

HYDRALIC PARTICULARS OF ACHAVALLI DISTRIBUTORY TAKING OFF AT KM 36.350 OF PBC

| R/S | | | L/S | |
|------------------------------------|-----|------------|----------|-----------------------------------------------------------|
| Station | B.L | 236.499 | Km 0.020 | 0.50 m Drop |
| | | | Km 0.670 | 0.50 m Drop cum Bridge |
| | | | Km 0.740 | 2L PFC, L=0.450, Ayacut=75.05 B.L=235.444 |
| 1R P.F.C L=0.510 Ay=1200 Acres | | | Km 0.850 | 0.50 m Drop |
| B.L | | 235.297 | Km 1.120 | 0.50 m Drop |
| | | | Km 1.220 | 0.50 m Drop |
| | | | Km 1.280 | 0.50 m Drop |
| | | | Km 1.440 | 0.50 m Drop |
| | | | Km 1.480 | Bridge |
| 3R PFC L=0.540 Km | | Km 1.488 | Km 1.488 | 4L PFC, L= 0.350 Km, Ayacut= 18.44 Ac B.L= 232.747 |
| Ayacut 32.31 Acres | | | Km 1.500 | 0.50 m Drop |
| | | | Km 1.570 | 0.50 m Drop |
| Main Distributory =1075.23 AC | | | Km 1.600 | 0.50 m Drop |
| Nalla cheruvlapplie =448.000 Acres | | | Km 1.650 | 0.50 m Drop |
| Sathakovuru Minor= 564.61 Ac | | | Km 1.750 | 0.50 m Drop |
| | | 2087.84 Ac | Km 1.810 | 0.50 m Drop |
| | | | Km 2.030 | 0.50 m Drop |
| | | | Km 2.060 | 0.50 m Drop |
| | | | Km 2.110 | 0.50 m Drop |
| | | | Km 2.220 | 0.50 m Drop |
| | | | Km 2.300 | 0.50 m Drop |
| | | | Km 2.420 | 1.00 m Drop |
| | | | Km 2.440 | 0.50 m Drop |
| | | | Km 2.460 | S.P cum Bridge |
| | | | Km 2.500 | 1.00 m Drop |
| | | | Km 2.550 | 0.50 m Drop |
| | | | Km 2.575 | Bridge |
| | | | Km 2.820 | 0.50 m Drop |
| | | | Km 2.880 | 0.50 m Drop cum Bridge |
| | | | Km 2.930 | 1.00 m Drop |
| | | | Km 2.980 | 0.50 m Drop |
| | | | Km 3.260 | 0.50 m Drop |
| | | | Km 3.460 | 0.50 m Drop |
| | | | Km 3.540 | 0.50 m Drop |
| | | | Km 3.640 | Syphon proposed (Drain& Outlet) |
| Nallacharuvupalli minor | | | Km 3.720 | Nallacharuvupalli minor L=6180 m |
| Ayacut 448.000, B.L 220.875 | | | | |
| 5R PFC L=0.390 Ay 39.93 AC | | | Km 3.840 | 6 L PFC, L= 0.390 m, Ayacut 35.10Ac BL 221.006 |
| | | | Km 4.070 | L Class Bridge |
| 7R FC L= Km 0.210 | | Km 4.100 | Km 4.100 | BL 220.919 |
| Ayacut 16.42 Ac | | | | |
| 8R PFC, L=0.270 Km | | Km 4.600 | Km 4.600 | Bridge 9 L PFC, L= 0.510m, Ayacut=35.08 Ac B.L 220.726 |
| Ayacut 57.79 ac | | | Km 5.060 | 0.70 m Drop |
| | | | Km 5.100 | 0.50 m Drop |
| | | | Km 5.140 | 0.50 m Drop |
| | | | Km 5.180 | 0.50 m Drop |
| | | | Km 5.200 | 0.50 m Drop |
| | | | Km 5.220 | 0.50 m Drop |
| | | | Km 5.240 | 0.50 m Drop |
| | | | Km 5.310 | 0.50 m Drop S.p cum L bridge |
| Santhokovuru minor, B.L 215.891 | | | Km 5.390 | Santhokovuru minor |
| Ayacut 564.61 Ac, L= 3300 m | | | Km 5.400 | 0.50 m Drop |

| | | | | |
|-----------------------------------------|----------|-----------------------------------------------------------------------|----------|-----------------------------------------------------|
| 11R FC L=0.480 Km Ayacut 32.66 Ac | Km 5.640 | <div style="text-align: center;"> ↓ ACHAVALLI DISTRIBUTORY </div> | Km 5.630 | 10 L PFC, L= 0.480m, Ayacut 86.32 Ac B.L 215.362 |
| | | | Km 5.640 | B.L 215.409 |
| | | | Km 5.698 | 0.50 m Drop cum bridge |
| | | | Km 6.360 | 12 L PFC L= 0.510m, Ayacut 106.08Ac B.L 214.619 |
| 13R PFC, L=0.510 Km Ayacut 126.59 Ac | Km 6.370 | | Km 6.370 | B.L 214.616 |
| | | | Km 6.380 | 0.50 m Drop |
| | | | Km 6.510 | 0.50 m Drop |
| | | | Km 6.800 | 0.50 m Drop |
| | | | Km 6.950 | 14 L, L=0.930m,Ayacut 116.50Ac, B.L 212.900 |
| 15R PFC, L=0.930 Km Ayacut 174.13 AC | Km 6.960 | | Km 6.960 | BL=212.827 T.E |
| | | | Km 6.980 | 0.50 m Drop cum bridge |
| | | | Km 7.100 | 0.50 m Drop |
| | | | Km 7.260 | 0.50 m Drop |
| | | | Km 7.380 | 0.50 m Drop |
| | | | Km 7.560 | 0.50 m Drop |
| | | | Km 7.700 | 0.50 m Drop |
| | | | Km 7.760 | 0.50 m Drop |
| | | | Km 7.860 | 0.50 m Drop |
| | | | Km 7.920 | 0.50 m Drop |
| End BL 208.022 | | | Km 8.030 | T.E |

HYDRAIC PARTICULARS OF ACHAVALLI DISTRIBUTORY

| S.no | Reach in Km | 0.000 To 2.960 | 2.960 To 5.310 | 5.310 To 8.030 |
|------|---------------------|-------------------|-------------------|-------------------|
| 1 | Discharge (R) cum | 0.8572 | 0.6208 | 0.3451 |
| 2 | Discharge (D) cum | 0.8948 | 0.6473 | 0.3519 |
| 3 | Bed Width m | 2.50 | 2.30 | 1.70 |
| 4 | Surface fall m | 1 IN 3000 | 1 IN 3000 | 1 IN 3000 |
| 5 | Bed level Start m | 236.499 | 223.023 | 215.891 |
| 6 | Bed Level End m | 223.023 | 215.891 | 208.022 |
| 7 | FSL Start | 237.199 | 223.623 | - |
| 8 | Ground Level m | 237.21 | 224.43 | - |
| 9 | Velocity m/s | 0.4408 | 0.4149 | 0.3606 |
| 10 | Value of n | 0.025 | 0.025 | 0.025 |
| 11 | F.S.D m | 0.70 | 0.60 | 0.50 |
| 12 | Length Km | 8.028 | - | - |
| 13 | Ayacut | - | - | - |