The Hydraulic particulars of Srisailam Right Main Canal (Unlined) are proposed as follows.

1. Discharge : 1246 cumecs/44,000 cusecs.
2. Bed Width : 78.00mt.
3. F S depth : 11.89mt.
4. Side slopes : 1:1
5. Surface fall : 1 in 12,000
6. Value of “ n ‘’ : 0.035 (Unlined)
7. Width of berm

at 5m height from canal bed : 2.50mt.

at 12.2m height from canal bed : 1.50mt.

at 20.2m height from canal bed : 1.50mt (in deep cut reaches)

**IMPROVEMENTS TO SRISAILAM RIGHT MAIN CANAL (UNLINED)**

**HYDRAULIC PARTICULARS**

Bed Width : 78.00 m

First Berm Width @ 5.00m From Bed level : 2.50 m

Second Berm Width @ 12.20m From Bed level : 1.50 m

Side slopes in Soils : 1:1

Side slopes in Nandyal Shale : 1:1

Full Supply Depth : 11.89 m

Bed Fall : 1 in 12000

Value of “ n ” : 0.035 (Unlined)

Velocity : 1.167 m/sec

Discharge required : 1246cumecs (44000 cusecs)

Discharge Designed : 1287cumecs (45450 cusecs)

Bed Level : +840’-0” (+256.030)

F.S.L : +879’-0” (+267.920)

Design

Area= 0.50 x( 78.00+ 88.00 )x 5.00+ 0.50x( 93.00+108.78 )x 6.89 = 1103.24

Wetted perimeter = 78.00+2x 5.00x +2x2.50+2x6.89x = 116.63

R = A / P = 1103.24/116.63 = 9.459

V = 1/n = (1/0.035) x x = 1.167

Q = A x V = 1103.24 x 1.167 = 1287.02 (or) 45450