

## **SALIENT DETAILS**

### **CWSS TO VANAPURAM – LADAVARAM AND 88 OTHER HABITATIONS IN THIRUVANNAMLAI DISTRICT**

|     |                                      |   |  |
|-----|--------------------------------------|---|--|
| 1.  | Scheme Cost                          | : |  |
|     | a) Installation Cost                 | : | Rs.732.00Lakhs   |
|     | b) Annual Maintenance Cost           | : | Rs. 20.75 Lakhs  |
| 2.  | Administrative approval No. & Amount | : | B.P. MS NO.108/27.10.2005 for Rs.750 Lakhs   |
| 3   | Technical sanction No. & Amount      | : | CE/NR/VLR No.27/ 27.12.2005  |
| 4.  | Beneficiaries                        | : | As list enclosed   |
| 5.  | Populations                          | : |  |
|     | a) Present (2006)                    | : | 48848  |
|     | a) Intermediate (Year 2011)          | : | 53733  |
|     | b) Ultimate (2026)                   | : | 64479  |
| 6.  | Level of Service                     | : | 40 lpcd  |
| 7.  | Designed Qty                         |   | For balance requirement  |
|     | a) Present 2006                      | : | 1183423 Lit/Day  |
|     | a) Intermediate (Year 2011)          | : | 1301770Lit/Day   |
|     | b) Ultimate (Year ) (2026)           | : | 1562109 Lit/Day  |
| 8.  | Year of completion & Commissioning   | : |  |
| a.  | Original Scheme                      |   | 2009   |
| b.  | Improvement Scheme                   | : |  |
| 9.  | Head works with source details       | : | Off takewell 4 m dia in Thenpennaiyar River in Sathnaur Pickup dam.  |
| 10. | Pump set                             | : |  |
| a.  | Type                                 | : | Openwell Submersible Pumpset   |
| b.  | Duty                                 | : | 1270 lpm x 25m Head  |
| c.  | Hours of Pumping                     | : | 23 Hours   |
| 11. | Treatment Plant (with Units details) | : | 1) Aerator - 1 No. (Type design)<br>2) Holding tank<br>3) Sitling champer 3 m length.<br>4) Measuring channel 2 m length.<br>5) Clarifleculetor - 1 No.<br>6) Filter house - 1 No.<br>7) Sludge well – 1 No.<br>8) Clear water sump 1.00 LL<br>9) Pump room 8 x 6m.<br>10) Clear water pumpset submersible 25 HP (1209 lpm x 60m) 2 nos. |

|            |   |   |  |
|------------|---|---|--|
| <b>12.</b> | <b>Transmission Main</b>                | : |  |
| <b>a.</b>  | <b>Pumping main</b>                     | : | Raw Water main 200mm CA LA – 610m  |
| <b>b.</b>  | <b>Gravity main</b>                     | : |  |
| <b>13.</b> | <b>Booster Station</b>                  | : |  |
| a.         | Sump with capacity                      | : | 1) 1.00 LL Stand post @ Mottur – Gravity main<br>2) Keelvanakkambadi Sump 1.00 LL<br>3) Anjugam Nagar 2.00LL   |
| b.         | Pumpset details                         | : | Keelvanakkambadi Sump 7.50 HP Sub pumpset -799 lpm x 26m – 2 Nos.<br>2 ) Anjugam Nagar 7.50 HP Submersible pumpset 406 lpm x 40m – 2 Nos.  |
| <b>14</b>  | <b>Feeder main</b>                      | : |  |
| <b>15.</b> | <b>No. of Group sump with capacity</b>  | : | - 6 Nos<br>- 1) Thandrampet 1.50 LL<br>- 2) Sekudaloor 1.50 LL<br>- 3) Keel vanakkampadi 1.00 LL<br>- 4) TWAD Lab. Sump 2.00 LL<br>- 5) Anjugam Nagar 2.00 LL<br>- 6) Kondam 2.00 LL |
| <b>16.</b> | <b>Service Reservoirs with capacity</b> | : | Separate statement enclosed.   |
|            |   |   |  |
| <b>17.</b> | <b>Separate power feeder main</b>       | : | Head works, Treatment site, Kilvanakkampadi Booster, Anjugam Nagar Booster separate feeder available.  |
| <b>18.</b> | <b>Distribution system</b>              |   |  |

| <b>S.NO</b> | <b>NAME OF UNION</b> | <b>NAME OF PANCHAYAT</b> | <b>NAME OF HABITATION</b> | <b>CAPACITY OF O.H.T</b> |
|-------------|----------------------|--------------------------|---------------------------|--------------------------|
| 1           | 2                    | 3                        | 4                         | 5                        |
| 1           | Thandram pet         | Radhapuram               | Agram                     | 30,000 lits              |
| 2           | "                    | "                        | Thalanodai                | "                        |
| 3           | "                    | "                        | Radhapuram colony         | "                        |
| 4           | "                    | "                        | Meyyutu                   | "                        |
| 5           | "                    | "                        | Arasambattu               | "                        |
| 6           | "                    | Thenmudyanur             | Thenmudyanur              | 100000 lits              |
| 7           | "                    | "                        | Krishnapuram              | 30000 lits               |
| 8           | "                    | "                        | Ragunathapuram            | EPL                      |
| 9           | "                    | "                        | kulivettu kotai           | 10000lits                |
| 10          | "                    | Allapanur                | Allapanur                 | 30000lits                |
| 11          | "                    | "                        | Irular colony             |                          |
| 12          | "                    | "                        | Allapanur colony          | 30000lits                |
| 13          | "                    | segudalur                | segudalur                 | 60000Lits                |
| 14          | "                    | "                        | segudalur HC              | 60000Lits                |
| 15          | "                    | Khambattu                | Khambattu                 | 30000Lits                |
| 16          | "                    | "                        | Khambattu Colony          | 30000Lits                |
| 17          | "                    | "                        | Khambattu New Colony      | 10000 lits               |
| 18          | "                    | varagur                  | varagur                   | 60000Lits                |
| 19          | "                    | "                        | Varagur Anna nagar        | 10000 Lits               |
| 20          | Tiruvannamalai       | Meyyur                   | vinayakapuram             | 30000 lits               |
| 21          | "                    | "                        | Meyyur                    | 60000 Lits               |
| 22          | "                    | "                        | Meyyur colony             | 60000Lits                |
| 23          | Chengam              | C.Agaram                 | C.Agaram                  | 30000Lits                |
| 24          | "                    | "                        | C.Agaram colony           | 30000Lits                |
| 25          | "                    |                          | Vaddyar kottai            | 10000Lits                |
| 26          | Tiruvannamalai       | Vengikkal                | Kubheranagar              | 30000 lits               |
| 27          | "                    | "                        | Vallli nagar              | 60000 lits               |
| 28          | "                    | "                        | Min nagar                 | 100000 lits              |
| 29          | "                    | "                        | Thendral Nagar            | 100000 lits              |
| 30          | "                    | "                        | Indira nagar              | 60000lits                |
| 31          | "                    | "                        | Gokul nagar               | 60000lits                |
| 32          | "                    | "                        | Ashok nagar               | 100000 lits              |
| 33          | "                    | "                        | om shakthi nagar          | 100000 lits              |
| 34          | "                    | "                        | Vengikkal                 | 60000lits                |
| 35          | "                    | "                        | vengikkal colony          | 60000lits                |
| 36          | Tiruvannamalai       | Adiannamalai             | mettu ko salai            | 30000 lits               |
| 37          | "                    | "                        | ko salai                  | 30000 lits               |
| 38          | "                    | "                        | Adi annamalai             | 30000 lits               |

|    |                |                 |                         |             |
|----|----------------|-----------------|-------------------------|-------------|
| 39 | "              | "               | adiannamalai colony     | 30000 lits  |
| 40 | "              | Atthiyandal     | Atthiyandal             | 60000lits   |
| 41 | "              | kanathampoondi  | kaveriampoondi          | 30000 lits  |
| 42 | Tiruvannamalai | Endhal          | Arputhamadha nagar      | 30000 lits  |
| 43 | "              | "               | Endhal                  | 60000lits   |
| 44 | "              | Chinnakangainur | Palikondapattu          | 10000lits   |
| 45 | "              | "               | Chinnakangainur         | 60000lits   |
| 46 | "              | "               | Chinnakangainur colony  | 30000 lits  |
| 47 | "              | "               | Sambandhanur            | 60000lits   |
| 48 | Tiruvannamalai | Vengikkal       | collectrate             | Bulk supply |
| 49 | "              | "               | Anjukam nagar           | 30000       |
| 50 | "              | "               | kottam palayam          | 30000       |
| 51 | "              | "               | vengikkal pudur         | 60000       |
| 52 | Tirinjapuram   | Inam karayandal | Deepam Nagar            | 60000lits   |
| 53 | "              | "               | Deepam Nagar east       | 30000 lits  |
| 54 | "              | "               | Muniyandal sathram      | 30000 lits  |
| 55 | "              | "               | Indria nagar            | 10000lits   |
| 56 | "              | oosampadi       | oosampadi               | 60000lits   |
| 57 | "              | pudhu mallavadi | pudhu mallavadi         | 60000lits   |
| 58 | "              | "               | saminathapuram          | 15000lits   |
| 59 | "              | malavadi        | theederkuppam           | 30000 lits  |
| 60 | "              | Vadapulithur    | Muniyappanthangal       | 30000 lits  |
| 61 | "              | Naidumangalam   | Naidumangalam koot raod | 30000 lits  |
| 62 | "              | "               | Naidumangalam           | 60000lits   |
| 63 | "              | "               | Naidumangalam Colony    | 30000 lits  |
| 64 | Tirijapuram    | porkunam        | porkunam                | 60000lits   |
| 65 | "              | "               | pudhupettai ADC         | 30000 lits  |
| 66 | "              | "               | thandkotipuram          | 30000 lits  |
| 67 | "              | MN palayam      | Pudhupalayam            | 60000lits   |
| 68 | "              | salaiynur       | salaiynur               | 100000lits  |
| 69 | "              | "               | salaiynur colony        | 30000 lits  |
| 70 | "              | "               | senkaran palaym         | 30000 lits  |
| 71 | Kalasapakkam   | Ladavaram       | Ladavaram               | 60000lits   |
| 72 | "              | "               | Ladavaram colony        | 30000 lits  |
| 73 | "              | "               | Ganeshapuram            | 30000 lits  |
|    |                |                 |                         |             |

## **CLEAR WATER PUMPING MAIN FORM TREATMENT SITE TO STAND POST**

|                       |   |       |
|-----------------------|---|-------|
| 200mm OD Pvc 6 Ksc    | : | 2130m |
| 200mm OD Pvc 4 Ksc    | : | 1639m |
| 200mm DI K7 pipe line | : | 91m   |

### **STAND POST**

One Lakh litre 12m staging height service reservoir @ Mottur (Nallalanpalyam)

### **GRAVITY MAIN**

#### ***From Stand post to Kilvannakambadi sump***

|                              |   |          |
|------------------------------|---|----------|
| 250mm OD PVC 4 KSC pipe line | : | 8843.50m |
| 250mm DI K7 pipe line        | : | 682.50m  |

#### ***Branch to Thandarampet and Se.Guddalore sumps***

|                              |   |          |
|------------------------------|---|----------|
| 110mm OD PVC 4 KSC pipe line | : | 5852.00m |
| 100m GI pipe line            | : | 228.00m  |

### **PUMPING MAIN**

#### ***From Kilvannakkampadi – TWAD Lab sump***

|                              |   |           |
|------------------------------|---|-----------|
| 200mm OD PVC 4 KSC pipe line | : | 16106.00m |
| 200mm DI K7 Pipe line        | : | 1232.00m  |

#### ***From TWAD Lab-Anjugam Nagar sumps***

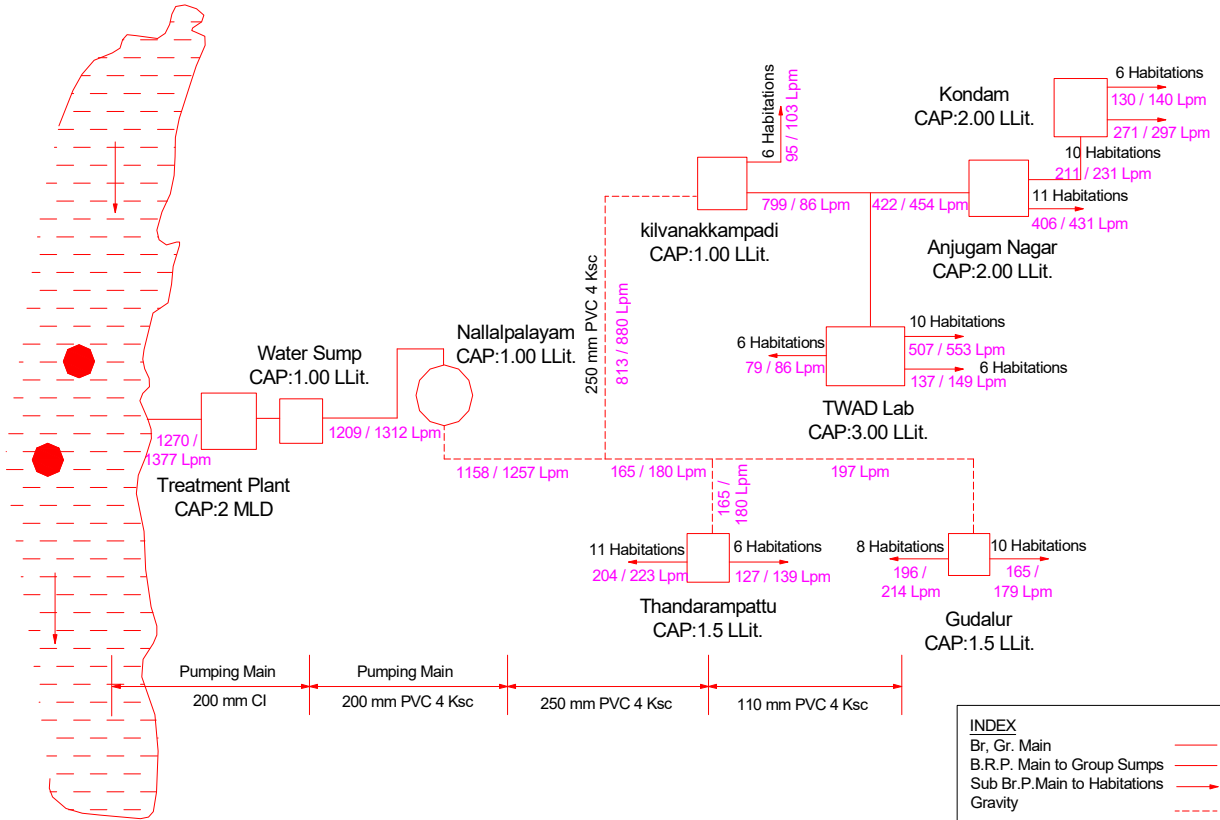
|                              |   |          |
|------------------------------|---|----------|
| 140mm OD PVC 4 KSC pipe line | : | 3023.00m |
|------------------------------|---|----------|

### **PUMPING MAIN**

#### ***From Anjugam Nagar to Kondam sumps***

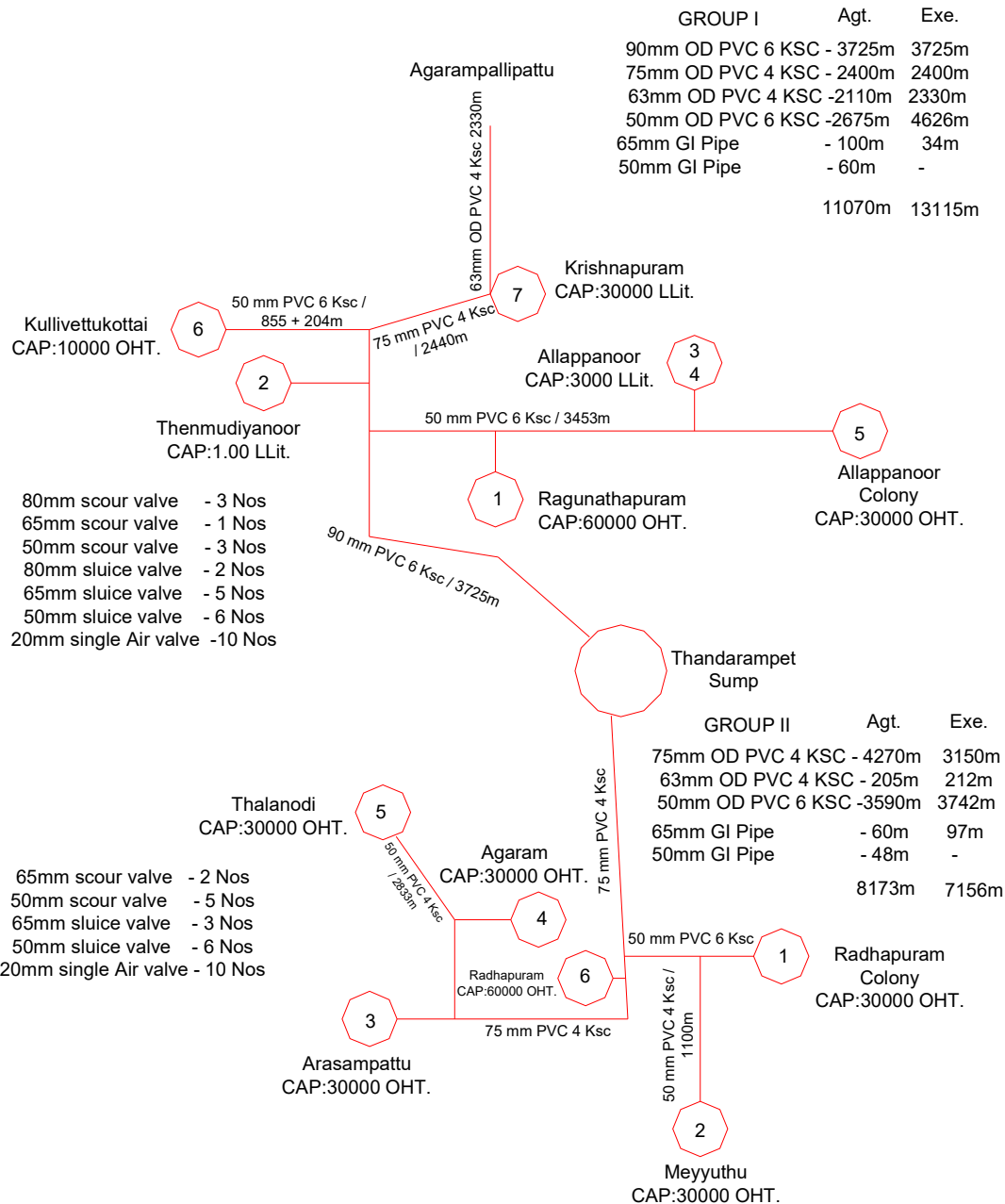
|                              |   |          |
|------------------------------|---|----------|
| 140mm OD PVC 6 KSC pipe line | : | 4801.00m |
| 110mm OD PVC 4 KSC pipe line | : | 5919.00m |
| 110mm OD PVC 6 KSC pipe line | : | 1230.00m |

# **CWSS TO LADAVARAM, VANAPURAM & 88 OTHER HABITATIONS IN TIRUVANNAMALAI DISTRICT FLOW DIAGRAM**



# SUMP I

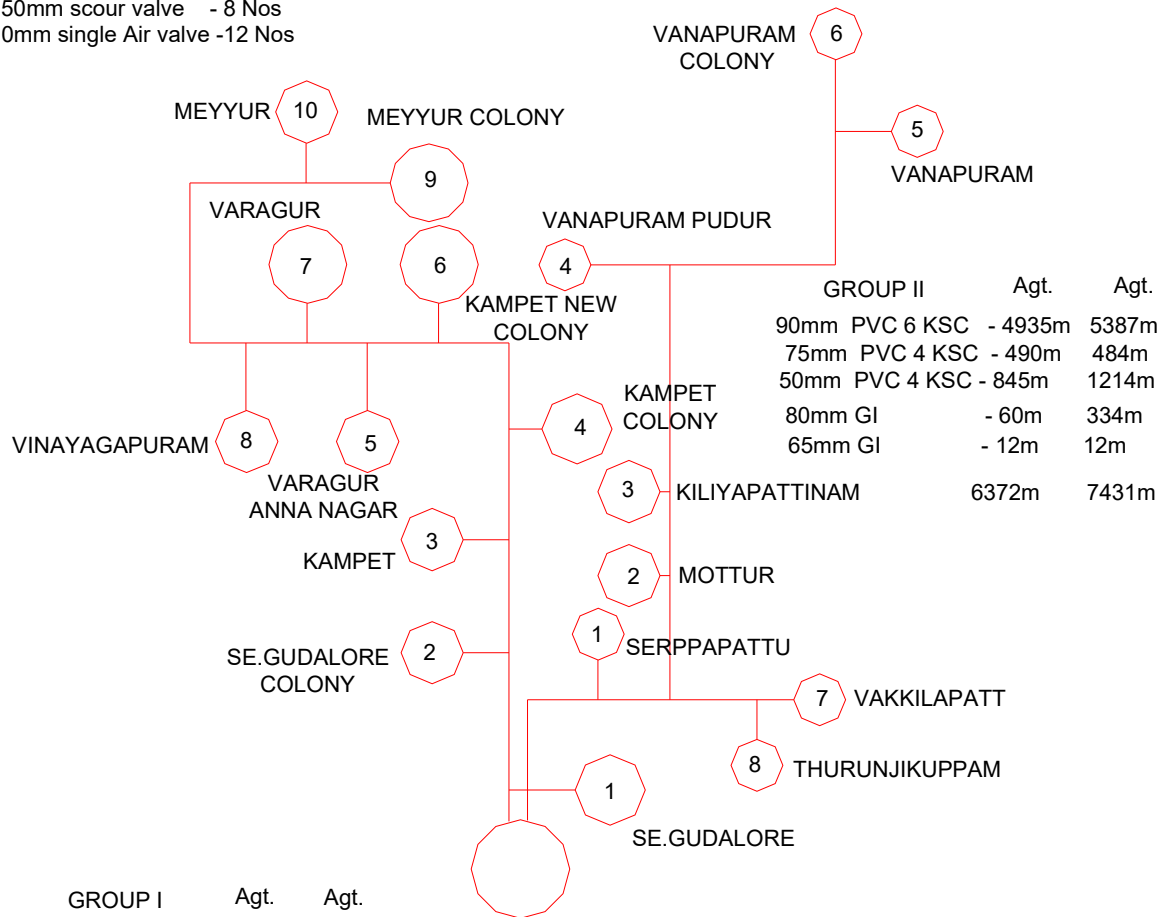
## GROUP PUMPING FROM THANDARAMPET SUMP TO RADHAPURAM & THENMUDIYANUR GROUP



## SUMP 2

### GROUP PUMPING FROM SE.GUDDALORE SUMP TO VANAPURAM AND MEYYUR

80mm sluice valve - 2 Nos  
 65mm sluice valve - 3 Nos  
 50mm sluice valve - 1 Nos  
 80mm scour valve - 3 Nos  
 50mm scour valve - 8 Nos  
 20mm single Air valve -12 Nos



| GROUP I            | Agt.    | Agt.     |
|--------------------|---------|----------|
| 90mm 6 KSC - 2460m | 3476m   |          |
| 75mm 6 KSC - 1140m | 1240m   |          |
| 63mm 4 KSC - 870m  | 870m    |          |
| 50mm 6 KSC - 2190m | 2225m   |          |
| 65mm GI - 30m      | 92m     |          |
| 80mm GI - 24m      | 371.50m |          |
| 50mm GI - 90m      | 90m     |          |
|                    | 6804m   | 8358.50m |

80mm sluice valve - 3 Nos  
 65mm sluice valve - 1 Nos  
 50mm sluice valve - 6 Nos  
 80mm scour valve - 5 Nos  
 50mm scour valve - 1 Nos  
 20mm single Air valve - 9 Nos

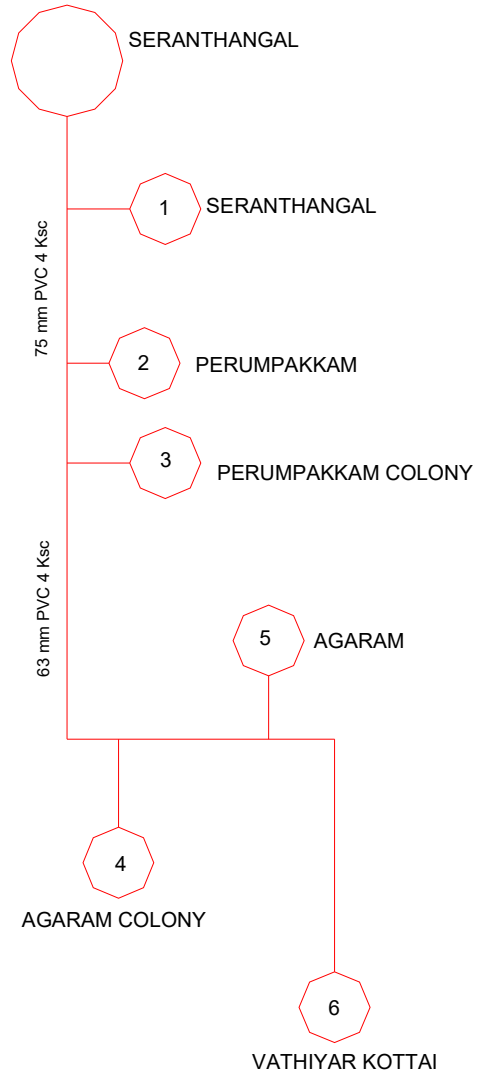


# SUMP 3

## GROUP PUMPING FROM KEELVANAKAMPADY SUMP TO VATHIYAR KOTTAI

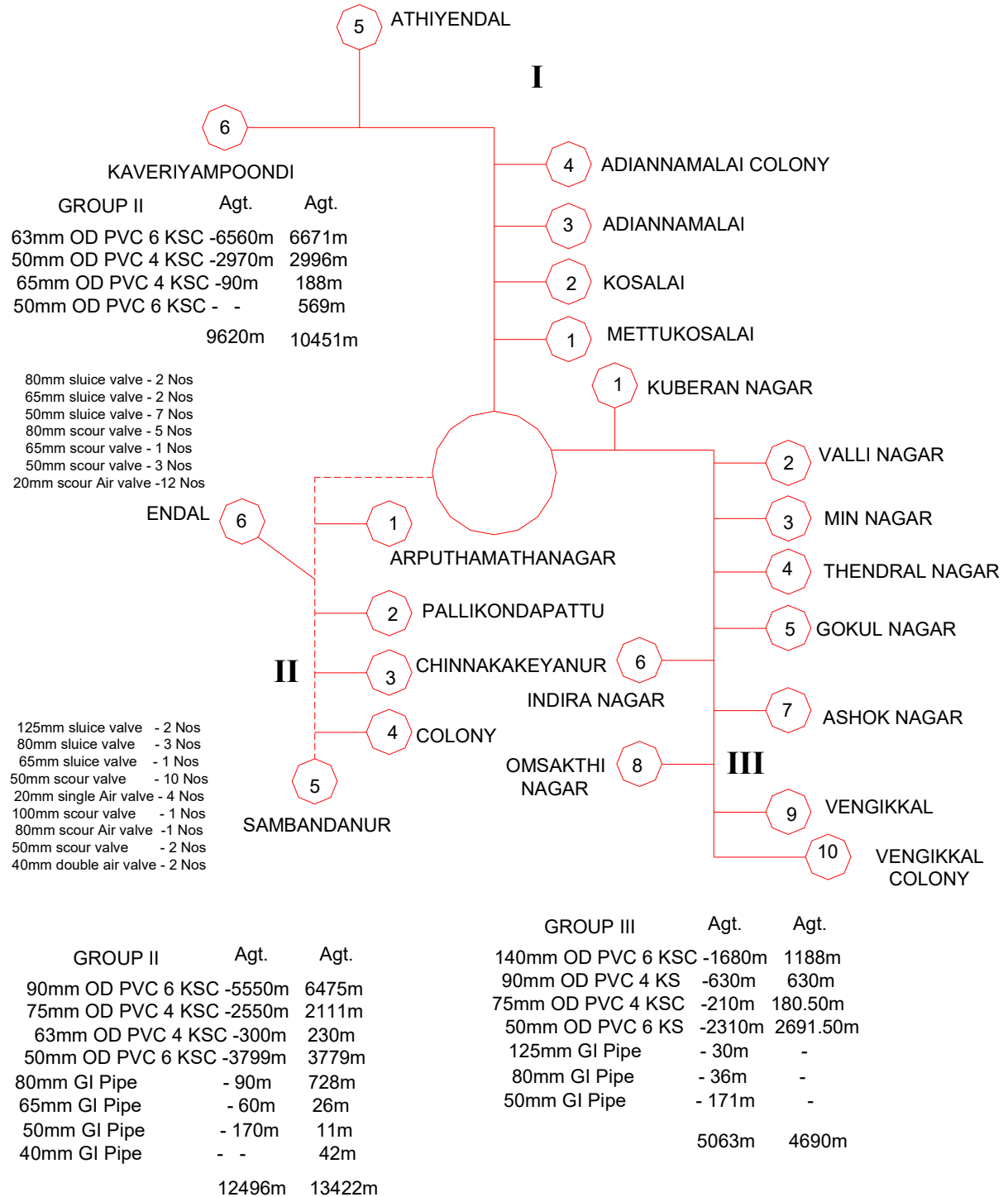
|                | Agt.    | Agt.  |
|----------------|---------|-------|
| 75mm PVC 6 KSC | - 3150m | 3435m |
| 63mm PVC 4 KSC | - 5590m | 5680m |
| 50mm GI Pipe   | - 65m   | 174m  |
| 65mm GI Pipe   | - -     | 89m   |
|                | 8805m   | 9378m |

50mm sluice valve - 4 Nos  
80mm scour valve - 5 Nos  
20mm single Air valve - 11 Nos



# SUMP 4

## GROUP PUMPING FROM TWAD LAB TO ATHIYENDAL, VENGIKAL & SAMBANTHANOOR

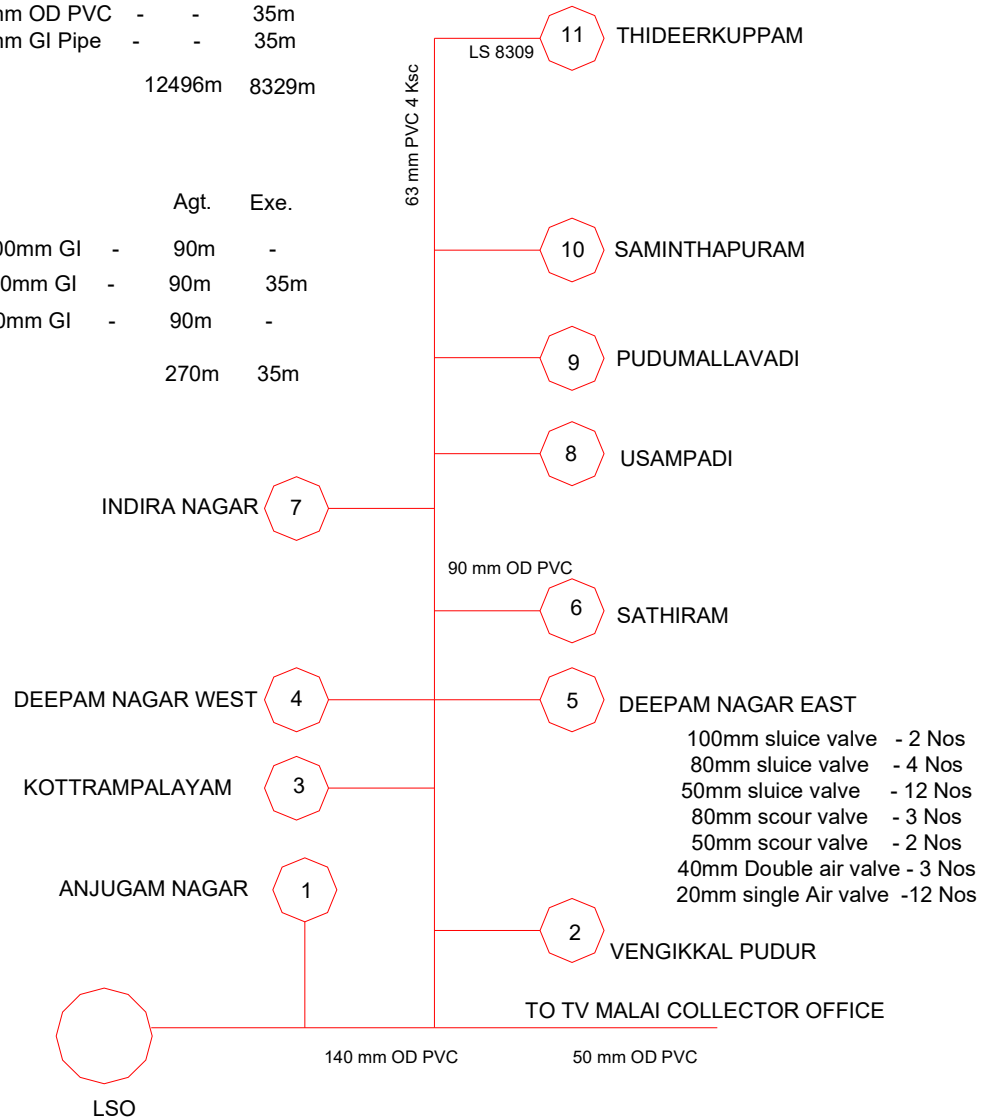


## SUMP 5

### GROUP PUMPING FROM ANJUGAM NAGAR SUMP TO THIDEERKUPPAM

| GROUP II       | Agt.   | Exe.  |
|----------------|--------|-------|
| 140mm OD PVC - | 275m   | 267m  |
| 75mm OD PVC -  | 2640m  | 1524m |
| 90mm OD PVC -  | 2430m  | 4965m |
| 63mm OD PVC -  | -      | 35m   |
| 80mm GI Pipe - | -      | 35m   |
|                | 12496m | 8329m |

|            | Agt. | Exe. |
|------------|------|------|
| 100mm GI - | 90m  | -    |
| 80mm GI -  | 90m  | 35m  |
| 50mm GI -  | 90m  | -    |
|            | 270m | 35m  |



## SUMP 6 GROUP PUMPING FROM KONDAM SUMP

