

## 10. ELECTRICITY

### 10.1 No.of Power Station

Year : 2007-2008

| Sl. No | Name of the Power Stations | Year of Operation | Installed Capacity (M.U.) | Generation (M.U.) | Station Consumption (M.U.) | Net Unit Sent out (M.U.) |
|--------|----------------------------|-------------------|---------------------------|-------------------|----------------------------|--------------------------|
| 1      | 2                          | 3                 | 4                         | 5                 | 6                          | 7                        |
| 1      | Hydro                      | -                 | -                         | -                 | -                          | -                        |
| 2      | Thermal                    | -                 | -                         | -                 | -                          | -                        |
| 3      | Gas Turbine                | -                 | -                         | -                 | -                          | -                        |
| 4      | Wind Mills                 | -                 | -                         | -                 | -                          | -                        |

Source : 1. Superintending Engineer, TNEB., Velloer.6.  
2. Superintending Engineer, TNEB. Tirupathur.

### 10.2 QUANTUM OF POWER PURCHASED

Year : 2007-2008

| Power Purchased Sectors Name | Power Purchased in M.U. |
|------------------------------|-------------------------|
| (1)                          | (2)                     |
| NOT APPLICABLE               |                         |
|                              |                         |

### 10.3 POWER CONSUMPTION SECTOR WISE

Year : 2007-2008

| Sl.No | Sectors                          | Consumption in M.U |                | % of Consumption |            |
|-------|----------------------------------|--------------------|----------------|------------------|------------|
|       |                                  | Vellore            | Tirupathur     | Vellore          | Tirupathur |
| 1     | Industries                       | 147                | 105.145        | 18               | 16.87      |
| 2     | Agriculture & Huts               | 900                | 124.909        | 22               | 20.01      |
| 3     | Domestic                         | 1585               | 200.097        | 15               | 32.06      |
| 4     | Commercial                       | 318                | 41.923         | 21               | 6.72       |
| 5     | Public lightening & Public Works | 672                | 32.944         | 12               | 5.28       |
| 6     | Miscellaneous                    | 43                 | 1.667          | 2                | 0.26       |
| 7     | Railway Line                     | 170                | 117.305        | 10               | 18.80      |
|       | <b>Total</b>                     | <b>3835</b>        | <b>623.990</b> | <b>100</b>       | <b>100</b> |

### 10.4 PEAK DEMAND AND ENRGY OUTPUT

Year : 2007-2008

| Power Demond                 | Details    |             |
|------------------------------|------------|-------------|
|                              | Vellore    | Tirupathur  |
| (1)                          | (2)        | (3)         |
| 1. Instantaneous Peak demand | 246.44 M.W | 242.043 MVA |
| 2. Sustained peak demand     | 218.29 M.W | 194.141 MVA |

### 10.5 REVENUE FROM ELECTRIC SCHEMES AND COST PER UNIT

Year : 2007-2008

| Sector        | Cost per unit in Rs. |            | Income in Rs.in '000' |           |
|---------------|----------------------|------------|-----------------------|-----------|
|               | Vellore              | Tirupathur | Vellore               | Tirupthur |
| 1. Government | 2.30                 | ---        | 32087                 | ---       |
| 2. Public     |                      |            |                       |           |
| 3. Private    |                      |            |                       |           |
| <b>Total</b>  |                      |            |                       |           |

Source : 1. S.E., Vellore Electrical Division, Vellore.6.  
2. S.E., Tirupathur Electrical Division, Tirupathur.

## 10.6 TRANSMISSION AND DISTRIBUTION OF ELECTRICITY

Year : 2007-2008

| SI.No | Item                  | Unit | Achivement |             |
|-------|-----------------------|------|------------|-------------|
|       |                       |      | Vellore    | Thirupathur |
| (1)   | (2)                   | (3)  | (4)        | (5)         |
| 1     | H.T. Lines            | KM   | 0          | 53.15       |
| 2     | L.T. Lines            | KM   | 67         | 116.30      |
| 3     | Distric Trans formers | KVA  | 242 K.M    | 16245       |
| 4     | Domestic              | Nos  | 15002      | 11085       |
| 5     | Industrial            | ..   | 4674       | 197         |
| 6.    | Commercial            | ..   | 763        | 2100        |
| 7     | Public Water Works    | ..   | 2707       | 828         |
| 8     | Public Street Lights  | ..   | 664        | 2267        |
| 9     | Agricultual           | ..   | 161        | 693         |
| 10    | Huts                  | ..   | 11         | 1788        |
| 11    | Others                | ..   | 1986       | 107         |

## 10.7 CAPACITY OF TRANSFORMERS

Year : 2007-2008

| SI.No | Name of the SUB STATION | No. of Transformer | Voltage Ratio | Capacity in MVA | Aggregate capacity in MVA |
|-------|-------------------------|--------------------|---------------|-----------------|---------------------------|
| (1)   | (2)                     | (3)                | (4)           | (5)             |                           |
| 1     | Thirupattur             | 3                  | 110 / 33 KV   | 16              | 48                        |
|       |                         | 1                  | 110 / 11 KV   | 16              | 16                        |
| 2     | Singarapet 230 KV       | 3                  | 230 / 110 KV  | 50              | 150                       |
| 3     | Singarapet 110 KV       | 2                  | 110 / 33 KV   | 16              | 32                        |
|       |                         | 1                  | 110 / 11 KV   | 8               | 8                         |
| 4     | Vaniyambadi             | 2                  | 110 / 11 KV   | 10              | 20                        |
| 5     | Alangayam               | 1                  | 110 / 33 KV   | 10              | 10                        |
|       |                         | 1                  | 110 / 11 KV   | 7.5             | 7.5                       |
| 6     | Ambur                   | 2                  | 110 / 11 KV   | 10              | 20                        |
| 7     | Anaicut                 | 1                  | 110 / 11 KV   | 10              | 10                        |
| 8     | Vadakahipatty           | 1                  | 110 / 33 KV   | 16              | 16                        |
|       |                         | 1                  | 110 / 11 KV   | 10              | 10                        |
| 9     | Vinnamangalam           | 1                  | 230 / 110 Kv  | 50              | 50                        |
|       |                         | 1                  | 230 / 110 KV  | 100             | 100                       |
|       |                         | 1                  | 110 / 11 KV   | 10              | 10                        |
| 10    | Pakkam                  | 2                  | 110 / 33 KV   | 16              | 26                        |
|       |                         | 2                  | 110 / 11 KV   | 10              |                           |
| 11    | Paravakal               | 1                  | 110 / 11 KV   | 10              | 10                        |
| 12    | Pernamput               | 1                  | 110 / 11 KV   | 10              | 10                        |
| 13    | Chinnavarigam           | 2                  | 110 / 11 KV   | 10              | 20                        |
| 14    | Natrampally             | 2                  | 33 / 11 KV    | 8               | 13                        |
|       |                         |                    |               | 5               |                           |
| 15    | Koratty                 | 1                  | 33 / 11 KV    | 8               | 8                         |
| 16    | Kandili                 | 1                  | 33 / 11 KV    | 8               | 8                         |
| 17    | Kethandapatty           | 1                  | 33 / 11 KV    | 8               | 8                         |
| 18    | Sedukarai               | 2                  | 33 / 11 KV    | 8               | 16                        |
| 19    | Singarapet              | 1                  | 33 / 11 KV    | 8               | 8                         |
| 20    | Odugathur               | 2                  | 33 / 11 KV    | 8               | 8                         |
|       |                         |                    |               | 5               | 5                         |
| 21    | Kurusilapet(UM)         | 1                  | 33 / 11 KV    | 8               | 8                         |
| 22    | Paradarami(UM)          | 1                  | 33 / 11 KV    | 8               | 8                         |
| 23    | Kavaloor(LT)            | 1                  | 33 / 11 KV    | 0.5             | 0.5                       |
| 24    | Vadapudupet(LT)         | 1                  | 33 / 11 KV    | 1               | 1                         |
| 25    | Thirupattur Town(UM)    | 1                  | 33 / 11 KV    | 8               | 8                         |

## **10.8 RURAL ELETRIFICATION**

Year : 2007-2008

| Electrified during the year |          |        |                      | Electrified upto the year |          |        |                      |
|-----------------------------|----------|--------|----------------------|---------------------------|----------|--------|----------------------|
| Towns                       | Villages | Hamlet | Agricultural Pumpset | Towns                     | Villages | Hamlet | Agricultural Pumpset |
| (1)                         | (2)      | (3)    | (4)                  | (5)                       | (6)      | (7)    | (8)                  |
| Vellore                     | 100%     | 100%   | 762                  | All                       | All      | All    | 68259                |
| Tirupathur                  | 100%     | 100%   | 693                  | All                       | All      | All    | 62918                |

## **10.9 NAME AND ADDRESS OF THE FAULT REPORT OFFICES**

Year : 2007-2008

| SI.No | Name of the Block/<br>Municipality | Name Of the Station / Sub Station | No. of fault reported |
|-------|------------------------------------|-----------------------------------|-----------------------|
| (1)   | (2)                                | (3)                               | (4)                   |
| 1.    | Vellore Municipality               | Vellore 110 / 11 KV SS            | 510                   |
| 2.    | Arakkonam Municipality             | Mosur 110 / 33 - 11 KV SS         | 368                   |
|       |                                    | Arakkonam 33 / 11 KV SS           | 256                   |
| 3.    | Arcot Municipality                 | Arcot 33 / 11 KV SS               | 572                   |
| 4.    | Ranipet Municipality               | Ranipet 33 / 11 KV SS             | 849                   |
| 5.    | Thirupattur Block                  | Thirupattur                       | --                    |
|       | Thirupattur Municipality           | Thirupattur                       | 8                     |
|       | Thirupattur                        | Kurusilapatu                      | 7                     |
| 6.    | Kandili Block                      | Koratty                           | 4                     |
| 7.    | Kandili Block                      | Kandili                           | 6                     |
| 8.    | Vaniyambadi Municipality           | Vaniyambadi                       | --                    |
| 9.    | Jolarpet Block                     | Kethandapatty                     | 8                     |
| 10.   | Natrampally Block                  | Natrampally                       | 8                     |
| 11.   | Alangayam Block                    | Alangayam                         | --                    |
| 12.   | Pernampet Block                    | Vinnamangalam                     | --                    |
| 13.   | Madhanur Block                     | Vadakathipatty                    | --                    |
| 14.   | Ambur Municipality                 | Ambur                             | --                    |
| 15.   | Anaicut Block                      | Anaicut                           | --                    |
| 16.   | Anaicut Block                      | Odugathur                         | 6                     |
| 17.   | Gudiyatham Block                   | Pakkam                            | --                    |
| 18.   | Gudiyatham Municipality            | Sedukkarai                        | 3                     |
| 19.   | Gudiyatham Block                   | Paratharami                       | 5                     |
| 20.   | Prenampet Block                    | Prenampet                         | --                    |
| 21.   | Prenampet Block                    | Chinnavarigam                     | --                    |

Source : S.E., Vellore Electrical Division, Vellore.6.  
S.E., Tirupathur Electerical Division, Tirupathur.