 | 151725798 | 1854 | 69 | 81837 | 267071 | 3 |
| 36 | Rudrapur-II | 11 | 1627 | 42191 | 42191 | 3390194 | 80 | 128615748 | 3048 | 38 | 42191 | 80092 | 2 |
| 37 | Sitraganj | 11 | 690 | 26398 | 13199 | 497478 | 19 | 27132845 | 1028 | 0 | 13199 | 0 | 0 |
| 38 | Khatima | 11 | 557 | 48492 | 14484 | 720530 | 15 | 18182879 | 375 | 0 | 14484 | 0 | 0 |
| 39 | Almora | 11 | 1325 | 14298 | 14298 | 742524 | 52 | 13693200 | 958 | 156 | 14298 | 97756 | 7 |
| 40 | Bageshwar | 11 | 1726 | 42746 | 42746 | 2564374 | 60 | 33089692 | 774 | 164 | 42746 | 293170 | 7 |
| 41 | Ranikhet | 11 | 1135 | 14188 | 14188 | 848223 | 60 | 16083246 | 1134 | 307 | 14188 | 225403 | 16 |
| 42 | Bhikiyasain | 11 | 699 | 9912 | 9912 | 205027 | 21 | 3011617 | 304 | 126 | 9912 | 40789 | 4 |
| 43 | Pithoragarh | 11 | 1574 | 58635 | 26364 | 904909 | 15 | 17885820 | 305 | 229 | 26364 | 129437 | 2 |
| 44 | Dharchula | 11 | 690 | 22810 | 13310 | 512123 | 22 | 9053142 | 397 | 268 | 13310 | 42312 | 2 |
| 45 | Champawat | 11 | 567 | 29990 | 9328 | 274502 | 9 | 36021695 | 1201 | 508 | 9328 | 267978 | 9 |
| | UPCL | 11 | 38663 | 1853270 | 1345384 | 55209941 | 30 | 1780125289 | 961 | 9939 | 1345384 | 14121657 | 8 |