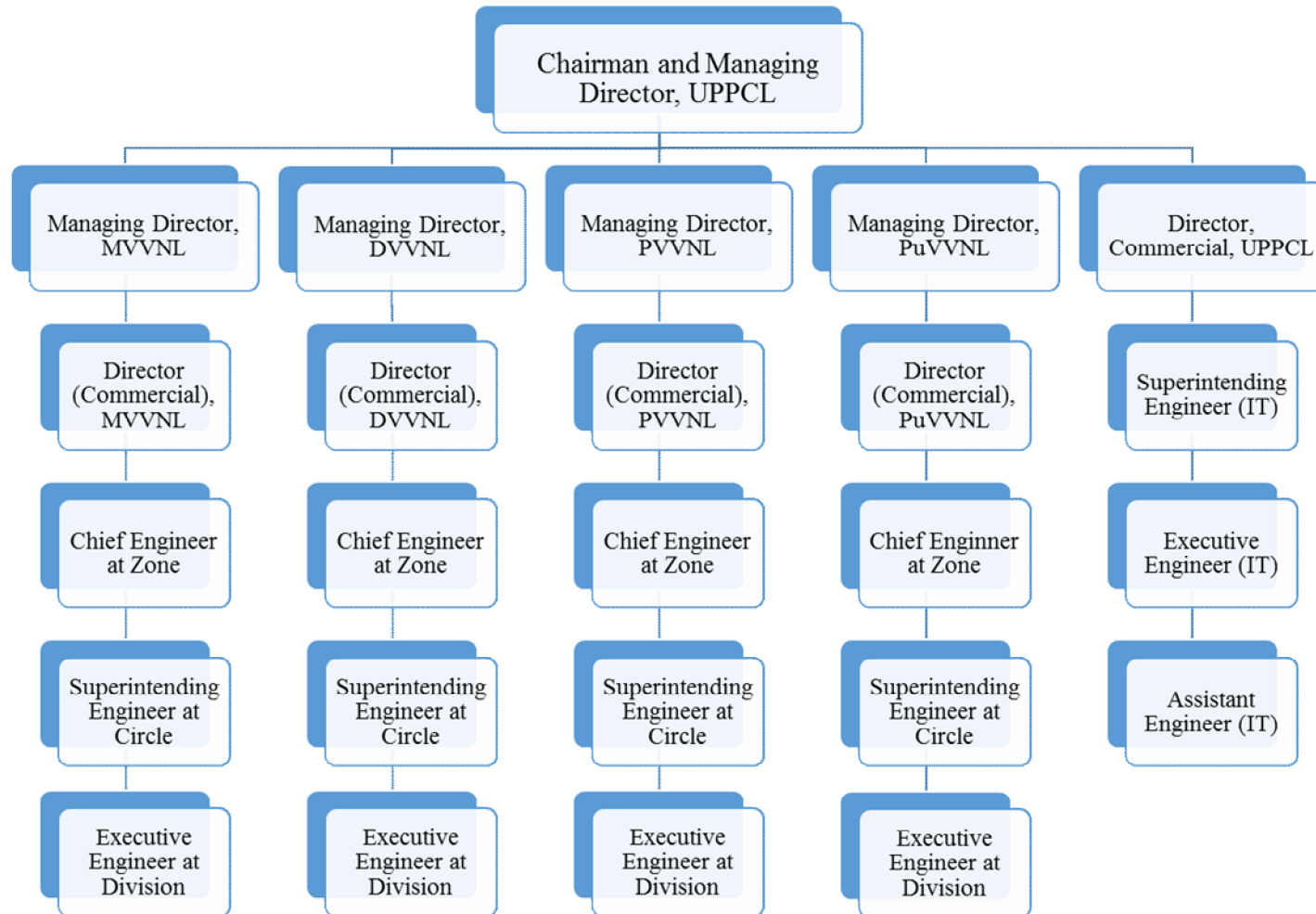


**Appendix-1.1
(Referred to in paragraph 1.3)
Organisational Chart**



Appendix-2.1

(Referred to in paragraph 2.2)

Statement showing expenses on components mentioned in paragraph at Data Centre and Disaster Recovery Centre along with cost of ATS support

| Data Centre | | | | | | |
|---|----------------------|------------------------|--|-----------------|---------------|---------------|
| Name of Software/ Hardware | Qty as per BOM | Cost of acquisition | Cost of Annual Technical support (ATS) | | | |
| | | | 2014-15 | 2015-16 | 2016-17 | 2017-18 |
| DC Software | | | (₹ In lakh) | | | |
| Energy Audit Software | 1 | 567.98 | 138.17 | 138.17 | 138.17 | 138.17 |
| GIS Application software | 1 | 227.82 | 55.42 | 55.42 | 55.42 | 55.42 |
| GIS based Integrated Network Analysis | 1 | 265.71 | 64.64 | 64.64 | 64.64 | 64.64 |
| Asset Management System Software | 1 | 419.72 | 92.34 | 92.34 | 92.34 | 92.34 |
| DC Hardware | | | | | | |
| Database Server for GIS in cluster fail over Mode | 2 | 37.56 | 5.08 | 5.08 | 5.08 | 5.08 |
| GIS Application Server | 2 | 19.65 | 2.66 | 2.66 | 2.66 | 2.66 |
| Total (A) | | 1538.44 | 358.31 | 358.31 | 358.31 | 358.31 |
| Disaster Recovery Centre | | | | | | |
| DRC Software | | | | | | |
| GIS Application software | 1 | 227.82 | 55.42 | 55.42 | 55.42 | 55.42 |
| GIS based Integrated Network Analysis | 1 | 265.71 | | | | |
| Energy Audit Software | 0 | | 140.88 | 140.88 | | |
| DRC Hardware | | | | | | |
| Database Server for GIS in cluster fail over Mode | 2 | 37.56 | 5.08 | 5.08 | 5.08 | 5.08 |
| GIS Application Server | 2 | 19.56 | 2.66 | 2.66 | 2.66 | 2.66 |
| Total (B) | | 550.65 | 204.04 | 204.04 | 63.16 | 63.16 |
| Total cost of acquisition of software and Hardware | | 2,089.09 | | | | |
| Total cost of AMC/ ATS of software and Hardware | | | | 1,967.64 | | |

Appendix-2.2
(Referred to in paragraph 2.3 (ii))
Position of Sub-station, Feeder & DT and its availability in the IT system (March 2019)

| Division name | Sub station | | | Feeder | | | Distribution Transformer | | | |
|--------------------|---------------------|-------------------------|------------------------------------|---------------------|-------------------------|------------------------------------|--------------------------|-------------------------|------------------------------------|----------------------------------|
| | Actual availability | Mapped in the IT system | Data availability on the IT system | Actual availability | Mapped in the IT system | Data availability on the IT system | Actual availability | Mapped in the IT system | Data availability on the IT system | Percentage of availability of DT |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 {(10/9)*%} |
| EUDD- I, Gorakhpur | 10 | 5 | 3 | 50 | 30 | 13 | 615 | 524 | 69 | 13.17 |
| EDD- III, Jaunpur | 4 | 3 | 2 | 15 | 9 | 2 | 540 | 519 | 52 | 10.02 |
| EUDD, Basti | 7 | 3 | 1 | 22 | 11 | 1 | 394 | 220 | 40 | 18.18 |
| Bakshi ka Talab | 13 | 7 | 7 | 56 | 33 | 25 | 3,714 | 1,622 | 55 | 3.39 |
| EUDD, Kanpur Road | 5 | 4 | 3 | 40 | 29 | 17 | 356 | 305 | 3 | 0.98 |
| EUDD- II, Aligarh | 9 | 5 | 5 | 45 | 30 | 26 | 942 | 719 | 71 | 9.87 |
| EUDD-I, Ghaziabad | 16 | 13 | 13 | 98 | 81 | 70 | 2,427 | 714 | 178 | 24.93 |
| Total | 64 | 40 | 34 | 326 | 223 | 154 | 8,988 | 4,623 | 468 | 10.12 |

Appendix-3.1
(Referred to in paragraph 3.9)
Statement showing excess payment to the billing agency

(Amount in ₹)

| Month | Total billable consumers | Billed consumers | Payment made on the basis of billable consumers | Payment required to be made on the basis of billed consumers | Excess payment |
|---------------|--------------------------|--------------------|---|--|------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| DVVNL | | | | | |
| Apr-2018 | 26,81,443 | 25,44,692 | 77,49,370 | 73,54,160 | 3,95,210 |
| May-2018 | 27,30,612 | 26,42,952 | 78,91,469 | 76,38,131 | 2,53,337 |
| Jun-2018 | 27,88,248 | 27,03,973 | 80,58,037 | 78,14,482 | 2,43,555 |
| Jul-2018 | 28,47,649 | 26,53,709 | 82,29,706 | 76,69,219 | 5,60,487 |
| Aug-2018 | 29,91,665 | 28,31,474 | 86,45,912 | 81,82,960 | 4,62,952 |
| Sep-2018 | 32,86,943 | 31,30,677 | 94,99,265 | 90,47,657 | 4,51,609 |
| Oct-2018 | 35,75,146 | 33,09,617 | 1,03,32,172 | 95,64,793 | 7,67,379 |
| Nov-2018 | 37,45,439 | 35,77,716 | 1,08,24,319 | 1,03,39,599 | 4,84,719 |
| Dec-2018 | 38,60,961 | 37,28,590 | 1,11,58,177 | 1,07,75,625 | 3,82,552 |
| Jan-2019 | 39,18,650 | 38,14,605 | 1,13,24,899 | 1,10,24,208 | 3,00,690 |
| Feb-2019 | 39,53,528 | 38,85,318 | 1,14,25,696 | 1,12,28,569 | 1,97,127 |
| Mar-2019 | 39,87,124 | 37,44,589 | 1,15,22,788 | 1,08,21,862 | 7,00,926 |
| Total | 4,03,67,410 | 3,85,67,915 | 11,66,61,809 | 11,14,61,266 | 52,00,543 |
| PuVVNL | | | | | |
| Apr-2018 | 45,35,175 | 43,08,405 | 1,31,06,656 | 1,24,51,290 | 6,55,365 |
| May-2018 | 46,14,331 | 45,49,499 | 1,33,35,417 | 1,31,48,052 | 1,87,364 |
| Jun-2018 | 47,16,026 | 46,55,613 | 1,36,29,315 | 1,34,54,722 | 1,74,594 |
| Jul-2018 | 48,33,821 | 47,26,056 | 1,39,69,743 | 1,36,58,302 | 3,11,441 |
| Aug-2018 | 50,86,579 | 48,99,235 | 1,47,00,213 | 1,41,58,789 | 5,41,424 |
| Sep-2018 | 55,73,855 | 52,64,150 | 1,61,08,441 | 1,52,13,394 | 8,95,047 |
| Oct-2018 | 60,33,729 | 57,90,626 | 1,74,37,477 | 1,67,34,909 | 7,02,568 |
| Nov-2018 | 63,33,005 | 61,44,228 | 1,83,02,384 | 1,77,56,819 | 5,45,566 |
| Dec-2018 | 66,96,422 | 65,09,861 | 1,93,52,660 | 1,88,13,498 | 5,39,161 |
| Jan-2019 | 67,61,420 | 61,09,400 | 1,95,40,504 | 1,76,56,166 | 18,84,338 |
| Feb-2019 | 68,06,260 | 67,21,856 | 1,96,70,091 | 1,94,26,164 | 2,43,928 |
| Mar-2019 | 68,57,764 | 57,35,448 | 1,98,18,938 | 1,65,75,445 | 32,43,493 |
| Total | 6,88,48,387 | 6,54,14,377 | 19,89,71,838 | 18,90,47,550 | 99,24,289 |
| PVVNL | | | | | |
| Apr-2018 | 29,18,601 | 28,30,565 | 84,34,757 | 81,80,333 | 2,54,424 |
| May-2018 | 29,57,138 | 28,97,112 | 85,46,129 | 83,72,654 | 1,73,475 |
| Jun-2018 | 30,23,950 | 29,27,791 | 87,39,216 | 84,61,316 | 2,77,900 |
| Jul-2018 | 30,69,086 | 30,12,592 | 88,69,659 | 87,06,391 | 1,63,268 |
| Aug-2018 | 31,85,723 | 31,01,980 | 92,06,739 | 89,64,722 | 2,42,017 |
| Sep-2018 | 33,20,851 | 32,41,255 | 95,97,259 | 93,67,227 | 2,30,032 |

| Month | Total billable consumers | Billed consumers | Payment made on the basis of billable consumers | Payment required to be made on the basis of billed consumers | Excess payment |
|--------------------|--------------------------|---------------------|---|--|--------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Oct-2018 | 34,59,532 | 33,63,648 | 99,98,047 | 97,20,943 | 2,77,105 |
| Nov-2018 | 35,20,638 | 34,54,846 | 1,01,74,644 | 99,84,505 | 1,90,139 |
| Dec-2018 | 35,72,727 | 35,18,647 | 1,03,25,181 | 1,01,68,890 | 1,56,291 |
| Jan-2019 | 36,06,056 | 35,52,970 | 1,04,21,502 | 1,02,68,083 | 1,53,419 |
| Feb-2019 | 36,45,243 | 36,00,869 | 1,05,34,752 | 1,04,06,511 | 1,28,241 |
| Mar-2019 | 36,77,130 | 36,37,619 | 1,06,26,906 | 1,05,12,719 | 1,14,187 |
| Total | 3,99,56,675 | 3,91,39,894 | 11,54,74,791 | 11,31,14,294 | 23,60,497 |
| MVVNL | | | | | |
| Apr-2018 | 34,20,440 | 33,51,071 | 98,85,072 | 96,84,595 | 2,00,476 |
| May-2018 | 34,84,577 | 34,31,818 | 1,00,70,428 | 99,17,954 | 1,52,474 |
| Jun-2018 | 35,67,259 | 35,17,206 | 1,03,09,379 | 1,01,64,725 | 1,44,653 |
| Jul-2018 | 36,63,337 | 35,39,737 | 1,05,87,044 | 1,02,29,840 | 3,57,204 |
| Aug-2018 | 38,71,363 | 37,64,876 | 1,11,88,239 | 1,08,80,492 | 3,07,747 |
| Sep-2018 | 41,26,284 | 39,50,982 | 1,19,24,961 | 1,14,18,338 | 5,06,623 |
| Oct-2018 | 45,09,394 | 42,43,842 | 1,30,32,149 | 1,22,64,703 | 7,67,445 |
| Nov-2018 | 46,97,885 | 45,62,100 | 1,35,76,888 | 1,31,84,469 | 3,92,419 |
| Dec-2018 | 49,90,853 | 47,83,720 | 1,44,23,565 | 1,38,24,951 | 5,98,614 |
| Jan-2019 | 50,80,172 | 49,99,483 | 1,46,81,697 | 1,44,48,506 | 2,33,191 |
| Feb-2019 | 51,69,973 | 50,97,074 | 1,49,41,222 | 1,47,30,544 | 2,10,678 |
| Mar-2019 | 52,86,828 | 52,11,501 | 1,52,78,933 | 1,50,61,238 | 2,17,695 |
| Total | 5,18,68,365 | 5,04,53,410 | 14,98,99,575 | 14,58,10,355 | 40,89,220 |
| Grand Total | 20,10,40,837 | 19,35,75,596 | 58,10,08,013 | 55,94,33,464 | 2,15,74,549 |

Appendix-5.1
(Referred to in paragraph 5.3)

Statement showing loss due to incorrect categorisations of consumers in both the IT billing systems

| R-APDRP billing system | | | | | | | | | | |
|----------------------------------|--------------|--------------------|---------------|--------------------|---------------|--------------------|--------------|--------------------|--------------|---------------------|
| Particulars | MVVNL | | PUVVNL | | PAVVNL | | DVVNL | | Total | |
| | Cases | Amount | Cases | Amount | Cases | Amount | Cases | Amount | Cases | Amount |
| LMV1 to 4B | 72 | 27,98,292 | 35 | 13,69,186 | 90 | 20,39,767 | 46 | 31,79,914 | 243 | 93,87,159 |
| LMV2 to 4B | 440 | 86,17,249 | 375 | 18,41,517 | 369 | 70,22,644 | 212 | 22,29,655 | 1,396 | 1,97,11,065 |
| LMV2 to HV1 | 125 | 2,48,03,965 | 60 | 1,83,38,217 | 63 | 74,21,323 | 27 | 50,59,305 | 275 | 5,56,22,810 |
| LMV 4A to HV1 | 98 | 3,21,05,184 | 65 | 1,31,85,000 | 63 | 1,63,59,465 | 83 | 1,71,09,329 | 309 | 7,87,58,978 |
| LMV 4B to HV1 | 19 | 8,55,067 | 18 | 6,13,439 | 10 | 5,05,499 | 20 | 5,75,068 | 67 | 25,49,073 |
| TOTAL | 754 | 6,91,79,757 | 553 | 3,53,47,359 | 595 | 3,33,48,697 | 388 | 2,81,53,271 | 2,290 | 16,60,29,084 |
| Non-RAPDRP billing system | | | | | | | | | | |
| LMV1 to 4B | 180 | 3,03,168 | 2 | 3,762 | 3 | 7,257 | 9 | 1,58,850 | 194 | 4,73,037 |
| LMV2 to 4B | 241 | 9,53,354 | 370 | 26,72,253 | 260 | 14,96,117 | 122 | 18,01,698 | 993 | 69,23,422 |
| LMV2 to HV1 | 3 | 63,308 | 9 | 3,86,527 | 0 | 0 | 5 | 5,94,318 | 17 | 10,44,153 |
| LMV4A to HV1 | 19 | 6,68,058 | 10 | 6,37,533 | 7 | 4,20,019 | 19 | 31,69,912 | 55 | 48,95,522 |
| LMV 4B to HV1 | 4 | 87,618 | 7 | 6,01,247 | 4 | 37,120 | 5 | 91,039 | 20 | 8,17,024 |
| TOTAL | 447 | 20,75,506 | 398 | 43,01,322 | 274 | 19,60,513 | 160 | 58,15,817 | 1,279 | 1,41,53,158 |
| Grand Total | 1,201 | 7,12,55,263 | 951 | 3,96,48,681 | 869 | 3,53,09,210 | 548 | 3,39,69,088 | 3,569 | 18,01,82,242 |

Note: LMV 1-Domestic, LMV 2-Non-Domestic, LMV 4A-Public Institution, LMV 4B-Private Institution and HV 1-Non-industrial bulk load.

Appendix-6.1
(Referred to in paragraph 6.2)
Statement showing age-wise analysis of consumer arrear of both the IT billing systems

(₹ in crore)

| Particular | R-APDRP billing system | | | Non R-APDRP billing system | | | Total | | |
|--|------------------------|------------------|---------------|----------------------------|------------------|-----------------|--------------------|------------------|----------------|
| | Number | Arrear | Security | Number | Arrear | Security | Number | Arrear | Security |
| Arrear of consumers having last payment date in the data | 52,10,071 | 10,068.62 | 739.78 | 52,85,117 | 5,706.77 | 480.07 | 1,04,95,188 | 15,775.39 | 1219.85 |
| A. Less than 3 months | 37,72,522 | 3,353.64 | 642.64 | 26,59,086 | 1,357.32 | 314.08 | 64,31,608 | 4,710.96 | 956.72 |
| B. More than 3 months | 14,37,549 | 6,714.98 | 97.15 | 26,26,031 | 4,349.45 | 165.98 | 40,63,580 | 11,064.43 | 263.13 |
| 3 months to 6 months | 4,91,104 | 785.12 | 35.99 | 7,91,745 | 745.42 | 46.59 | 12,82,849 | 1,530.54 | 82.58 |
| 6 months to 9 months | 2,10,898 | 377.49 | 14.17 | 4,52,044 | 541.07 | 26.95 | 6,62,942 | 918.56 | 41.12 |
| 9 months to 12 months | 1,20,867 | 249.25 | 8.99 | 3,68,080 | 545.17 | 33.78 | 4,88,947 | 794.42 | 42.77 |
| More than 12 months | 6,14,680 | 5,303.12 | 37.99 | 10,14,162 | 2,517.80 | 58.66 | 16,28,842 | 7,820.92 | 96.65 |
| Arrear of consumers not having last payment date in the data | 24,461 | 31.20 | 0.04 | 1,20,95,654 | 38,593.54 | 849.02 | 1,21,20,115 | 38,624.74 | 849.06 |
| Total | 52,34,532 | 10,099.82 | 739.82 | 1,73,80,771 | 44,300.31 | 1,329.09 | 2,26,15,303 | 54,400.13 | 2068.91 |

Appendix-6.2
(Referred to in paragraph 6.5)
Rebate to be allowed to prepaid metered Government consumers

| Year | No. of consumers under LMV 4(A) Category | Energy charges billed | | | Rebate due at the rate of 1.25 per cent of Energy charges due to prepaid metering (₹ in crore) |
|--------------|--|-----------------------|--------------------|-----------------------------|--|
| | | Rate/unit (₹) | Units Sold (in MU) | Energy Charges (₹ in crore) | |
| Apr-2017 | 65,975 | 6.62 | 99.75 | 63.61 | 0.79 |
| May-2017 | 66,363 | 6.68 | 202.33 | 129.45 | 1.62 |
| Jun-2017 | 66,698 | 6.62 | 309.10 | 194.69 | 2.43 |
| Jul-2017 | 66,719 | 6.60 | 409.18 | 255.53 | 3.19 |
| Aug-2017 | 66,938 | 6.59 | 509.00 | 316.41 | 3.95 |
| Sep-2017 | 66,848 | 6.59 | 615.12 | 381.72 | 4.77 |
| Oct-2017 | 68,046 | 6.56 | 717.76 | 442.90 | 5.54 |
| Nov-2017 | 67,396 | 6.57 | 807.99 | 499.01 | 6.24 |
| Dec-2017 | 67,005 | 6.57 | 895.16 | 552.49 | 6.91 |
| Jan-2018 | 9,83,132 | 0.85 | 8,751.16 | 553.28 | 6.92 |
| Feb-2018 | 9,86,209 | 0.87 | 9,630.57 | 621.79 | 7.77 |
| Mar-2018 | 10,11,383 | 0.89 | 10,537.25 | 695.70 | 8.70 |
| Apr-2018 | 67,250 | 7.13 | 92.00 | 59.63 | 0.75 |
| May-2018 | 68,651 | 7.33 | 187.10 | 123.73 | 1.55 |
| Jun-2018 | 68,167 | 7.65 | 288.48 | 196.35 | 2.45 |
| Jul-2018 | 68,930 | 7.73 | 385.09 | 265.21 | 3.32 |
| Aug-2018 | 69,364 | 7.75 | 476.43 | 329.38 | 4.12 |
| Sep-2018 | 68,894 | 7.78 | 567.25 | 394.40 | 4.93 |
| Oct-2018 | 68,955 | 7.77 | 651.23 | 452.14 | 5.65 |
| Nov-2018 | 68,580 | 7.77 | 724.11 | 501.88 | 6.27 |
| Dec-2018 | 68,876 | 7.78 | 799.05 | 553.71 | 6.92 |
| Jan-2019 | 69,070 | 7.80 | 875.75 | 607.41 | 7.59 |
| Feb-2019 | 67,805 | 7.84 | 944.73 | 656.99 | 8.21 |
| Mar-2019 | 69,794 | 8.54 | 1,050.98 | 801.66 | 10.02 |
| Total | | | 40,526.57 | 9,649.07 | 120.61 |

Appendix-6.3
(Referred to in paragraph 6.6)

Statement showing year wise total number of unmetered consumers with contracted load and consumption

| Year/ Category | Particulars | LMV-1 | LMV-2 | LMV-3 | LMV-5 | LMV-8 | LMV-9 | LMV-10 | Total |
|---------------------------|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|
| 2014-15 | Total No. of consumers | 1,33,08,124 | 12,20,365 | 7,494 | 9,50,666 | 32,275 | 6,367 | 86,950 | 1,56,12,241 |
| | No. of unmetered consumers (UM) | 56,71,510 | 1,10,978 | 6,582 | 8,56,688 | 29,080 | 476 | 86,950 | 67,62,264 |
| | Contracted Load (kW) | 85,63,891 | 2,20,907 | 89,522 | 47,70,729 | 4,75,112 | 1,316 | 2,63,295 | 1,43,84,772 |
| | Unit Sold (Assessed) | 8,605.46 | 214.98 | 292.35 | 6,528.93 | 2,400.42 | 4.27 | 410.02 | 18,456.43 |
| | Percentage of UM to Total Consumers | 42.62 | 9.09 | 87.83 | 90.11 | 90.10 | 7.48 | 100.00 | 43.31 |
| 2015-16 | Total No. of consumers | 1,39,79,931 | 12,17,382 | 6,958 | 10,11,852 | 32,980 | 7,353 | 88,104 | 1,63,44,560 |
| | No. of unmetered consumers (UM) | 59,24,251 | 1,03,248 | 6,231 | 9,06,311 | 30,136 | 402 | 88,104 | 70,58,683 |
| | Contracted Load (kW) | 85,46,249 | 2,17,458 | 1,05,999 | 48,89,521 | 5,78,749 | 1,999 | 2,81,028 | 1,46,21,003 |
| | Unit Sold (Assessed) | 9,683.62 | 232.89 | 375.88 | 7,049.50 | 2,538.29 | 3.97 | 455.96 | 20,340.11 |
| | Percentage of UM to Total Consumers | 42.38 | 8.48 | 89.55 | 89.57 | 91.38 | 5.47 | 100.00 | 43.19 |
| 2016-17 | Total No. of consumers | 1,46,99,736 | 12,68,014 | 5,449 | 10,65,735 | 33,397 | 8,534 | 88,188 | 1,71,69,053 |
| | No. of unmetered consumers (UM) | 59,56,932 | 89,394 | 4,702 | 9,47,083 | 29,983 | 460 | 88,188 | 71,16,742 |
| | Contracted Load (kW) | 87,44,395 | 1,80,908 | 1,14,501 | 52,51,041 | 5,32,830 | 2,440 | 2,96,014 | 1,51,22,129 |
| | Unit Sold (Assessed) | 12,182.90 | 259.19 | 391.38 | 8,903.51 | 3,261.09 | 6.33 | 503.30 | 25,507.70 |
| | Percentage of UM to Total Consumers | 40.52 | 7.05 | 86.29 | 88.87 | 89.78 | 5.39 | 100.00 | 41.45 |
| 2017-18 | Total No. of consumers | 1,64,87,271 | 12,85,816 | 3,945 | 11,39,814 | 33,064 | 32,029 | 89,993 | 1,90,71,932 |
| | No. of unmetered consumers (UM) | 50,87,209 | 80,498 | 727 | 1,01,794 | 7,196 | 29,945 | 89,993 | 53,97,362 |
| | Contracted Load (kW) | 74,57,438 | 1,65,575 | 77,831 | 7,88,330 | 61,694 | 1,18,791 | 3,11,556 | 89,81,215 |
| | Unit Sold (Assessed) | 12,970.01 | 271.84 | 271.46 | 2,091.78 | 138.63 | 126.26 | 544.48 | 16,414.47 |
| | Percentage of UM to Total Consumers | 30.86 | 6.26 | 18.43 | 8.93 | 21.76 | 93.49 | 100.00 | 28.30 |
| 2018-19 | Total No. of consumers | 1,75,01,853 | 9,73,493 | 4,573 | 10,30,809 | 27,340 | 8,543 | 61,737 | 1,96,08,348 |
| | No. of unmetered consumers (UM) | 29,76,650 | 60,979 | 3,073 | 9,47,623 | 24,470 | 716 | 61,737 | 40,75,248 |
| | Contracted Load (kW) | 40,61,189 | 1,23,828 | 81,355 | 61,20,726 | 4,18,462 | 3,220 | 2,83,936 | 1,10,92,716 |
| | Unit Sold (Assessed) | 8,642.67 | 235.78 | 381.29 | 11,592.72 | 2,714.74 | 16.00 | 535.70 | 24,118.89 |
| | Percentage of UM to Total Consumers | 17.01 | 6.26 | 67.20 | 91.93 | 89.50 | 8.38 | 100.00 | 20.78 |