

**CWSS to Coonoor Municipality in , Wellington Military station and pasteur institute of India, Coonoor in Nilgiris district.**

**SALIENT DETAILS**

**I. POPULATION AND REQUIREMENTS :**

| SI No     | Name of Beneficiary                 | Population as per   |                |                  |                 | Requirement in MLD |                  |                 |
|-----------|-------------------------------------|---------------------|----------------|------------------|-----------------|--------------------|------------------|-----------------|
|           |                                     | 2011 Census         | Base Year 2017 | Inter. Year 2032 | Ulti. Year 2047 | Base Year 2017     | Inter. Year 2032 | Ulti. Year 2042 |
| 1         | Coonoor Municipality                | 45494               | 51000          | 54700            | 58700           | 5.11 MLD           | 5.59 MLD         | 6.1 MLD         |
| 2         | Wellington Military station         | Bulk supply (29006) |                |                  |                 | 6.35 MLD           | 6.35 MLD         | 6.35 MLD        |
| 3         | Pasteur Institute of India, Coonoor | Bulk supply         |                |                  |                 | 0.29 MLD           | 0.29 MLD         | 0.29 MLD        |
|           | <b>TOTAL</b>                        | <b>45494</b>        | <b>51000</b>   | <b>54700</b>     | <b>58700</b>    |                    |                  |                 |
| <b>II</b> | Net Requirement (MLD)               |                     |                |                  |                 | <b>11.75</b>       | <b>12.23</b>     | <b>12.74</b>    |
|           | Add for Industrial demand @ 10%     |                     |                |                  |                 | -                  | -                | -               |
|           | Sub Total                           |                     |                |                  |                 | 11.75              | 12.23            | 12.74           |
|           | Add for line loss @ 10%             |                     |                |                  |                 | 1.175              | 1.223            | 1.274           |
|           | Sub Total                           |                     |                |                  |                 | 12.93              | 13.45            | 14.01           |
|           | Add for 5% for treatment loss       |                     |                |                  |                 | 0.00               | 0.00             | 0.00            |
|           | <b>TOTAL REQUIREMENT in MLD</b>     |                     |                |                  |                 | <b>12.93</b>       | <b>13.45</b>     | <b>14.01</b>    |

|     |  |   |   |                 |            |
|-----|--|---|---|-----------------|------------|
| III | Hours of Pumping                               | : | 23 Hours  |                 |            |
|     | Raw water pumpset upto B.S.R at Old Aruvankadu | : | 23 Hours  |                 |            |
|     | Gravity main designed for                      | : | 24 Hours  |                 |            |
|     | Urban Feeders                                  | : | 23 Hours  |                 |            |
|     | Booster sump at E.B. Colony                    | : | 5.55 LL Capacity - 1No at LS 2160m                    |                 |            |
|     | Booster sump at V.O.C. Nagar                   | : | 5.55 LL Capacity - 1No at LS 2055.50 m                |                 |            |
|     | Booster sump at Anna Nagar                     | : | 5.55 LL Capacity - 1No at LS 16180 m                  |                 |            |
|     | Booster sump at Anna Colony                    | : | 5.55 LL Capacity - 1No at LS 18760 m                  |                 |            |
|     | Booster sump at Gourka Hill                    | : | 2.65 LL Capacity -                                    |                 |            |
| A)  | Raw water pumping main                         |   | <b>20410.00 m</b><br>(DI 450mm dia K9 pipes)          |                 |            |
|     |  |   | <b>8050.00 m</b><br>(DI 350mm dia K9 pipes)           |                 |            |
| B)  | Raw water Gravity Main                         | : | <b>14.310 KM</b><br>(GI 65mm to 50mm )                |                 |            |
|     |  |   | 250mm dia DI pipe                                     | 6600            | m          |
|     |  |   | 200mm dia DI pipe                                     | 4950.00         | m          |
|     |  |   | 100mm dia GI pipe Branch gravity to Vanarpet SSF      | 2460.00         | m          |
|     |  |   | 80mm dia GI pipe Branch gravity to Mount pleasant SSF | 150.00          | m          |
|     |  |   | 50mm dia GI pipe Branch Gravity to PII                | 150.00          | m          |
|     |  |   | <b>TOTAL</b>  | <b>14310.00</b> | <b>m</b>   |
| D)  | Pumpsets                                       | : | Vertical Turbine                                      | 5               | Nos        |
|     |  |   | <b>Total pumpsets</b>                                 | <b>5</b>        | <b>Nos</b> |
| E)  | Pump Rooms                                     |   | Sump Cum Pump House                                   | 4               | Nos        |
|     |  |   | Pump room @ Headworks Emerald Dam                     | 1               | No         |
|     |  |   | <b>Total Pump rooms</b>                               | <b>5</b>        | <b>Nos</b> |