

## ANNEXURE - VIII

### STRANGE'S - TABLE

Total monsoon rainfall in mm	<u>Good Catchment Area</u>		<u>Average Catchment Area</u>		<u>Bad Catchment Area</u>	
	% of runoff to rainfall	Depth of run-off due to rainfall in mm	% of runoff to rainfall	Depth of run-off due to rainfall in mm	% of runoff to rainfall	Depth of run-off due to rainfall in mm
1	2	3	4	5	6	7
20	0.080	0.016	0.06	0.012	0.04	0.008
40	.0130	0.052	0.0975	0.039	0.065	0.026
60	0.245	0.147	0.17375	0.11025	0.1225	0.0735
80	0.410	0.328	0.3075	0.2560	0.205	0.164
100	0.700	0.700	0.525	0.525	0.350	0.350
120	0.900	1.080	0.675	0.810	0.450	0.540
140	1.1225	1.715	0.91875	1.28625	0.6125	0.8575
160	1.625	2.600	1.21875	1.950	0.8125	1.30
180	2.120	3.186	1.5900	2.862	1.060	1.908
200	2.700	5.400	2.025	4.050	1.350	2.70
220	3.260	7.172	2.445	5.379	1.630	3.586
240	3.810	9.144	2.8575	6.858	1.905	4.752
260	4.450	11.57	3.3375	8.6775	2.225	5.785
280	5.190	14.532	3.3925	10.899	2.595	7.266
300	5.900	17.700	4.425	13.275	2.95	8.85
320	6.720	21.504	5.040	16.126	3.36	10.752
340	7.750	25.738	5.6775	19.3035	3.785	12.869
360	8.550	30.780	6.4125	23.085	4.275	15.39
380	9.450	36.910	7.0876	27.6825	4.725	18.455
400	10.250	41.000	7.6875	30.750	5.125	20.50
420	11.050	46.410	8.2875	34.8075	5.525	23.2057

Total monsoon rainfall in mm	Good Catchment Area		Average Catchment Area		Bad Catchment Area	
	% of runoff to rainfall	Depth of run-off due to rainfall in mm	% of runoff to rainfall	Depth of run-off due to rainfall in mm	% of runoff to rainfall	Depth of run-off due to rainfall in mm
440	12.000	52.800	9.000	39.600	6.00	26.40
460	12.950	59.570	9.7125	44.6775	6.475	29.786
480	13.900	66.720	10.425	50.040	6.950	33.360
500	14.700	73.500	11.025	55.125	7.350	36.750
520	15.500	80.600	11.625	60.450	7.750	40.300
540	16.360	88.290	12.2625	66.2175	8.175	44.145
560	17.200	96.320	12.900	72.240	8.600	48.160
580	18.000	104.000	13.500	78.000	9.000	52.00
600	19.000	114.000	14.250	85.500	9.500	57.00
620	19.880	123.256	14.910	92.444	9.940	61.628
640	20.760	132.864	15.570	99.648	10.380	66.432
660	21.640	142.824	16.210	107.118	10.820	71.412
680	22.520	153.136	16.890	114.852	11.260	76.568
700	23.400	163.80	17.550	122.850	11.700	81.900
720	24.280	174.816	18.210	131.112	12.140	86.408
740	25.160	189.440	18.870	142.080	12.580	94.720
760	26.040	197.907	19.530	148.428	13.020	98.952
780	26.920	209.976	20.190	157.482	13.460	104.988
800	27.800	222.400	20.850	166.800	13.900	111.200
820	28.680	235.176	21.570	176.382	14.380	117.588
840	29.560	248.304	22.170	186.228	14.780	124.152
860	30.440	251.784	22.830	196.338	15.220	130.892
880	31.320	275.610	23.490	206.7075	16.660	137.805
900	32.200	289.800	24.150	217.350	16.100	144.900
920	33.080	304.336	24.810	228.252	16.540	152.168

Total monsoon rainfall in mm	Good Catchment Area		Average Catchment Area		Bad Catchment Area	
	% of runoff to rainfall	Depth of run-off due to rainfall in mm	% of runoff to rainfall	Depth of run-off due to rainfall in mm	% of runoff to rainfall	Depth of run-off due to rainfall in mm
940	33.960	319.224	25.470	239.414	16.980	159.612
960	34.860	334.464	26.145	250.848	17.430	167.232
980	35.720	350.056	26.790	262.590	17.860	175.028
1000	36.600	366.000	27.450	274.500	18.300	183.00
1020	37.480	382.290	28.110	286.175	18.740	191.145
1040	38.360	398.944	28.770	299.208	19.180	199.472
1060	39.240	415.944	29.430	311.958	19.620	207.972
1080	40.120	433.296	30.090	325.072	20.060	216.648
1100	41.000	451.000	30.750	338.250	20.500	225.500
1120	41.880	469.056	31.410	351.792	20.940	234.528
1140	42.780	487.464	32.070	365.598	21.380	243.732
1160	43.640	506.224	32.730	379.6688	21.820	253.112
1180	44.720	527.696	33.540	395.772	22.360	263.848
1200	45.400	544.800	34.050	408.600	22.700	272.400
1220	46.280	564.616	34.710	423.462	23.140	282.308
1240	47.160	584.784	35.370	438.588	23.580	292.392
1260	48.040	605.304	36.030	453.979	24.020	302.652
1280	48.920	626.176	36.690	469.632	24.460	313.088
1300	49.800	647.400	37.350	485.550	24.900	323.700
1320	50.680	667.656	38.010	500.852	25.340	333.828
1340	51.560	690.904	38.670	518.178	25.780	345.452
1360	52.44	713.184	39.320	534.888	26.220	356.592
1380	53.320	735.816	39.990	551.852	26.660	367.908
1400	54.200	758.800	40.600	568.100	27.100	379.400
1420	55.080	782.136	41.310	586.602	27.540	391.063

Total monsoon rainfall in mm	Good Catchment Area		Average Catchment Area		Bad Catchment Area	
	% of runoff to rainfall	Depth of run-off due to rainfall in mm	% of runoff to rainfall	Depth of run-off due to rainfall in mm	% of runoff to rainfall	Depth of run-off due to rainfall in mm
1440	55.960	805.824	41.970	604.368	27.980	402.912
1460	56.840	829.864	42.630	622.398	28.420	414.392
1480	57.220	854.256	43.280	640.692	28.860	427.128
1500	58.600	879.000	43.950	659.250	29.300	439.500
1520	59.480	904.096	44.610	678.072	29.740	452.048
1540	60.360	929.544	45.270	697.168	30.180	464.772
1560	61.240	955.844	45.930	710.508	30.620	477.672
1580	62.100	981.496	46.590	736.122	31.060	490.748
1600	63.000	1008.000	47.250	756.000	31.500	504.000
1620	63.880	1034.856	47.910	776.242	31.940	517.428
1640	64.760	1062.064	48.570	796.548	32.380	531.032
1660	65.640	1089.624	49.210	817.218	32.820	544.812
1680	66.520	1117.536	49.890	838.152	33.260	558.768
1700	67.400	1145.800	50.550	859.350	33.700	572.900
1720	68.280	1174.416	51.210	880.812	34.140	587.208
1740	69.060	1203.384	51.870	902.538	34.580	601.692
1760	70.040	1232.704	52.510	924.528	35.020	616.352
1780	70.920	1262.376	53.190	946.797	35.460	631.198
1800	71.800	1292.400	53.850	969.100	35.900	646.200

Notes:-

1. To get yield of run off from catchment area per Sq. kilometre in (metre)<sup>3</sup> multiply depth of runoff rainfall in millimetre by 1000.
2. Metre cube/Sq. kilometre = 91.4647 cubic feet/Sq mile.