F). Copy of letter from Sri D. Rajendra Kumar , B.Sc., M.S.M.I.E., Engineer – IN – Chief, Central Designs Organisation , 158 Shops Complex, M.J Road ,Hyderabad 500001 addressed to the Chief Engineer , SRSP, 158 shopping complex M.J. road , Hyderabad – 500001.

Lr. No. CDO/EE-C1/1084/83-3, Dated: 28-3-83.

Sir,

Sub: Computation of Maximum Flood Discharge for design of cross Drainage works on main canals Branches and Distributaries – Regarding

Ref: This Office Lr . No: CDO/DD.C2/AD2/F-20/82-2 dt:23-7-81

In continuation to this office letter cited, the formulae for computing M.F. Discharges for cross drainage works in respect of main canals, branch canals and distributaries are proposed to be adopted as given below.

S.No.	Type Of Canal	C.A. in upland Acres.	CA in deltaic Tracts
1.	MAIN CANAL	Where $Q=CM^{3/4}$ C=1400 for CA-1 Sq. Mile. C=1200 for CA between 1 to 30 Sq. Miles.	$Q=CM^{2/3}$ Value of C=1000 Velocities in vents restricted to 10 ft/sec
		C=1060 for CA 30 to 500 Sq. Miles. For CA more than 500 Sq. Miles $Q=7000\sqrt{M}$	
		Velocity to be allowed in vents upto 12’ to 13’ / sec. depending on stream bed strata.	
2.	BRANCH CANALS Q > 500 c/s	RYVE’S FORMULA $Q= CM^{2/3}$ Where C=1000 With Velocity in Vents upto only 10’/sec.	Same as for upland areas.
3.	DISTRIBUTARIES Q < 500 c/s	RYVE’S FORMULA $Q= CM^{2/3}$ Where C=750 Velocity upto only 10’/sec.	Same as for upland areas.

To have a uniform procedure, the field officers may be informed to workout the M.F. D. by adopting the above formulae in all the future designs.

Sd/-J.S.R. Mohan Rao.
for Engineer-in-Chief
Central Designs Organisation: Hyd.