

## ANNEXURE G : RECORDED STREAMFLOW DATA

- G.1. RECORDED RUNOFF AT GAUGE CG25 ..... 2
- G.2. RECORDED RUNOFF AT GAUGE CG26 ..... 3
- G.3. RECORDED RUNOFF AT GAUGE CG50 ..... 4
- G.4. RECORDED RUNOFF AT GAUGE CG55 ..... 5
- G.5. RECORDED RUNOFF AT GAUGE MG19..... 6
- G.6. RECORDED RUNOFF AT GAUGE MG23..... 7

### G.1.

## RECORDED RUNOFF AT GAUGE CG25

RECORDED RUNOFF AT GAUGE CG25													CATCHMENT AREA = 728.SQ.KM	
*****													*****	
YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	ACCUMULATED
1965/66	1.83	25.15	3.77	9.81	28.99	6.40	1.40	0.37	0.58	0.46	0.29	0.25	79.30	79.30
1966/67	3.72	11.88	12.56	91.61	192.07	15.69	36.61	18.79	18.17	5.70	4.44	3.93	415.17	494.47
1967/68	3.86	28.10	15.04	2.84	1.49	8.11	10.62	22.46	2.78	1.57	0.66	0.55	98.08	592.55
1968/69	3.79	1.68	14.64	2.41	1.57	11.45	14.81	14.54	9.16	2.36	1.56	0.51	78.48	671.03
1969/70	22.39	4.99	12.02	6.75	11.11	1.17	0.23	0.16	0.57	0.29	0.60	8.89	69.17	740.20
1970/71	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00	740.20
1971/72	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00	740.20
1972/73	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00	740.20
1973/74	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00	740.20
1974/75	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00	740.20
1975/76	10.46	44.74	29.04	57.24	91.85	73.21	46.37	19.75	11.79	3.08	1.74	10.73	400.00	1140.20
1976/77	62.00	44.85	8.87	17.10	39.39	80.11	12.55	2.68	1.20	0.96	0.67	4.18	274.56	1414.76
1977/78	32.74	10.92	4.29	61.96	27.25	25.69	99.96	12.77	5.78	4.53	3.55	9.33	298.77	1713.53
1978/79	9.04	4.94	84.51	8.04	6.64	5.09	0.10	0.41	0.34	7.34	57.60	31.79	215.84	1929.37
1979/80	40.56	23.66	33.03	6.93	14.70	6.68	1.08	0.67	0.54	0.42	0.31	13.78	142.36	2071.73
1980/81	1.32	4.83	5.58	45.63	13.69	19.66	5.50	2.85	3.19	1.14	4.36	3.19	110.94	2182.67
1981/82	1.34	15.09	10.85	6.75	8.15	3.88	20.89	5.86	1.89	1.19	0.64	0.67	77.20	2259.87
1982/83	8.14	24.98	5.62	1.00	1.21	0.65	0.79	0.50	0.80	1.15	1.10	0.62	46.56	2306.43
1983/84	1.11	17.91	7.15	10.90	1.26	1.53	2.62	4.80	0.87	0.71	0.66	1.29	50.81	2357.24
1984/85	1.84	5.79	4.05	1.97	3.78	5.33	1.28	0.21	0.13	0.12	0.05	0.03	24.58	2381.82
1985/86	2.20	5.01	10.25	1.81	10.51	2.65	3.80	0.27	2.18	0.71	1.12	1.58	42.09	2423.91
1986/87	10.95	21.38	3.13	0.98	1.92	2.83	4.69	0.47	0.21	0.25	3.53	17.53	67.87	2491.78
1987/88	9.09	19.44	30.09	8.95	10.94	45.18	10.81	4.97	2.66	8.89	1.27	9.74	162.03	2653.81
1988/89	9.86	13.45	19.36	21.25	54.89	11.06	3.44	5.98	16.16	3.69	1.35	0.71	161.20	2815.01
1989/90	0.87	4.27	1.83	5.10	3.31	4.11	12.65	7.67	2.63	2.37	1.89	0.57	47.27	2862.28
1990/91	0.43	0.19	3.61	42.80	24.56	36.67	5.18	1.39	4.60	2.37*	0.24	0.97	123.01	2985.29
1991/92	14.53	5.84	6.97	1.18*	0.25	1.82	0.26	0.12	0.14	0.14	1.92	1.53	34.70	3019.99
1992/93	3.26	35.02	2.30	6.00	36.59	12.00	10.69	0.44	0.11	0.06	0.08	0.02	106.57	3126.56
1993/94	26.62	12.92	30.24	43.40	31.15	6.39	7.56	2.29	0.00+	0.20	0.11	0.04	160.92	3287.48
1994/95	0.02	3.34	0.20	17.79	4.67	9.76	2.53	5.46	0.00+	0.18	0.16	0.06	44.17	3331.65
1995/96	24.76	74.03	76.13	52.34	74.73	57.76	10.73	6.61	1.70	1.88	4.11	1.98	386.76	3718.41
1996/97	22.26	52.79	54.28	30.24	6.23	53.24	43.18	12.38	5.29	4.69	2.98	3.41	290.97	4009.38
1997/98	5.74	5.40	11.65	41.29	10.85	14.77	1.66	0.85	0.51	0.31	0.59	0.20	93.82	4103.20
1998/99	2.16	46.70	18.92	26.83	4.68	8.46	1.56	4.52	0.12	0.14	0.13	0.04	114.26	4217.46
1999/ 0	7.44	1.31	2.46	85.28	21.56	17.36	6.73	6.11	0.95	0.61	0.30	5.50	155.61	4373.07
2000/ 1	6.43	3.02	0.00+	0.00+	8.73	5.31	22.75	14.64	2.32	1.90	6.08	8.70	79.88	4452.95
2001/ 2	40.95	46.60	39.01	68.34	13.89	8.67	14.29	4.65	10.00	2.79	18.17	24.17	291.53	4744.48
% TOTAL	8.26	13.07	11.83	16.54	16.07	11.86	8.80	3.91	2.26	1.31	2.58	3.51	100.00	
MAR =	128.23	MIL.CU.M	STANDARD DEVIATION =	117.15	MIL.CU.M	COEF.VARIATION =	0.91							

## G.2.

## RECORDED RUNOFF AT GAUGE CG26

RECORDED RUNOFF AT GAUGE CG26													CATCHMENT AREA = 212.SQ.KM	
*****													*****	
YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	ACCUMULATED
1965/66	0.58	4.15	1.73	12.02	1.60	0.76	0.41	0.42	0.25	0.21	0.16	0.12	22.41	22.41
1966/67	0.52	2.38	6.23	9.44	27.05	10.02	3.23	0.00	1.12	0.56	0.53	0.58	61.66	84.07
1967/68	0.43	7.11	3.01	0.69	0.48	2.44	1.66	3.90	0.83	0.72	0.39	0.25	21.91	105.98
1968/69	0.44	0.20	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.03*	0.35	0.23	1.25	107.23
1969/70	3.70	2.11	7.00	6.84	5.56	0.76	0.20	0.32	0.25	0.25	0.20	1.22	28.41	135.64
1970/71	2.52	0.38	10.27	7.05	6.88	2.87	5.74	2.15	0.63	0.54	0.30	0.23	39.56	175.20
1971/72	0.51	0.54	1.29	6.14	2.00	5.57	0.16	1.56	0.28	0.46	0.31	0.20	19.02	194.22
1972/73	0.90	4.14	0.22	0.29	3.54	1.48	2.96	0.32	0.13	0.17	2.19	0.27	16.61	210.83
1973/74	0.42	1.31	1.87	12.74	17.60	7.00	5.14	1.25	0.63	0.34	0.38	0.28	48.96	259.79
1974/75	0.16	21.27	6.99	5.39	6.16	8.98	0.32	1.68	0.24	0.34	0.30	1.18	53.01	312.80
1975/76	1.90	11.12	1.80	11.60	15.25	19.38	6.00	2.15	0.95	0.49	0.42	1.50	72.56	385.36
1976/77	15.40	17.80	1.37	3.92	5.18	14.75	2.60	0.66	0.44	0.29	0.17	0.52	63.10	448.46
1977/78	4.54	2.71	2.00	16.67	4.85	5.70	14.56	1.31	0.52	0.33	0.34	1.80	55.33	503.79
1978/79	3.32	1.00	6.89	1.94	2.36	2.77	0.09	0.43	0.50	1.57	11.44	5.31	37.62	541.41
1979/80	14.45	8.16	8.00	4.58	7.21	2.89	0.68	0.31	0.38	0.35	0.27	2.26	49.54	590.95
1980/81	1.13	4.30	3.63	17.16	6.94	10.43	3.16	1.19	1.28	0.59	1.30	0.83	51.94	642.89
1981/82	0.43	4.26	5.61	1.60	2.04	0.94	7.37	1.13	0.35	0.50	0.15	0.46	24.84	667.73
1982/83	5.09	10.68	1.59	0.36	1.18	1.74	0.85	0.72	0.41	0.24	0.24	0.12	23.22	690.95
1983/84	2.48	7.51	8.16	9.86	0.71	2.01	1.27	0.34	0.21	0.24	0.76	1.00	34.55	725.50
1984/85	0.56	3.53	4.11	0.25	10.36	6.82	0.67	0.17	0.13	0.14	0.12	0.03	26.89	752.39
1985/86	1.14	5.60	28.18	1.67	4.21	2.36	3.91	0.32	1.43	0.21	0.60	0.84	50.47	802.86
1986/87	10.47	21.08	1.99	0.77	0.56	1.84	4.70	0.11	0.02	0.07	2.24	14.85	58.70	861.56
1987/88	5.66	11.02	28.23	6.50	5.85	17.12	2.36	1.43	0.76	1.56	0.67	4.72	85.88	947.44
1988/89	4.19	10.47	15.72	16.68	34.35	4.45	0.80	0.92	3.20	0.08	0.02	0.03	90.91	1038.35
1989/90	0.20	6.18	1.51	0.49	3.63	3.93	11.24	2.67	0.05	0.05	0.19	0.05	30.19	1068.54
1990/91	0.31#	0.12#	0.42#	17.72#	17.21#	4.64#	0.61#	0.53#	0.44#	0.39	0.25	0.38	43.02	1111.56
1991/92	3.44	2.16	0.75	0.44	0.11	0.62	0.14	0.02	0.32	0.36	0.62	0.17#	9.15	1120.71
1992/93	0.27	4.84	0.92	0.33	1.53	1.93	1.42	0.64	0.18	0.22	0.24	0.15	12.67	1133.38
1993/94	2.08	1.82	2.92	5.58	3.89	1.69	2.51	1.84	0.72	0.59	0.55	0.22	24.41	1157.79
1994/95	0.11	0.04	0.40	2.02	1.07	1.79	2.67	1.13	0.19	0.13	0.13	0.27	9.95	1167.74
1995/96	2.07	9.12	6.76	5.43	7.27	4.45	0.61	0.31	0.17	0.52	1.00	0.28	37.99	1205.73
1996/97	3.44	10.13	7.71	4.22	2.32	7.23	4.85	2.74	3.10	1.22	1.13	1.09	49.18	1254.91
1997/98	0.79	1.05	1.81	5.04	3.90	5.49	1.69	0.86	0.60	0.59	0.76	0.63	23.21	1278.12
1998/99	0.72	5.43	3.99	2.93	2.08	2.43	0.43*	0.23*	0.77	1.03	1.53	1.39	22.96	1301.08
1999/ 0	1.88	1.28	8.56#	13.82#	8.87#	10.53#	9.16#	0.85#	0.62#	0.54#	0.53#	1.55#	58.19	1359.27
2000/ 1	2.05#	4.66#	9.99#	1.75	0.88	0.95	4.19	1.29	0.50	0.55	0.88	3.49	31.18	1390.45
2001/ 2	2.48	4.41	3.31	4.23	1.89	2.19	2.16	2.15	1.91	0.96	4.35	6.38	36.42	1426.87
% TOTAL	7.06	15.00	14.36	15.29	15.88	12.68	7.75	2.67	1.72	1.22	2.52	3.85	100.00	
MAR =	38.56 MIL.CU.M	STANDARD DEVIATION =					21.00 MIL.CU.M	COEF.VARIATION = 0.54						

### G.3.

## RECORDED RUNOFF AT GAUGE CG50

RECORDED RUNOFF AT GAUGE CG50													CATCHMENT AREA = 294.SQ.KM	
*****													*****	
YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	ACCUMULATED
1979/80	15.27#	9.35#	11.99#	3.86#	23.12#	4.54#	1.13#	0.56#	0.14#	0.09#	0.10#	4.09#	74.24	74.24
1980/81	3.26#	7.62#	4.21#	46.42#	14.60#	44.80#	14.22#	5.32#	5.48#	1.51#	5.36#	2.75#	155.55	229.79
1981/82	1.31#	13.89#	13.86#	4.78#	2.31#	2.47#	67.73#	4.29#	1.97#	1.44#	0.61#	0.84#	115.50	345.29
1982/83	18.01#	16.41#	5.48#	1.98#	3.19#	6.39#	3.53#	0.89#	2.03#	1.51#	1.62#	0.55#	61.59	406.88
1983/84	3.16#	15.68#	25.71#	22.76#	3.80#	48.07#	15.41#	6.90#	1.09#	0.88#	2.28#	1.73#	147.47	554.35
1984/85	6.38#	11.64#	6.50#	2.00#	16.84#	4.82#	2.56#	0.87#	0.85#	0.71#	0.64#	3.84#	57.65	612.00
1985/86	8.15#	33.71#	6.56#	8.91#	1.96#	3.65#	1.19#	2.52#	1.13#	1.84#	4.85#	27.36#	101.83	713.83
1986/87	38.09#	3.39#	2.38#	3.33#	4.38#	13.04#	1.24#	0.82#	1.46#	5.12#	27.35#	8.34#	108.94	822.77
1987/88	15.66#	14.85#	10.87#	36.67#	60.09#	14.48#	3.12#	3.13#	2.76#	6.03#	6.19#	17.36#	191.21	1013.98
1988/89	38.38#	17.69#	129.38#	10.06#	5.83#	13.65#	5.80#	2.30#	1.03#	0.38#	0.54#	8.17#	233.21	1247.19
1989/90	3.99#	10.33#	5.28#	9.56#	24.81#	4.36#	1.55#	1.83#	1.64#	0.36#	0.27#	0.10#	64.08	1311.27
1990/91	1.59#	73.98#	23.08#	25.82#	2.15#	0.88#	0.48#	0.12#	0.84#	11.89#	3.84#	3.47#	148.14	1459.41
1991/92	0.15#	0.04#	0.00#	0.00#	0.00#	0.00#	0.00#	0.37#	0.01#	2.87#	17.52#	0.61#	21.57	1480.98
1992/93	2.26#	11.13#	1.55#	15.20#	0.18#	0.01#	0.00#	0.00#	7.26#	10.57#	6.93#	8.09#	63.18	1544.16
1993/94	19.84#	37.75#	3.72#	3.34#	0.21#	0.01#	0.00#	0.00#	0.00#	0.00#	3.56#	0.05#	68.48	1612.64
1994/95	6.80#	1.04#	4.49#	0.27#	0.56#	0.00#	0.00#	0.00#	0.00#	5.90#	38.81#	38.53#	96.40	1709.04
1995/96	17.47#	54.20#	15.52#	6.28#	4.94#	2.36#	2.19#	3.01#	1.98#	11.10#	47.20#	27.55#	193.80	1902.84
1996/97	23.41#	21.95#	86.78#	18.81#	14.73#	7.53#	3.47#	3.12#	3.80#	3.24#	6.74#	20.27#	213.85	2116.69
1997/98	20.62#	23.95#	25.93#	2.03#	0.90#	0.13#	0.02#	0.00#	0.04#	3.07#	21.47#	6.62#	104.78	2221.47
1998/99	17.52#	4.04#	6.02#	0.88#	2.30#	0.10#	0.00#	0.00#	0.00#	2.21#	0.59#	54.98#	88.64	2310.11
1999/ 0	6.49#	36.39#	39.81#	27.95#	3.39#	4.96#	3.04#	0.80#	18.32#	16.39#	39.23#	32.20#	228.97	2539.08
2000/ 1	7.63#	5.64#	8.83#	18.34#	13.80#	66.35#	45.73#	34.68#	38.93#	17.01#	14.34#	22.24#	293.52	2832.60
2001/ 2	26.28#	8.21#	32.67#	30.76#	4.39#	8.46#	24.68#	25.77#	18.00#	29.03#	4.45#	3.08#	215.78	3048.38
% TOTAL	9.90	14.20	15.44	9.84	6.84	8.24	6.47	3.19	3.57	4.37	8.35	9.61	100.00	
MAR =	132.54 MIL.CU.M													
STANDARD DEVIATION =						71.61 MIL.CU.M								
COEF.VARIATION =								0.54						

### G.4.

## RECORDED RUNOFF AT GAUGE CG55

RECORDED RUNOFF AT GAUGE CG55												CATCHMENT AREA = 149.SQ.KM		
*****												*****		
YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	ACCUMULATED
1980/81	9.44#	5.08#	3.33#	2.86#	4.01#	2.20#	1.48#	0.97#	1.02#	0.98#	0.93#	2.45#	34.75	34.75
1981/82	1.47#	2.88#	8.31#	21.55#	7.38#	7.88#	2.38#	1.99#	2.53#	1.51#	1.74#	1.54#	61.16	95.91
1982/83	2.09#	2.99#	1.30#	0.93#	1.57#	6.26#	1.52#	0.97#	1.06#	0.95#	1.00#	0.85#	21.49	117.40
1983/84	2.33#	4.01#	6.64#	12.20#	1.36#	2.34#	1.60#	0.97#	0.85#	0.99#	0.96#	1.09#	35.34	152.74
1984/85	0.81#	4.40#	1.68#	0.05#	2.21#	8.22#	0.29#	0.01#	0.85#	0.99#	0.96#	1.09#	21.56	174.30
1985/86	1.10#	3.67#	4.07#	2.10#	2.95#	1.44#	3.96#	1.10#	1.05#	0.80#	0.90#	2.18#	25.32	199.62
1986/87	3.51#	50.90#	1.09#	0.88#	0.70#	1.06#	1.08#	0.92#	0.67#	0.71#	2.69#	13.07#	77.28	276.90
1987/88	21.48#	4.79#	5.32#	4.82#	4.98#	4.23#	2.34#	2.29#	2.12#	1.83#	3.43#	7.69#	65.32	342.22
1988/89	7.69#	8.02#	33.20#	9.21#	23.08#	9.22#	3.27#	2.45#	3.02#	2.07#	1.68#	1.37#	104.28	446.50
1989/90	1.39#	5.99#	6.20#	3.80#	2.95#	4.39#	12.77#	5.85#	2.04#	1.76#	0.56#	1.25#	48.95	495.45
1990/91	1.47#	1.13#	1.06#	10.89#	22.45#	3.44#	2.09#	1.69#	1.40#	1.40#	1.20#	1.21#	49.43	544.88
1991/92	3.12#	2.28#	1.41#	0.95#	0.72#	0.79#	0.63#	0.57#	0.57#	0.59#	0.60#	0.75#	12.98	557.86
1992/93	0.77#	7.63#	1.10#	0.80#	3.49#	2.51#	1.22#	0.84#	0.73#	0.62#	0.70#	0.69#	21.10	578.96
1993/94	3.22#	1.54#	2.33#	14.12#	3.64#	2.57#	1.56#	1.02#	0.58#	0.59#	0.60#	0.56#	32.33	611.29
1994/95	0.59#	0.53#	0.56#	0.63#	0.63#	0.96#	1.16#	0.84#	0.46#	0.48#	0.51#	0.51#	7.86	619.15
1995/96	1.33#	3.66#	2.96#	3.68#	8.25#	9.53#	0.63#	0.60#	0.47#	0.54#	0.97#	0.67#	33.29	652.44
1996/97	1.91#	10.07#	3.97#	2.22#	1.17#	11.90#	8.37#	12.83#	3.48#	0.91#	0.45#	0.77#	58.05	710.49
1997/98	0.49#	0.47#	5.20#	2.98#	2.05#	2.36#	0.57#	0.36#	0.24#	0.21#	0.18#	0.15#	15.26	725.75
1998/99	0.21#	20.06#	21.38#	2.87#	1.00#	1.04#	1.99#	0.90#	0.40#	0.19#	0.18#	0.16#	50.38	776.13
1999/ 0	0.47#	0.38#	11.73#	11.65#	4.18#	6.48#	8.56#	0.81#	0.39#	0.24#	0.23#	0.49#	45.61	821.74
2000/ 1	0.90#	2.50#	9.59#	0.83#	2.26#	0.64#	2.08#	0.68#	0.24#	0.17#	0.15#	0.75#	20.79	842.53
2001/ 2	1.99#	8.30#	1.22#	3.84#	1.07#	0.35#	0.22#	0.18#	0.11#	0.11#	0.11#	0.13#	17.63	860.16
% TOTAL	7.88	17.59	15.54	13.24	11.87	10.44	6.95	4.52	2.82	2.17	2.41	4.58	100.00	
MAR =	39.10 MIL.CU.M					STANDARD DEVIATION =	23.78 MIL.CU.M						COEF.VARIATION =	0.61

### G.5.

## RECORDED RUNOFF AT GAUGE MG19

RECORDED RUNOFF AT GAUGE MG19													CATCHMENT AREA = 95.SQ.KM	
*****													*****	
YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	ACCUMULATED
1964/65	5.34	3.31	2.67	1.68	0.34	0.16	1.64	1.46	0.77	0.67	0.78	0.64	19.46	19.46
1965/66	0.77	2.47	0.57	4.23	7.84	0.99	0.82	0.02*	0.32	0.10	0.06	0.02*	18.21	37.67
1966/67	0.10*	1.94*	0.63	3.66	11.54	2.38	5.39	3.11	3.09	0.76	0.37	0.25	33.22	70.89
1967/68	0.13	3.28	0.67	0.40	0.21	0.43	0.01*	4.98*	0.97	1.18	0.42	0.37*	13.05	83.94
1968/69	0.93*	0.70	4.20	0.60	0.79	5.93	6.14	3.92	1.98	0.64	0.60	0.30	26.73	110.67
1969/70	1.42	1.67	1.08	0.63	0.87	0.26	0.15	0.18	0.17	0.18	0.18	0.55	7.34	118.01
1970/71	0.00+	0.86	5.43	3.81	3.16	1.81	3.28	3.35	0.61	0.57	0.62	0.08	23.58	141.59
1971/72	0.22	0.11	0.79	7.96	7.32	14.88	2.48	3.97	1.27	0.72	0.35	0.24	40.31	181.90
1972/73	0.98	1.83	0.24	0.03*	3.61*	2.67	4.58	1.12	0.42	0.26	3.07	0.79	19.60	201.50
1973/74	0.93	1.49	2.31	12.79	13.38	2.96	1.67	1.35	1.00	0.57	1.66	1.80	41.91	243.41
1974/75	0.39	8.61	4.00	5.04	11.11	14.82	3.55	1.55	0.75	0.81	0.65	0.58	51.86	295.27
1975/76	1.37	8.69	6.59	17.55	16.07	24.15	9.65	3.56	2.97	1.13	0.64	2.78	95.15	390.42
1976/77	14.52	8.68	1.06	3.75	13.79	14.75	1.75	1.04	0.58	0.35	0.19	1.93	62.39	452.81
1977/78	5.55	4.27	3.94	17.41	6.57	9.39	8.90	1.11	0.51	0.28	0.15	1.18	59.26	512.07
1978/79	0.45	0.28	11.38	1.20	2.23	1.01	0.50	0.74	0.36	2.89	6.84	1.51	29.39	541.46
1979/80	8.89	6.38	3.48	1.75	1.47	0.93	0.98	0.36	0.28	0.44	0.37	0.86	26.19	567.65
1980/81	0.54	6.65	2.71	38.56	11.02	18.62	2.24	1.25	5.07	0.77	10.68	2.64	100.75	668.40
1981/82	0.96	31.32	4.45	10.60	32.42	1.37	85.31	1.16	0.78	0.64	0.47	0.41	169.89	838.29
1982/83	3.93	8.28	0.90	0.44	0.45	0.72	0.64	0.83	0.62	0.85	0.83	0.41	18.90	857.19
1983/84	0.63	5.21	9.49	4.73	0.48	0.72	0.48	3.48	0.59	0.46	0.41	0.80	27.48	884.67
1984/85	0.86	1.68	2.13	2.13	2.05	3.50	3.69	0.41	0.35	0.19	0.15	0.09	17.23	901.90
1985/86	1.37	2.59	7.60	1.03	0.65	0.42	0.33	0.22	1.58	0.23	1.27	0.90	18.19	920.09
1986/87	5.09	12.58	1.43	0.55	0.73	1.03	3.46	0.45	0.27	0.29	1.62	8.69	36.19	956.28
1987/88	3.55	6.24	4.92	1.08	5.60	11.41	0.93	2.49	1.85	2.38	1.04	3.64	45.13	1001.41
1988/89	7.39	4.12	7.92	13.07	10.48	1.94	1.60	13.87	11.24	4.63	1.66	0.25	78.17	1079.58
1989/90	0.19	2.29	1.25	6.60	5.34	4.29	8.62	8.91	0.78	0.91	0.56	0.26	40.00	1119.58
1990/91	0.14	0.06	0.46	9.32	14.05	10.41	1.36	0.59	0.49	0.38	0.29	0.23	37.78	1157.36
1991/92	9.35	2.15	1.39	0.54	0.41	0.30	0.22	0.15	0.15	0.15	0.32	0.22	15.35	1172.71
1992/93	0.41#	2.60#	0.19#	0.30#	4.19#	1.34#	1.77#	0.65#	0.28#	0.23#	0.22#	0.12#	12.30	1185.01
1993/94	3.99#	2.93#	1.16#	9.71#	7.11#	1.76#	1.15#	0.74#	0.43#	0.47#	0.44#	0.30#	30.19	1215.20
1994/95	0.27#	0.35#	0.17#	0.53#	0.24#	0.42#	0.25#	0.47#	0.16#	0.00+	0.09#	0.91#	3.86	1219.06
1995/96	4.14	7.82	3.79	5.42	1.80	8.59#	1.43#	1.35#	0.76#	0.65#	0.93#	0.68#	37.36	1256.42
1996/97	4.28#	8.40#	3.97#	5.53#	1.51#	7.15#	5.07#	5.68#	1.69#	0.00+	0.55#	0.58#	44.41	1300.83
1997/98	0.49#	0.66#	0.69#	1.76#	9.32#	14.22#	3.77#	1.25#	0.82#	0.78#	0.51#	0.40#	34.67	1335.50
1998/99	4.48#	5.49#	2.02#	4.21#	4.11#	1.67#	0.00+	1.17#	0.60#	0.44#	0.43#	0.31#	24.93	1360.43
1999/ 0	0.46#	0.31#	6.44#	2.59#	4.02#	2.51#	2.49#	1.50#	0.00+	0.46#	1.73#	2.36#	24.87	1385.30
2000/ 1	2.62#	6.27#	2.31#	2.31#	0.87#	1.97#	14.63#	8.56#	0.89#	0.79#	0.00+	2.77#	43.99	1429.29
2001/ 2	6.53#	11.73#	14.67#	15.84#	0.00+	0.73#	1.35#	2.01#	1.32#	0.13#	2.91#	2.91#	60.13	1489.42
% TOTAL	6.96	12.37	8.67	14.73	14.58	12.93	12.91	5.98	3.14	1.84	2.96	2.94	100.00	
MAR =	39.20 MIL.CU.M			STANDARD DEVIATION =			30.89 MIL.CU.M			COEF.VARIATION =			0.79	

## G.6.

## RECORDED RUNOFF AT GAUGE MG23

RECORDED RUNOFF AT GAUGE MG23													CATCHMENT AREA = 1554.SQ.KM	
*****													*****	
YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	ACCUMULATED
1982/83	39.50	84.41	10.68	5.67	5.18	6.82	10.05	10.33	7.24	52.09	9.22	11.59	252.78	252.78
1983/84	6.02	62.97	196.58	36.24	28.79	44.21	15.76	220.49	6.23	2.21	2.41	53.93	675.84	928.62
1984/85	101.22	26.84	36.79	32.73	81.81	86.04	72.11	0.16	0.87	0.12	0.05	0.00	438.74	1367.36
1985/86	26.97	56.29	198.89	17.02	35.92	37.21	16.45	10.21	20.98	9.36	4.98	238.38	672.66	2040.02
1986/87	308.53	642.85	176.15	69.80	0.00+	71.07	121.14	35.04	6.91	7.11	24.98	313.13	1776.71	3816.73
1987/88	235.92	73.38	65.17	19.76	77.41	190.99	84.26	51.60	15.70	15.33	7.74	51.90	889.16	4705.89
1988/89	61.85	45.80	79.62	65.50	389.34	66.70	27.21	46.05	54.20	15.07	8.38	5.22	864.94	5570.83
1989/90	4.71	89.68	21.96	37.40	79.46	69.73	90.45	33.46	15.16	18.01	9.31	2.88	472.21	6043.04
1990/91	1.33	0.72	1.52	204.15	196.82	130.62	26.33	11.13	8.42	4.11	2.35	3.33	590.83	6633.87
1991/92	86.88	41.92	31.99	7.56	6.10	3.76	3.69	2.05	1.98	1.84	1.86	2.74	192.37	6826.24
1992/93	10.34	15.72	1.42	4.68	36.58	18.24	30.07	7.30	3.29	2.41	3.32	1.16#	134.53	6960.77
1993/94	62.28#	52.06#	44.92#	163.58#	110.48#	33.08#	14.89#	11.59#	9.45#	9.56#	8.55#	6.88#	527.32	7488.09
1994/95	6.33#	10.24#	6.89#	30.57#	7.65#	23.64#	11.53#	13.53#	5.40#	4.83#	4.28#	3.77#	128.66	7616.75
1995/96	25.10#	32.19#	84.94#	53.69#	56.05#	93.98#	21.00#	9.93#	6.72#	6.71#	7.63#	6.11#	404.05	8020.80
1996/97	23.18#	77.30#	74.45#	84.78#	22.17#	182.27#	97.34#	60.64#	44.51#	21.52#	21.68#	13.94#	723.78	8744.58
1997/98	10.50#	16.61#	34.98#	34.98#	0.00+	119.53#	66.12#	22.19#	12.71#	10.45#	8.60#	8.88#	345.55	9090.13
1998/99	32.62#	49.10#	11.98#	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	0.00+	93.70	9183.83
1999/ 0	0.00+	0.00+	1.95#	10.11#	7.22#	10.55#	24.65#	6.45#	6.33#	8.36#	39.23#	32.20#	147.05	9330.88
2000/ 1	7.63#	5.64#	8.83#	18.34#	13.80#	66.35#	45.73#	34.68#	38.93#	17.01#	14.34#	22.24#	293.52	9624.40
2001/ 2	26.28#	8.21#	32.67#	30.76#	4.39#	8.46#	24.68#	25.77#	18.00#	29.03#	4.45#	3.08#	215.78	9840.18
% TOTAL	10.95	14.15	11.41	9.42	11.78	12.84	8.17	6.23	2.88	2.39	1.86	7.94	100.00	
MAR =	492.01 MIL.CU.M	STANDARD DEVIATION =					391.42 MIL.CU.M	COEF.VARIATION = 0.80						