

**SALIENT DETAILS**

| <b>Population and Requirement</b> |  |   |  |                                 |
|-----------------------------------|--|---|--|---------------------------------|
| Year                              | Population   | Require- ment @ 135 lpcd with 10% system loses (in MLD) | Existing Supply (in MLD)                     | Balance to be supplied (in MLD) |
| <b>Population and Requirement</b> |  |   |  |                                 |
| Base Year - 2010                  | 149500   | 22.2  | 14.83  | 7.37                            |
| Intermediate - 2025               | 181000   | 26.86   | 14.83  | 12.03                           |
| Ultimate - 2040                   | 212600   | 31.57   | 14.83  | <b>16.74</b>                    |
| <b>Head Works</b>                 | Infiltration Gallery with collection well - 1 No:                                    |   |  |                                 |
| <b>Samudhiram</b>                 | Borewells: 7 Nos.  |   |  |                                 |
|                                   | Openwell: 1 No.  |   |  |                                 |
| <b>Scheme I &amp; II</b>          | Offtake well in Sathanur pick up dam with treatment plant at Olagalapadi - 2 schemes |   |  |                                 |
|                                   | <b>Existing</b>  |   | <b>Proposed</b>                              |                                 |
| <b>Raw Water Pumpsets:</b>        |  |   |  |                                 |
| <b>Samudram</b>                   | Openwell Sub Pumpset   |   | Openwell Sub Pumpset                         |                                 |
| <b>Scheme I</b>                   | 4200 Lpm x 18m - 2 Nos.  |   | Turbine Pumpset<br>3500 lpm x 23m - 2 Nos    |                                 |
| <b>Scheme II</b>                  | Turbine Pumpset  |   | Turbine Pumpset                              |                                 |
|                                   | 8520 Lpm x 16m - 2 Nos.  |   | 16300 Lpm x 20m - 2 Nos.                     |                                 |
| <b>Raw Water Pumping Main:</b>    |  |   |  |                                 |
| Olagalapadi - Scheme I            | 250mm CI LA - 595m   |   | ---  |                                 |
| Olagalapadi - Scheme II           | 500mm CI LA - 660m   |   | ---  |                                 |
| <b>Treatment Plant</b>            |  |   |  |                                 |
| Olagalapadi - Scheme I            | Capacity 5.76 MLD  |   | -  |                                 |
| Olagalapadi - Scheme II           | Capacity 12.0MLD   |   | Enhanced capacity - 28.15 MLD                |                                 |
| <b>Clear Water Pumpset</b>        |  |   |  |                                 |
| Samudhiram                        | Openwell Sub Pumpset 2500 Lpm x 40m  |   | ---  |                                 |
| Olagalapadi - Scheme I            | Turbine Pumpset<br>4000 Lpm x 91.4m - 2 Nos.   |   | Turbine Pumpset<br>3500 Lpm x 52m - 2 Nos.   |                                 |
| Olagalapadi - Scheme II           | HSC Pumpset<br>8210 Lpm x 49m - 2 Nos.   |   | HSC Pumpset<br>8000 Lpm x 49m - 2 Nos.       |                                 |
|                                   |  |   | HSC Pumpset<br>7959 Lpm x 60m - 2 Nos.       |                                 |
|                                   | <b>Existing</b>  |   | <b>Proposed</b>                              |                                 |
| <b>Pumping Main</b>               |  |   |  |                                 |
| Samudhiram                        | 200mm CI LA - 3.0 Km   |   |  |                                 |
| Olagalapadi - Scheme I            | 350mm CI LA 23.48 Km   |   |  |                                 |
| Olagalapadi - Scheme II           | 600 / 500mm PSC Pipe - 21.83 Km  |   | 450mm DI K7- 21.92 km<br>250mm DI K7 - 150 m |                                 |
| <b>Break Pressure Tank</b>        |  |   |  |                                 |

|  |  |                                   |
|--|--|-----------------------------------|
| Olagalapadi – Scheme I   | Direct Pumping   | ---                               |
| Olagalapadi – Scheme II  | 7.00 LL capacity @ Sirupakkam  | ---                               |
| <b>Booster Stations</b>  |  |                                   |
| Somavarakulam  | 4.75 LL  |                                   |
| Anna Nagar   | 3.50 LL  | 6.80 LL                           |
| <b>Booster Pumpsets</b>  |  |                                   |
| <b>Somavarkulam</b>  | 10 HP - 2 Nos to VOC Nagar   | 4076 lpm x 55m to Paigopuram      |
|  | 25 HP - 2 Nos to Paigopuram  | 1036 lpm x 30m to VOC Nagar       |
| <b>Anna Nagar</b>  | 7097 lpm x 31m   | 7527 lpm x 36m                    |
| <b>Feeder Main (Proposed)</b>  |  |                                   |
| (a) From Somavarakulam   | To New 5.0 LL SR at Pachaiamman koil - 200mm DI K7 - 2020 m              |                                   |
| (b) From Anna Nagar (Proposed)   | To New 4.20 LL SR at Thenimalai - 200mm DI K7 - 860 m                    |                                   |
|  | To New 2.0 LL SR at Municipal High School - 250/150/100mm DI K7 - 2660 m |                                   |
|  | To Existing 1.50 LL SR at Thamaraikulam - 350/300/150mm DI K7 - 695 m    |                                   |
|  | To existing 3.0 LL SR at Poomanthakulam - 300mm DI K7 - 1183 m           |                                   |
|  | To existing 8.0 LL SR at Poomanthakulam - 150mm DI K7 - 270 m            |                                   |
|  | <b>Existing</b>  | <b>Proposed</b>                   |
| <b>Service Reservoirs</b>  | 6.75 LL GLSR - 2 Nos   | 5.00 LL SR - 1 No.                |
|  | 10.00 LL GLSR - 1 No   | 4.20 LL SR - 1 No                 |
|  | 1.50 LL SR - 1 No  | 2.0 LL SR - 1 No                  |
|  | 3.00 LL SR - 1 No  |                                   |
|  | 8.0 LL SR - 1 No   |                                   |
|  | 10.00 LL SR - 1 No   |                                   |
|  | 18.00 LL SR - 1 No   |                                   |
| <b>Distribution System</b>   | 67.46 Km   | Existing to be replaced -21.22 Km |
| <b>Administrative Sanction vide G.O. (Ms). No.134 (MA 2) Dated 14.7.2010 for Rs.36.66 Cr. and A.M.Cost Rs.2.12 Cr.</b> |  |                                   |
|  | Rs. in Crores  | Percentage                        |
| ULB & Public Contribution  | 6.17   | 16.84                             |
| SMIF - TN Loan from TNUDF  | 15.49  | 42.25                             |
| Capital Grant from KfW Grant Fund-I  | 11.00  | 30.00                             |
| Grant from entertainment Tax Compensation Fund   | 4.00   | 10.91                             |
| <b>Total</b>   | <b>36.66</b>   | <b>100.00</b>                     |