

Rashthamavipalli Distributary off T.M.R at Km 34.000 of P.A.C

P.B.C
O.T 34.000 KM OF P.B.C

Stn. B.L 237.198

1st minor (311.43 ACRES) 0.400 KM
B.L 236.998

2nd P.F.C (95.90 ACRES) 0.825 KM
Lc 0.960 KM B.L 236.451 ✓

pfs

Total Agency

Main distributary = 182.85

1st minor 311.43
49.4 = 28 ACRES
+ 60 AC 550 AC

total 623

Distributary
Rashthamavipalli

O.T 4.5 km Field.
0.435 KM 0.30 drop.

0.550 KM S.P.

1.00 B.T R/S
0.825 KM P.F.C 86.95 ACRES
B.L 236.451 ✓ 0.390 KM
0.840 KM 0.30 drop cum 'L' class Bridge
P.F.C 4.5
0.905

1.200 KM TAIL END.
B.L. 235.923

T.E 60 ACRES

1.100 Dr.P.
0.530

0.814 SLB cum Dr.P.

Hydrolic particulars

#	Description	0.0 To 0.500	0.500 To 1.200
1	Discharge (R)	0.211 Cum	0.119 Cum
2	du (D)	0.246 "	0.132 "
3	Bed width	1.00 M	0.70 M
4	Bank level start	237.198	236.648
5	End	236.948	235.923
6	start	237.698	237.848
7	End	237.448	236.303
8	F.S.D	0.50 M	0.40 M
9	Cut to C-fall	1/2000	1/1650
10	Side slope	1:1	1:1
11	Velocity	0.397 M/Sec	0.367 M/Sec
12	Water depth	0.025	0.025
13	Depth		

DAI
5 NOS

4
GND

1st minor of Roothamavuripalli distributary.

→ Roothamavuripalli distributary

0.1 T 0.400 KM

B.L 236.998

Ayacut = 311 = 43 Acres

3rd F.C 12.84 Acres

L = 600 mts



0.225 KM ^L F.C 19.34 Acres L = 500 m.

0.235 KM 1.00 drop ^L 236.861
235.861

0.450 KM 0.60 drop ^L 235.724
235.124

0.800 KM 1.00 drop cum ^L 2.F.C 61.35 Acres

Pipe Culvert ^L 234.911
L = 800 mts 233.911

— 1.045 pipe culvert

1.050 KM 0.60 M drop ^L 4th F.C 47.08 Acres

L = 800 mt ^L 233.759
233.159.

u.s.

Tail End R.S P.F.C NO 5

112.93 Acres

End B.L 233.077.

E = 300 mts.

1.300 KM P.F.C NO 5 End R.S 57.89 Acres

Tail End L = 1000 mt.

170.82 Acre

Hydraulic parameters

SL NO	Parameters	Value
1.	Discharge (R)	0.092
2	d — (D)	0.132
3	Bed width	0.70 M
4	F.S.D	0.40
5	Bed level start	236.998
6	— d. — End	233.077
6	F.S.L start	233.298
6	— d. — End	233.907
7	Sus fall	1/1650
8	Side slopes	1/2 : 1
9	Velocity	0.367 m/sec
10	Volume	0.045
11	A.yacut	

Groundwater distribution taking off at km 35.500 ft P.B.C.

P.B.C.

Q.T 35.500 Km of P.B.C.

B.L Total Area cut: 808.42 Acres B.L 236.648 0.900	236.748 0.200 Km of Finlay 212.00 Acres
R F.C 38.58 Acres 0.500 Km L = 1400 mts	C. 1 0.540 Km 0.60 mt drop 2 F.C 38.23 Acres B.L 236.478 L = 1800 M
3 R F.C 27.72 Acres BL 235.303 L = 1000 mts	0.680 Km 1.00 drop
1.250 Km B.L. 232.829	0.840 Km 0.60 drop 4 F.C 38.34 Acres B.L. 234.690 L = 1800 mts
5 R F.C 27.186 Acres 1.251 L = 1300 mt	1.100 Km 1.00 drop
B.L 231.237 1.880	1.250 Km 0.60 drop cum Pipe Culvert 6 Mft 0.21.80 Acres L = 1000 mt
7 R F.C 11.80 Acres 1.900 L = 1000 mt	1.420 Km 0.60 drop
9 R F.C 8.01 Acres BL 229.437 L = 1300 mt	1.880 Km of 2 minor 186.86 Acres
11 R 27.75 Acres 2.560 BL 227.792 L = 1200 mts	1.900 Km 0.60 drop 8 F.C 16.08 Acres B.L 231.226 L = 1300 mts
Total ABSTRACT	2.000 Km 0.60 drop
Main distributary = 409.56 Ac 1 ^L minor = 212.00 Ac 2 ^L minor = 186.86 Ac <u>808.42 Ac</u>	2.160 Km 0.60 drop 10 ^L 19.20 Acres 2.190 Km 0.60 drop 1 C.T Pipe Culvert 2.320 Km 0.60 drop
16 NDS 5 NDS 7 NDS 28 NDS. 3 NDS 6/2 NDS.	2.560 Km 0.60 drop 12 ^L 54.80 Acres L = 1600 mts
779.88 Acres	2.720 Km 0.60 drop 13 ^L 29.50 Acres L = 1300 mts
X24/429	2.880 Km C.T. Pipe Culvert 3.000 Km 14 ^L F.C 49.88 Acres STE B.L. 226.103 L = 1900 mt.
	3.400 Km T.E.
	= 0.228 Cunes

(P.T.O)

-4- Grundlagen des distributiv

Hydraulic Particulars

Sl No	Description	0.0 To 0.5 A.O.	0.540 To 1.900	1.900 To 3.500
1	Discharge (R)	0.2346 Cmax	0.247 Cmax	0.161 Cmax
2	do (D)	0.3486	0.277 Cmax	0.177
3	Bed width	1.40 M	1.00 M	0.70 M
4	F.S.D	0.50	0.50 M	0.40
5	Velocity	0.423 M/S	0.443 M/S	0.493 M/S
6	Value 'N'	0.025	0.025	0.025
7	Side slopes (D)	1/2 : 1	1/2 : 1	1/2 : 1
	Expo	1:1	1:1	1:1
8	Bed level start	236.748	235.878	230.043
	do End			
9	F.S.L start	237.248	236.878	230.443
	do End			
10	Surf face fall	1/2000	1/1600	1/900
11	Aya cut	2.1 sec	6.3 sec	15.3 sec

Ground Survey Distribution taking off at Km 35.500 ft P & C.

P. E. C.

Q.T 35.500 KM & P.O.C.

<p>Total Area cut: 808.42 Acres</p> <p>B.L. 236.648' 0.200</p> <p>R F.C. 38.58 ACRES 0.540 Km L = 1400 mts</p> <p>3^R F.C. 27.72 ACRES BL. 235.303 L = 1000 mts</p> <p>5^R F.C. 27.86 ACRES 1.251 BL. 232.816 L = 1300 mt</p> <p>B.L. 231.239 1.882</p> <p>7^R F.C. 11.80 Acres 1.900 L = 1000 mt</p> <p>9^R F.C. 8.01 ACRES BL 227.437 L = 1300 mt</p> <p>11^R 27.75 ACRES 2.560 BL 227.792 L = 1200 mts</p>	<p>236.748</p> <p>0.200 Km of 1^L minor 212.00 ACRES</p> <p>0.540 Km 0.60 Mtr drop 2^L F.C. 38.23 AC B.L. 236.478 L = 1800 m</p> <p>0.680 Km 1.00 drop</p> <p>0.840 Km 0.60 drop 4^L F.C. 38.34 B.L. 234.690 L = 1800 mts ACRES</p> <p>1.120 Km 1.00 drop</p> <p>1.250 Km 0.60 drop cum Pipe Culvert 6^L minor 21.80 ACRES L = 1000 mt</p> <p>1.420 Km 0.60 drop</p> <p>1.880 Km of 2^L minor 186.26 ACRES</p> <p>1.900 Km 0.60 drop 8^L F.C. 16.08 BL 231.226 L = 1300 mts ACRES</p> <p>2.000 Km 0.60 drop</p> <p>2.160 Km 0.60 drop 10^L 19.20 L = 1300 mts ACRES</p> <p>2.190 Km 0.60 drop C.T. PIPE CULVERT</p> <p>2.320 Km 0.60 drop</p> <p>2.560 Km 0.60 drop 12^L F.C. 54.80 L = 1600 mts ACRES</p> <p>2.720 Km 0.60 drop 13^L 29.50. L = 1300 mts ACRES</p> <p>2.880 Km C.T. PIPE CULVERT</p> <p>3.000 Km 14^L F.C. 49.89 ACRES STE B.L. 228.103 L = 1900 mt.</p> <p>3.400 Km T.E.</p>
<p>Total ABSTRACT</p> <p>Main Distribution = 409.56 AC</p> <p>1^L minor = 212.00 AC</p> <p>2^L minor = 186.86 ACRES</p> <p>808.42 ACRES</p> <p>16 N.S. 5 N.S. 7 N.S. 28 N.S. 3 N.S. 6/2 N.S.</p> <p>779.88 ACRES</p>	<p>= 0.228 Cmages</p>

(P.T.O.)

-4- Grundlagen des distributiv

Hydrolic particulars

No	Description	0.0 To 0.5 A.O.	0.540 To 1.500	1.900 To 3.500
1	Discharge (R)	0.3346 cu.m	0.247 cu.m	0.161 cu.m
2	do (D)	0.3486 "	0.277 cu.m	0.177 "
3	Bed width	1.40 M	1.00 M	0.70 M
4	F.S.D	0.50	0.50 M	0.40
5	Velocity	0.423 M/sec	0.443 M/sec	0.493 M/sec
6	Value 'N'	0.025	0.025	0.025
7	Side slopes (D)	1/2 : 1	1/2 : 1	1/2 : 1
	$F \times F_C$	1:1	1:1	1:1
8	Bed level start	236.748	235.878	230.043
	do End			
9	F.S.L start	237.248	236.878	230.443
	do End			
10	Surf. fall	1/2000	1/1600	1/900
11	Avg. cut			

1 L minor

Grundlammadugu dist.

O.T. 0.200 m.t

B.L. 236.648
A.yacut = 212.00 Acres.

$2 \frac{1}{2} \times 2.47 = 6.125$
 1429

End B.L.

2 L Minor

Grundlammadugu distributary

O.T of 1.880 km.

231.226 B.L.

A.yacut = 186.86 Acres

2 R. (23.90 Acres)

B.L. 231.026

L = 1000 mts
500

UR (21.13 Acres)

L = 4000 mts
500 B.L. 228.824

B.L. 227.646

B.L. 226.426

End B.L.

	↓	0.395 K.m	0.60 drop
	↓	0.400 K.m	C.T pipe culvert
3	↓	0.540 K.m	0.60 drop
3	↓	0.680 K.m	0.60 drop
2	↓	0.800 K.m	0.60 drop
	↓	1.160 K.m T.E	
	V	B.L. 233.088	

	↓	0.200 K.m 1.00m drop	L (48.82 Acres)
	↓	0.250 K.m	P.P.P. Culvert
2	↓	0.300 K.m	1.00 drop
3	↓	0.400 K.m 1.00m drop	L = 1600 mts 600 Acres
3	↓	0.525 K.m 1.00m drop	5 (23.37 Acres)
2	↓	0.800 K.m 0.60 drop	L = 1200 mts 600 Acres
	↓	0.940 K.m 0.60 drop	
	V.	1.080 - B.L. 224.946	
		1.100 K.m 5	(P.T.O.)

1 minox - 6 -
Hydraulic Particulars

Sl. No.	Particulars	
1	Discharge (R)	0.0871 cumes
2	- do - (D)	0.089 "
3	Bed width	0.60
4	F.S.D	0.30
5	Side slopes	1:1
6	Value of 'N'	0.025
7	Velocity	0.398 m/sec
8	Bed level start	236.648
9	Bed level End	233.088
10	F.S.L start	236.948
11	Slope	1/1000
12	Ayacut	-

2 minox

Sl. No.	Particulars	
1	Discharge (R)	0.0871
2	- do - (D)	0.089
3	Bed width	0.60 H
4	F.S.D	0.30 H
5	Side slopes (D) Exe	1:1 1:1
6	Value of 'N'	0.025
7	B.L start	231.220
8	B.L End	-
9	F.S.L start	-
10	Surface fall	1/1000
11	Velocity	0.398 m/sec
12	Ayacut	-

1 minox - 6 -
Hydraulic Particulars

$\frac{1}{n_0}$	Particulars	
1	Discharge (R)	0.0871 cumes
2	- do - (D)	0.089 "
3	Bed width	0.60
4	F.S.D	0.30
5	Side slopes	1:1
6	Value of 'N'	0.025
7	Velocity	0.398 m/sec
8	Bed level start	236.648
9	Bed level End	233.088
10	F.S.L start	236.948
11	Slope	1/1000
12	Ayacut	= - - -

2 minox

$\frac{1}{n_0}$	Particulars	
1	Discharge (R)	0.0871
2	- do - (D)	0.089
3	Bed width	0.60 M
4	F.S.D	0.30 M
5	Side slopes (D)	1:1
6	Value of 'N'	0.075
7	B.L start	231.220
8	B.L End	
9	F.S.L start	
10	Surface fall	1/1000
11	Velocity	0.398 m/sec
12	Ayacut	= - - -

-7-

Achovalli Distributary taking off at K.m 36.350 of PBC



P.B.C.



O.T. 36.350 K.m

station	236.499
B.L.	

R P.F.C. $L=0.510$ A.Y. 120.0, 0.780m
Acres
(125.00)
B.L. 235.297

R 3 P.F.C. $L=0.540$ K.m 1.488
A.Y. cut. 32.21 acres

Main distributary : 1075.23 acres

Nojachettuvypatti 448.00 Acres

Samtha Kovvur 564.61 Acres

2087.84
Acres

2087.81

2083.92 AC

0.59 land

2087.81×2.41
(D.W.) 1429

1129

2 0.12 curves

Nalla Chettu

1188.00 X 2.41

1129

2 0.12 curves

Santhu Kavu 564.61 X 2.41
2 1429

1129

2 0.159 curves

0.020 K.m 0.50 drop

0.670 K.m 0.50 drop cum bridge

0.740 K.m 2 P.F.C. $L=0.450$ A.Y. 75.05
B.L. 235.297 235.444

0.850 K.m 0.50 drop

1.130 K.m 0.50 drop

1.220 K.m 0.50 drop

1.280 K.m 0.50 drop

1.440 K.m 0.50 drop

1.480 H.m bridge

1.488 K.m 4 P.F.C. $L=0.350$ K.m A.Y. 18.44
B.L. 232.747

1.500 K.m 0.50 drop

1.570 K.m 0.50 drop

1.600 K.m 0.50 drop

1.650 K.m 0.50 drop

1.750 K.m 0.50 drop

1.810 K.m 0.50 drop

2.030 K.m 0.50 drop

2.060 K.m 0.50 drop

2.110 K.m 0.50 drop

2.220 K.m 0.50 drop

2.300 K.m 0.50 drop

2.420 K.m 0.50 drop 1.00 drop

2.440 K.m 0.50 drop x

2.460 K.m S.P. cum bridge

2.500 K.m 0.50 drop 1.00 drop.

2.550 K.m 0.50 drop x

2.575 K.m bridge

2.820 K.m 0.50 drop

2.850 K.m 0.50 drop cum bridge

2.930 H.m 0.50 drop 1.00 drop.

Achawalli Dist.

2. 980 K.M. 0.50 drop ✓

3. 360 K.M. 0.50 drop

3. 460 K.M. 0.50 drop

3. 540 K.M. 0.495 drop 0.50 mdrop.

3. 640 K.M. Syphon (Proposed) Drawn Eq out let drop

3. 720 K.M. NallaCheruvupalli minir L= 6180 ml

3. 840 K.M. G.P.F.C. L=0.390 AY 35.10 ACRES

B.L 221.006 ✓

4. 070 K.M. 'I' cl bridge

4. 370

4. 100 K.M.

BL 220.919.

4. 600 K.M. bridge 9 P.F.C. L=0.50 K.M AY 35.08 ACRES

B.L 220.726 ✓

5. 060 K.M. 0.50 drop + 0.0 0.50 (1.00 mt)

5. 100 K.M. 0.50 drop ✓ 0.50

5. 140 K.M. 0.50 drop

5. 180 K.M. 0.50 drop

5. 220 K.M. 0.50 drop

5. 260 K.M. 0.50 drop

5. 310 K.M. 0.50 drop S.R. cum bridge Samthakavour minir

5. 390 K.M. Samthakavour minir

5. 400 K.M. 0.50 drop

5. 630 K.M. 10 P.F.C. L=0.480 K.M AY 36.22 ACRES

B.L 215.362

5. 640 K.M. B.L 215.409 ✓

5. 698 K.M. (0.50 drop) cum bridge

6. 360 K.M. 12 P.F.C. L=0.50 K.M AY 106.06 ACRES

B.L 214.619

6. 370 K.M. B.L 214.616

6. 380 K.M. 0.50 drop

6. 510 K.M. 0.50 drop

6. 800 K.M. 0.50 drop

6. 950 K.M. 14 L=0.930 K.M. AY 116.50 ACRES

B.L 212.900

NallaCheruvupalli minir
R 27.448.00 B.L. 220.875
5 P.F.C. L=0.390 K.M AY 39.93
ACRES

Nalla 39.93 X 2.417
1429 =

R P.F.C. L=0.20 K.M F. 4.700 K.M
AY 16.42 ACRES
16.42 X 2.417

S P.F.C. L=0.220 K.M T=9.94.600 K.M
AY 57.79 ACRES

57.79 X 2.417
1429 (Duty) =

=

Samthakavour minir B.L 215.691

AY. 564.61 ACRES
L= 3300 mtrs

564.61 X 2.417

R P.F.C. L= 0.480 K.M 5.640 K.M
AY. 32.66 ACRES

1429 (Duty) =

R P.F.C. L= 0.510 K.M 6.370 K.M
AY. 126.59 ACRES

126.59 X 2.417 Ha
1429 Ha (Duty) =

=

-9- Achaearachis 3 dis!

15^R AF.C. Log. @ 930Km . 6.960
A.Y. 174.13 Acqy 8.9

$$\underline{[74 \cdot 13 \times 2 \cdot 4)}$$

1429

End B.L 208.022

56

34

18
X
106

Sl No	Description	0.0 To 2.960	2.96 To 5.31	5.31 To 8.028
1	Discharge (R)	$0.8572 \text{ m}^3/\text{sec}$	$0.6208 \text{ m}^3/\text{sec}$	$0.3451 \text{ m}^3/\text{sec}$
2	do (D)	0.8948 "	$0.6473 \text{ m}^3/\text{sec}$	0.3519 "
3	Bed width	2.50 M	2.30M	
A	Surf. fall	1/3000	1/3000	1/3000
5	Bed level start	236.499	223.023	215.891
	End	223.023	215.591	208.022
6	F.S.L	237.199	223.623	
7.	Ground level	237.210	224.430	
8	Velocity	0.4480 m/sec	0.4149 m/sec	0.3606 m/sec
9	value 'N'	0.025	0.025	0.025
10	F.S.D	0.70 M	0.60 M	0.50 M
11	Length	8.028 km		
12	Angle			

Nalla cheruvupalli minor off take at 3.720 KM or Achavalli dist

→ Nalla cheruvupalli minor
O.TAKE 3.720KM

elevating B.L. 220. 875

Total area cut, 448.00 Acres
super prepared, 0.760M —
km.

2^R P.F.C - 56.0 ACRES 2.400
B.L. 215.475

L- 1500 mt
500

B.L 212.525 3.350

5^R P.F.C 46.0 ACRES 4.230

B.L. 217.945

L = 550 mt

0.50M d 5.230
0.50M d 5.400

B.L. 204.005

0.090 K.M	0.50 drop	
0.277 K.M	bridge	
0.632 K.M	bridge	
1.180 K.M	bridge	
1.532 K.M	bridge	
1.680 K.M	0.50 drop	
1.770 K.M	0.50 drop	
1.830 K.M	0.50 drop	
1.950 K.M	0.50 drop	
2.220 K.M	0.50 drop	
2.234 K.M	bridge	
2.400 K.M	0.50 drop	1 P.F.C 85 ACRES
2.610 K.M	0.50 drop	L = 600 mt
2.820 K.M	0.50 drop	
2.908 K.M	bridge	
3.030 K.M	0.50 drop	
3.204 K.M	bridge	
3.350 K.M	0.700	3 P.F.C 70.0 ACRES
3.360 K.M	0.50 drop	L = 600 mt
3.450 K.M	0.50 drop	
3.750 K.M	0.50 drop	
3.840 K.M	0.50 drop	
3.960 K.M	1.000	
4.040 K.M	0.50 drop	bridge
4.110 K.M	0.50 drop	
4.230 K.M	0.50 drop	4 P.F.C 67.0 ACRES
4.430 K.M	bridge	L = 650 mt
4.590 K.M	0.50 drop	
4.710 K.M	0.50 drop	
4.830 K.M	0.50 drop	
5.165 K.M	bridge	
5.583 K.M	bridge	
5.670 K.M	0.50 drop	6 P.F.C 60.0 ACRES
		L = 600 mt

"Nalla Choruva patti miree

- 2 -

B.L 202.085-

End B.L 201-495

5.790 K.M 0.51 drop

6-090 K-7

6-180 K. 17

a. 57 drop

0.50 drop T.P.F.C - 640 Hwy

$$L = 600 \text{ m}$$

300 mls

Wunder
ausland

Sl No	Description	
1	Discharge (R)	0.1647 Ml Sec
2	— (D)	0.196 Ml Sec
3	Bed width	1.00
4	F. S.I	0.35
5	Velocity	0.476 Ml Sec
6	Bed level	220.875
7	F. S.I	221.225
8	Value 'N'	0.025
9	Surface level	11000
10	Ayacell	
11	Length	6.780

Santha Kovaly, minor off take at 5.390 ft Achavalli distributary

→ Achavalli Distributary
off take 5.390

B.L. Start 215.891

Ayacut Total = 564.61
Acres

B.L 213.541
T.E. 213.511

2RFC 34.35 Acres 1.140km

B.L 213.351
T.E. 213.251

length
4RFC 20.10 Acres 200mtrs
B.L 212.271

length - 200mtrs
6RFC 21.47 Acres 2.400
B.L. 210.271

length - 200 mtrs
8RFC 27.47 Acres 2.820km
B.L. 208.251

10P.F.C 89.20 Acres
B.208.(47)107
L = 600 mtrs.

0.210 KM drop 0.50M
0.275 KM 'L' class Bridge
0.502 KM Bridge
0.710 KM 0.50M DROP
0.840 KM 0.50M DROP
0.864 KM S.P. CUM Bridge
0.880 KM 1st F.C 61.00 Acres length 50mtrs
1.120 KM 'L' class Bridge
1.140 KM length .300mtrs
1.1420 KM 0.50M drop
1.530 KM 'L' class Bridge
1.700 KM 3rd P.F.C 152.17 Acres
Length 7.083 BL 212.121
1.800 KM 0.50M drop
1.845 KM Bridge
1.950 0.50M drop
2.160 KM 0.30M drop
2.450 5th F.C 62.49 Acres length 200
2.460 0.30M drop
2.664 Bridge 1st P.Bridge
2.820 KM 7th F.C 61.36 Acres length 200
2.835 KM 0.30M drop
2.925 KM 0.50M drop
3.090 KM 0.30M drop 9th P.C 90 Acres
L = 800 mtrs
3.300 KM T.F

Sl.	Description	
1	Discharge (R)	0.231 M ³ /sec
2	(T)	0.2427 M ³ /sec
3	Bed width	1.00
4	Velocity	0.5056 M/sec
5	Bed level start — de — End	215.891
6	F.S.L. start	216.291
7	Value w.	0.025
8	Surface fall	1/1000
9	Velocity	0.602 M/sec
10	j.b/d	2.5
	v/v ₀	0.84

Pendular distribution off take 41.000 of P. C.



P. C Canal.

start BL 235.160

Total Aycut on pendular dist

on Yerripalli I - { 878.45 840.23

on Yerripalli II - { 286.16 291.21

on Gotur minor - { 2760.38

on pendular dist - 2689 = 32

$$\underline{6614 = 31 \text{ ACRES}}$$

$$\underline{120 = 00}$$

673431

60

6794 = 31 ACRES

~~6890.76 ACRES~~

$$\begin{array}{r} 6794 \times 2.471 \\ \times 2 \\ \hline 2.471 \quad \text{Census} \\ \hline \underline{\underline{x 1429}} \end{array} = 1.96$$

IR minor 3.135 KM

(372 ACRES) BL : 233.690

233.140

$$L = 2.000 \text{ KM}$$

61.819.79

IR minor
length allowed

PENDULAR DISTRICTORY

Yerripalli minor (2)
(286 = 16)

0.200 (879 = 45) 0.640 KM

0.748 KM 0.50 M drop cum Bridge

0.850 KM Inlet

1.030 KM Inlet

1.4400 Gotur minor (2760.38 ACRES)

1.460 KM 'I' class Bridge

1.540 (2) minor (347.83 ACRES)

L = 2.070 KM B.L (234.174)

1.570 KM Inlet

1.675 KM Inlet

1.865 KM Inlet

1.880 PROPOSED 'I' class Bridge

2.300 KM Inlet

2.350 KM Inlet

2.555 KM Inlet

2.920 KM Inlet

2.995 KM Inlet

3.1135 KM 0.50 M drop cum Bridge

3.260 KM 0.50 M drop

3.320 KM 0.50 M drop (X)

3.420 KM 0.50 M drop

3.500 KM 0.50 M drop

3.540 KM (3) minor (357.33 ACRES)

L = 1.950 KM BL (234.007)

3.595 KM 0.50 M drop cum Bridge

3.760 KM 0.50 M drop

4.100 KM 'I' class Bridge

4.200 KM 0.50 M drop

4.280 KM 0.50 M drop

4.260 KM 0.50 M drop

4.480 KM 0.50 M drop

4.540 KM 0.50 M drop

4.600 KM 1.00 M drop

4.675 KM 0.50 M drop cum Bridge

4.800 KM 0.50 M drop

4.860 KM 1.00 M drop

2R minor

5.480 KM

(321.00 ACres)

L = 1.800 KM

B-L = 220.854

3R minor

5.990 KM

(397.00 ACres)

B.L = 219.677

L = 2.400 KM

4R minor

7.380 KM

(321.00 ACres)

216.212

L = 1.850 KM

215.206

120.00 ftens 5R minor.

8.700

206.276

205.776

L = 1.800

PENDULUS DISTRIBUTORY

4.960 KM 1.00 M drop
 5.040 KM 0.50 M drop
 5.100 KM 0.50 M drop
 5.187 KM 0.50 M drop cum Bridge

5.480 KM 0.50 M drop

3L

5.500 KM 4L minor (175.20 ACres)

L = 1.100 KM B.L (220.854²)

5.530 KM 1' class Bridge

5.800 KM 0.50 M drop

5.900 KM 0.50 M drop

6.000 KM 0.50 M drop 4L

5L minor (191.60 ACres)

L = 1.320 KM B.L 219.674

6.190 KM 1' class Bridge

6.500 KM 0.50 M drop

6.700 KM 0.50 M drop

6.800 KM 0.50 M drop

6.980 KM 0.50 M drop

7.100 KM 0.50 M drop

7.160 KM 0.50 M drop cum Bridge

7.320 KM 0.50 M drop

7.400 KM 5L minor (205.86 ACres)

L = 1.320 KM B.L = 215.206

7.420 KM 0.50 M drop

7.520 KM 1.00 M drop

7.550 KM 1' class Bridge

7.660 KM 0.50 M drop

7.760 KM 1.00 M drop

7.860 KM 0.50 M drop

7.980 KM 0.50 M drop

8.080 KM 0.50 M drop

8.160 KM 0.50 M drop

8.260 KM 0.50 M drop

8.320 KM 0.50 M drop

8.380 KM 0.50 M drop

8.440 KM 0.50 M drop

8.500 KM 0.50 M drop

8.580 KM 1.00 M drop

8.700 KM 0.50 M drop

8.750 KM 0.50 M drop proposed

8.760 KM 0.50 M drop S.L 4

8.820 KM 0.50 M drop

8.880 KM 1.00 M drop

9.020 KM 0.50 M drop

9.100 KM 0.50M DROP
 9.350 KM 'L' class Bridge
 9.540 KM 1.0 M DROP
 9.620 KM 1.0 M DROP
 9.680 KM 0.50M DROP 200.442.
 T.E 60 cms.



9.720 KM Tail End.

B.L END 199.917

HYDRAULIC PARTICULARS

REACH	KM 0.000 to 0.748	KM 0.748 to 1.460	KM 1.460 to 5.530	KM 5.530 to 7.420	KM 7.420 to 9.720
DISCHARGE (R)	2.9354 CUMESCA	2.676 CUMESCA	1.9212 CUMESCA	0.8467 CUMESCA	0.220 CUMESCA
DISCHARGE (D)	3.093 CUMESCA	2.937 CUMESCA	2.152 CUMESCA	1.129 CUMESCA	0.3166 CUMESCA
BED WIDTH	4.20 MTS	4.00 MTS	3.50 MTS	2.50 MTS	1.20 MTS
F.S.D	1.00 M	1.00 M	0.90 M	0.75 M	0.55 M
SIDE SLOPES	1:1	1:1	1:1	1:1	1:1
SURFACE FALL	1/3000	1/3000	1/3000	1/3000	1/3000
VALUE OF 'n'	0.0225	0.0225	0.0225	0.0225	0.025
VELOCITY	0.658 M/Sec	0.6527 M/Sec	0.6054 M/Sec	0.5227 M/Sec	0.3904 M/Sec

63^{70.50}
31.50

S.L-B 0.015

32.97

16
YERRIPALLI MINOR I off take 0.200 KM or pendluw.

PENDLUW DISTRIBUTORY.

KM 0.200

B.L start 235.094

Yerripalli I 878.451
Yerripalli II 286.16
1164.61 Acres

1164.61
2.41 X 1629
0.337 Cms

✓
No 6165
233.889
233.289

94.24 AC E. 1^L A₂ 26181 ACV 1.860 KM
= 300 MT L = 560 MT 233.957
232.957

4R₁ (19.34 Acres) 2.420 KM
length = 500 MT 229.393
228.793

4R₁ (22.96 ACres) 3.080 KM
L = 4000 MT 227.047
226.467
4R₂ (53.30 ACres) 3.480 KM
L = 200 MT 225.516
224.916

6R 85.62 AC E. 6R₁ 89.92 AC 3.840 KM
L = 860 MT L = 500 MT 224.029
223.473
8R (97.63) ACres 223.189
L = 540 MT 222.689

4.480 KM
221.309
220.809

OFF TAKE AT KM 0.200 KM

KM 0.480 U.T (NOT completed)

KM 0.525 S.P cum 'L' class Bridge

KM 0.640 Yerripalli minor II

(286.16 Acres)

KM 0.820 S.P

KM 0.840 Inlet and outlet

KM 0.980 Inlet

KM 1.200 Inlet and outlet

KM 1.231 S.P

KM 1.278 'L' class Bridge

KM 1.582 (0.60M Drop) 0.90

KM 1.760 S.P

(38)

1.860 KM 2 R (0.60M Drop)

E (38.24 AC) L = 560 M

1.987 KM 'L' class Bridge

2.100 KM 0.60M Drop

2.240 KM 0.60M Drop

2.300 KM 1.00M Drop

2.384 KM 'L' class Bridge.

2.420 KM 3 L M 0.60M Drop

(43.29 Acres) (660 m length)

2.500 KM 'L' class Bridge

2.680 KM 0.60M drop

2.760 KM 0.60M Drop

3.080 KM 0.60M Drop 5 L 53.03 AC

3.260 KM 0.60M Drop L = 4000 MT

3.480 KM 0.60M Drop 5 L 65.85 AC

3.495 KM 'L' class Bridge L = 4000 MT

3.660 0.60M Drop

3.840 KM 0.60M Drop

3.960 KM 'L' class Bridge 0.60MT

4.100 KM 7 L (0.52M Drop)

4.180 KM (43.98 AC) L = 540 MT 0.52M Drop

4.242 KM 'L' class Bridge

4.340 KM 0.50MT Drop

4.480 KM 0.50MT Drop.

qR 62.37 Acres

L = 1.000 Km

$$\begin{array}{r} 4.640 \text{ Km} \\ 4.660 \text{ Km} (81.87 \text{ AC}) \\ 4.900 \text{ Km} \end{array}$$

220.649

220.149

$$\begin{array}{r} 217.069 \\ 216.569 \end{array}$$

B.L END 215.789

4.522 Km 'L' class Bridge

4.640 Km T_A 0.50 M drop4.660 Km (81.87 AC) L = 600 M.
0.50 M drop

4.980 Km 0.50 M drop

5.100 Km 0.50 M drop

5.200 Km 0.50 M drop

5.360 Km 0.50 M drop

5.420 Km 0.50 M drop

5.500 Tail End

HYDRAULIC PARTICULARS

1st Reach 2nd Reach 3rd Reach

	0.000 to 0.660	0.660 to 3.960	3.960 to 5.500
BED WIDTH	1.50M	1.20M	1.00M
F.S.D AT HEAD	0.60M	0.50M	0.40M
BED SLOPE	1/500	1/1200	1/1000
BED LEVEL AT HEAD	235.094	234.652	223.329
F.S.L AT HEAD	235.694	235.252	223.829
HEAD DISCHARGE	0.4786 cu m/sec	0.3612 cu m/sec	0.1920 cu m/sec

18

YERRIPALLI MINOR II off take 0.640 of YERRIPALLI
- MINOR I

→ YERRIPALLI MINOR NO 1.

Off take 0.640

234.735

<u>52.46 ACRES</u>	IR
B.L 234.59	234.445
length (500 mt)	

(34.95 ACRES) 3 R.F.C

B.L 231.219

length 490.00 mts

(11.13 ACRES) 5 R.F.C

B.L 228.399

length 70 mt

HYDRAULIC PARTICULARS

DISCHARGE (R)	0.117 CUMEC
DISCHARGE (D)	0.124 -
SECTION	0.9 x 0.35 M
SURFACE FALL	1/1000
VELOCITY	0.33 M/SEC
BED LEVEL	234.735
F.S.I.	235.085
Bed H (dts)	0.90 M

Total Area = 286.16 ACRES

0.290 KM 2 L 51.73 (ACRES) B.L 234.59 length 500 mt

0.300 KM Drop cum bridge.

0.450 KM Drop

0.570 KM Drop

0.720 KM Drop

0.810 KM Drop

0.930 KM Drop

1.030 KM 4 L (75.30 ACRES) B.L 231.219 L = 490 mt

1.040 KM Drop cum bridge

1.200 KM Drop

1.290 KM Drop

1.350 KM Drop

1.500 KM Drop

1.670 KM 6 L F.C 40.00 ACRES.

B.L 228.399 length 200 mts.

1.680 KM Drop cum bridge

1.736 KM Drop

1.860 KM Tail End

L = 0.640

7 L F.C (Tail end)

(20.59 ACRES)

B.L 226.804 length 640.00 mt

(B)

19
Grotur Minor off take at 1.400 km of pendlur distributry

← PENDLUR DISTRIBUTORY

km 1.400 of pendlur

Total Area out 2760.38 Acres

234.226.

0.799

$\frac{2760.38}{2.447} \times 1429$
 2.447×1429
 2.47

R P.F.C (29.23 Acres) 1.50 KM
Length: 0.100 KM B.L. 226.731
225.731

R 3 P.F.C (32.85 Acres) 1.880 KM
Length: 0.200 KM B.L. 225.600
224.600

R 3 P.F.C (59.36 Acres) 2.620 KM
Length: 0.200 KM B.L. 222.755
222.155

R 4 P.F.C (96.62 Acres) 3.860 KM
Length: 0.120 KM B.L. 221.734
220.734

5 P.F.C (99.57 Acres) 4.215 KM
Length: 0.400 KM B.L. 219.117
219.017
6 P.F.C (82.19 Acres) 5.120 KM
Length: 0.240 KM B.L. 218.519
218.019

7 P.F.C (31.90 Acres) 5.000 KM
Length: 0.120 KM 216.803
216.305

8 P.F.C (44.41 Acres) 5.280 KM
Length: 1.000 KM B.L. 215.185

9 R (193.42 Acres) 6.385 KM
Length: 0.400 KM B.L. 210.219
209.749

0.150 KM 1M DROP cum Bridge

0.360 KM 1M DROP 1^LP.F.C (78.60 Acres)
Length: 0.220 KM B.L. 233.107
0.580 KM 1M DROP 2^L 232.107

0.610 KM S.L.B

0.760 KM 1M DROP 2^LP.F.C (55.47 Acres)
Length: 0.120 KM B.L. 230.975
0.880 KM 1M DROP 2^L 229.975
1.060 KM 1M DROP 3^LP.F.C (74.39 Acres)
Length: 0.200 KM B.L. 228.876
1.230 KM Inlet 227.876

1.260 KM 1M DROP

1.500 KM 1M DROP 4^LF.C (66.14 Acres)
Length: 0.100 KM B.L. 226.731
1.700 KM S.L.B. 225.731

1.880 KM 1M DROP 5^LF.C (44.78 Acres)
Length: 0.200 KM B.L. 225.600
2.083 KM (1M DROP) cum Bridge 224.600

2.400 KM 0.60 M DROP 6^LF.C (51.63 AC)
Length: 0.200 KM B.L. 223.123/222.828
2.620 KM 0.60 M DROP 7^LF.C (92.32 AC)
Length: 0.900 KM B.L. 222.755

2.870 KM S.L.B. 222.155

2.935 KM 8^LF.C (97.83 Acres)

Length: 0.500 KM B.L:

3.610 S.L.B.

3.860 KM (1M DROP) 9^LF.C (85.66 Acres)
Length: 0.600 KM B.L. 221.734/220.734

3.980 KM 1M DROP 10 F.C (94.014 Acres)

Length: 0.400 KM B.L. 220.695/219.695

4.080 KM 1M DROP

4.215 KM 0.50 M DROP Bridge 11 F.C (81.46 Acres)
Length: 0.245 KM 219.117/219.017

4.460 KM 12 (75.38 AC), 13 F.C (95.31 AC)

0.50 M DROP Length: 0.500 KM B.L. 218.519

4.700 KM 1M DROP

4.900 KM S.L.B. 13 L

5.000 KM 0.50 M DROP 14 (99.70 Acres)

Length: 0.600 KM B.L. 216.803/216.305

5.170 KM (1M DROP) cum S.L.B

5.280 KM 15 (99.73 ACRES)

Length: 1.000 KM 215.185

5.420 KM 1M DROP 16 (83.53 ACRES)

5.680 KM 1M DROP 16 L

5.860 KM 1M DROP S.L.B 17 (55.82 Acres)

Length: 1.000 KM B.L. 212.459

6.080 KM 1M DROP 211.959

6.280 KM 0.50 DROP 17 L

6.385 KM 0.50 M DROP Bridge 18 (304.95 Acres)

Length: 0.500 B.L. 210.249

209.749

I R F.C (210.40 Acre) 7.875 KM
Length: 0.500 KM B.L: 205.003
204.503

II R F.C (115.00 Acre) 8.820 KM
Length: 0.40 KM B.L: 204.333
203.333
201 = 500

END B.L 197.173

- ↓ Q OT E P M / V O R ↓
- 6.600 KM 0.50 M DROPP
 - 6.740 KM 0.50 M DROPP
 - 6.860 KM 0.50 M DROPP
 - 6.970 KM 'L' class Bridge
 - 7.060 KM 0.50 M drop
 - 7.180 KM 1.00 M drop
 - 7.420 KM 1.00 M drop
 - 7.740 KM S-L-B
 - 7.880 KM 0.50 M DROPP
 - 8.220 KM 1M DROPP
 - 8.500 1M DROPP
 - 8.660 1M DROPP
 - 8.780 'B' class bridge
 - 6.820 KM ¹⁸ Q R F.C (109.29
Length: 0.450 KM B.L: 204.333
8.840 KM 1M DROPP 203.333
 - 9.060 1M DROPP
 - 9.220 1M DROPP
 - 9.600 KM 0.30 M DROPP
 - 9.920 KM Tail End.
- B.L: 197.175

HYDRAULIC PARTICULARS

REACH	K.M 0.000 to 2.100	K.M 2.100 to 4.220	K.M 4.220 to 6.400	K.M 6.400 to 9.920
DISCHARGE (R)	1.077 cumecs	0.880 cumecs	0.581 cumecs	0.180 cumecs
DISCHARGE (D)	1.184 cumecs	0.928 cumecs	0.612 cumecs	0.226 cumecs
BED WIDTH	2.90 mts	2.30 mts	2.00 mts	1.30 mts
F.S.D	0.75 M	0.75 M	0.60 M	0.40 M
SIDE SLOPES	1/2 : 1	1/2 : 1	1/2 : 1	1/2 : 1
SURFACE FALL	1/3000	1/3000	1/2500	1/2000
VALUE OF 'n'	0.025	0.025	0.025	0.025
VELOCITY	0.4821 m/sec	0.4628 m/sec	0.4436 m/sec	0.3762 m/sec

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CHINTALA JUTOR DISTRIBUTORY OFF TAKE AT 42.480 OF P.B.C

> > > P.B.CANAL
OFF TAKE @ K.M 42.480 OF P.B.C

TOTAL AYACHT : 121 ACR

113.70

35
15.6 ACR

1^R P.F.C [32 ACRES] 0.500 K.M
L = 200 m B.L = 234.617

2^R P.F.C (28 ACRES) 0.985 K.M
L = 220 m B.L = 232.103

HYDRAULIC PARTICULARS

DISCHARGE (R)

0.04681 CMM/S

DISCHARGE (D)

0.1009 CMM/S

BED WIDTH

0.60 MTS

F.S.D

0.40 "

BED FALL

1/4000 ISACL

VALUE OF "n"

0.025

VELOCITY

0.3215 M/S

SIDE SLOPE (D)

1:1

SIDE SLOPE (E)

1:1

BED LEVEL STARTING

234.748

TOTAL AYACHT

121 ACRES

6.60

BED LEVEL: 234.748 START

0.500 K.M 1^L P.F.C. [30 ACRES]

L = 200 m

0.510 K.M 0.60 M DROP

0.630 K.M 0.60 M DROP

0.720 K.M 0.60 M DROP

0.810 K.M 0.60 M DROP

0.975 K.M S.L.B

0.985 K.M 2^L P.F.C (31 ACRES)

L = 250 m

0.990 K.M 0.60 M DROP

1.080 K.M 0.60 M DROP

1.260 K.M 0.60 M DROP

1.320 K.M 0.60 M DROP

1.350 K.M 0.60 M DROP 90 ACR
3.60 229.610

1.380 K.M 0.60 M DROP

1.455 K.M S.L.B.

1.470 K.M 0.60 M DROP

1.505 K.M TAIL END

BED LEVEL 227.860 END

350
0.510

length
shown

PEDDADJUTUR DISTRIBUTORY OFF TAKE @ KM 47.150 OF P.B.C

P.B. CANAL

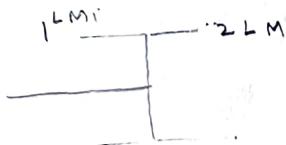
OFF TAKE AT KM 47.150 OF P.B.C

309.20 A.C.R.

Total A.yield : 389.0 a.m.s

HYDRAULIC PARTICULARS

DISCHARGE (R)	0.127 cum/sq sec
DISCHARGE (D)	0.2776 cum/sec
BED WIDTH	1.00 m
F.S.D	0.50 m
SURFACE FALL	1/1500
VELOCITY	0.4929 m/sec
SIDE SLOPES (E)	1:1
SIDE SLOPES (D)	1/2:1



1^R MINOR (80 ACRES) 1.075 K.M.
L = 600 M

2^R MINOR (68 ACRES) 1.615 K.M.

B:L =

L = 600 M

(contd.)
while

PEDDADJUTUR DISTRIBUTORY

0.094 K.M S.P.

0.280 K.M B CLASS BRIDGE

0.940 K.M S.P.

1.075 K.M 1^L MINOR [90 ACRES]
L = 650 M
1.08 K.M 0.60 M DROP 232.389
231.789

1.14 K.M 0.60 M DROP

1.200 K.M 0.60 M DROP

1.300 K.M 0.60 M DROP

1.384 K.M 0.60 M DROP CUM 1^L CLASS BRIDGE

1.480 K.M 0.60 M DROP

1.615 K.M 2^L MINOR [71 ACRES]
L = 450 M B.L

1.620 K.M 0.60 M DROP 228.428
227.828

1.700 K.M 0.60 M DROP

1.800 K.M 0.60 M DROP

1.860 K.M 0.60 M DROP

1.920 K.M 0.60 M DROP

1.980 K.M 0.60 M DROP