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	:	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)

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)

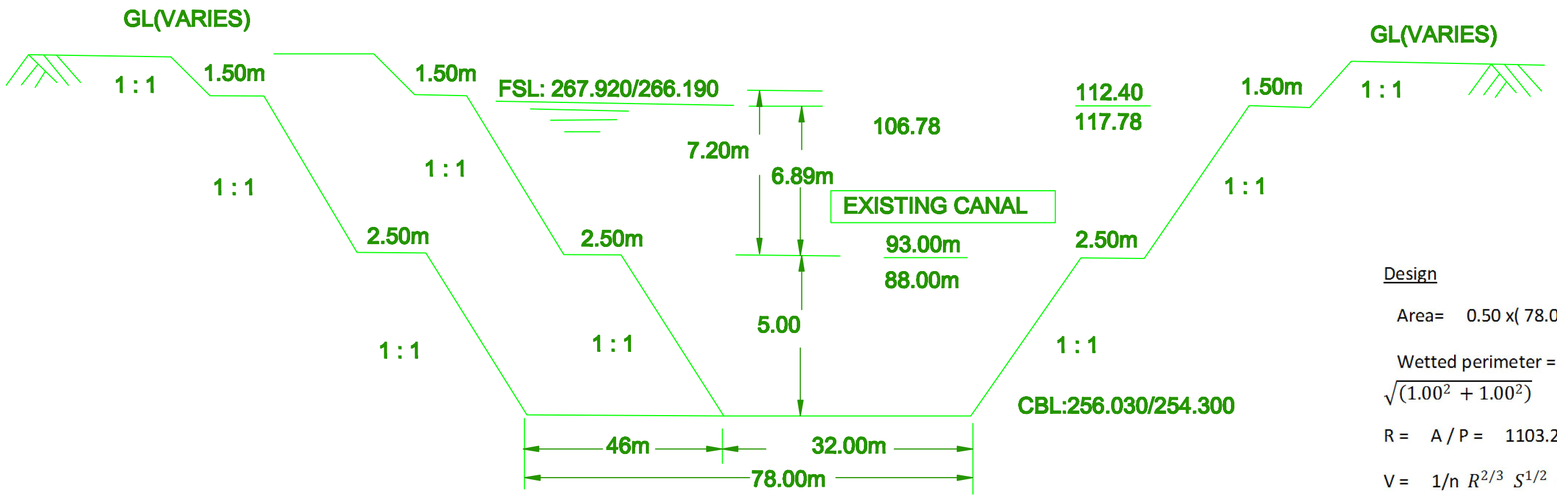
(7) Width of berm

at 5m height from canal bed : 2.50 mt.

at 12.2m height from canal bed : 1.50mt.

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

CROSS - SECTION



CROSS-SECTION @KM 0.450 OF SRMC

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 $\sqrt{(1.00^2 + 1.00^2)}$+2x2.50+2x6.89x $\sqrt{(1.00^2 + 1.00^2)}$ = 116.63

R = A / P = 1103.24/116.63 = 9.459

V = 1/n $R^{2/3}$ $S^{1/2}$ = (1/0.035) x $9.459^{2/3}$ x $\sqrt{(1/12000)}$ = 1.167

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