

** RESERVOIR OPERATION STUDY OF AGOS DAM ** PLAN A-2 KARAN HAI 295

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	WILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (M)	I.W.L. (M)	I-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
24 JAN.	73.02	0.91	0.	72.11	130.95	540.42	105.000	41.600	121.292	0.860	395.0	31.78	23.52	55.30
24 FEB.	89.56	1.17	0.	88.39	136.95	540.42	105.000	41.600	121.292	0.860	433.0	31.78	28.93	60.77
24 MAR.	48.16	1.30	0.	46.86	136.95	540.42	105.000	41.600	121.292	0.860	256.3	31.78	5.81	35.60
24 APR.	38.03	1.55	0.	36.48	137.44	572.62	104.538	41.600	120.829	0.860	227.0	31.78	0.	31.78
24 MAY	55.58	1.25	0.	54.33	138.00	500.72	103.561	41.600	119.796	0.860	140.0	31.78	0.	31.78
24 JUNE	42.53	0.90	0.	41.63	139.95	494.58	102.846	41.600	119.053	0.860	227.0	31.78	0.	31.78
24 JULY	28.11	0.71	0.	27.40	141.07	432.08	101.597	41.600	117.755	0.860	227.0	31.78	0.	31.78
24 AUG.	34.53	0.55	0.	33.98	142.75	425.99	100.765	41.600	115.849	0.860	227.0	31.78	0.	31.78
24 SEP.	44.09	0.70	0.	43.39	144.56	420.34	100.879	41.600	114.926	0.860	227.0	31.78	0.	31.78
24 OCT.	156.76	0.72	11.52	145.24	137.57	540.42	103.792	41.600	120.764	0.860	539.1	31.78	43.70	75.48
24 NOV.	281.46	0.70	143.81	136.95	136.95	540.42	105.000	41.600	121.292	0.860	720.0	31.78	69.02	100.80
24 DEC.	368.08	0.76	210.57	136.95	136.95	540.42	105.000	41.600	121.292	0.860	744.0	31.78	72.38	104.16
ANNUAL TOTAL	1241.71	11.25	348.57	1062.10	1067.10	6057.30	1039.900	499.200	1455.544	10.570	4448.2	381.38	241.57	622.74
ANNUAL MEAN	103.48	0.94	32.36	70.17	138.92	504.78	105.325	41.600	119.612	0.860	370.7	31.78	20.11	51.90

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	WILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (M)	I.W.L. (M)	I-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
25 JAN.	175.00	0.91	61.34	136.95	136.95	540.42	105.000	41.600	121.292	0.860	744.0	31.78	72.38	104.16
25 FEB.	168.15	1.17	78.03	136.95	136.95	540.42	105.000	41.600	121.292	0.860	672.0	31.78	62.30	94.08
25 MAR.	100.76	1.36	0.	99.40	136.95	540.42	105.000	41.600	121.292	0.860	540.0	31.78	45.82	75.60
25 APR.	43.68	1.56	0.	42.12	137.04	517.60	104.910	41.600	121.215	0.860	227.0	31.78	0.	31.78
25 MAY	38.10	1.77	0.	36.33	137.69	518.55	104.642	41.600	120.647	0.860	227.0	31.78	0.	31.78
25 JUNE	23.54	0.90	0.	22.64	139.98	482.65	102.477	41.600	118.670	0.860	227.0	31.78	0.	31.78
25 JULY	61.54	0.72	0.	60.82	140.21	510.97	102.286	41.600	118.471	0.860	227.0	31.78	0.	31.78
25 AUG.	72.40	0.60	0.	71.80	137.70	540.42	104.729	41.600	121.079	0.860	329.7	31.78	14.38	46.16
25 SEP.	107.70	0.78	0.	106.92	136.95	540.42	105.000	41.600	121.292	0.860	542.1	31.78	46.92	78.70
25 OCT.	80.57	0.76	0.	79.81	136.95	540.42	105.000	41.600	121.292	0.860	432.2	31.78	28.73	40.51
25 NOV.	232.67	0.70	94.42	136.95	136.95	540.42	105.000	41.600	121.292	0.860	720.0	31.78	69.02	100.80
25 DEC.	109.17	0.76	0.	108.41	136.95	540.42	105.000	41.600	121.292	0.860	589.0	31.78	50.68	82.66
ANNUAL TOTAL	1706.31	11.45	141.25	1053.61	1053.61	6355.03	1075.771	499.200	1449.091	10.570	5497.1	381.38	241.57	622.74
ANNUAL MEAN	100.51	0.95	11.64	70.23	137.57	529.42	104.481	41.600	120.758	0.860	458.1	31.78	20.11	51.90

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	WILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (M)	I.W.L. (M)	I-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
26 JAN.	71.80	0.91	0.	70.89	136.95	540.42	105.000	41.600	121.292	0.860	421.2	31.78	27.44	59.24
26 FEB.	61.83	1.17	0.	60.66	136.95	540.42	105.000	41.600	121.292	0.860	297.6	31.78	9.89	41.67
26 MAR.	35.97	1.55	0.	34.42	137.51	570.76	104.512	41.600	120.781	0.860	227.0	31.78	0.	31.78
26 APR.	15.99	1.68	0.	14.31	138.00	445.53	102.043	41.600	118.219	0.860	227.0	31.78	0.	31.78
26 MAY	25.49	1.14	0.	24.35	139.00	530.26	101.531	41.600	116.563	0.860	227.0	31.78	0.	31.78
26 JUNE	30.86	0.79	0.	29.07	140.75	516.63	101.676	41.600	115.676	0.860	227.0	31.78	0.	31.78
26 JULY	10.27	0.59	0.	9.68	142.02	488.03	102.084	41.600	107.791	0.860	227.0	31.78	0.	31.78
26 AUG.	101.77	0.69	0.	100.08	143.50	434.50	101.152	41.600	109.984	0.860	227.0	31.78	0.	31.78
26 SEP.	151.05	0.76	0.	150.29	144.71	540.42	101.189	41.600	120.208	0.860	423.8	31.78	27.83	59.61
26 OCT.	282.52	0.76	164.81	136.95	136.95	540.42	105.000	41.600	121.292	0.860	744.0	31.78	72.38	104.16
26 NOV.	197.67	0.70	92.81	136.95	136.95	540.42	105.000	41.600	121.292	0.860	720.0	31.78	69.02	100.80
26 DEC.	252.73	0.76	116.57	136.95	136.95	540.42	105.000	41.600	121.292	0.860	744.0	31.78	72.38	104.16
ANNUAL TOTAL	1256.93	10.85	425.80	902.68	1000.44	5619.28	1034.861	499.200	1409.753	10.320	4716.6	381.38	241.57	622.74
ANNUAL MEAN	103.08	0.90	26.94	75.23	141.70	468.27	101.238	41.600	117.438	0.860	393.1	31.78	20.11	51.90
GRAND MEAN	100.74	0.92	19.50	70.57	140.52	485.16	101.977	41.600	118.201	0.860	393.1	31.78	20.11	51.90

HIGH WATER LEVEL IN METER 165.000 LOW WATER LEVEL IN METER 128.000 WATER HEAD IN METER ***** 102.020
 INSTALLED CAPACITY IN MW 140.000 DEPLETABLE CAPACITY IN MW 104.409 TARGET OPERATION HOUR A DAY 6.56
 RATED DISCHARGE IN CMS 167.826 TYPE OF ROLL CURVE ** WARTAKU MASS CURVE

ROLL CURVE IN MW: JAN. 28.469 FEB. 28.469 MAR. 28.469 APR. 28.469 MAY 28.469 JUNE 28.469 JULY 28.469 AUG. 28.469 SEP. 28.469 OCT. 28.469 NOV. 28.469 DEC. 28.469

LENGTH OF INFLOW SERIES IN YEAR 2**

YEAR MONTH	INFLOW (CMS)	EVAPD (CMS)	SPILL (CMS)	Q1 (CMS)	Q2 (CMS)	SP (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD EFFICI. (%)	POWER (MW)	O.HOUR (HR)	P.F. (GW)	S.E. (GW)	T.F. (GW)
1 JAN.	188.55	0.91	50.69	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	75.69	104.16
1 FEB.	98.54	1.17	0.	97.37	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	58.45	66.92
1 MAR.	112.59	1.56	0.	111.03	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	56.12	84.59
1 APR.	62.05	1.56	0.	60.49	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	1.31	29.78
1 MAY	21.92	1.26	0.	20.66	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	0.	28.47
1 JUNE	19.06	0.87	0.	18.19	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	0.	28.47
1 JULY	22.07	0.67	0.	21.40	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	0.	28.47
1 AUG.	27.40	0.51	0.	26.89	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	0.	28.47
1 SEP.	25.91	0.63	0.	25.28	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	6.40	34.82
1 OCT.	137.76	0.67	0.	137.09	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	77.33	100.80
1 NOV.	147.78	0.70	10.13	137.65	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	73.69	104.16
1 DEC.	190.95	0.76	55.22	135.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	326.00	667.63
ANNUAL TOTAL	1035.07	11.05	115.89	908.13	1090.75	5756.54	1941.647	499.200	116.624	10.320	1880.0	4768.8	541.63	667.63
ANNUAL MEAN	86.26	0.92	9.66	75.68	140.90	479.63	161.804	41.600	118.052	0.860	140.0	397.4	28.47	55.64

YEAR MONTH	INFLOW (CMS)	EVAPD (CMS)	SPILL (CMS)	Q1 (CMS)	Q2 (CMS)	SP (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD EFFICI. (%)	POWER (MW)	O.HOUR (HR)	P.F. (GW)	S.E. (GW)	T.F. (GW)
2 JAN.	157.21	0.91	19.35	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	75.69	104.16
2 FEB.	98.15	1.17	0.	96.98	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	58.15	66.62
2 MAR.	56.87	1.55	0.	55.32	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	0.	28.47
2 APR.	26.77	1.52	0.	25.25	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	0.	28.47
2 MAY	71.90	1.26	0.	70.64	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	11.83	40.30
2 JUNE	52.66	0.93	0.	51.73	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	0.	28.47
2 JULY	19.77	0.73	0.	19.04	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	0.	28.47
2 AUG.	65.72	0.59	0.	65.13	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	0.	28.47
2 SEP.	29.63	0.77	0.	28.86	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	2.17	30.64
2 OCT.	51.83	0.75	0.	51.08	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	72.33	100.80
2 NOV.	304.57	0.70	166.92	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	73.69	104.16
2 DEC.	175.71	0.76	108.00	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	28.47	275.87	617.49
ANNUAL TOTAL	1217.56	11.20	579.98	837.38	1019.96	6006.47	1971.803	499.200	146.177	10.320	1880.0	4610.7	541.63	617.49
ANNUAL MEAN	101.46	0.93	48.33	69.78	135.75	524.73	164.517	41.600	120.598	0.860	140.0	367.6	28.47	51.46

RESERVOIR OPERATION STUDY OF AGUS DAM ** PLAN A-2 KANAR HWL 795

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	024 (CMS)	UG (CMS)	S2 (MCM)	K.W.L. (CM)	L.W.L. (CM)	L.HEAD (CM)	EFFICI.	POWER (MW)	0-HOUR (HR)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
5 JAN.	191.04	0.91	55.72	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
5 FEB.	112.28	1.17	0.	111.41	116.95	540.42	165.000	41.600	121.292	0.860	140.0	546.4	28.47	48.06	76.55
5 MAR.	39.72	1.36	0.	38.36	136.95	540.42	165.000	41.600	121.292	0.860	140.0	208.4	28.47	0.70	29.17
5 APR.	35.60	1.55	0.	38.79	137.35	527.61	164.682	41.600	120.959	0.860	150.0	203.3	28.47	0.	28.47
5 MAY	23.19	1.25	0.	37.99	139.00	436.63	163.279	41.600	119.503	0.860	140.0	203.3	28.47	0.	28.47
5 JUNE	37.00	0.89	0.	39.72	140.65	475.26	161.928	41.600	118.100	0.860	140.0	203.3	28.47	0.	28.47
5 JULY	18.24	0.69	0.	39.05	142.89	417.65	160.151	41.600	116.252	0.860	140.0	203.3	28.47	0.	28.47
5 AUG.	61.65	0.55	0.	59.04	147.84	478.72	160.190	41.600	116.292	0.860	140.0	203.3	28.47	0.	28.47
5 SEP.	48.88	0.74	0.	39.58	140.15	498.48	162.357	41.600	118.525	0.860	140.0	203.3	28.47	0.	28.47
5 OCT.	542.51	0.74	198.57	151.89	156.97	540.42	164.947	41.600	121.276	0.860	140.0	716.4	28.47	71.83	100.30
5 NOV.	74.65	0.70	0.	73.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	588.8	28.47	25.96	56.43
5 DEC.	244.60	0.76	106.90	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
ANNUAL TOTAL	1245.52	11.29	361.28	862.96	1064.77	6120.24	1962.579	499.200	1457.226	10.370	1680.0	4568.5	441.65	297.94	639.57
ANNUAL MEAN	102.96	0.94	30.11	71.91	138.73	510.02	165.532	41.600	119.769	0.860	140.0	380.7	28.47	24.83	53.30

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	024 (CMS)	UG (CMS)	S2 (MCM)	K.W.L. (CM)	L.W.L. (CM)	L.HEAD (CM)	EFFICI.	POWER (MW)	0-HOUR (HR)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
4 JAN.	142.57	0.71	4.71	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
4 FEB.	157.39	1.17	19.27	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	672.0	28.47	65.61	94.08
4 MAR.	64.02	1.36	0.	47.65	136.95	540.42	165.000	41.600	121.292	0.860	140.0	231.7	28.47	5.97	32.44
4 APR.	42.44	1.54	0.	40.90	136.95	540.42	165.000	41.600	121.292	0.860	140.0	215.0	28.47	1.63	30.10
4 MAY	19.41	1.25	0.	37.88	138.37	487.65	163.081	41.600	119.920	0.860	140.0	203.3	28.47	0.	28.47
4 JUNE	37.56	0.89	0.	39.66	140.41	479.89	162.127	41.600	118.507	0.860	140.0	203.3	28.47	0.	28.47
4 JULY	11.70	0.69	0.	39.13	143.18	404.81	159.929	41.600	116.021	0.860	140.0	203.3	28.47	0.	28.47
4 AUG.	41.86	0.51	0.	39.86	145.81	406.40	157.205	41.600	115.911	0.860	140.0	203.3	28.47	0.	28.47
4 SEP.	21.07	0.67	0.	41.77	147.90	351.72	156.376	41.600	112.514	0.860	140.0	203.3	28.47	0.	28.47
4 OCT.	118.60	0.69	0.	47.77	145.39	540.42	160.825	41.600	117.576	0.860	140.0	674.8	28.47	6.36	34.82
4 NOV.	129.06	0.70	0.	128.56	136.95	540.42	165.000	41.600	121.292	0.860	140.0	674.8	28.47	66.00	94.47
4 DEC.	302.81	0.76	165.17	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
ANNUAL TOTAL	1065.20	11.15	190.82	863.27	1079.15	6970.32	1960.658	499.200	1425.522	10.370	1680.0	4547.0	341.63	294.96	656.59
ANNUAL MEAN	88.77	0.93	15.90	71.94	139.93	492.51	162.358	41.600	118.798	0.860	140.0	378.9	28.47	24.58	53.05

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	024 (CMS)	UG (CMS)	S2 (MCM)	K.W.L. (CM)	L.W.L. (CM)	L.HEAD (CM)	EFFICI.	POWER (MW)	0-HOUR (HR)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
5 JAN.	126.86	0.71	0.	125.74	136.95	540.42	165.000	41.600	121.292	0.860	140.0	684.2	28.47	67.32	95.79
5 FEB.	87.94	1.17	0.	86.76	136.95	540.42	165.000	41.600	121.292	0.860	140.0	495.7	28.47	11.13	59.60
5 MAR.	151.65	1.36	15.13	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
5 APR.	51.56	1.55	0.	50.84	137.47	522.74	164.541	41.600	120.855	0.860	140.0	203.3	28.47	0.	28.47
5 MAY	22.76	1.24	0.	38.00	139.35	478.58	162.995	41.600	119.209	0.860	140.0	203.3	28.47	0.	28.47
5 JUNE	16.52	0.86	0.	40.56	142.90	414.16	160.166	41.600	116.274	0.860	140.0	203.3	28.47	0.	28.47
5 JULY	16.09	0.66	0.	40.55	145.29	353.80	156.076	41.600	112.020	0.860	140.0	203.3	28.47	0.	28.47
5 AUG.	21.92	0.67	0.	47.16	148.99	267.63	151.642	41.600	107.179	0.860	140.0	203.3	28.47	0.	28.47
5 SEP.	39.34	0.51	0.	45.79	160.12	199.17	147.024	41.600	102.466	0.860	140.0	203.3	28.47	0.	28.47
5 OCT.	83.23	0.50	0.	45.47	161.00	181.06	144.134	41.600	99.675	0.860	135.1	210.7	28.47	0.	28.47
5 NOV.	79.57	0.67	83.51	65.88	162.54	276.60	146.890	41.600	102.325	0.860	140.0	203.3	28.47	0.	28.47
5 DEC.	895.74	0.87	100.54	786.79	1757.87	4823.63	1890.311	499.200	1365.577	10.370	1675.0	4009.2	541.63	218.63	560.26
ANNUAL TOTAL	76.64	0.87	8.38	65.40	146.49	401.97	157.509	41.498	113.631	0.860	139.6	334.1	78.47	18.22	46.69

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
6 JAN.	260.30	0.91	128.64	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
6 FEB.	60.55	1.17	0.	59.38	136.95	540.42	165.000	41.600	121.292	0.860	140.0	291.4	28.47	12.52	40.79
6 MAR.	57.50	1.16	0.	57.37	137.08	536.33	166.899	41.600	121.183	0.860	140.0	203.3	28.47	0.	28.47
6 APR.	57.41	1.15	0.	57.31	137.42	538.74	166.609	41.600	120.882	0.860	140.0	203.3	28.47	0.	28.47
6 MAY	22.64	1.25	0.	37.39	134.98	644.29	163.299	41.600	119.524	0.860	140.0	203.3	28.47	0.	28.47
6 JUNE	43.91	0.89	0.	39.56	140.89	693.24	162.387	41.600	118.577	0.860	140.0	203.3	28.47	0.	28.47
6 JULY	20.62	0.71	0.	39.65	141.43	643.04	161.309	41.600	117.457	0.860	140.0	203.3	28.47	0.	28.47
6 AUG.	14.08	0.51	0.	49.66	145.77	649.76	157.950	41.600	117.958	0.860	140.0	203.3	28.47	0.	28.47
6 SEP.	31.58	0.65	0.	62.37	149.84	640.48	154.985	41.600	119.857	0.860	140.0	203.3	28.47	0.	28.47
6 OCT.	103.93	0.68	0.	39.65	144.35	511.26	159.025	41.600	115.079	0.860	140.0	203.3	28.47	0.	28.47
6 NOV.	192.67	0.69	50.98	129.75	136.97	540.42	164.947	41.600	121.273	0.860	140.0	682.0	28.47	67.01	95.48
6 DEC.	127.97	0.76	0.	127.71	136.95	540.42	165.000	41.600	121.292	0.860	140.0	691.1	28.47	68.78	96.75
ANNUAL TOTAL	960.32	11.17	141.19	768.03	1647.99	5865.60	1748.314	499.200	1422.486	10.320	1680.0	4035.2	361.63	514.23	855.85
ANNUAL MEAN	80.03	0.93	15.10	64.00	140.25	488.80	162.353	41.600	118.540	0.860	140.0	336.3	28.47	42.85	71.32

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
7 JAN.	129.23	0.91	0.	128.32	136.95	540.42	165.000	41.600	121.292	0.860	140.0	827.1	28.47	69.13	97.60
7 FEB.	98.06	1.17	0.	96.88	136.95	540.42	165.000	41.600	121.292	0.860	140.0	475.4	28.47	38.09	66.55
7 MAR.	176.56	1.16	0.	174.98	136.95	540.42	165.000	41.600	121.292	0.860	140.0	679.0	28.47	66.59	95.06
7 APR.	136.82	1.16	0.	134.74	136.95	540.42	165.000	41.600	121.292	0.860	140.0	711.1	28.47	71.08	99.55
7 MAY	51.56	1.28	0.	50.26	136.95	540.42	165.000	41.600	121.292	0.860	140.0	303.6	28.47	14.32	42.79
7 JUNE	51.60	0.94	0.	50.67	136.95	540.42	165.000	41.600	121.292	0.860	140.0	266.4	28.47	8.62	37.29
7 JULY	31.58	0.76	0.	31.45	137.01	548.76	164.959	41.600	121.245	0.860	140.0	203.3	28.47	0.	28.47
7 AUG.	34.18	0.60	0.	32.40	137.04	539.07	164.926	41.600	121.211	0.860	140.0	203.3	28.47	0.	28.47
7 SEP.	70.53	0.74	0.	69.74	136.95	540.42	164.999	41.600	121.290	0.860	140.0	394.0	28.47	22.49	50.96
7 OCT.	170.73	0.76	53.02	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
7 NOV.	191.05	0.70	55.40	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	720.0	28.47	72.33	100.80
7 DEC.	475.28	0.76	57.56	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
ANNUAL TOTAL	1590.80	11.55	612.52	1166.93	1643.59	6441.94	1779.882	499.200	1455.370	10.320	1680.0	4113.2	361.63	514.23	855.85
ANNUAL MEAN	132.57	0.96	56.05	95.58	136.97	540.16	164.990	41.600	121.261	0.860	140.0	509.4	28.47	42.85	71.32

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
8 JAN.	202.21	0.91	64.55	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
8 FEB.	65.47	1.17	0.	64.29	136.95	540.42	165.000	41.600	121.292	0.860	140.0	315.5	28.47	15.70	44.17
8 MAR.	37.55	1.35	0.	37.57	137.47	522.80	164.562	41.600	120.834	0.860	140.0	203.3	28.47	0.	28.47
8 APR.	22.40	1.50	0.	39.59	139.45	474.87	162.906	41.600	119.117	0.860	140.0	203.3	28.47	0.	28.47
8 MAY	16.48	1.17	0.	39.17	145.37	605.59	159.814	41.600	115.901	0.860	140.0	203.3	28.47	0.	28.47
8 JUNE	16.49	0.77	0.	42.00	148.71	532.24	153.795	41.600	111.706	0.860	140.0	203.3	28.47	0.	28.47
8 JULY	16.58	0.58	0.	42.49	154.47	794.06	151.745	41.600	106.845	0.860	140.0	203.3	28.47	0.	28.47
8 AUG.	31.00	0.46	0.	46.15	161.54	717.65	147.373	41.600	102.833	0.860	140.0	203.3	28.47	0.	28.47
8 SEP.	27.05	0.51	0.	47.06	160.95	164.42	164.203	41.600	99.691	0.860	135.2	210.5	28.47	0.	28.47
8 OCT.	56.87	0.50	0.	45.76	160.27	192.29	163.269	41.600	94.785	0.860	133.4	213.4	28.47	0.	28.47
8 NOV.	71.06	0.50	0.	46.00	167.80	235.96	164.503	41.600	101.986	0.860	139.9	203.4	28.47	0.	28.47
8 DEC.	42.78	0.56	0.	45.59	158.74	268.22	169.077	41.600	104.643	0.860	140.0	203.3	28.47	0.	28.47
ANNUAL TOTAL	599.63	9.97	65.59	624.61	1303.55	4133.10	1853.987	499.200	1324.152	10.320	1668.5	5110.3	341.63	91.39	433.01
ANNUAL MEAN	49.97	0.83	5.47	52.07	108.63	344.42	154.499	41.600	110.346	0.860	139.0	259.2	28.47	7.62	36.08

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	Q24 (CMS)	QG (CMS)	SZ (CMS)	M.W.L. (CM)	T.W.L. (CM)	E.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.F. (GWH)
9 JAN.	115.16	0.76	0.	40.74	149.04	403.53	153.539	41.600	111.458	0.860	140.0	203.3	28.47	0.	28.47
9 FEB.	64.57	1.17	0.	42.59	140.09	513.87	162.584	41.600	118.574	0.860	140.0	203.3	28.47	0.	28.47
9 MAR.	59.76	1.34	0.	48.51	137.26	540.42	165.685	41.600	121.024	0.860	140.0	203.3	28.47	8.34	36.81
9 APR.	66.53	1.50	0.	44.97	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	19.35	47.82
9 MAY.	59.23	1.24	0.	57.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	15.00	44.07
9 JUNE.	50.49	0.96	0.	69.56	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	8.01	36.47
9 JULY.	34.93	0.75	0.	37.50	137.22	531.52	165.760	41.600	121.059	0.860	140.0	203.3	28.47	0.	28.47
9 AUG.	24.68	0.59	0.	37.88	138.58	495.61	163.632	41.600	119.869	0.860	140.0	203.3	28.47	0.	28.47
9 SEP.	40.44	0.75	0.	39.46	139.70	495.21	162.705	41.600	118.907	0.860	140.0	203.3	28.47	0.	28.47
9 OCT.	132.89	0.74	0.	115.98	137.07	540.42	164.798	41.600	121.185	0.860	140.0	203.3	28.47	59.13	87.00
9 NOV.	129.21	0.70	0.	126.51	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	66.12	94.58
9 DEC.	44.66	0.76	0.	44.91	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	4.93	35.40
ANNUAL TOTAL	822.52	11.28	0.	700.71	1003.71	6781.87	1965.560	499.200	1438.557	10.320	1680.0	5756.4	541.65	181.47	523.09
ANNUAL MEAN	68.53	0.94	0.	58.39	138.64	521.49	163.630	41.600	119.880	0.860	140.0	511.4	28.47	15.12	43.59

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	Q24 (CMS)	QG (CMS)	SZ (CMS)	M.W.L. (CM)	T.W.L. (CM)	E.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.F. (GWH)
10 JAN.	111.00	0.91	0.	110.10	136.95	540.42	165.000	41.600	121.292	0.860	140.0	598.1	28.47	53.26	83.73
10 FEB.	75.87	1.17	0.	76.70	136.95	540.42	165.000	41.600	121.292	0.860	140.0	598.1	28.47	27.84	51.31
10 MAR.	114.10	1.16	0.	112.76	136.95	540.42	165.000	41.600	121.292	0.860	140.0	612.45	28.47	57.28	85.75
10 APR.	24.13	1.53	0.	39.04	138.21	492.80	163.937	41.600	120.186	0.860	140.0	203.3	28.47	0.	28.47
10 MAY	14.14	1.20	0.	38.74	141.75	428.71	161.050	41.600	117.848	0.860	140.0	203.3	28.47	0.	28.47
10 JUNE	16.44	0.81	0.	41.43	146.62	501.88	157.316	41.600	113.298	0.860	140.0	203.3	28.47	0.	28.47
10 JULY	14.78	0.61	0.	41.97	152.47	288.23	151.165	41.600	108.949	0.860	140.0	203.3	28.47	0.	28.47
10 AUG.	22.22	0.45	0.	45.64	158.94	250.18	148.952	41.600	104.510	0.860	140.0	203.3	28.47	0.	28.47
10 SEP.	30.75	0.54	0.	46.87	161.97	180.02	145.505	41.600	100.956	0.860	137.8	206.6	28.47	0.	28.47
10 OCT.	54.95	0.52	0.	45.24	161.48	212.64	146.877	41.600	100.346	0.860	136.6	208.5	28.47	0.	28.47
10 NOV.	150.17	0.58	0.	42.61	150.15	490.47	154.770	41.600	110.632	0.860	140.0	203.3	28.47	0.	28.47
10 DEC.	117.24	0.74	0.	117.85	147.09	560.47	164.764	41.600	121.171	0.860	140.0	639.6	28.47	61.07	89.54
ANNUAL TOTAL	765.72	10.39	0.	755.43	1760.16	4848.93	1888.862	499.200	1360.617	10.320	1674.3	5851.8	341.63	196.46	538.08
ANNUAL MEAN	63.81	0.87	0.	62.94	146.68	404.08	157.405	41.600	113.385	0.860	139.5	521.0	28.47	16.37	44.84

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	Q24 (CMS)	QG (CMS)	SZ (CMS)	M.W.L. (CM)	T.W.L. (CM)	E.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.F. (GWH)
11 JAN.	121.67	0.91	0.	120.77	136.95	540.42	165.000	41.600	121.292	0.860	140.0	656.1	28.47	65.58	91.85
11 FEB.	153.27	1.17	15.14	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	672.0	28.47	65.61	94.08
11 MAR.	44.60	1.36	0.	43.13	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	4.34	32.80
11 APR.	54.85	1.55	0.	48.80	137.87	526.16	166.866	41.600	120.921	0.860	140.0	203.3	28.47	0.	28.47
11 MAY	52.71	1.28	0.	46.11	137.09	540.42	165.866	41.600	121.188	0.860	140.0	250.2	28.47	6.56	35.03
11 JUNE	60.47	0.94	0.	59.38	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	15.24	43.71
11 JULY	29.17	0.75	0.	37.63	137.68	515.77	164.388	41.600	120.653	0.860	140.0	203.3	28.47	0.	28.47
11 AUG.	94.22	0.60	0.	86.62	137.89	540.42	166.899	41.600	121.275	0.860	140.0	203.3	28.47	0.	28.47
11 SEP.	64.04	0.78	0.	63.28	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	0.	28.47
11 OCT.	161.94	0.76	0.	156.01	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	75.69	104.16
11 NOV.	145.72	0.70	0.	146.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	72.53	100.80
11 DEC.	149.07	0.76	11.56	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
ANNUAL TOTAL	1107.15	11.37	17.67	1037.96	1644.85	6648.87	1978.786	499.200	1464.291	10.370	1880.0	5530.4	341.63	432.64	774.26
ANNUAL MEAN	92.26	0.96	1.48	86.50	137.07	557.15	164.899	41.600	121.191	0.860	140.0	460.9	28.47	36.05	64.52

PLAN A-2 KANAN HWY 2/95

OPERATION STUDY OF AGCS

WATER

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	UZA (CMS)	UG (CMS)	S2 (MGMS)	H.W.L. (CM)	I.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (HR)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
12 JAN.	155.53	0.91	17.67	156.95	156.95	540.42	165.000	41.600	121.292	0.860	744.0	28.47	75.69	104.16
12 FEB.	129.01	1.17	0.	127.86	156.95	540.42	165.000	41.600	121.292	0.860	627.3	28.47	59.35	87.82
12 MAR.	98.72	1.36	0.	97.36	156.95	540.42	165.000	41.600	121.292	0.860	528.9	28.47	45.58	74.04
12 APR.	59.60	1.56	0.	58.05	156.95	540.42	165.000	41.600	121.292	0.860	305.1	28.47	14.24	42.71
12 MAY	77.03	1.28	0.	75.75	156.95	540.42	165.000	41.600	121.292	0.860	411.5	28.47	29.14	57.61
12 JUNE	51.92	0.94	0.	50.99	156.95	540.42	165.000	41.600	121.292	0.860	268.0	28.47	9.06	37.53
12 JULY	24.10	0.74	0.	23.36	156.95	540.42	165.000	41.600	121.292	0.860	203.3	28.47	0.	28.47
12 AUG.	22.63	0.57	0.	22.06	156.95	540.42	165.000	41.600	121.292	0.860	203.3	28.47	0.	28.47
12 SEP.	50.75	0.75	0.	49.99	141.27	685.04	101.435	41.600	117.588	0.860	203.3	28.47	0.	28.47
12 OCT.	128.75	0.74	0.	128.01	157.15	540.42	165.000	41.600	121.292	0.860	579.4	28.47	52.65	81.17
12 NOV.	205.35	0.70	0.	204.65	156.95	540.42	165.000	41.600	121.292	0.860	720.0	28.47	72.53	100.80
12 DEC.	81.01	0.76	0.	80.25	156.95	540.42	165.000	41.600	121.292	0.860	456.0	28.47	32.57	61.03
ANNUAL TOTAL	1080.14	11.44	66.76	985.94	1657.86	6105.13	1772.018	499.200	1467.488	10.520	5250.3	341.63	390.61	732.24
ANNUAL MEAN	90.01	0.95	7.06	82.08	138.32	509.15	147.675	41.600	120.616	0.860	435.9	28.47	32.55	61.02

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	UZA (CMS)	UG (CMS)	S2 (MGMS)	H.W.L. (CM)	I.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (HR)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
13 JAN.	132.25	0.91	0.	131.34	156.95	540.42	165.000	41.600	121.292	0.860	713.5	28.47	71.42	99.89
13 FEB.	110.57	1.17	0.	109.39	156.95	540.42	165.000	41.600	121.292	0.860	536.8	28.47	46.68	75.15
13 MAR.	65.91	1.36	0.	64.55	156.95	540.42	165.000	41.600	121.292	0.860	337.6	28.47	18.80	47.27
13 APR.	58.21	1.56	0.	56.65	156.95	540.42	165.000	41.600	121.292	0.860	301.8	28.47	15.78	42.25
13 MAY	74.92	1.28	0.	73.64	156.95	540.42	165.000	41.600	121.292	0.860	456.0	28.47	0.	28.47
13 JUNE	22.43	0.89	0.	21.54	156.95	540.42	165.000	41.600	121.292	0.860	203.3	28.47	0.	28.47
13 JULY	38.20	0.70	0.	37.50	142.50	451.76	100.538	41.600	116.856	0.860	203.3	28.47	0.	28.47
13 AUG.	93.76	0.55	0.	93.21	163.51	476.51	159.749	41.600	115.813	0.860	203.3	28.47	0.	28.47
13 SEP.	30.24	0.55	0.	29.69	159.50	426.42	102.613	41.600	119.266	0.860	253.3	28.47	6.99	35.46
13 OCT.	74.92	0.76	0.	74.16	156.95	540.42	165.000	41.600	121.292	0.860	397.3	28.47	27.18	55.64
13 NOV.	164.21	0.70	0.	163.51	156.95	540.42	165.000	41.600	121.292	0.860	720.0	28.47	72.53	100.80
13 DEC.	143.29	0.76	0.	142.53	156.95	540.42	165.000	41.600	121.292	0.860	744.0	28.47	75.69	106.16
ANNUAL TOTAL	951.56	11.55	50.90	900.56	1667.71	6156.27	1963.717	499.200	1459.027	10.320	4817.8	341.63	352.87	674.50
ANNUAL MEAN	79.30	0.94	4.24	75.05	138.96	513.02	165.043	41.600	119.919	0.860	401.5	28.47	27.74	58.21

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	UZA (CMS)	UG (CMS)	S2 (MGMS)	H.W.L. (CM)	I.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (HR)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
14 JAN.	116.60	0.91	0.	115.70	156.95	540.42	165.000	41.600	121.292	0.860	628.5	28.47	59.52	87.99
14 FEB.	135.00	1.17	0.	133.83	156.95	540.42	165.000	41.600	121.292	0.860	656.7	28.47	63.47	91.93
14 MAR.	68.55	1.36	0.	67.19	156.95	540.42	165.000	41.600	121.292	0.860	353.1	28.47	20.96	49.43
14 APR.	55.25	1.56	0.	53.69	156.95	540.42	165.000	41.600	121.292	0.860	271.7	28.47	9.57	38.04
14 MAY	17.16	1.25	0.	15.91	156.95	540.42	165.000	41.600	121.292	0.860	203.3	28.47	0.	28.47
14 JUNE	31.90	0.88	0.	31.02	156.95	540.42	165.000	41.600	121.292	0.860	203.3	28.47	0.	28.47
14 JULY	77.97	0.68	0.	77.29	156.61	415.11	129.578	41.600	115.655	0.860	203.3	28.47	0.	28.47
14 AUG.	59.80	0.54	0.	59.26	143.37	411.90	158.747	41.600	114.509	0.860	203.3	28.47	0.	28.47
14 SEP.	65.45	0.71	0.	64.74	143.10	476.98	159.985	41.600	116.079	0.860	203.3	28.47	0.	28.47
14 OCT.	72.84	0.71	0.	72.13	156.95	540.42	165.000	41.600	121.292	0.860	356.7	28.47	7.46	35.93
14 NOV.	71.58	0.70	0.	70.88	156.95	540.42	165.000	41.600	121.292	0.860	372.6	28.47	23.70	52.17
14 DEC.	128.58	0.76	0.	127.82	156.95	540.42	165.000	41.600	121.292	0.860	694.4	28.47	68.75	97.22
ANNUAL TOTAL	816.04	11.25	0.	804.79	1672.06	6018.96	1956.443	499.200	1431.246	10.320	4250.4	341.63	253.43	595.06
ANNUAL MEAN	68.05	0.94	0.	67.12	139.34	501.58	165.037	41.600	119.270	0.860	354.2	28.47	21.12	49.59

** RESERVOIR DEPLETION STUDY OF AGUS DAM ** DAM # 2 PEAR A-2 KANAN-BAL 2/5

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	UG (CMS)	S2 (MCM)	R.W.L. (M)	T.W.L. (M)	F.HEAD (CM)	POWER (MW)	O.HOURS (H)	P.E. (GWH)	T.E. (GWH)
15 JAN.	121.05	0.91	0.	120.74	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
15 FEB.	126.57	1.17	0.	125.20	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
15 MAR.	104.82	1.50	0.	103.46	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
15 APR.	61.71	1.56	0.	60.15	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
15 MAY	33.30	1.28	0.	32.02	157.59	525.61	166.655	41.600	120.907	0.860	28.47	51.85
15 JUNE	44.51	0.93	0.	38.87	157.44	537.93	166.571	41.600	120.843	0.860	28.47	51.85
15 JULY	36.90	0.75	0.	37.50	157.21	534.50	166.787	41.600	121.067	0.860	28.47	51.85
15 AUG.	43.86	0.60	0.	40.95	157.02	540.42	166.960	41.600	121.251	0.860	28.47	51.85
15 SEP.	52.28	0.78	0.	51.60	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
15 OCT.	77.45	0.70	0.	76.68	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
15 NOV.	240.17	0.70	102.51	136.95	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
15 DEC.	245.10	0.76	107.59	136.95	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
ANNUAL TOTAL	1185.58	11.53	210.55	983.29	1644.71	6461.23	1774.924	499.200	1454.375	10.320	541.63	718.58
ANNUAL MEAN	98.78	0.96	17.55	80.27	137.06	538.44	164.910	41.600	121.198	0.860	28.47	59.88

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	UG (CMS)	S2 (MCM)	R.W.L. (M)	T.W.L. (M)	F.HEAD (CM)	POWER (MW)	O.HOURS (H)	P.E. (GWH)	T.E. (GWH)
16 JAN.	153.67	0.91	0.	152.96	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
16 FEB.	94.15	1.17	0.	92.96	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
16 MAR.	57.09	1.56	0.	56.33	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
16 APR.	27.27	1.55	0.	25.08	156.95	492.89	161.813	41.600	120.058	0.860	28.47	51.85
16 MAY	18.42	1.20	0.	18.75	161.69	635.28	161.044	41.600	117.255	0.860	28.47	51.85
16 JUNE	17.06	0.82	0.	17.25	166.94	570.56	157.746	41.600	113.744	0.860	28.47	51.85
16 JULY	25.50	0.62	0.	25.10	159.59	526.98	154.600	41.600	110.455	0.860	28.47	51.85
16 AUG.	21.52	0.47	0.	22.33	156.95	269.94	151.506	41.600	107.202	0.860	28.47	51.85
16 SEP.	32.05	0.57	0.	32.26	156.95	234.62	148.488	41.600	104.021	0.860	28.47	51.85
16 OCT.	93.21	0.59	0.	92.26	154.61	569.52	151.732	41.600	107.443	0.860	28.47	51.85
16 NOV.	152.24	0.65	5.77	145.79	154.51	540.42	162.401	41.600	119.967	0.860	28.47	51.85
16 DEC.	206.16	0.76	68.45	136.95	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
ANNUAL TOTAL	894.42	10.67	91.77	792.05	1737.67	6194.58	1910.969	499.200	1384.863	10.320	541.63	718.58
ANNUAL MEAN	74.51	0.89	7.65	66.00	144.78	532.86	159.247	41.600	115.404	0.860	28.47	59.88

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	UG (CMS)	S2 (MCM)	R.W.L. (M)	T.W.L. (M)	F.HEAD (CM)	POWER (MW)	O.HOURS (H)	P.E. (GWH)	T.E. (GWH)
17 JAN.	78.72	0.91	0.	77.42	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
17 FEB.	61.78	1.17	0.	60.61	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
17 MAR.	27.90	1.53	0.	27.78	156.95	496.98	163.917	41.600	120.165	0.860	28.47	51.85
17 APR.	13.94	1.45	0.	13.05	161.68	425.50	160.943	41.600	117.076	0.860	28.47	51.85
17 MAY	55.94	1.18	0.	53.05	162.89	467.57	160.155	41.600	116.256	0.860	28.47	51.85
17 JUNE	20.11	0.85	0.	20.68	163.53	632.55	159.805	41.600	115.891	0.860	28.47	51.85
17 JULY	11.61	0.64	0.	10.56	168.38	353.51	156.079	41.600	111.950	0.860	28.47	51.85
17 AUG.	13.00	0.47	0.	12.69	155.67	255.06	151.168	41.600	106.848	0.860	28.47	51.85
17 SEP.	37.26	0.57	0.	37.43	160.56	250.41	147.776	41.600	103.270	0.860	28.47	51.85
17 OCT.	127.48	0.62	0.	127.19	158.70	659.08	154.586	41.600	110.230	0.860	28.47	51.85
17 NOV.	193.76	0.68	64.78	137.75	157.37	540.42	164.590	41.600	121.151	0.860	28.47	51.85
17 DEC.	175.59	0.76	57.68	136.95	156.95	540.42	165.000	41.600	121.292	0.860	28.47	51.85
ANNUAL TOTAL	812.66	10.59	82.57	719.49	1630.24	6355.26	1913.565	499.200	1386.305	10.320	541.63	718.58
ANNUAL MEAN	67.72	0.88	6.88	59.96	136.14	536.27	159.649	41.600	115.575	0.860	28.47	59.88

** RESERVOIR OPERATION STUDY OF AGUS DAM ** PLAN A-2 KANAN MWL 295.

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U2/4 (CMS)	UG (CMS)	S2 (CMCH)	K.W.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (HR)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
18 JAN.	159.98	0.91	22.12	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
18 FEB.	63.21	1.17	0.	62.04	116.95	540.42	165.000	41.600	121.292	0.860	140.0	304.4	28.47	14.61	44.62
18 MAR.	60.73	1.36	0.	59.37	136.95	540.42	165.000	41.600	121.292	0.860	140.0	322.5	28.47	16.69	43.15
18 APR.	51.90	1.56	0.	40.34	136.95	540.42	165.000	41.600	121.292	0.860	140.0	212.1	28.47	1.22	29.69
18 MAY	52.95	1.28	0.	51.56	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	0.	28.47
18 JUNE	44.17	0.93	0.	58.85	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	0.	28.47
18 JULY	18.55	0.73	0.	51.94	136.95	540.42	165.000	41.600	121.292	0.860	140.0	203.3	28.47	0.	28.47
18 AUG.	40.54	0.67	0.	38.57	140.59	486.25	162.8145	41.600	118.328	0.860	140.0	203.3	28.47	0.	28.47
18 SEP.	35.28	0.74	0.	39.73	140.59	486.25	162.8145	41.600	118.328	0.860	140.0	203.3	28.47	0.	28.47
18 OCT.	40.82	0.71	0.	38.53	140.98	477.00	161.906	41.600	117.825	0.860	140.0	203.3	28.47	0.	28.47
18 NOV.	131.58	0.68	10.69	119.54	136.95	540.42	165.000	41.600	121.292	0.860	140.0	606.8	28.47	56.49	84.96
18 DEC.	122.53	0.76	0.	121.57	136.95	540.42	165.000	41.600	121.292	0.860	140.0	600.5	28.47	64.00	92.46
ANNUAL TOTAL	117.54	11.38	53.28	767.08	1657.84	6218.84	111967.788	499.2001443	0.445	10.320	1680.0	4070.4	361.63	228.23	569.85
ANNUAL MEAN	67.70	0.95	2.77	63.97	138.15	518.19	163.982	41.600	120.254	0.860	140.0	339.2	28.47	19.02	47.49

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U2/4 (CMS)	UG (CMS)	S2 (CMCH)	K.W.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (HR)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
19 JAN.	117.99	0.91	0.	117.08	136.95	540.42	165.000	41.600	121.292	0.860	140.0	636.0	28.47	60.58	89.05
19 FEB.	124.58	1.17	0.	123.41	136.95	540.42	165.000	41.600	121.292	0.860	140.0	605.5	28.47	56.31	84.78
19 MAR.	176.38	1.36	0.	174.01	136.95	540.42	165.000	41.600	121.292	0.860	140.0	688.3	28.47	65.09	93.56
19 APR.	76.51	1.56	0.	74.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	394.0	28.47	26.69	55.16
19 MAY	76.35	1.26	0.	57.77	138.19	498.1	155.953	41.600	120.202	0.860	140.0	203.3	28.47	0.	28.47
19 JUNE	18.55	0.88	0.	39.92	141.34	440.76	161.385	41.600	117.536	0.860	140.0	203.3	28.47	0.	28.47
19 JULY	17.64	0.67	0.	39.26	140.59	477.00	161.906	41.600	117.825	0.860	140.0	203.3	28.47	0.	28.47
19 AUG.	56.51	0.51	0.	60.60	140.55	342.03	155.910	41.600	118.876	0.860	140.0	203.3	28.47	0.	28.47
19 SEP.	47.00	0.63	0.	42.18	140.30	559.86	155.457	41.600	111.215	0.860	140.0	203.3	28.47	0.	28.47
19 OCT.	82.60	0.67	0.	59.64	140.02	474.74	158.509	41.600	114.541	0.860	140.0	203.3	28.47	0.	28.47
19 NOV.	88.66	0.68	0.	62.02	137.67	540.42	164.101	41.600	120.666	0.860	140.0	328.4	28.47	16.94	45.41
19 DEC.	51.45	0.76	0.	50.69	136.95	540.42	165.000	41.600	121.292	0.860	140.0	273.4	28.47	10.09	38.56
ANNUAL TOTAL	797.89	11.05	0.	786.84	1600.70	5751.651942	0.889	499.2001416	0.551	10.320	1680.0	4123.8	341.65	235.70	577.33
ANNUAL MEAN	66.49	0.92	0.	65.57	140.89	479.30	161.861	41.600	118.029	0.860	140.0	343.6	28.47	19.64	48.11

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U2/4 (CMS)	UG (CMS)	S2 (CMCH)	K.W.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (HR)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
20 JAN.	63.76	0.91	0.	62.85	136.95	540.42	165.000	41.600	121.292	0.860	140.0	341.4	28.47	19.33	47.80
20 FEB.	26.78	1.15	0.	61.79	138.11	501.81	164.026	41.600	120.278	0.860	140.0	203.3	28.47	0.	28.47
20 MAR.	34.02	1.30	0.	52.70	139.76	488.61	162.658	41.600	118.856	0.860	140.0	203.3	28.47	0.	28.47
20 APR.	19.18	1.45	0.	40.14	147.13	428.55	160.748	41.600	116.873	0.860	140.0	203.3	28.47	0.	28.47
20 MAY	9.67	1.10	0.	40.27	147.34	343.50	159.786	41.600	112.742	0.860	140.0	203.3	28.47	0.	28.47
20 JUNE	6.62	0.73	0.	45.84	155.56	245.06	151.238	41.600	106.922	0.860	140.0	203.3	28.47	0.	28.47
20 JULY	13.03	0.52	0.	45.22	161.53	187.45	146.943	41.600	100.411	0.860	140.0	203.3	28.47	0.	28.47
20 AUG.	21.25	0.37	0.	48.06	158.69	80.67	158.830	41.600	94.674	0.860	140.0	228.2	28.47	0.	28.47
20 SEP.	30.39	0.43	0.	52.71	152.00	29.72	133.213	41.600	89.014	0.860	140.0	249.5	28.47	0.	28.47
20 OCT.	44.50	0.39	0.	55.99	149.80	0.62	120.290	41.600	85.202	0.860	140.0	268.4	28.47	0.	28.47
20 NOV.	75.03	0.37	0.	56.76	149.92	55.56	130.670	41.600	86.494	0.860	140.0	268.4	28.47	0.	28.47
20 DEC.	202.10	0.37	0.	43.26	158.77	477.47	148.570	41.600	104.957	0.860	140.0	203.3	28.47	0.	28.47
ANNUAL TOTAL	569.60	9.24	0.	566.11	1687.60	5350.881785	876.876	499.2001256	0.657	10.320	1711.5	2774.4	341.63	19.33	360.98
ANNUAL MEAN	63.80	0.77	0.	62.05	148.99	276.91	148.825	41.600	104.720	0.860	140.0	231.2	28.47	1.61	30.08

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
21 JAN.	115.08	0.88	0.	91.24	137.25	540.42	164.518	41.600	121.292	0.860	140.0	294.8	28.47	49.81	69.27
21 FEB.	45.50	1.17	0.	44.55	116.95	540.42	165.000	41.600	121.292	0.860	140.0	217.5	28.47	1.99	30.45
21 MAR.	18.22	1.55	0.	37.89	158.67	486.19	165.595	41.600	119.829	0.860	140.0	203.3	28.47	0.	28.47
21 APR.	50.59	1.46	0.	39.90	143.29	456.24	161.418	41.600	117.570	0.860	140.0	203.3	28.47	0.	28.47
21 MAY	10.38	1.14	0.	59.60	145.10	576.75	158.454	41.600	114.483	0.860	140.0	203.3	28.47	0.	28.47
21 JUNE	14.99	0.76	0.	42.74	151.54	400.84	153.943	41.600	109.765	0.860	140.0	203.3	28.47	0.	28.47
21 JULY	13.05	0.56	0.	43.44	151.92	217.93	148.966	41.600	104.525	0.860	140.0	203.3	28.47	0.	28.47
21 AUG.	8.86	0.40	0.	46.34	159.56	116.48	142.435	41.600	97.974	0.860	131.8	216.1	28.47	0.	28.47
21 SEP.	53.84	0.48	0.	49.65	156.70	126.10	138.848	41.600	94.692	0.860	124.8	228.1	28.47	0.	28.47
21 OCT.	116.93	0.55	0.	45.71	159.92	574.31	144.350	41.600	103.874	0.860	140.0	203.3	28.47	0.	28.47
21 NOV.	267.80	0.65	91.43	109.65	157.68	540.42	165.796	41.600	120.849	0.860	140.0	574.1	28.47	51.91	80.38
21 DEC.	153.08	0.76	15.38	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
ANNUAL TOTAL	868.99	10.11	107.82	727.11	1761.04	600.861	1673.672	499.200	1366.295	10.320	1056.6	3694.8	341.63	170.59	512.02
ANNUAL MEAN	72.42	0.84	8.99	60.59	146.75	383.41	156.139	41.600	112.191	0.860	138.0	307.9	28.47	14.20	42.67

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
22 JAN.	101.19	0.91	0.	100.29	156.95	540.42	165.000	41.600	121.292	0.860	140.0	544.8	28.47	47.80	76.27
22 FEB.	146.74	1.17	8.61	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	672.0	28.47	65.61	94.08
22 MAR.	156.89	1.56	0.	135.55	156.95	540.42	165.000	41.600	121.292	0.860	140.0	725.4	28.47	73.09	101.56
22 APR.	56.54	1.50	0.	58.76	157.24	530.64	164.758	41.600	121.037	0.860	140.0	203.3	28.47	0.	28.47
22 MAY	151.66	1.28	12.99	133.75	156.97	540.42	164.992	41.600	121.669	0.860	140.0	726.5	28.47	73.24	101.71
22 JUNE	168.12	0.94	50.73	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	720.0	28.47	72.33	100.80
22 JULY	106.33	0.76	0.	105.57	156.95	540.42	165.000	41.600	121.292	0.860	140.0	573.5	28.47	51.82	80.29
22 AUG.	49.12	0.60	0.	48.52	156.95	540.42	165.000	41.600	121.292	0.860	140.0	263.6	28.47	8.43	36.90
22 SEP.	23.87	0.77	0.	39.02	158.17	499.14	163.871	41.600	120.821	0.860	140.0	203.3	28.47	0.	28.47
22 OCT.	181.65	0.74	19.23	126.28	156.99	540.42	164.889	41.600	121.758	0.860	140.0	685.8	28.47	67.54	96.01
22 NOV.	208.28	0.70	70.63	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	720.0	28.47	72.33	100.80
22 DEC.	286.28	0.76	148.57	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
ANNUAL TOTAL	1596.43	11.43	317.03	1277.88	1644.98	6454.651	1978.865	499.200	1454.157	10.320	1880.0	6782.3	341.63	607.90	949.52
ANNUAL MEAN	133.04	0.96	26.00	106.07	137.08	538.22	164.885	41.600	121.180	0.860	140.0	565.2	28.47	50.66	79.13

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
23 JAN.	108.57	0.91	0.	107.67	156.95	540.42	165.000	41.600	121.292	0.860	140.0	584.6	28.47	53.37	81.84
23 FEB.	54.06	1.17	0.	52.87	156.95	540.42	165.000	41.600	121.292	0.860	140.0	259.4	28.47	7.85	16.32
23 MAR.	63.57	1.56	0.	62.16	156.95	540.42	165.000	41.600	121.292	0.860	140.0	337.7	28.47	18.81	27.27
23 APR.	51.15	1.56	0.	49.59	156.95	540.42	165.000	41.600	121.292	0.860	140.0	260.7	28.47	8.03	16.50
23 MAY	48.73	1.28	0.	47.65	156.95	540.42	165.000	41.600	121.292	0.860	140.0	257.8	28.47	7.62	16.09
23 JUNE	44.72	0.96	0.	43.78	156.95	540.42	165.000	41.600	121.292	0.860	140.0	230.2	28.47	3.76	32.22
23 JULY	135.91	0.76	0.	135.15	156.95	540.42	165.000	41.600	121.292	0.860	140.0	734.2	28.47	74.32	102.79
23 AUG.	153.69	0.60	16.13	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
23 SEP.	94.99	0.78	0.	94.21	156.95	540.42	165.000	41.600	121.292	0.860	140.0	495.3	28.47	40.87	59.34
23 OCT.	71.28	0.76	0.	70.53	156.95	540.42	165.000	41.600	121.292	0.860	140.0	383.1	28.47	25.17	33.64
23 NOV.	150.24	0.70	12.58	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	720.0	28.47	72.33	100.80
23 DEC.	184.73	0.76	47.02	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	28.47	75.69	104.16
ANNUAL TOTAL	1167.95	11.55	76.77	1028.95	1643.44	6485.00	1980.000	499.200	1456.501	10.320	1880.0	5751.0	341.63	463.51	605.14
ANNUAL MEAN	97.33	0.96	6.40	89.91	136.95	540.42	165.000	41.600	121.292	0.860	140.0	479.2	28.47	38.63	67.09

YEAR MONTH	INFLOW (CMS)	EVAPD. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (MEM)	K.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
24 JAN.	70.85	0.91	0.	69.94	136.95	540.42	165.000	41.600	121.292	0.860	379.9	28.47	24.72	53.19
24 FEB.	87.00	1.17	0.	85.83	136.95	540.42	165.000	41.600	121.292	0.860	423.1	28.47	50.49	58.96
24 MAR.	45.63	1.56	0.	44.07	136.95	540.42	165.000	41.600	121.292	0.860	259.4	28.47	5.05	35.52
24 APR.	55.11	1.55	0.	53.56	136.95	540.42	165.000	41.600	120.939	0.860	203.3	28.47	0.	28.47
24 MAY	32.72	1.26	0.	31.46	136.95	509.89	163.900	41.600	120.147	0.860	203.3	28.47	0.	28.47
24 JUNE	40.19	0.91	0.	39.28	136.95	540.42	165.000	41.600	118.709	0.860	203.3	28.47	0.	28.47
24 JULY	25.94	0.72	0.	25.22	136.95	519.81	162.449	41.600	118.642	0.860	203.3	28.47	0.	28.47
24 AUG.	16.05	0.55	0.	15.50	136.95	406.29	159.695	41.600	115.777	0.860	203.3	28.47	0.	28.47
24 SEP.	23.95	0.67	0.	23.28	136.95	358.56	156.579	41.600	112.528	0.860	203.3	28.47	0.	28.47
24 OCT.	170.40	0.60	0.	170.80	136.95	51.70	161.055	41.600	118.177	0.860	273.6	28.47	9.83	58.50
24 NOV.	215.73	0.70	78.07	136.95	136.95	540.42	165.000	41.600	121.292	0.860	720.0	28.47	72.33	100.80
24 DEC.	305.84	0.76	167.93	136.95	136.95	540.42	165.000	41.600	121.292	0.860	744.0	28.47	75.69	104.16
ANNUAL TOTAL	1017.66	11.24	248.16	758.07	1670.97	6077.59	1956.710	499.200	1452.284	10.320	3998.2	341.63	218.17	559.74
ANNUAL MEAN	84.79	0.94	20.68	63.17	139.25	501.88	163.059	41.600	119.357	0.860	333.2	28.47	18.18	46.65
YEAR MONTH	INFLOW (CMS)	EVAPD. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (MEM)	K.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
25 JAN.	165.81	0.91	27.95	136.95	136.95	540.42	165.000	41.600	121.292	0.860	744.0	28.47	75.69	104.16
25 FEB.	160.48	1.17	22.56	136.95	136.95	540.42	165.000	41.600	121.292	0.860	672.0	28.47	65.61	94.08
25 MAR.	98.03	1.56	0.	96.07	136.95	540.42	165.000	41.600	121.292	0.860	525.1	28.47	45.05	73.52
25 APR.	40.76	1.56	0.	39.20	136.95	540.42	165.000	41.600	121.292	0.860	206.1	28.47	0.58	28.47
25 MAY	35.45	1.28	0.	33.17	136.95	525.98	164.642	41.600	120.917	0.860	203.3	28.47	0.	28.47
25 JUNE	21.20	0.90	0.	19.30	136.95	476.62	163.033	41.600	119.248	0.860	203.3	28.47	0.	28.47
25 JULY	38.84	0.71	0.	38.13	136.95	475.58	161.727	41.600	117.891	0.860	203.3	28.47	0.	28.47
25 AUG.	32.59	0.56	0.	32.03	136.95	457.95	161.731	41.600	117.376	0.860	203.3	28.47	0.	28.47
25 SEP.	56.21	0.74	0.	55.46	136.95	476.49	161.833	41.600	118.001	0.860	203.3	28.47	0.	28.47
25 OCT.	61.24	0.76	0.	60.48	136.95	440.62	164.559	41.600	120.725	0.860	203.3	28.47	7.02	35.49
25 NOV.	187.67	0.70	58.02	136.95	136.95	540.42	165.000	41.600	121.292	0.860	720.0	28.47	72.33	100.80
25 DEC.	90.68	0.76	0.	89.92	136.95	540.42	165.000	41.600	121.292	0.860	488.5	28.47	39.92	68.39
ANNUAL TOTAL	982.06	11.57	98.59	872.50	1659.50	6715.68	1966.720	499.200	1447.420	10.320	4626.0	361.63	306.01	647.63
ANNUAL MEAN	81.84	0.95	8.20	72.70	139.27	517.97	163.895	41.600	120.132	0.860	365.5	28.47	25.50	53.97
YEAR MONTH	INFLOW (CMS)	EVAPD. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (MEM)	K.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
26 JAN.	75.51	0.91	0.	74.60	136.95	540.42	165.000	41.600	121.292	0.860	405.3	28.47	28.27	56.74
26 FEB.	59.27	1.17	0.	58.10	136.95	546.62	165.000	41.600	121.292	0.860	285.1	28.47	11.44	39.91
26 MAR.	51.24	1.55	0.	50.69	136.95	525.98	164.642	41.600	120.698	0.860	203.3	28.47	0.	28.47
26 APR.	13.04	1.04	0.	12.00	136.95	657.09	162.598	41.600	118.589	0.860	203.3	28.47	0.	28.47
26 MAY	22.83	1.16	0.	21.67	136.95	605.64	159.199	41.600	117.280	0.860	203.3	28.47	0.	28.47
26 JUNE	28.53	0.91	0.	27.62	136.95	609.31	156.858	41.600	117.817	0.860	203.3	28.47	0.	28.47
26 JULY	16.10	0.61	0.	15.49	136.95	299.80	153.746	41.600	109.558	0.860	203.3	28.47	0.	28.47
26 AUG.	50.67	0.68	0.	49.99	136.95	671.57	157.272	41.600	108.011	0.860	203.3	28.47	0.	28.47
26 SEP.	68.05	0.65	0.	67.40	136.95	609.31	154.915	41.600	110.784	0.860	203.3	28.47	0.	28.47
26 OCT.	228.68	0.70	63.57	136.95	136.95	540.42	165.000	41.600	120.856	0.860	519.8	28.47	52.70	81.17
26 NOV.	179.03	0.70	41.57	136.95	136.95	540.42	165.000	41.600	121.292	0.860	720.0	28.47	72.33	100.80
26 DEC.	258.74	0.76	96.03	136.95	136.95	540.42	165.000	41.600	121.292	0.860	744.0	28.47	75.69	104.16
ANNUAL TOTAL	1012.08	10.76	203.26	798.06	1709.87	6456.36	1927.499	499.200	1401.626	10.320	4157.6	341.63	240.44	582.07
ANNUAL MEAN	84.34	0.90	16.94	66.55	142.49	534.69	160.625	41.600	118.802	0.860	346.5	28.47	20.04	48.51
GRAND MEAN	87.82	0.92	11.49	70.41	140.91	477.20	161.452	41.600	117.745	0.860	345.7	341.63	280.94	622.56

HIGH WATER LEVEL IN METER 165.000 LOW WATER LEVEL IN METER 128.000 RATED HEAD IN METER ***** 102.020
 INSTALLED CAPACITY IN MW 140.000 DISPLACABLE CAPACITY IN MW 104.699 TANGKI OPERATION HOUR A DAY 4.58
 RAIFD DISCHARGE IN CMS 167.82% TYPE OF ROLL CURVE ** VARIABLE MASS CURVE

RULE CURVE IN MW 19.000 19.000 19.000 19.000 19.000 19.000 19.000 19.000 19.000 19.000 19.000 19.000
 JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEP. OCT. NOV. DEC.
 19.000 19.000 19.000 19.000 19.000 19.000 19.000 19.000 19.000 19.000 19.000 19.000

LENGTH OF INFLOW SPIES IN YEAR 70

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U26 (CMS)	U6 (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD EFFICI.	POWER (MW)	O. HOUR (H)	P.E. (CGWH)	S.E. (CGWH)	T.E. (CGWH)
1 JAN.	166.50	0.91	0.00	136.95	136.95	540.42	165.000	41.600	121.292	140.0	744.0	19.00	85.16	104.16
1 FEB.	76.54	1.17	0.00	75.56	136.95	540.42	165.000	41.600	121.292	140.0	369.8	19.00	52.77	51.77
1 MAR.	90.54	1.36	0.00	89.18	136.95	540.42	165.000	41.600	121.292	140.0	484.5	19.00	48.82	67.82
1 APR.	19.98	1.55	0.00	25.92	137.52	521.00	154.517	41.600	120.789	140.0	135.7	19.00	0.00	19.00
1 MAY	8.14	1.23	0.00	25.67	139.62	471.79	162.768	41.600	118.974	140.0	135.7	19.00	0.00	19.00
1 JUNE	7.65	0.86	0.00	26.95	142.98	419.05	160.081	41.600	116.180	140.0	135.7	19.00	0.00	19.00
1 JULY	17.42	0.66	0.00	26.60	145.81	392.67	157.914	41.600	113.921	140.0	135.7	19.00	0.00	19.00
1 AUG.	23.22	0.52	0.00	26.86	147.25	381.51	150.888	41.600	112.808	140.0	135.7	19.00	0.00	19.00
1 SEP.	17.54	0.66	0.00	28.06	148.88	352.03	152.670	41.600	111.578	140.0	135.7	19.00	0.00	19.00
1 OCT.	60.15	0.66	0.00	20.74	146.57	439.76	152.350	41.600	113.353	140.0	135.7	19.00	0.00	19.00
1 NOV.	112.17	0.67	0.00	72.61	137.54	540.42	165.000	41.600	120.742	140.0	580.1	19.00	34.27	53.27
1 DEC.	168.88	0.76	51.17	156.95	156.95	540.42	165.000	41.600	121.292	140.0	744.0	19.00	85.16	104.16
ANNUAL TOTAL	770.49	10.98	60.96	698.56	1094.33	5676.74	1938.723	499.200	113.247	1680.0	5672.4	228.00	286.13	514.13
ANNUAL MEAN	64.21	0.91	5.08	58.21	141.19	472.90	161.540	41.600	117.771	140.0	306.0	19.00	23.84	42.84

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U26 (CMS)	U6 (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD EFFICI.	POWER (MW)	O. HOUR (H)	P.E. (CGWH)	S.E. (CGWH)	T.E. (CGWH)
2 JAN.	135.16	0.91	0.00	114.26	136.95	540.42	165.000	41.600	121.292	140.0	729.4	19.00	83.11	102.11
2 FEB.	76.80	1.17	0.00	74.95	136.95	540.42	165.000	41.600	121.292	140.0	367.7	19.00	32.47	51.47
2 MAR.	90.64	1.34	0.00	75.19	138.03	505.80	164.088	41.600	120.344	140.0	135.7	19.00	0.00	19.00
2 APR.	45.00	1.48	0.00	26.51	140.65	456.24	161.932	41.600	118.106	140.0	135.7	19.00	0.00	19.00
2 MAY	12.50	1.22	0.00	25.65	140.61	505.07	161.965	41.600	118.140	140.0	135.7	19.00	0.00	19.00
2 JUNE	12.50	0.89	0.00	26.64	140.27	466.62	162.235	41.600	118.421	140.0	135.7	19.00	0.00	19.00
2 JULY	15.77	0.70	0.00	26.00	147.51	437.36	160.449	41.600	116.263	140.0	135.7	19.00	0.00	19.00
2 AUG.	51.74	0.57	0.00	25.76	141.21	505.55	161.483	41.600	117.640	140.0	135.7	19.00	0.00	19.00
2 SEP.	71.16	0.75	0.00	26.49	139.51	698.27	162.859	41.600	119.069	140.0	135.7	19.00	0.00	19.00
2 OCT.	23.21	0.72	0.00	25.38	140.25	481.99	162.250	41.600	118.637	140.0	135.7	19.00	0.00	19.00
2 NOV.	244.77	0.68	98.05	175.69	136.95	540.42	165.000	41.600	121.292	140.0	659.6	19.00	73.34	92.34
2 DEC.	303.66	0.76	165.95	136.95	136.95	540.42	165.000	41.600	121.292	140.0	744.0	19.00	85.16	104.16
ANNUAL TOTAL	952.97	11.13	763.87	677.95	1071.10	6006.76	1956.939	499.200	113.673	1680.0	5586.3	228.00	274.08	502.08
ANNUAL MEAN	79.41	0.93	21.99	56.50	159.26	500.52	163.078	41.600	119.506	140.0	298.9	19.00	22.84	41.84

RESERVOIR OPERATION STUDY OF AGINS DAM #2 PLAN A-2 XAVAN HWL 295

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	MG (CMS)	S2 (MCM)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (CH)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
3 JAN.	169.03	0.91	51.17	156.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	19.00	85.16	104.16
3 FEB.	90.95	1.17	0.	89.78	136.95	540.42	165.000	41.600	121.292	0.860	140.0	438.5	19.00	42.39	61.39
3 MAR.	17.07	1.35	0.	15.72	137.64	516.89	164.416	41.600	120.684	0.860	140.0	135.7	19.00	0.	19.00
3 APR.	13.35	1.50	0.	11.85	159.49	479.45	167.872	41.600	119.682	0.860	140.0	135.7	19.00	0.	19.00
3 MAY.	8.56	1.19	0.	7.37	162.53	429.67	160.526	41.600	116.706	0.860	140.0	135.7	19.00	0.	19.00
3 JUNE	14.05	0.83	0.	13.22	143.41	529.91	158.219	41.600	114.739	0.860	140.0	135.7	19.00	0.	19.00
3 JULY	14.66	0.64	0.	14.02	148.17	558.07	156.178	41.600	112.107	0.860	140.0	135.7	19.00	0.	19.00
3 AUG.	50.15	0.52	0.	49.63	147.14	419.10	156.933	41.600	112.897	0.860	140.0	135.7	19.00	0.	19.00
3 SEP.	53.93	0.70	0.	53.23	144.27	454.75	159.086	41.600	115.144	0.860	140.0	135.7	19.00	0.	19.00
3 OCT.	278.01	0.72	118.34	159.67	137.06	540.42	164.581	41.600	121.292	0.860	140.0	648.7	19.00	71.81	90.81
3 NOV.	52.60	0.70	0.	51.90	136.95	540.42	165.000	41.600	121.292	0.860	140.0	272.9	19.00	19.20	38.20
3 DEC.	222.56	0.76	84.85	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	19.00	85.16	104.16
ANNUAL TOTAL	970.95	10.96	238.85	721.14	1049.61	5728.87	1942.646	499.200	1417.001	10.320	1680.0	3798.0	228.00	503.72	511.72
ANNUAL MEAN	80.91	0.91	19.90	60.09	140.80	477.40	161.887	41.600	118.083	0.860	140.0	316.5	19.00	25.31	44.51

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	MG (CMS)	S2 (MCM)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (CH)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
4 JAN.	120.52	0.91	0.	119.61	136.95	540.42	165.000	41.600	121.292	0.860	140.0	649.8	19.00	71.97	90.97
4 FEB.	135.35	1.17	0.	134.17	136.95	540.42	165.000	41.600	121.292	0.860	140.0	658.4	19.00	73.17	92.17
4 MAR.	21.97	1.53	0.	20.44	137.30	528.55	164.706	41.600	120.984	0.860	140.0	135.7	19.00	0.	19.00
4 APR.	20.41	1.53	0.	18.88	138.20	509.97	163.945	41.600	120.195	0.860	140.0	135.7	19.00	0.	19.00
4 MAY.	7.51	1.22	0.	6.29	140.40	457.68	162.151	41.600	118.312	0.860	140.0	135.7	19.00	0.	19.00
4 JUNE	16.25	0.85	0.	15.40	143.33	427.59	159.603	41.600	115.891	0.860	140.0	135.7	19.00	0.	19.00
4 JULY	10.03	0.66	0.	9.37	146.32	376.00	157.538	41.600	113.529	0.860	140.0	135.7	19.00	0.	19.00
4 AUG.	33.93	0.52	0.	33.41	147.44	393.46	156.712	41.600	112.666	0.860	140.0	135.7	19.00	0.	19.00
4 SEP.	15.46	0.66	0.	14.80	148.10	359.44	156.233	41.600	112.166	0.860	140.0	135.7	19.00	0.	19.00
4 OCT.	51.91	0.65	0.	51.26	146.85	424.94	157.141	41.600	113.114	0.860	140.0	135.7	19.00	0.	19.00
4 NOV.	91.10	0.67	0.	90.43	138.41	540.42	162.967	41.600	120.031	0.860	140.0	239.8	19.00	14.57	33.57
4 DEC.	280.74	0.76	143.07	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	19.00	85.16	104.16
ANNUAL TOTAL	800.62	10.95	145.82	643.80	1097.59	5628.66	1955.896	499.200	1410.461	10.320	1680.0	3777.6	228.00	246.87	472.87
ANNUAL MEAN	66.72	0.91	12.15	53.66	141.47	469.05	161.125	41.600	117.538	0.860	140.0	281.5	19.00	20.41	39.41

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	MG (CMS)	S2 (MCM)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (CH)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
5 JAN.	104.81	0.91	0.	103.90	136.95	540.42	165.000	41.600	121.292	0.860	140.0	564.4	19.00	60.02	79.02
5 FEB.	65.49	1.17	0.	64.32	136.95	540.42	165.000	41.600	121.292	0.860	140.0	317.5	19.00	25.46	44.46
5 MAR.	131.00	1.50	0.	129.50	136.95	540.42	165.000	41.600	121.292	0.860	140.0	707.5	19.00	80.05	99.05
5 APR.	11.84	1.53	0.	10.31	138.20	499.63	163.943	41.600	120.215	0.860	140.0	135.7	19.00	0.	19.00
5 MAY.	8.42	1.21	0.	7.21	140.98	450.67	161.661	41.600	117.824	0.860	140.0	135.7	19.00	0.	19.00
5 JUNE	6.74	0.84	0.	5.90	144.59	394.71	158.836	41.600	114.883	0.860	140.0	135.7	19.00	0.	19.00
5 JULY	9.53	0.64	0.	8.89	148.59	345.73	155.878	41.600	111.793	0.860	140.0	135.7	19.00	0.	19.00
5 AUG.	14.54	0.49	0.	14.05	152.77	304.64	153.102	41.600	109.893	0.860	140.0	135.7	19.00	0.	19.00
5 SEP.	16.02	0.60	0.	15.42	155.72	272.52	151.001	41.600	106.674	0.860	140.0	135.7	19.00	0.	19.00
5 OCT.	37.84	0.56	0.	37.28	159.20	241.03	148.790	41.600	104.340	0.860	140.0	135.7	19.00	0.	19.00
5 NOV.	36.51	0.51	0.	36.00	160.14	255.52	148.213	41.600	103.750	0.860	140.0	135.7	19.00	0.	19.00
5 DEC.	204.70	0.66	76.82	70.78	154.99	540.42	166.474	41.600	119.606	0.860	140.0	378.9	19.00	34.05	53.05
ANNUAL TOTAL	651.16	10.45	27.54	595.57	1069.97	6924.00	2496.799	499.200	1371.757	10.320	1680.0	5054.1	228.00	199.58	427.58
ANNUAL MEAN	52.60	0.87	2.28	49.45	145.82	410.53	158.067	41.600	114.313	0.860	140.0	254.5	19.00	16.63	35.63

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	024 (CMS)	024 (CMS)	06 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
6 JAN.	24.26	0.91	106.40	156.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	19.00	85.76	104.16	
6 FEB.	28.50	1.17	0.	47.55	156.95	540.42	165.000	41.600	121.292	0.860	140.0	183.2	19.00	6.66	0.	
6 MAR.	18.25	1.34	0.	25.14	157.56	510.52	165.252	41.600	120.514	0.860	140.0	135.7	19.00	0.	0.	
6 APR.	15.38	1.50	0.	26.54	159.74	678.04	162.667	41.600	118.870	0.860	140.0	135.7	19.00	0.	0.	
6 MAY	8.38	1.18	0.	25.78	162.45	477.72	160.697	41.600	116.613	0.860	140.0	135.7	19.00	0.	0.	
6 JUNE	16.52	0.85	0.	27.59	165.51	597.41	158.290	41.600	115.314	0.860	140.0	135.7	19.00	0.	0.	
6 JULY	16.58	0.90	0.	27.48	150.83	324.56	154.451	41.600	110.278	0.860	140.0	135.7	19.00	0.	0.	
6 AUG.	22.43	0.62	0.	28.91	153.37	505.94	152.552	41.600	109.306	0.860	140.0	135.7	19.00	0.	0.	
6 SEP.	45.40	0.01	0.	27.75	152.11	352.14	153.409	41.600	109.206	0.860	140.0	80.3	19.00	34.25	53.25	
6 OCT.	12.53	0.04	0.25	73.00	158.19	560.42	162.175	41.600	120.245	0.860	140.0	571.3	19.00	60.98	70.98	
6 NOV.	105.92	0.76	0.	105.16	156.95	540.42	165.000	41.600	121.292	0.860	140.0	2664.5	19.00	187.03	415.03	
6 DEC.	695.74	10.68	114.60	570.47	173.62	5317.23	1919.498	499.200	1394.552	10.320	1680.0	247.0	19.00	15.59	34.59	
ANNUAL TOTAL	57.98	0.89	9.55	47.54	145.22	443.10	159.958	41.600	116.196	0.860	140.0	267.0	19.00	40.71	59.71	
ANNUAL MEAN	1326.22	11.55	554.45	960.22	1453.44	6885.00	1980.000	499.200	1455.501	10.320	1680.0	5138.2	228.00	488.55	716.55	

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	024 (CMS)	024 (CMS)	06 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
7 JAN.	107.18	0.91	0.	106.28	156.95	540.42	165.000	41.600	121.292	0.860	140.0	577.3	19.00	61.83	80.83	
7 FEB.	76.01	1.17	0.	74.84	156.95	540.42	165.000	41.600	121.292	0.860	140.0	167.2	19.00	32.41	51.41	
7 MAR.	104.30	1.56	0.	102.94	156.95	540.42	165.000	41.600	121.292	0.860	140.0	559.2	19.00	59.29	78.29	
7 APR.	114.77	1.56	0.	114.21	156.95	540.42	165.000	41.600	121.292	0.860	140.0	595.2	19.00	64.52	83.52	
7 MAY	55.50	1.28	0.	54.21	156.95	540.42	165.000	41.600	121.292	0.860	140.0	185.9	19.00	7.02	26.02	
7 JUNE	29.56	0.94	0.	28.67	156.95	540.42	165.000	41.600	121.292	0.860	140.0	150.5	19.00	2.04	21.04	
7 JULY	28.57	0.76	0.	27.31	156.95	540.42	165.000	41.600	121.292	0.860	140.0	151.1	19.00	2.15	23.15	
7 AUG.	41.66	0.60	0.	41.04	156.95	540.42	165.000	41.600	121.292	0.860	140.0	168.7	19.00	4.62	23.62	
7 SEP.	48.32	0.78	0.	47.54	156.95	540.42	165.000	41.600	121.292	0.860	140.0	259.9	19.00	15.99	34.99	
7 OCT.	120.27	0.76	0.	119.52	156.95	540.42	165.000	41.600	121.292	0.860	140.0	689.3	19.00	71.90	90.90	
7 NOV.	171.01	0.70	53.45	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	720.0	19.00	81.80	100.80	
7 DEC.	453.22	0.76	515.51	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	19.00	85.16	104.16	
ANNUAL TOTAL	1326.22	11.55	554.45	960.22	1453.44	6885.00	1980.000	499.200	1455.501	10.320	1680.0	5138.2	228.00	488.55	716.55	
ANNUAL MEAN	110.52	0.96	29.454	80.02	116.95	540.42	165.000	41.600	121.292	0.860	140.0	426.5	19.00	40.71	59.71	

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	024 (CMS)	024 (CMS)	06 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
8 JAN.	180.17	0.91	42.31	136.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	19.00	85.16	104.16	
8 FEB.	43.42	1.17	0.	42.25	156.95	540.42	165.000	41.600	121.292	0.860	140.0	207.3	19.00	10.02	29.02	
8 MAR.	11.28	1.34	0.	25.20	158.16	699.54	163.981	41.600	120.253	0.860	140.0	135.7	19.00	0.	0.	
8 APR.	8.22	1.47	0.	26.59	161.03	648.32	161.007	41.600	117.769	0.860	140.0	135.7	19.00	0.	0.	
8 MAY	5.68	1.14	0.	26.42	164.85	349.69	158.638	41.600	114.476	0.860	140.0	135.7	19.00	0.	0.	
8 JUNE	6.01	0.78	0.	28.17	169.46	330.02	155.257	41.600	111.143	0.860	140.0	135.7	19.00	0.	0.	
8 JULY	11.53	0.59	0.	28.12	154.15	286.02	152.044	41.600	107.772	0.860	140.0	135.7	19.00	0.	0.	
8 AUG.	26.01	0.64	0.	28.60	156.78	275.35	150.315	41.600	105.950	0.860	140.0	135.7	19.00	0.	0.	
8 SEP.	19.43	0.58	0.	29.91	158.70	247.17	149.105	41.600	104.673	0.860	140.0	135.7	19.00	0.	0.	
8 OCT.	25.38	0.55	0.	29.36	160.94	235.04	147.733	41.600	103.214	0.860	140.0	135.7	19.00	0.	0.	
8 NOV.	31.04	0.51	0.	30.46	161.61	235.07	147.126	41.600	102.785	0.860	140.0	135.7	19.00	0.	0.	
8 DEC.	21.44	0.54	0.	29.77	162.76	211.11	146.519	41.600	101.940	0.860	140.0	135.9	19.00	0.	0.	
ANNUAL TOTAL	590.70	10.00	43.17	462.66	1405.33	4225.34	1381.607	499.200	1331.989	10.370	1677.8	2308.6	228.00	95.18	323.18	
ANNUAL MEAN	49.23	0.85	3.59	38.55	117.11	352.14	115.151	41.600	110.999	0.860	140.0	192.4	19.00	7.93	26.93	

RESERVOIR OPERATION STUDY OF AGOS DAM AA PLAN A-2 KHAN-BUL 295

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	02% (CMS)	06 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.F. (GWH)	S.F. (GWH)	T.E. (GWH)
9 JAN.	40.67	0.04	0.	17.69	167.76	718.77	146.039	41.600	102.059	0.860	140.0	133.7	19.00	0.	19.00
9 FEB.	40.17	0.04	0.	17.36	160.78	756.57	148.142	41.600	105.634	0.860	140.0	135.7	19.00	0.	19.00
9 MAR.	37.71	1.02	0.	28.86	158.77	276.50	149.403	41.600	104.988	0.860	140.0	135.7	19.00	0.	19.00
9 APR.	44.48	1.02	0.	29.28	151.47	271.78	151.261	41.600	106.877	0.860	140.0	135.7	19.00	0.	19.00
9 MAY.	37.18	1.03	0.	27.83	152.57	335.07	153.095	41.600	109.517	0.860	140.0	135.7	19.00	0.	19.00
9 JUNE	78.45	0.76	0.	26.19	151.68	352.77	153.706	41.600	109.299	0.860	140.0	135.7	19.00	0.	19.00
9 JULY	76.06	0.61	0.	27.77	151.28	328.75	153.498	41.600	109.517	0.860	140.0	135.7	19.00	0.	19.00
9 AUG.	21.05	0.68	0.	27.92	155.08	508.51	152.753	41.600	109.517	0.860	140.0	135.7	19.00	0.	19.00
9 SEP.	28.52	0.61	0.	29.06	154.16	505.02	152.028	41.600	107.755	0.860	140.0	135.7	19.00	0.	19.00
9 OCT.	69.06	0.63	0.	27.26	149.43	413.28	153.280	41.600	111.168	0.860	140.0	135.7	19.00	0.	19.00
9 NOV.	107.10	0.60	0.	36.77	139.09	560.42	163.079	41.600	120.513	0.860	140.0	135.7	19.00	23.50	42.50
9 DEC.	22.02	0.75	0.	25.03	137.20	531.94	164.790	41.600	121.072	0.860	140.0	135.7	19.00	0.	19.00
ANNUAL TOTAL	507.10	9.26	0.	370.99	1826.23	4186.69	1644.034	499.200	1514.531	10.320	1680.0	1796.4	228.00	23.50	251.50
ANNUAL MEAN	41.88	0.77	0.	30.92	152.02	348.89	153.670	41.600	109.544	0.860	140.0	149.7	19.00	1.96	20.96

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	02% (CMS)	06 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.F. (GWH)	S.F. (GWH)	T.E. (GWH)
10 JAN.	86.95	0.90	0.	64.89	356.97	540.42	166.989	41.600	121.281	0.860	140.0	461.1	19.00	45.56	64.56
10 FEB.	53.87	1.17	0.	52.65	356.95	540.42	165.000	41.600	121.292	0.860	140.0	258.3	19.00	17.17	36.17
10 MAR.	92.06	1.58	0.	60.69	356.95	540.42	165.000	41.600	121.292	0.860	140.0	472.7	19.00	49.98	68.98
10 APR.	8.78	1.53	0.	26.89	358.60	691.59	165.781	41.600	120.045	0.860	140.0	135.7	19.00	0.	19.00
10 MAY	5.57	1.70	0.	25.86	341.78	654.03	161.827	41.600	117.364	0.860	140.0	135.7	19.00	0.	19.00
10 JUNE	6.71	0.92	0.	27.48	345.80	478.05	157.974	41.600	111.932	0.860	140.0	135.7	19.00	0.	19.00
10 JULY	12.18	0.63	0.	27.51	347.09	355.86	155.071	41.600	110.970	0.860	140.0	135.7	19.00	0.	19.00
10 AUG.	39.09	0.88	0.	27.84	352.61	311.14	153.069	41.600	108.849	0.860	140.0	135.7	19.00	0.	19.00
10 SEP.	21.89	0.61	0.	28.16	354.77	290.69	151.659	41.600	107.367	0.860	140.0	135.7	19.00	0.	19.00
10 OCT.	24.55	0.58	0.	28.51	356.31	278.54	150.618	41.600	106.270	0.860	140.0	135.7	19.00	0.	19.00
10 NOV.	66.04	0.56	0.	24.75	352.53	370.09	153.119	41.600	108.902	0.860	140.0	135.7	19.00	0.	19.00
10 DEC.	101.98	0.76	0.	37.69	340.09	560.42	161.306	41.600	118.619	0.860	140.0	200.2	19.00	9.02	28.02
ANNUAL TOTAL	501.14	10.52	0.	487.60	1743.27	5044.92	1802.200	499.200	1375.586	10.320	1680.0	2498.0	228.00	121.72	349.72
ANNUAL MEAN	41.76	0.88	0.	40.62	145.27	420.41	158.517	41.600	111.632	0.860	140.0	206.2	19.00	10.14	29.14

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	02% (CMS)	06 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O. HOUR (H)	P.F. (GWH)	S.F. (GWH)	T.E. (GWH)
11 JAN.	99.63	0.91	0.	98.77	356.95	540.42	165.000	41.600	121.292	0.860	140.0	538.3	19.00	56.08	75.08
11 FEB.	131.22	1.17	0.	130.05	356.95	540.42	165.000	41.600	121.292	0.860	140.0	634.1	19.00	70.34	89.34
11 MAR.	27.44	1.55	0.	25.04	357.26	329.84	164.758	41.600	121.018	0.860	140.0	135.7	19.00	0.	19.00
11 APR.	12.80	1.52	0.	26.15	358.73	491.10	163.506	41.600	119.740	0.860	140.0	135.7	19.00	0.	19.00
11 MAY	48.60	1.23	0.	28.66	359.59	501.92	162.792	41.600	118.999	0.860	140.0	135.7	19.00	0.	19.00
11 JUNE	58.27	0.97	0.	26.88	358.57	511.14	161.807	41.600	120.053	0.860	140.0	135.7	19.00	0.	19.00
11 JULY	27.57	0.75	0.	25.13	357.76	522.17	164.316	41.600	120.580	0.860	140.0	135.7	19.00	0.	19.00
11 AUG.	75.80	0.60	0.	68.59	357.00	500.67	164.938	41.600	121.253	0.860	140.0	511.4	19.00	52.99	71.99
11 SEP.	44.01	0.78	0.	43.23	356.95	540.42	165.000	41.600	121.292	0.860	140.0	227.3	19.00	12.82	51.82
11 OCT.	118.91	0.76	0.	118.15	356.95	540.42	165.000	41.600	121.292	0.860	140.0	641.9	19.00	70.88	89.88
11 NOV.	123.17	0.70	0.	122.67	356.95	540.42	165.000	41.600	121.292	0.860	140.0	643.8	19.00	71.14	90.14
11 DEC.	127.07	0.76	0.	126.26	356.95	540.42	165.000	41.600	121.292	0.860	140.0	685.9	19.00	77.03	96.03
ANNUAL TOTAL	862.58	11.67	0.	851.75	3659.46	6588.80	1974.072	499.200	1440.567	10.320	1680.0	4427.3	228.00	591.26	619.76
ANNUAL MEAN	70.21	0.95	0.	69.28	304.95	549.90	164.506	41.600	120.281	0.860	140.0	368.6	19.00	52.61	51.61

PAUSE 5 OF 2000

** RESERVOIR OPERATION STUDY OF AGOS DAM ** PLAN A-2 FANN-HLL 295

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	QG (CMS)	SZ (MCM)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (HR)	P.F. (GMH)	S.E. (GMH)	T.E. (GMH)
12 JAN.	133.48	0.91	0.	132.57	156.95	540.42	165.000	41.600	121.292	0.860	720.2	19.00	81.83	100.83
12 FEB.	106.97	1.17	0.	105.79	156.95	540.42	165.000	41.600	121.292	0.860	519.1	19.00	53.67	72.67
12 MAR.	76.67	1.36	0.	75.31	136.95	540.42	165.000	41.600	121.292	0.860	409.1	19.00	36.28	57.28
12 APR.	57.55	1.56	0.	55.99	136.95	540.42	165.000	41.600	121.292	0.860	189.2	19.00	7.49	26.49
12 MAY	54.99	1.28	0.	53.70	136.95	540.42	165.000	41.600	121.292	0.860	291.7	19.00	21.84	40.84
12 JUNE	29.88	0.94	0.	28.94	136.95	540.42	165.000	41.600	121.292	0.860	152.1	19.00	2.30	21.30
12 JULY	18.87	0.75	0.	25.08	137.50	521.78	164.537	41.600	120.809	0.860	135.7	19.00	0.	19.00
12 AUG.	19.26	0.59	0.	25.88	134.38	508.08	163.025	41.600	119.844	0.860	135.7	19.00	0.	19.00
12 SEP.	55.16	0.76	0.	26.10	138.47	525.59	163.722	41.600	119.964	0.860	135.7	19.00	0.43	44.43
12 OCT.	64.73	0.75	0.	58.44	136.99	540.42	164.948	41.600	121.256	0.860	140.0	19.00	25.43	44.43
12 NOV.	183.69	0.70	45.63	136.95	136.95	540.42	165.000	41.600	121.292	0.860	720.0	19.00	81.80	100.80
12 DEC.	58.96	0.76	0.	58.20	136.95	540.42	165.000	41.600	121.292	0.860	140.0	19.00	25.27	44.27
ANNUAL TOTAL	815.56	11.51	45.00	759.05	1647.20	6414.35	1976.813	499.200	1432.208	10.320	4042.2	228.00	337.91	565.91
ANNUAL MEAN	67.96	0.96	3.75	63.25	137.27	534.53	164.734	41.600	121.017	0.860	336.8	19.00	28.16	47.16
YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	QG (CMS)	SZ (MCM)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (HR)	P.F. (GMH)	S.E. (GMH)	T.E. (GMH)
13 JAN.	110.20	0.91	0.	109.29	156.95	540.42	165.000	41.600	121.292	0.860	593.7	19.00	64.12	83.12
13 FEB.	88.57	1.17	0.	87.39	156.95	540.42	165.000	41.600	121.292	0.860	428.6	19.00	41.00	60.00
13 MAR.	41.46	1.36	0.	40.10	136.95	540.42	165.000	41.600	121.292	0.860	271.9	19.00	11.50	30.50
13 APR.	36.92	1.56	0.	35.36	136.95	540.42	165.000	41.600	121.292	0.860	185.9	19.00	1.07	26.07
13 MAY	9.14	1.28	0.	25.23	138.33	493.94	163.840	41.600	120.087	0.860	140.0	19.00	0.	19.00
13 JUNE	8.85	0.88	0.	26.64	141.32	645.55	161.194	41.600	117.546	0.860	135.7	19.00	0.	19.00
13 JULY	29.01	0.69	0.	26.04	142.74	451.67	160.267	41.600	116.478	0.860	135.7	19.00	0.	19.00
13 AUG.	25.41	0.56	0.	26.02	142.64	448.56	160.348	41.600	116.438	0.860	140.0	19.00	0.	19.00
13 SEP.	63.76	0.75	0.	27.57	139.51	540.42	162.761	41.600	119.059	0.860	142.3	19.00	0.92	19.92
13 OCT.	33.48	0.76	0.	32.72	136.95	540.42	165.000	41.600	121.292	0.860	177.8	19.00	5.89	24.89
13 NOV.	172.11	0.70	0.	121.41	136.95	540.42	165.000	41.600	121.292	0.860	638.3	19.00	70.36	89.36
13 DEC.	121.24	0.76	0.	120.49	136.95	540.42	165.000	41.600	121.292	0.860	654.5	19.00	72.64	91.64
ANNUAL TOTAL	686.99	11.52	0.	675.47	1665.36	6159.99	1965.487	499.200	1434.447	10.320	5581.8	228.00	273.45	501.45
ANNUAL MEAN	57.25	0.94	0.	56.31	139.61	513.33	163.624	41.600	119.871	0.860	468.5	19.00	22.79	41.79
YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	QG (CMS)	SZ (MCM)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (HR)	P.F. (GMH)	S.E. (GMH)	T.E. (GMH)
14 JAN.	94.56	0.91	0.	93.65	136.95	540.42	165.000	41.600	121.292	0.860	508.7	19.00	52.22	71.22
14 FEB.	112.95	1.17	0.	111.78	136.95	540.42	165.000	41.600	121.292	0.860	548.5	19.00	57.79	76.79
14 MAR.	44.30	1.36	0.	42.94	136.95	540.42	165.000	41.600	121.292	0.860	233.3	19.00	13.66	32.66
14 APR.	31.20	1.56	0.	29.64	136.95	540.42	165.000	41.600	121.292	0.860	155.8	19.00	2.62	21.62
14 MAY	6.57	1.25	0.	25.27	138.54	486.08	163.664	41.600	119.904	0.860	135.7	19.00	0.	19.00
14 JUNE	12.27	0.88	0.	26.67	141.40	447.35	161.257	41.600	117.494	0.860	135.7	19.00	0.	19.00
14 JULY	18.03	0.68	0.	26.20	143.65	423.63	159.556	41.600	115.623	0.860	135.7	19.00	0.	19.00
14 AUG.	32.94	0.55	0.	26.25	143.91	440.08	159.557	41.600	115.426	0.860	135.7	19.00	0.	19.00
14 SEP.	44.93	0.73	0.	26.77	141.78	485.38	161.022	41.600	117.160	0.860	135.7	19.00	0.	19.00
14 OCT.	37.24	0.72	0.	26.50	139.79	501.31	162.629	41.600	116.830	0.860	135.7	19.00	0.	19.00
14 NOV.	31.28	0.68	0.	26.19	138.93	512.95	163.335	41.600	119.563	0.860	135.7	19.00	0.	19.00
14 DEC.	95.20	0.75	0.	84.45	137.02	540.42	164.899	41.600	121.237	0.860	457.2	19.00	45.00	64.00
ANNUAL TOTAL	557.06	11.21	0.	546.85	1674.17	5996.60	1955.562	499.200	1430.162	10.320	4833.5	228.00	171.49	399.49
ANNUAL MEAN	46.00	0.93	0.	45.57	139.43	499.70	162.963	41.600	119.180	0.860	402.8	19.00	14.29	33.29

DAM ** PIAR A-2 KARAN HWL 295

** RESERVOIR OPERATION STUDY OF AGUS

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	U6 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
15 JAN.	99.60	0.91	0.	99.69	130.95	540.42	165.000	41.600	121.292	0.860	140.0	530.2	19.00	56.06	75.06
15 FEB.	104.37	1.17	0.	105.54	136.95	540.42	165.000	41.600	121.292	0.860	140.0	508.1	19.00	51.86	70.86
15 MAR.	82.77	1.36	0.	84.13	136.95	540.42	165.000	41.600	121.292	0.860	140.0	442.1	19.00	47.92	61.92
15 APR.	39.66	1.56	0.	41.22	136.95	540.42	165.000	41.600	121.292	0.860	140.0	200.1	19.00	9.04	28.04
15 MAY	11.91	1.26	0.	13.17	138.30	501.47	164.030	41.600	120.283	0.860	140.0	133.7	19.00	0.	19.00
15 JUNE	21.78	0.90	0.	22.68	139.73	407.51	162.628	41.600	118.883	0.860	140.0	133.7	19.00	0.	19.00
15 JULY	28.08	0.72	0.	28.80	140.02	492.17	162.438	41.600	118.631	0.860	140.0	133.7	19.00	0.	19.00
15 AUG.	36.17	0.59	0.	36.76	139.07	519.47	163.203	41.600	119.488	0.860	140.0	143.5	19.00	1.04	20.04
15 SEP.	36.26	0.77	0.	37.03	137.45	540.42	165.000	41.600	120.453	0.860	140.0	143.5	19.00	6.45	25.45
15 OCT.	34.22	0.76	0.	34.98	136.95	540.42	165.000	41.600	121.292	0.860	140.0	143.5	19.00	81.80	100.80
15 NOV.	205.59	0.70	0.	206.29	130.95	540.42	165.000	41.600	121.292	0.860	140.0	720.0	19.00	81.80	100.80
15 DEC.	273.05	0.76	0.	273.81	136.95	540.42	165.000	41.600	121.292	0.860	140.0	748.0	19.00	85.16	104.16
ANNUAL TOTAL	920.80	11.43	155.99	755.39	1653.08	6322.36	1971.902	499.200	1447.112	10.320	1680.0	4016.9	228.00	334.57	562.57
ANNUAL MEAN	76.73	0.95	12.83	62.95	137.76	526.86	164.325	41.600	120.595	0.860	140.0	336.7	19.00	27.86	46.86

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	U6 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
16 JAN.	131.62	0.91	0.	132.53	136.95	540.42	165.000	41.600	121.292	0.860	140.0	719.1	19.00	80.42	99.42
16 FEB.	72.08	1.17	0.	73.25	136.95	540.42	165.000	41.600	121.292	0.860	140.0	343.9	19.00	29.71	48.71
16 MAR.	55.64	1.36	0.	57.00	136.95	540.42	165.000	41.600	121.292	0.860	140.0	186.2	19.00	7.07	26.07
16 APR.	8.18	1.53	0.	9.71	136.95	490.01	163.741	41.600	119.984	0.860	140.0	133.7	19.00	0.	19.00
16 MAY	0.98	1.20	0.	2.18	136.95	438.25	161.043	41.600	117.182	0.860	140.0	133.7	19.00	0.	19.00
16 JUNI	6.93	0.83	0.	7.76	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.7	19.00	0.	19.00
16 JULY	19.98	0.64	0.	20.62	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.7	19.00	0.	19.00
16 AUG.	18.55	0.50	0.	19.05	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.7	19.00	0.	19.00
16 SEP.	22.75	0.63	0.	23.38	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.7	19.00	0.	19.00
16 OCT.	41.00	0.61	0.	41.61	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.7	19.00	0.	19.00
16 NOV.	41.09	0.63	0.	41.72	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.7	19.00	0.	19.00
16 DEC.	184.11	0.74	40.84	143.53	136.95	540.42	165.000	41.600	121.292	0.860	140.0	670.9	19.00	74.95	93.95
ANNUAL TOTAL	629.84	10.70	41.62	577.52	1721.86	5315.74	1918.502	499.200	1391.587	10.320	1680.0	5000.9	228.00	192.17	420.12
ANNUAL MEAN	52.49	0.89	3.47	48.43	143.49	442.98	159.895	41.600	115.966	0.860	140.0	250.1	19.00	16.01	35.01

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	U6 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
17 JAN.	56.68	0.91	0.	57.59	136.95	540.42	165.000	41.600	121.292	0.860	140.0	308.0	19.00	23.42	42.42
17 FEB.	39.73	1.17	0.	40.90	136.95	540.42	165.000	41.600	121.292	0.860	140.0	189.2	19.00	7.49	26.49
17 MAR.	8.74	1.36	0.	10.10	136.95	491.30	163.773	41.600	120.017	0.860	140.0	133.7	19.00	0.	19.00
17 APR.	5.47	1.45	0.	6.92	136.95	438.25	161.043	41.600	117.112	0.860	140.0	133.7	19.00	0.	19.00
17 MAY	19.44	1.15	0.	20.59	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.7	19.00	0.	19.00
17 JUNE	8.02	0.80	0.	8.82	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.7	19.00	0.	19.00
17 JULY	11.83	0.61	0.	12.44	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.7	19.00	0.	19.00
17 AUG.	26.21	0.58	0.	26.79	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.7	19.00	0.	19.00
17 SEP.	55.73	0.54	0.	56.27	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.7	19.00	0.	19.00
17 OCT.	153.27	0.63	5.16	158.00	136.95	540.42	165.000	41.600	121.292	0.860	140.0	328.1	19.00	26.93	45.93
17 NOV.	155.54	0.76	15.65	171.29	136.95	540.42	165.000	41.600	121.292	0.860	140.0	748.0	19.00	85.16	104.16
ANNUAL TOTAL	548.08	10.41	21.02	516.65	1746.73	497.08	1899.774	499.200	1374.054	10.320	1680.0	2650.0	228.00	145.00	371.00
ANNUAL MEAN	45.67	0.87	1.75	43.05	145.52	415.59	158.310	41.600	114.505	0.860	140.0	220.8	19.00	11.92	30.92

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	UG (CMS)	S2 (MCM)	R.W.L. (M)	T.W.L. (M)	F.HEAD (M)	EFFICI.	POWER (MW)	O.HOUR (H)	P.F. (GWH)	S.F. (GWH)	T.E. (GWH)
18 JAN.	37.93	0.91	0.07	16.95	150.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	19.00	85.16	104.16
18 FEB.	41.16	1.17	0.0	39.99	158.95	540.42	165.000	41.600	121.292	0.860	140.0	196.2	19.00	8.47	27.47
18 MAR.	38.68	1.36	0.0	37.32	136.95	540.42	165.000	41.600	121.292	0.860	140.0	202.8	19.00	9.59	28.39
18 APR.	19.85	1.55	0.0	25.97	137.53	540.42	165.000	41.600	121.292	0.860	140.0	135.7	19.00	0.0	19.00
18 MAY	11.79	1.24	0.0	25.42	159.53	480.85	165.005	41.600	119.220	0.860	140.0	155.7	19.00	0.0	19.00
18 JUNE	21.34	0.98	0.0	26.60	141.13	464.41	161.544	41.600	117.703	0.860	140.0	135.7	19.00	0.0	19.00
18 JULY	14.89	0.69	0.0	26.04	142.74	432.70	160.284	41.600	116.371	0.860	140.0	135.7	19.00	0.0	19.00
18 AUG.	33.52	0.55	0.0	26.12	143.21	451.04	159.903	41.600	116.371	0.860	140.0	135.7	19.00	0.0	19.00
18 SEP.	24.90	0.72	0.0	26.92	142.82	443.94	160.207	41.600	116.371	0.860	140.0	135.7	19.00	0.0	19.00
18 OCT.	18.48	0.68	0.0	26.24	143.86	421.31	159.599	41.600	115.470	0.860	140.0	191.6	19.00	7.83	26.83
18 NOV.	85.64	0.67	0.0	37.02	139.10	540.42	162.540	41.600	119.435	0.860	140.0	540.7	19.00	56.70	75.70
18 DEC.	100.28	0.76	0.0	99.53	156.95	540.42	165.000	41.600	121.292	0.860	140.0	540.7	19.00	56.70	75.70
ANNUAL TOTAL	547.77	11.14	0.07	536.55	1677.77	5912.41	1951.189	499.200	1426.255	10.320	1480.0	2425.3	228.00	167.54	393.54
ANNUAL MEAN	45.65	0.93	0.01	44.71	139.81	492.70	162.599	41.600	118.855	0.860	140.0	235.4	19.00	13.96	32.96
YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	UG (CMS)	S2 (MCM)	R.W.L. (M)	T.W.L. (M)	F.HEAD (M)	EFFICI.	POWER (MW)	O.HOUR (H)	P.F. (GWH)	S.F. (GWH)	T.E. (GWH)
19 JAN.	95.94	0.91	0.0	95.03	136.95	540.42	165.000	41.600	121.292	0.860	140.0	516.3	19.00	55.28	72.28
19 FEB.	102.53	1.17	0.0	101.56	156.95	540.42	165.000	41.600	121.292	0.860	140.0	497.4	19.00	50.63	68.63
19 MAR.	102.53	1.16	0.0	100.97	156.95	540.42	165.000	41.600	121.292	0.860	140.0	548.5	19.00	57.79	76.79
19 APR.	54.46	1.58	0.0	52.90	156.95	540.42	165.000	41.600	121.292	0.860	140.0	278.1	19.00	19.94	38.94
19 MAY	8.67	1.66	0.0	25.74	136.57	492.52	163.804	41.600	120.049	0.860	140.0	155.7	19.00	0.0	19.00
19 JUNE	7.46	0.62	0.0	26.08	141.53	440.45	161.771	41.600	117.367	0.860	140.0	155.7	19.00	0.0	19.00
19 JULY	14.76	0.68	0.0	26.56	144.55	406.16	158.887	41.600	116.936	0.860	140.0	155.7	19.00	0.0	19.00
19 AUG.	28.77	0.53	0.0	26.56	145.42	410.64	158.057	41.600	116.071	0.860	140.0	155.7	19.00	0.0	19.00
19 SEP.	29.36	0.69	0.0	27.59	145.33	413.95	158.275	41.600	116.298	0.860	140.0	155.7	19.00	0.0	19.00
19 OCT.	36.44	0.68	0.0	26.52	144.29	439.24	159.068	41.600	115.125	0.860	140.0	155.7	19.00	0.0	19.00
19 NOV.	38.53	0.65	0.0	26.84	142.40	467.85	160.552	41.600	116.650	0.860	140.0	155.7	19.00	0.0	19.00
19 DEC.	23.04	0.70	0.0	25.86	141.76	458.42	161.044	41.600	117.182	0.860	140.0	155.7	19.00	0.0	19.00
ANNUAL TOTAL	537.73	11.03	0.0	527.89	1691.96	5885.50	1940.651	499.200	1416.578	10.320	1480.0	2226.0	228.00	181.63	409.63
ANNUAL MEAN	44.81	0.92	0.0	44.49	141.00	473.79	161.719	41.600	117.882	0.860	140.0	243.8	19.00	15.14	34.14
YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	UG (CMS)	S2 (MCM)	R.W.L. (M)	T.W.L. (M)	F.HEAD (M)	EFFICI.	POWER (MW)	O.HOUR (H)	P.F. (GWH)	S.F. (GWH)	T.E. (GWH)
20 JAN.	57.58	0.85	0.0	25.74	141.71	447.42	161.257	41.600	117.716	0.860	140.0	135.7	19.00	0.0	19.00
20 FEB.	9.63	1.09	0.0	28.63	141.76	458.71	161.037	41.600	117.175	0.860	140.0	135.7	19.00	0.0	19.00
20 MAR.	11.81	1.21	0.0	26.44	144.95	396.29	158.565	41.600	116.601	0.860	140.0	135.7	19.00	0.0	19.00
20 APR.	7.17	1.32	0.0	28.05	145.82	338.76	155.714	41.600	116.622	0.860	140.0	135.7	19.00	0.0	19.00
20 MAY	4.07	1.07	0.0	28.15	154.31	271.57	151.028	41.600	107.649	0.860	140.0	135.7	19.00	0.0	19.00
20 JUNE	3.20	0.87	0.0	30.66	161.59	199.38	167.341	41.600	102.801	0.860	140.0	135.7	19.00	0.0	19.00
20 JULY	10.92	0.50	0.0	30.82	159.84	144.53	162.784	41.600	98.313	0.860	152.4	135.5	19.00	0.0	19.00
20 AUG.	18.53	0.57	0.0	31.95	156.99	107.07	159.212	41.600	94.842	0.860	125.5	131.4	19.00	0.0	19.00
20 SEP.	21.65	0.65	0.0	34.03	156.63	73.79	156.293	41.600	92.006	0.860	119.9	138.5	19.00	0.0	19.00
20 OCT.	19.97	0.41	0.0	36.07	152.03	34.93	153.158	41.600	88.942	0.860	114.0	168.7	19.00	0.0	19.00
20 NOV.	52.74	0.37	0.0	32.08	150.17	25.31	150.908	41.600	86.775	0.860	109.8	173.0	19.00	0.0	19.00
20 DEC.	106.71	0.46	0.0	51.98	150.92	224.24	159.129	41.600	94.742	0.860	123.3	131.4	19.00	0.0	19.00
ANNUAL TOTAL	285.95	8.89	0.0	266.57	1873.87	7740.07	1756.683	499.200	1276.256	10.320	1566.4	1759.0	228.00	0.0	228.00
ANNUAL MEAN	23.83	0.72	0.0	30.55	151.99	227.51	146.390	41.600	102.188	0.860	150.5	146.6	19.00	0.0	19.00

AA RESERVOIR OPERATION STUDY OF AGUS DAM AA PLAN A-2 KANAN BML 2/5

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	R2/H (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD (M)	POWER (MW)	O.HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
21 JAN.	93.61	0.72	0.	26.05	155.75	597.93	152.299	41.600	108.040	140.0	135.7	19.00	0.	19.00
21 FEB.	23.46	1.01	0.	29.71	147.09	580.37	156.988	41.600	112.931	140.0	135.7	19.00	0.	19.00
21 MAR.	6.74	1.33	0.	27.39	150.18	528.02	156.748	41.600	110.611	140.0	135.7	19.00	0.	19.00
21 APR.	10.87	1.21	0.	29.24	155.13	271.27	151.389	41.600	107.082	140.0	135.7	19.00	0.	19.00
21 MAY	4.32	0.93	0.	29.65	161.47	201.47	147.409	41.600	102.873	140.0	135.7	19.00	0.	19.00
21 JUNE	6.19	0.61	0.	31.96	150.57	151.09	162.440	41.600	97.978	131.8	146.2	19.00	0.	19.00
21 JULY	10.93	0.45	0.	32.50	155.52	75.97	137.372	41.600	93.674	122.0	153.7	19.00	0.	19.00
21 AUG.	8.57	0.52	0.	34.61	150.83	3.56	131.703	41.600	87.549	111.3	170.7	19.00	0.	19.00
21 SEP.	57.23	0.59	0.	37.17	147.95	2.49	128.288	41.600	84.228	105.0	180.9	19.00	0.	19.00
21 OCT.	59.79	0.40	0.	34.72	150.59	88.56	151.412	41.600	87.266	110.8	171.5	19.00	0.	19.00
21 NOV.	211.13	0.55	0.	29.11	154.45	518.92	151.838	41.600	107.555	140.0	135.7	19.00	0.	19.00
21 DEC.	131.04	0.76	0.	129.77	156.95	540.42	145.000	41.600	121.290	140.0	704.7	19.00	79.66	98.66
ANNUAL TOTAL	604.42	8.45	0.	475.66	1475.66	2921.53	1750.311	499.200	1719.698	1560.0	2342.1	228.00	79.66	107.66
ANNUAL MEAN	50.37	0.70	0.	39.64	151.97	243.46	145.843	41.600	101.644	130.0	195.2	19.00	6.64	25.64

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	R2/H (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD (M)	POWER (MW)	O.HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
22 JAN.	79.14	0.91	0.	78.24	156.95	540.42	165.000	41.600	121.292	140.0	425.0	19.00	40.50	59.50
22 FEB.	124.65	1.17	0.	123.52	156.95	540.42	165.000	41.600	121.292	140.0	606.1	19.00	65.85	84.85
22 MAR.	112.85	1.56	0.	111.69	156.95	540.42	165.000	41.600	121.292	140.0	605.6	19.00	65.79	84.79
22 APR.	14.50	1.54	0.	26.00	157.95	508.41	164.159	41.600	120.617	140.0	135.7	19.00	0.	19.00
22 MAY	129.61	1.27	0.	115.72	157.01	540.42	164.897	41.600	121.259	140.0	628.4	19.00	68.98	87.98
22 JUNE	146.07	0.94	8.18	136.95	156.95	540.42	165.000	41.600	121.292	140.0	720.0	19.00	81.80	100.80
22 JULY	84.28	0.76	0.	85.52	156.95	540.42	165.000	41.600	121.292	140.0	453.7	19.00	44.52	63.52
22 AUG.	42.50	0.60	0.	41.70	156.95	540.42	165.000	41.600	121.292	140.0	226.5	19.00	12.71	31.71
22 SEP.	17.54	0.77	0.	25.95	157.65	516.72	164.412	41.600	120.679	140.0	135.7	19.00	0.	19.00
22 OCT.	129.12	0.75	0.	119.53	156.95	540.42	164.950	41.600	121.260	140.0	649.2	19.00	71.89	90.89
22 NOV.	186.23	0.70	64.58	136.95	156.95	540.42	165.000	41.600	121.292	140.0	720.0	19.00	81.80	100.80
22 DEC.	264.23	0.76	126.57	136.95	156.95	540.42	165.000	41.600	121.292	140.0	744.0	19.00	85.16	104.16
ANNUAL TOTAL	1351.85	11.50	186.95	1135.45	1445.20	6428.28	1978.455	499.200	1453.948	1680.0	6050.0	228.00	619.00	847.00
ANNUAL MEAN	110.99	0.96	15.57	94.62	157.10	555.69	164.869	41.600	121.162	140.0	504.2	19.00	51.58	70.58

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	R2/H (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD (M)	POWER (MW)	O.HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
23 JAN.	86.47	0.91	0.	85.56	156.95	540.42	165.000	41.600	121.292	140.0	464.8	19.00	46.07	65.07
23 FEB.	52.00	1.17	0.	50.82	156.95	540.42	165.000	41.600	121.292	140.0	151.2	19.00	2.17	21.17
23 MAR.	41.47	1.56	0.	40.11	156.95	540.42	165.000	41.600	121.292	140.0	217.9	19.00	11.51	30.51
23 APR.	29.10	1.56	0.	27.56	156.95	540.42	165.000	41.600	121.292	140.0	144.8	19.00	1.27	20.27
23 MAY	26.60	1.28	0.	25.60	156.95	540.42	165.000	41.600	121.292	140.0	158.0	19.00	0.57	19.57
23 JUNE	22.67	0.95	0.	25.87	157.27	578.70	164.734	41.600	121.014	140.0	155.7	19.00	0.	19.00
23 JULY	113.86	0.75	0.	109.10	156.95	540.42	164.988	41.600	121.279	140.0	572.7	19.00	63.97	82.97
23 AUG.	159.16	0.60	1.60	136.95	156.95	540.42	165.000	41.600	121.292	140.0	744.0	19.00	85.16	104.16
23 SEP.	76.60	0.78	0.	75.02	156.95	540.42	165.000	41.600	121.292	140.0	598.6	19.00	56.80	55.80
23 OCT.	34.18	0.76	0.	32.62	156.95	540.42	165.000	41.600	121.292	140.0	205.3	19.00	9.46	28.46
23 NOV.	128.19	0.70	0.	127.69	156.95	540.42	165.000	41.600	121.292	140.0	670.2	19.00	74.83	95.83
23 DEC.	162.69	0.76	26.68	136.95	156.95	540.42	165.000	41.600	121.292	140.0	744.0	19.00	85.16	104.16
ANNUAL TOTAL	992.68	11.55	27.09	866.06	1065.76	6478.41	1979.726	499.200	1455.215	1480.0	6405.2	228.00	416.73	644.73
ANNUAL MEAN	75.22	0.96	2.26	72.00	156.99	539.54	164.977	41.600	121.268	140.0	583.8	19.00	34.73	53.73

** RESERVOIR OPERATION STUDY OF AGOS DAM #A PLAN A-2 KANAN HWL 2/5

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	U6 (CMS)	S2 (MCM)	R.W.L. (CM)	T.W.L. (CM)	L.HEAD (FFICT.)	POWER (MW)	O. HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.F. (GWH)
24 JAN.	48.80	0.91	0.	47.89	136.95	540.42	165.000	41.600	121.292	0.860	200.2	19.00	47.42	36.42
24 FEB.	64.95	1.17	0.	63.78	136.95	540.42	165.000	41.600	121.292	0.860	313.0	19.00	24.81	43.81
24 MAR.	23.38	1.35	0.	25.02	137.19	532.59	164.801	41.600	121.083	0.860	135.7	19.00	0.	19.00
24 APR.	13.06	1.52	0.	26.17	138.55	498.59	163.653	41.600	119.893	0.860	135.7	19.00	0.	19.00
24 MAY	11.72	1.21	0.	25.72	141.07	453.85	161.628	41.600	117.790	0.860	135.7	19.00	0.	19.00
24 JUNE	17.06	0.85	0.	27.02	143.35	425.82	159.792	41.600	115.880	0.860	135.7	19.00	0.	19.00
24 JULY	18.76	0.67	0.	26.88	145.16	403.35	158.403	41.600	114.432	0.860	135.7	19.00	0.	19.00
24 AUG.	14.23	0.52	0.	26.88	147.56	368.09	156.769	41.600	112.725	0.860	135.7	19.00	0.	19.00
24 SEP.	17.57	0.65	0.	26.28	150.02	336.13	156.862	41.600	110.730	0.860	135.7	19.00	0.	19.00
24 OCT.	52.64	0.64	0.	27.09	148.49	406.86	155.946	41.600	111.865	0.860	135.7	19.00	0.	19.00
24 NOV.	187.00	0.66	53.21	100.83	137.51	540.42	165.869	41.600	120.990	0.860	528.7	19.00	52.02	74.02
24 DEC.	283.00	0.76	145.89	136.95	136.95	540.42	165.000	41.600	121.292	0.860	744.0	19.00	83.16	104.16
ANNUAL TOTAL	752.98	10.89	141.64	580.56	1899.68	5577.56	561956.441	409.2001808.958	10.320	1880.0	2931.5	228.00	182.41	410.41
ANNUAL MEAN	62.74	0.91	15.12	40.71	161.64	466.78	161.201	41.600	117.413	0.860	244.3	19.00	15.20	34.20

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	U6 (CMS)	S2 (MCM)	R.W.L. (CM)	T.W.L. (CM)	L.HEAD (FFICT.)	POWER (MW)	O. HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.F. (GWH)
25 JAN.	143.76	0.91	5.70	136.95	136.95	540.42	165.000	41.600	121.292	0.860	744.0	19.00	85.16	104.16
25 FEB.	138.43	1.17	0.51	136.95	136.95	540.42	165.000	41.600	121.292	0.860	672.0	19.00	73.08	94.08
25 MAR.	75.98	1.55	0.	74.67	136.95	540.42	164.800	41.600	121.292	0.860	405.4	19.00	57.75	76.75
25 APR.	18.71	1.55	0.	25.94	137.62	517.67	164.434	41.600	120.703	0.860	135.7	19.00	0.	19.00
25 MAY	11.96	1.24	0.	25.45	139.51	478.22	162.861	41.600	119.071	0.860	135.7	19.00	0.	19.00
25 JUNE	8.41	0.86	0.	26.85	142.63	428.20	160.514	41.600	116.632	0.860	135.7	19.00	0.	19.00
25 JULY	29.47	0.68	0.	26.25	143.93	434.98	159.343	41.600	115.411	0.860	135.7	19.00	0.	19.00
25 AUG.	27.26	0.55	0.	26.28	145.64	436.36	159.566	41.600	115.644	0.860	135.7	19.00	0.	19.00
25 SEP.	38.81	0.72	0.	26.08	142.58	465.42	160.390	41.600	116.502	0.860	135.7	19.00	0.	19.00
25 OCT.	28.13	0.71	0.	25.80	141.66	409.76	161.280	41.600	117.428	0.860	135.7	19.00	0.	19.00
25 NOV.	134.29	0.68	0.	106.55	137.15	540.42	164.550	41.600	121.117	0.860	558.3	19.00	59.16	78.16
25 DEC.	68.63	0.76	0.	67.88	136.95	540.42	165.000	41.600	121.292	0.860	368.7	19.00	32.62	51.62
ANNUAL TOTAL	777.68	11.15	6.30	208.04	1876.57	9229.001952.750	499.2001427.475	409.2001808.958	10.320	1880.0	5698.4	228.00	249.78	517.78
ANNUAL MEAN	59.79	0.93	0.52	58.34	159.70	494.08	162.729	41.600	118.956	0.860	508.2	19.00	24.15	45.15

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	U6 (CMS)	S2 (MCM)	R.W.L. (CM)	T.W.L. (CM)	L.HEAD (FFICT.)	POWER (MW)	O. HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.F. (GWH)
26 JAN.	53.46	0.91	0.	56.56	136.95	540.42	165.000	41.600	121.292	0.860	285.5	19.00	20.97	39.97
26 FEB.	37.23	1.17	0.	36.05	136.95	540.42	165.000	41.600	121.292	0.860	176.9	19.00	5.77	24.77
26 MAR.	11.56	1.54	0.	25.20	136.14	500.32	164.001	41.600	120.253	0.860	135.7	19.00	0.	19.00
26 APR.	5.19	1.66	0.	26.63	141.26	440.96	161.441	41.600	117.595	0.860	135.7	19.00	0.	19.00
26 MAY	8.44	1.14	0.	26.47	143.11	389.62	158.642	41.600	114.473	0.860	135.7	19.00	0.	19.00
26 JUNE	11.03	0.79	0.	26.07	144.90	343.41	155.655	41.600	111.560	0.860	135.7	19.00	0.	19.00
26 JULY	13.13	0.61	0.	27.85	152.66	302.37	153.032	41.600	108.810	0.860	135.7	19.00	0.	19.00
26 AUG.	41.47	0.68	0.	27.90	152.94	337.42	152.847	41.600	108.615	0.860	135.7	19.00	0.	19.00
26 SEP.	46.07	0.65	0.	28.16	149.59	383.72	155.505	41.600	111.194	0.860	135.7	19.00	0.	19.00
26 OCT.	147.87	0.70	5.78	85.38	137.67	540.42	163.064	41.600	120.666	0.860	450.6	19.00	44.08	63.08
26 NOV.	156.08	0.70	19.52	136.95	136.95	540.42	165.000	41.600	121.292	0.860	720.0	19.00	81.80	100.80
26 DEC.	211.69	0.76	24.98	136.95	136.95	540.42	165.000	41.600	121.292	0.860	744.0	19.00	85.16	104.16
ANNUAL TOTAL	748.10	10.68	99.62	637.58	1714.28	5194.001973.451	499.2001598.031	409.2001808.958	10.320	1680.0	5127.0	228.00	237.78	465.78
ANNUAL MEAN	62.34	0.89	8.57	53.13	142.86	449.50	160.288	41.600	116.503	0.860	277.3	19.00	19.82	38.82
GRAND MEAN	60.79	0.90	6.44	53.45	142.27	454.57	160.276	41.600	116.441	0.860	355.4	228.00	240.10	468.10

HIGH WATER LEVEL IN METER 165.000 LOW WATER LEVEL IN METER 128.000 RATED HEAD IN METER ***** 102.020
 INSTALLED CAPACITY IN MW 140.000 DEMURABLE CAPACITY IN MW 104.899 TARGET OPERATION HOUR A DAY 4.13
 RATED DISCHARGE IN CMS 167.874 TYPE OF RULF CURVE ** VARIABLE MASS CURVE

RULE CURVE IN MWH JAN. 17.938 MAR. 17.938 APR. 17.938 MAY 17.938 JUNE 17.938 JULY 17.938 AUG. 17.938 SEP. 17.938 OCT. 17.938 NOV. 17.938 DEC. 17.938

LENGTH OF INFLOW SERIES IN YEAR 26

YEAR MONTH	INFLOW (CMS)	EVAPD. (CMS)	SPILL (CMS)	H24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFECT.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
1 JAN.	156.93	0.91	19.07	136.95	136.95	540.42	165.000	41.600	121.292	0.860	744.0	17.94	86.22	104.16
1 FEB.	66.97	1.17	0	65.80	136.95	540.42	165.000	41.600	121.292	0.860	322.8	17.94	27.26	45.20
1 MAR.	80.97	1.36	0	79.61	156.95	540.42	165.000	41.600	121.292	0.860	432.5	17.94	42.61	60.35
1 APR.	14.59	1.54	0	24.53	137.83	510.66	165.260	41.600	120.522	0.860	128.1	17.94	0	17.94
1 MAY	8.14	1.22	0	24.14	140.16	446.55	165.327	41.600	118.516	0.860	128.1	17.94	0	17.94
1 JUNE	7.65	0.85	0	25.50	145.32	416.05	159.818	41.600	115.906	0.860	140.0	17.94	0	17.94
1 JULY	17.47	0.66	0	24.17	141.86	393.01	157.837	41.600	113.862	0.860	128.1	17.94	0	17.94
1 AUG.	23.22	0.52	0	25.32	147.02	380.61	157.021	41.600	112.989	0.860	128.1	17.94	0	17.94
1 SEP.	17.34	0.66	0	26.39	148.29	361.45	156.093	41.600	112.018	0.860	128.1	17.94	0	17.94
1 OCT.	60.15	0.66	0	25.09	145.69	453.57	158.007	41.600	114.018	0.860	128.1	17.94	0	17.94
1 NOV.	65.32	0.68	0	31.13	138.73	540.42	163.158	41.600	119.749	0.860	161.6	17.94	4.68	22.62
1 DEC.	159.31	0.76	21.60	136.95	136.95	540.42	165.000	41.600	121.292	0.860	744.0	17.94	86.22	104.16
ANNUAL TOTAL	680.95	10.97	61.46	628.52	1695.05	5684.28	1938.293	499.200	112.487	10.320	5301.8	215.25	247.00	462.83
ANNUAL MEAN	56.75	0.91	5.15	52.38	141.25	473.69	161.524	41.600	117.707	0.860	275.1	17.94	20.58	38.57

YEAR MONTH	INFLOW (CMS)	EVAPD. (CMS)	SPILL (CMS)	H24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFECT.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
2 JAN.	175.60	0.91	0	126.69	136.95	540.42	165.000	41.600	121.292	0.860	677.4	17.94	76.89	94.83
2 FEB.	66.53	1.17	0	65.16	136.95	540.42	165.000	41.600	121.292	0.860	320.7	17.94	26.96	44.90
2 MAR.	12.10	1.34	0	23.76	137.94	505.58	164.133	41.600	120.390	0.860	140.0	17.94	0	17.94
2 APR.	9.64	1.48	0	24.99	140.41	461.96	162.128	41.600	118.309	0.860	128.1	17.94	0	17.94
2 MAY	24.70	1.19	0	24.64	141.92	459.65	160.915	41.600	117.048	0.860	128.1	17.94	0	17.94
2 JUNE	12.50	0.85	0	25.69	143.73	423.57	159.884	41.600	115.975	0.860	128.1	17.94	0	17.94
2 JULY	15.77	0.67	0	25.05	145.49	394.91	158.160	41.600	114.178	0.860	128.1	17.94	0	17.94
2 AUG.	51.74	0.55	0	26.78	145.88	667.18	159.384	41.600	115.455	0.860	140.0	17.94	0	17.94
2 SEP.	21.16	0.74	0	25.24	141.86	455.30	160.959	41.600	117.024	0.860	128.1	17.94	0	17.94
2 OCT.	23.21	0.70	0	24.53	142.47	449.89	160.481	41.600	116.597	0.860	128.1	17.94	0	17.94
2 NOV.	178.92	0.67	31.89	111.63	137.09	540.42	166.480	41.600	121.174	0.860	585.2	17.94	6.00	81.93
2 DEC.	294.09	0.76	156.58	146.78	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	86.22	104.16
ANNUAL TOTAL	858.15	10.94	190.83	636.33	1685.60	5777.86	1945.275	497.200	117.432	10.320	5352.3	215.25	254.08	469.33
ANNUAL MEAN	69.85	0.92	15.90	53.03	140.46	481.49	162.106	41.600	118.319	0.860	279.4	17.94	21.17	39.11

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
3 JAN.	159.46	0.91	21.00	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	17.94	80.27	104.16
3 FEB.	80.97	1.17	0.	79.79	540.42	165.000	41.600	121.292	0.860	140.0	591.5	17.94	36.88	54.81
3 MAR.	13.65	1.34	0.	23.74	509.79	164.738	41.600	120.500	0.860	140.0	128.1	17.94	0.	17.94
3 APR.	12.64	1.49	0.	24.90	539.90	162.519	41.600	119.737	0.860	140.0	128.1	17.94	0.	17.94
3 MAY.	8.58	1.18	0.	24.56	427.62	160.375	41.600	116.487	0.860	140.0	128.1	17.94	0.	17.94
3 JUNE	14.05	0.43	0.	25.28	445.41	158.215	41.600	114.236	0.860	140.0	128.1	17.94	0.	17.94
3 JULY	14.66	0.65	0.	25.40	477.85	156.411	41.600	112.351	0.860	140.0	128.1	17.94	0.	17.94
3 AUG.	50.15	0.53	0.	25.25	449.54	157.403	41.600	113.590	0.860	140.0	128.1	17.94	0.	17.94
3 SEP.	33.93	0.71	0.	25.51	449.69	159.774	41.600	115.861	0.860	140.0	128.1	17.94	0.	17.94
3 OCT.	215.69	0.73	64.14	116.48	540.42	164.592	41.600	121.292	0.860	140.0	632.5	17.94	70.89	88.83
3 NOV.	43.03	0.70	0.	42.33	536.95	165.000	41.600	121.292	0.860	140.0	222.6	17.94	13.22	31.16
3 DEC.	212.99	0.76	75.28	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	17.94	86.22	104.16
ANNUAL TOTAL	664.64	10.94	164.10	489.64	5717.67	18194.527	499.200	1417.609	10.320	1400.0	5653.6	215.25	295.45	508.64
ANNUAL MEAN	72.06	0.91	18.68	57.47	140.72	478.92	161.944	41.600	118.142	0.860	502.8	17.94	24.45	42.59
YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
4 JAN.	110.95	0.91	0.	110.06	540.42	165.000	41.600	121.292	0.860	140.0	597.8	17.94	85.76	85.02
4 FEB.	125.78	1.17	0.	124.61	540.42	165.000	41.600	121.292	0.860	140.0	611.4	17.94	67.66	85.02
4 MAR.	15.03	1.34	0.	25.72	515.53	166.532	41.600	120.597	0.860	140.0	128.1	17.94	0.	17.94
4 APR.	14.73	1.50	0.	24.42	532.47	168.890	41.600	119.101	0.860	140.0	128.1	17.94	0.	17.94
4 MAY.	7.51	1.19	0.	24.46	434.36	160.819	41.600	116.949	0.860	140.0	128.1	17.94	0.	17.94
4 JUNE	14.75	0.83	0.	25.78	464.89	161.612	41.600	114.640	0.860	140.0	128.1	17.94	0.	17.94
4 JULY	10.03	0.63	0.	25.44	447.75	159.229	41.600	112.429	0.860	140.0	128.1	17.94	0.	17.94
4 AUG.	33.93	0.51	0.	25.60	448.63	159.845	41.600	111.760	0.860	140.0	128.1	17.94	0.	17.94
4 SEP.	15.46	0.66	0.	26.52	449.02	159.570	41.600	111.471	0.860	140.0	128.1	17.94	0.	17.94
4 OCT.	51.91	0.65	0.	25.19	447.45	159.700	41.600	112.653	0.860	140.0	128.1	17.94	0.	17.94
4 NOV.	55.68	0.65	0.	25.69	442.12	160.754	41.600	116.881	0.860	140.0	128.1	17.94	0.	17.94
4 DEC.	251.50	0.74	105.53	128.73	536.97	164.920	41.600	121.277	0.860	140.0	690.2	17.94	79.96	97.89
ANNUAL TOTAL	704.41	10.78	107.56	586.07	6710.56	221926.639	499.200	1400.052	10.320	1400.0	3061.6	215.25	213.37	428.62
ANNUAL MEAN	58.70	0.90	8.96	48.84	142.53	456.52	160.553	41.600	116.671	0.860	255.1	17.94	17.78	35.72
YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
5 JAN.	93.24	0.91	0.	94.53	540.42	165.000	41.600	121.292	0.860	140.0	512.5	17.94	53.81	71.75
5 FEB.	56.57	1.17	0.	55.15	540.42	165.000	41.600	121.292	0.860	140.0	270.6	17.94	19.95	37.88
5 MAR.	127.03	1.36	0.	120.47	536.95	164.079	41.600	120.355	0.860	140.0	655.6	17.94	73.84	91.78
5 APR.	11.86	1.54	0.	24.56	505.45	164.079	41.600	120.355	0.860	140.0	128.1	17.94	0.	17.94
5 MAY.	8.42	1.22	0.	24.71	440.61	161.946	41.600	115.655	0.860	140.0	128.1	17.94	0.	17.94
5 JUNE	6.74	0.85	0.	25.60	443.88	159.584	41.600	112.664	0.860	140.0	128.1	17.94	0.	17.94
5 JULY	9.53	0.65	0.	25.94	530.19	156.710	41.600	110.509	0.860	140.0	128.1	17.94	0.	17.94
5 AUG.	14.34	0.50	0.	25.59	447.44	156.460	41.600	109.241	0.860	140.0	128.1	17.94	0.	17.94
5 SEP.	16.02	0.62	0.	27.30	453.41	152.529	41.600	108.241	0.860	140.0	128.1	17.94	0.	17.94
5 OCT.	17.84	0.58	0.	26.69	456.13	150.737	41.600	106.595	0.860	140.0	128.1	17.94	0.	17.94
5 NOV.	36.21	0.54	0.	27.83	456.40	150.561	41.600	106.210	0.860	140.0	128.1	17.94	0.	17.94
5 DEC.	167.63	0.67	10.46	64.77	538.90	160.811	41.600	119.671	0.860	140.0	344.2	17.94	30.26	48.19
ANNUAL TOTAL	564.86	10.56	10.66	545.64	6736.59	221905.922	499.200	1381.061	10.320	1400.0	2807.9	215.25	177.85	593.10
ANNUAL MEAN	47.07	0.88	0.89	45.40	144.72	423.69	158.827	41.600	115.088	0.860	234.0	17.94	14.82	32.76

*** RESERVOIR OPERATION STUDY OF AGOS BAP AA PLAN A-2 KANAR HML 295

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U/4 (CMS)	UG (CMS)	S2 (MGCM)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (HR)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
6 JAN.	234.69	0.91	96.83	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	17.94	86.22	106.16
6 FEB.	28.93	1.17	0.	27.76	136.95	540.42	165.000	41.600	121.292	0.860	140.0	136.2	17.94	1.13	19.07
6 MAR.	12.87	1.56	0.	23.75	137.92	507.68	164.185	41.600	120.445	0.860	140.0	128.1	17.94	0.	17.94
6 APR.	13.10	1.69	0.	24.91	139.98	473.19	162.474	41.600	118.669	0.860	140.0	128.1	17.94	0.	17.94
6 MAY	8.58	1.18	0.	21.57	147.65	426.68	160.338	41.600	116.469	0.860	140.0	128.1	17.94	0.	17.94
6 JUNE	16.58	0.83	0.	21.85	145.74	400.56	158.344	41.600	114.370	0.860	140.0	128.1	17.94	0.	17.94
6 JULY	16.58	0.85	0.	23.35	147.22	374.58	156.869	41.600	112.811	0.860	140.0	128.1	17.94	0.	17.94
6 AUG.	11.90	0.50	0.	23.80	149.85	335.99	154.992	41.600	110.866	0.860	140.0	128.1	17.94	0.	17.94
6 SEP.	22.43	0.65	0.	27.07	152.10	322.33	153.417	41.600	109.214	0.860	140.0	128.1	17.94	0.	17.94
6 OCT.	45.00	0.62	0.	25.91	150.46	375.40	154.549	41.600	110.402	0.860	140.0	128.1	17.94	0.	17.94
6 NOV.	90.28	0.65	0.	25.30	142.18	540.13	160.705	41.600	116.810	0.860	140.0	128.1	17.94	0.	17.94
6 DEC.	96.35	0.76	0.	93.49	136.95	540.42	165.000	41.600	121.292	0.860	140.0	518.7	17.94	54.69	72.62
ANNUAL TOTAL	601.55	10.71	98.69	491.96	1718.84	5168.57	1920.563	499.200	1395.627	10.320	1680.0	2552.1	215.25	142.04	357.29
ANNUAL MEAN	50.11	0.89	8.22	41.00	143.24	447.56	160.047	41.600	116.136	0.860	140.0	212.7	17.94	11.84	29.77

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U/4 (CMS)	UG (CMS)	S2 (MGCM)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (HR)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
7 JAN.	97.61	0.91	0.	96.71	136.95	540.42	165.000	41.600	121.292	0.860	140.0	525.4	17.94	55.61	75.55
7 FEB.	66.44	1.17	0.	65.27	136.95	540.42	165.000	41.600	121.292	0.860	140.0	320.3	17.94	26.90	44.84
7 MAR.	94.73	1.56	0.	93.37	136.95	540.42	165.000	41.600	121.292	0.860	140.0	507.2	17.94	53.07	71.01
7 APR.	105.20	1.56	0.	103.64	136.95	540.42	165.000	41.600	121.292	0.860	140.0	544.9	17.94	58.34	76.28
7 MAY	25.93	1.28	0.	24.64	136.95	540.42	165.000	41.600	121.292	0.860	140.0	133.9	17.94	0.81	18.74
7 JUNE	19.90	0.93	0.	24.44	137.36	376.65	164.634	41.600	120.910	0.860	140.0	128.1	17.94	0.	17.94
7 JULY	28.57	0.75	0.	28.27	137.45	357.56	164.382	41.600	120.856	0.860	140.0	128.1	17.94	0.	17.94
7 AUG.	31.66	0.40	0.	29.99	136.95	540.42	165.000	41.600	121.292	0.860	140.0	162.9	17.94	4.87	22.81
7 SEP.	68.57	0.74	0.	47.56	136.95	540.42	165.000	41.600	121.292	0.860	140.0	249.9	17.94	17.05	34.99
7 OCT.	47.31	0.76	0.	46.35	136.95	540.42	165.000	41.600	121.292	0.860	140.0	443.0	17.94	44.09	62.02
7 NOV.	161.44	0.70	25.78	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	720.0	17.94	82.86	100.80
7 DEC.	443.65	0.76	105.94	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	17.94	86.22	104.16
ANNUAL TOTAL	1211.41	11.56	153.76	863.69	1864.56	6168.57	1929.222	499.200	1454.690	10.320	1680.0	4607.7	215.25	429.83	645.08
ANNUAL MEAN	100.95	0.96	27.94	72.05	155.03	519.03	164.935	41.600	121.226	0.860	140.0	386.0	17.94	35.82	53.76

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U/4 (CMS)	UG (CMS)	S2 (MGCM)	R.W.L. (CM)	T.W.L. (CM)	E-HEAD (CM)	EFFICI.	POWER (MW)	O-HOUR (HR)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
8 JAN.	170.60	0.91	52.74	117.89	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	17.94	86.22	104.16
8 FEB.	51.85	1.17	0.	50.68	136.95	540.42	165.000	41.600	121.292	0.860	140.0	160.3	17.94	4.51	22.65
8 MAR.	11.28	1.34	0.	23.77	138.04	505.56	164.077	41.600	120.333	0.860	140.0	128.1	17.94	0.	17.94
8 APR.	8.22	1.68	0.	23.03	140.67	455.95	161.913	41.600	118.086	0.860	140.0	128.1	17.94	0.	17.94
8 MAY	5.04	1.16	0.	24.37	144.13	407.38	159.184	41.600	117.750	0.860	140.0	128.1	17.94	0.	17.94
8 JUNE	6.01	0.61	0.	26.59	148.28	466.70	156.099	41.600	118.025	0.860	140.0	128.1	17.94	0.	17.94
8 JULY	11.53	0.40	0.	26.74	147.56	305.69	153.235	41.600	109.023	0.860	140.0	128.1	17.94	0.	17.94
8 AUG.	26.01	0.67	0.	26.59	146.59	302.87	151.872	41.600	107.590	0.860	140.0	128.1	17.94	0.	17.94
8 SEP.	19.43	0.60	0.	27.60	150.06	279.84	151.052	41.600	106.727	0.860	140.0	128.1	17.94	0.	17.94
8 OCT.	25.58	0.57	0.	27.65	147.10	273.85	150.115	41.600	105.740	0.860	140.0	128.1	17.94	0.	17.94
8 NOV.	51.06	0.53	0.	27.95	147.06	280.53	150.136	41.600	105.762	0.860	140.0	128.1	17.94	0.	17.94
8 DEC.	21.66	0.77	0.	27.16	145.58	261.80	149.808	41.600	105.416	0.860	140.0	128.1	17.94	0.	17.94
ANNUAL TOTAL	572.34	10.17	53.77	453.56	1740.03	6168.57	1929.222	499.200	1454.690	10.320	1680.0	2185.6	215.25	90.73	303.98
ANNUAL MEAN	51.01	0.85	2.78	56.15	145.01	519.03	164.935	41.600	121.226	0.860	140.0	182.1	17.94	7.56	25.50

RESERVOIR OPERATION STUDY OF AGUAS BAI PLAN A-2 KANAW HML 2VS

RESERVOIR OPERATION STUDY OF AGUAS BAI PLAN A-2 KANAW HML 2VS

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	H.W.L. (CM)	L.W.L. (CM)	L-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
9 JAN.	40.42	0.69	0.	26.98	156.69	297.93	150.375	41.600	108.014	0.860	140.0	128.1	17.94	17.94
9 FEB.	71.95	0.70	0.	29.75	146.03	276.67	150.797	41.600	108.459	0.860	140.0	128.1	17.94	17.94
9 MAR.	20.04	1.14	0.	24.55	150.43	256.44	148.044	41.600	104.987	0.860	140.0	128.1	17.94	17.94
9 APR.	20.50	0.91	0.	24.03	162.77	215.83	146.653	41.600	102.051	0.860	140.0	128.1	17.94	17.94
9 MAY	38.88	0.64	0.	29.68	161.42	284.68	144.799	41.600	100.211	0.860	134.1	17.94	17.94	17.94
9 JUNE	26.66	0.50	0.	28.90	160.38	177.54	143.466	41.600	98.975	0.860	134.1	17.94	17.94	17.94
9 JULY	21.04	0.40	0.	29.23	159.48	154.55	142.551	41.600	97.872	0.860	134.1	17.94	17.94	17.94
9 AUG.	28.32	0.30	0.	30.55	158.57	147.27	141.182	41.600	96.753	0.860	134.1	17.94	17.94	17.94
9 SEP.	58.06	0.31	0.	26.80	160.65	224.26	145.817	41.600	99.516	0.860	134.1	17.94	17.94	17.94
9 OCT.	56.92	0.52	0.	28.28	158.28	297.21	149.054	41.600	108.619	0.860	140.0	128.1	17.94	17.94
9 NOV.	20.12	0.58	0.	26.87	156.03	277.58	150.797	41.600	108.459	0.860	140.0	128.1	17.94	17.94
9 DEC.	55.98	0.79	0.	56.64	180.69	275.98	170.619	49.200	127.051	10.370	165.5	157.0	0.	215.25
ANNUAL TOTAL	29.67	0.09	0.	26.34	159.14	228.50	146.702	41.600	102.253	0.860	137.1	150.9	17.94	17.94

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	H.W.L. (CM)	L.W.L. (CM)	L-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
10 JAN.	72.31	0.76	0.	26.03	151.27	599.31	153.208	41.600	102.836	0.860	140.0	128.1	17.94	17.94
10 FEB.	64.25	1.04	0.	27.62	144.89	537.41	154.613	41.600	116.651	0.860	140.0	128.1	17.94	17.94
10 MAR.	82.49	1.30	0.	42.66	138.20	560.42	163.238	41.600	120.211	0.860	140.0	229.6	14.21	32.15
10 APR.	8.78	1.33	0.	26.61	138.28	495.42	163.827	41.600	120.125	0.860	140.0	128.1	17.94	17.94
10 MAY	5.57	1.20	0.	26.35	141.39	441.89	161.336	41.600	117.486	0.860	140.0	128.1	17.94	17.94
10 JUNE	6.71	0.81	0.	24.01	145.06	390.22	158.885	41.600	114.517	0.860	140.0	128.1	17.94	17.94
10 JULY	12.14	0.64	0.	25.57	143.50	352.64	155.242	41.600	111.861	0.860	140.0	128.1	17.94	17.94
10 AUG.	19.09	0.50	0.	25.99	130.90	352.84	154.241	41.600	110.079	0.860	140.0	128.1	17.94	17.94
10 SEP.	21.89	0.63	0.	27.13	132.43	317.65	153.176	41.600	108.061	0.860	140.0	128.1	17.94	17.94
10 OCT.	24.55	0.60	0.	26.44	135.45	311.00	152.500	41.600	108.252	0.860	140.0	128.1	17.94	17.94
10 NOV.	64.64	0.59	0.	26.60	149.48	408.08	155.244	41.600	111.130	0.860	140.0	128.1	17.94	17.94
10 DEC.	82.60	0.70	0.	24.67	142.09	508.35	160.781	41.600	116.909	0.860	140.0	128.1	17.94	17.94
ANNUAL TOTAL	425.49	10.27	0.	527.41	1746.09	4955.74	1610.314	49.200	1563.608	10.370	1880.0	1659.0	14.71	229.44
ANNUAL MEAN	58.66	0.86	0.	27.27	166.34	411.14	157.602	41.600	111.658	0.860	140.0	136.6	1.88	19.12

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	H.W.L. (CM)	L.W.L. (CM)	L-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
11 JAN.	90.06	0.89	0.	77.18	137.04	540.42	164.854	41.600	121.218	0.860	140.0	419.0	40.23	58.67
11 FEB.	123.65	1.17	0.	120.48	136.95	540.42	165.000	41.600	121.202	0.860	140.0	591.2	64.83	82.74
11 MAR.	15.18	1.34	0.	23.72	137.73	513.95	164.542	41.600	120.608	0.860	140.0	128.1	17.94	17.94
11 APR.	12.26	1.50	0.	26.85	139.65	477.42	162.245	41.600	119.950	0.860	140.0	128.1	17.94	17.94
11 MAY	18.34	1.20	0.	26.58	141.45	458.09	161.288	41.600	117.457	0.860	140.0	128.1	17.94	17.94
11 JUNE	22.39	0.86	0.	25.55	142.43	448.18	160.510	41.600	116.627	0.860	140.0	128.1	17.94	17.94
11 JULY	22.52	0.58	0.	24.63	145.03	440.59	160.042	41.600	116.140	0.860	140.0	128.1	17.94	17.94
11 AUG.	75.80	0.38	0.	37.99	138.39	540.42	163.164	41.600	120.046	0.860	140.0	266.2	10.66	28.59
11 SEP.	44.01	0.78	0.	45.23	136.95	540.42	165.000	41.600	121.292	0.860	140.0	273.8	13.88	31.82
11 OCT.	78.77	0.76	0.	78.02	136.95	540.42	165.000	41.600	121.292	0.860	140.0	423.8	17.94	59.34
11 NOV.	113.60	0.70	0.	112.90	136.95	540.42	165.000	41.600	121.292	0.860	140.0	593.5	17.94	83.09
11 DEC.	117.45	0.76	0.	116.70	136.95	540.42	165.000	41.600	121.292	0.860	140.0	634.0	17.94	88.75
ANNUAL TOTAL	727.76	11.23	0.	704.54	1660.61	6119.48	1610.141	49.200	1457.369	10.370	1880.0	5753.7	215.25	322.71
ANNUAL MEAN	60.65	0.93	0.	58.66	138.72	509.95	163.685	41.600	119.781	0.860	140.0	511.1	17.94	43.56

RESERVOIR OPERATION STUDY OF AGOS DAM AND PLAN A-2 KAMAN HWI 295

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	L-HEAD (CM)	EFFECT.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
12 JAN.	123.91	0.91	0.	123.01	136.95	540.42	165.000	41.600	121.292	0.860	140.0	668.2	17.94	75.62	93.55
12 FEB.	97.40	1.17	0.	96.23	136.95	540.42	165.000	41.600	121.292	0.860	140.0	472.2	17.94	48.16	60.10
12 MAR.	67.10	1.56	0.	65.74	136.95	540.42	165.000	41.600	121.292	0.860	140.0	357.1	17.94	32.00	50.00
12 APR.	27.98	1.56	0.	26.42	136.95	540.42	165.000	41.600	121.292	0.860	140.0	138.9	17.94	1.51	19.44
12 MAY	45.42	1.28	0.	44.13	136.95	540.42	165.000	41.600	121.292	0.860	140.0	239.7	17.94	15.63	33.56
12 JUNE	20.31	0.95	0.	24.66	137.94	572.29	164.675	41.600	120.952	0.860	140.0	128.1	17.94	0.	17.94
12 JULY	18.87	0.74	0.	23.80	138.18	572.12	163.967	41.600	120.219	0.860	140.0	128.1	17.94	0.	17.94
12 AUG.	19.26	0.59	0.	23.95	139.07	577.99	163.825	41.600	119.449	0.860	140.0	128.1	17.94	0.	17.94
12 SEP.	35.16	0.76	0.	24.69	139.74	575.18	163.506	41.600	119.741	0.860	140.0	128.1	17.94	0.	17.94
12 OCT.	56.27	0.75	0.	49.09	137.02	540.42	164.914	41.600	121.255	0.860	140.0	266.6	17.94	19.38	31.37
12 NOV.	143.22	0.70	0.	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	720.0	17.94	82.86	100.80
12 DEC.	49.39	0.76	0.	48.63	136.95	540.42	165.000	41.600	121.292	0.860	140.0	264.2	17.94	19.05	36.99
ANNUAL TOTAL	700.75	11.49	0.	683.77	1649.03	6382.99	1975.756	699.200	1450.606	10.320	1680.0	5639.4	215.25	294.27	509.52
ANNUAL MEAN	58.40	0.96	0.	56.98	137.42	531.92	164.605	41.600	120.884	0.860	140.0	303.3	17.94	24.52	42.46

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	L-HEAD (CM)	EFFECT.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
13 JAN.	100.03	0.91	0.	99.73	136.95	540.42	165.000	41.600	121.292	0.860	140.0	541.8	17.94	57.91	75.85
13 FEB.	78.95	1.17	0.	77.78	136.95	540.42	165.000	41.600	121.292	0.860	140.0	381.6	17.94	35.49	53.43
13 MAR.	51.89	1.56	0.	50.55	136.95	540.42	165.000	41.600	121.292	0.860	140.0	165.9	17.94	5.29	23.22
13 APR.	27.35	1.56	0.	25.70	136.95	540.42	165.000	41.600	121.292	0.860	140.0	135.6	17.94	1.04	18.98
13 MAY	9.14	1.26	0.	23.80	138.21	497.77	163.936	41.600	120.187	0.860	140.0	128.1	17.94	0.	17.94
13 JUNE	8.85	0.88	0.	25.08	140.94	453.40	161.700	41.600	117.884	0.860	140.0	128.1	17.94	0.	17.94
13 JULY	29.01	0.70	0.	24.46	142.06	463.71	160.899	41.600	116.929	0.860	140.0	128.1	17.94	0.	17.94
13 AUG.	75.41	0.56	0.	24.40	141.68	464.92	161.106	41.600	117.248	0.860	140.0	128.1	17.94	0.	17.94
13 SEP.	63.76	0.75	0.	33.88	138.24	540.42	165.355	41.600	120.172	0.860	140.0	170.4	17.94	6.76	24.70
13 OCT.	33.48	0.76	0.	32.72	136.95	540.42	165.000	41.600	121.292	0.860	140.0	177.8	17.94	6.95	24.89
13 NOV.	83.28	0.70	0.	82.57	136.95	540.42	165.000	41.600	121.292	0.860	140.0	434.1	17.94	42.84	60.78
13 DEC.	83.21	0.76	0.	82.45	136.95	540.42	165.000	41.600	121.292	0.860	140.0	437.9	17.94	44.77	62.71
ANNUAL TOTAL	572.17	11.55	0.	560.77	1639.94	6200.59	1945.987	699.200	1441.521	10.320	1680.0	2973.6	215.25	201.05	416.30
ANNUAL MEAN	47.68	0.95	0.	46.74	138.33	516.72	163.832	41.600	120.110	0.860	140.0	247.8	17.94	16.75	34.69

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	L-HEAD (CM)	EFFECT.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
14 JAN.	86.99	0.91	0.	84.08	136.95	540.42	165.000	41.600	121.292	0.860	140.0	426.8	17.94	46.01	63.95
14 FEB.	101.58	1.17	0.	102.21	136.95	540.42	165.000	41.600	121.292	0.860	140.0	501.5	17.94	52.28	70.22
14 MAR.	34.73	1.34	0.	33.57	136.95	540.42	165.000	41.600	121.292	0.860	140.0	181.3	17.94	7.44	25.38
14 APR.	21.63	1.55	0.	24.43	137.28	524.14	164.720	41.600	121.000	0.860	140.0	128.1	17.94	0.	17.94
14 MAY	6.57	1.24	0.	25.96	139.12	479.23	163.180	41.600	119.402	0.860	140.0	128.1	17.94	0.	17.94
14 JUNE	18.27	0.87	0.	25.25	141.88	435.32	160.945	41.600	117.079	0.860	140.0	128.1	17.94	0.	17.94
14 JULY	18.93	0.64	0.	24.76	141.80	435.65	159.441	41.600	115.514	0.860	140.0	128.1	17.94	0.	17.94
14 AUG.	32.94	0.55	0.	24.76	141.78	433.90	159.457	41.600	115.530	0.860	140.0	128.1	17.94	0.	17.94
14 SEP.	44.93	0.75	0.	23.97	139.17	493.74	163.138	41.600	117.482	0.860	140.0	128.1	17.94	0.	17.94
14 OCT.	32.24	0.75	0.	24.57	138.08	509.06	164.045	41.600	120.299	0.860	140.0	128.1	17.94	0.	17.94
14 NOV.	31.28	0.60	0.	31.18	138.94	540.42	164.967	41.600	121.264	0.860	140.0	278.0	17.94	70.98	38.92
14 DEC.	56.18	0.75	0.	51.18	138.94	540.42	164.967	41.600	121.264	0.860	140.0	278.0	17.94	70.98	38.92
ANNUAL TOTAL	474.55	11.21	0.	463.55	1672.56	6017.94	1956.058	699.200	1430.636	10.320	1680.0	2442.6	215.25	126.71	341.96
ANNUAL MEAN	59.55	0.93	0.	58.01	139.38	501.08	163.005	41.600	119.220	0.860	140.0	203.5	17.94	10.56	28.50

RESERVOIR OPERATION STUDY OF AGDS DAM ** PLAN A-2 PANAN HRI 2/95

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	UG (CMS)	SZ (CMCM)	RAW.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (HR)	P.E. (GWH)	T.E. (GWH)
15 JAN.	53.43	0.71	0.	150.95	540.42	165.000	41.600	121.292	0.860	140.0	285.4	17.94	22.01
15 FEB.	94.75	1.17	0.	156.95	540.42	165.000	41.600	121.292	0.860	140.0	459.2	17.94	46.35
15 MAR.	75.20	1.36	0.	156.95	540.42	165.000	41.600	121.292	0.860	140.0	390.3	17.94	36.70
15 APR.	30.09	1.56	0.	156.95	540.42	165.000	41.600	121.292	0.860	140.0	150.0	17.94	0.
15 MAY	11.91	1.26	0.	157.99	505.29	166.135	41.600	120.383	0.860	140.0	128.1	17.94	0.
15 JUNE	16.74	0.90	0.	157.99	481.82	165.636	41.600	118.837	0.860	140.0	128.1	17.94	0.
15 JULY	28.08	0.72	0.	140.25	490.45	165.252	41.600	119.438	0.860	140.0	128.1	17.94	0.
15 AUG.	36.17	0.59	0.	159.01	521.51	165.272	41.600	119.497	0.860	140.0	128.1	17.94	0.
15 SEP.	56.26	0.77	0.	157.28	540.42	165.689	41.600	121.005	0.860	140.0	147.8	17.94	2.76
15 OCT.	54.22	0.76	0.	156.95	540.42	165.000	41.600	121.292	0.860	140.0	181.8	17.94	7.51
15 NOV.	142.38	0.70	0.	156.95	540.42	165.000	41.600	121.292	0.860	140.0	720.0	17.94	82.86
15 DEC.	213.48	0.76	0.	156.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	17.94	86.22
ANNUAL TOTAL	768.68	11.43	41.88	675.37	6321.281971	908.499	2001.627	134	10.320	1680.0	5590.9	115.25	287.48
ANNUAL MEAN	64.06	0.95	6.82	56.28	526.77	166.326	41.600	120.594	0.860	140.0	299.2	17.94	23.96

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	UG (CMS)	SZ (CMCM)	RAW.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (HR)	P.E. (GWH)	T.E. (GWH)
16 JAN.	122.05	0.91	0.	136.95	540.42	165.000	41.600	121.292	0.860	140.0	558.1	17.94	26.20
16 FEB.	62.51	1.17	0.	156.95	540.42	165.000	41.600	121.292	0.860	140.0	301.0	17.94	26.20
16 MAR.	28.07	1.36	0.	156.95	540.42	165.000	41.600	121.292	0.860	140.0	154.2	17.94	0.86
16 APR.	8.18	1.53	0.	156.95	495.84	165.832	41.600	120.044	0.860	140.0	128.1	17.94	0.
16 MAY	6.98	1.20	0.	141.57	446.11	161.353	41.600	117.504	0.860	140.0	128.1	17.94	0.
16 JUNE	6.93	0.83	0.	144.87	395.09	158.626	41.600	114.665	0.860	140.0	128.1	17.94	0.
16 JULY	19.88	0.65	0.	157.43	576.60	156.719	41.600	112.673	0.860	140.0	128.1	17.94	0.
16 AUG.	18.95	0.51	0.	168.91	556.23	155.649	41.600	111.554	0.860	140.0	128.1	17.94	0.
16 SEP.	22.75	0.65	0.	150.26	344.22	154.690	41.600	110.550	0.860	140.0	128.1	17.94	0.
16 OCT.	41.00	0.63	0.	149.12	381.55	155.500	41.600	111.598	0.860	140.0	128.1	17.94	0.
16 NOV.	65.52	0.64	0.	143.73	485.42	159.501	41.600	115.576	0.860	140.0	645.7	17.94	0.
16 DEC.	153.77	0.74	13.80	116.91	540.42	164.781	41.600	121.247	0.860	140.0	645.7	17.94	72.44
ANNUAL TOTAL	554.74	10.79	13.34	510.61	5435.401925	381.499	2001.598	844	10.370	1680.0	2764.1	215.25	386.97
ANNUAL MEAN	46.23	0.90	1.11	44.22	442.68	160.448	41.600	116.570	0.860	140.0	230.3	17.94	32.25

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	UG (CMS)	SZ (CMCM)	RAW.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (HR)	P.E. (GWH)	T.E. (GWH)
17 JAN.	67.11	0.91	0.	136.95	540.42	165.000	41.600	121.292	0.860	140.0	251.0	17.94	35.14
17 FEB.	30.17	1.17	0.	156.95	540.42	165.000	41.600	121.292	0.860	140.0	142.3	17.94	19.97
17 MAR.	8.24	1.33	0.	156.95	495.84	165.870	41.600	120.118	0.860	140.0	128.1	17.94	0.
17 APR.	5.67	1.44	0.	143.45	440.29	161.286	41.600	117.434	0.860	140.0	128.1	17.94	0.
17 MAY	19.61	1.10	0.	143.93	472.79	159.530	41.600	115.608	0.860	140.0	128.1	17.94	0.
17 JUNE	8.07	0.82	0.	167.88	375.96	157.691	41.600	113.480	0.860	140.0	128.1	17.94	0.
17 JULY	9.90	0.63	0.	150.13	329.53	154.780	41.600	110.664	0.860	140.0	128.1	17.94	0.
17 AUG.	11.83	0.48	0.	153.93	288.94	152.183	41.600	107.918	0.860	140.0	128.1	17.94	0.
17 SEP.	26.21	0.60	0.	150.10	283.50	150.715	41.600	106.372	0.860	140.0	128.1	17.94	0.
17 OCT.	55.74	0.61	0.	152.76	360.69	152.970	41.600	108.716	0.860	140.0	128.1	17.94	0.
17 NOV.	105.24	0.65	0.	140.25	540.42	160.939	41.600	118.266	0.860	140.0	180.2	17.94	7.29
17 DEC.	163.77	0.76	6.06	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	17.94	86.22
ANNUAL TOTAL	472.40	10.53	6.18	455.69	5147.811908	377.699	2001.341	792	10.320	1680.0	2342.5	215.25	327.94
ANNUAL MEAN	39.37	0.88	0.52	37.97	444.38	159.4015	41.600	115.189	0.860	140.0	195.2	17.94	9.59

RESERVOIR OPERATION STUDY OF AGOS DAM #2 BEAN #2 KAMAN HML 205

RESERVOIR OPERATION STUDY OF AGOS DAM #2 BEAN #2 KAMAN HML 205

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	UG (CMS)	S2 (CMS)	H.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (HR)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
18 JAN.	124.36	0.91	0.	177.46	540.42	165.000	41.600	121.292	140.0	692.4	17.94	79.00	96.94
18 FEB.	31.60	1.17	0.	50.62	540.42	165.000	41.600	121.292	140.0	149.3	17.94	2.96	20.90
18 MAR.	29.12	1.36	0.	27.76	540.42	165.000	41.600	121.292	140.0	150.8	17.94	3.17	21.11
18 APR.	14.55	1.54	0.	24.53	540.42	165.000	41.600	121.292	140.0	128.1	17.94	0.	17.94
18 MAY	11.79	1.23	0.	24.08	540.42	165.000	41.600	121.292	140.0	128.1	17.94	0.	17.94
18 JUNE	10.60	0.87	0.	25.74	440.07	159.896	41.600	117.170	140.0	128.1	17.94	0.	17.94
18 JULY	16.89	0.68	0.	24.74	440.07	159.896	41.600	117.170	140.0	128.1	17.94	0.	17.94
18 AUG.	33.52	0.55	0.	24.78	440.07	159.896	41.600	117.170	140.0	128.1	17.94	0.	17.94
18 SEP.	24.90	0.71	0.	25.60	440.07	159.896	41.600	117.170	140.0	128.1	17.94	0.	17.94
18 OCT.	18.44	0.64	0.	24.80	440.07	159.896	41.600	117.170	140.0	128.1	17.94	0.	17.94
18 NOV.	65.73	0.66	0.	25.12	440.07	159.896	41.600	117.170	140.0	128.1	17.94	0.	17.94
18 DEC.	53.50	0.75	0.	46.46	440.07	159.896	41.600	117.170	140.0	252.3	17.94	17.38	35.32
ANNUAL TOTAL	443.91	11.09	0.	452.85	1685.50	540.42	499.200	1471.469	1680.0	2769.8	215.25	102.52	517.77
ANNUAL MEAN	58.99	0.92	0.	56.07	140.42	162.268	41.600	118.656	140.0	189.1	17.94	8.54	26.48
YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	UG (CMS)	S2 (CMS)	H.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (HR)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
19 JAN.	81.35	0.91	0.	80.64	540.42	165.000	41.600	121.292	140.0	437.0	17.94	43.24	61.18
19 FEB.	92.97	1.17	0.	91.79	540.42	165.000	41.600	121.292	140.0	450.4	17.94	45.12	63.06
19 MAR.	92.76	1.36	0.	91.40	540.42	165.000	41.600	121.292	140.0	496.5	17.94	51.58	69.51
19 APR.	64.89	1.56	0.	43.33	540.42	165.000	41.600	121.292	140.0	272.8	17.94	13.96	31.89
19 MAY	4.62	1.76	0.	25.51	440.07	159.896	41.600	120.150	140.0	128.1	17.94	0.	17.94
19 JUNE	7.46	0.88	0.	25.12	440.07	159.896	41.600	117.687	140.0	128.1	17.94	0.	17.94
19 JULY	14.24	0.68	0.	24.77	440.07	159.896	41.600	113.508	140.0	128.1	17.94	0.	17.94
19 AUG.	28.77	0.54	0.	24.90	440.07	159.896	41.600	114.904	140.0	128.1	17.94	0.	17.94
19 SEP.	29.36	0.70	0.	25.62	440.07	159.896	41.600	115.386	140.0	128.1	17.94	0.	17.94
19 OCT.	36.44	0.69	0.	24.54	440.07	159.896	41.600	116.455	140.0	128.1	17.94	0.	17.94
19 NOV.	58.53	0.67	0.	25.01	440.07	159.896	41.600	118.196	140.0	128.1	17.94	0.	17.94
19 DEC.	23.06	0.73	0.	24.05	440.07	159.896	41.600	118.968	140.0	128.1	17.94	0.	17.94
ANNUAL TOTAL	494.86	11.13	0.	501.51	1682.65	540.42	499.200	1472.202	1680.0	2656.8	215.25	155.90	369.15
ANNUAL MEAN	41.24	0.93	0.	41.79	140.22	162.529	41.600	118.517	140.0	219.7	17.94	12.82	30.76
YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	UG (CMS)	S2 (CMS)	H.W.L. (CM)	T.W.L. (CM)	E-HEAD EFFICI.	POWER (MW)	O-HOUR (HR)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
20 JAN.	72.73	0.87	0.	74.10	540.42	165.000	41.600	118.683	140.0	128.1	17.94	0.	17.94
20 FEB.	9.63	1.09	0.	27.00	443.03	161.162	41.600	117.306	140.0	128.1	17.94	0.	17.94
20 MAR.	11.81	1.22	0.	26.48	404.77	158.920	41.600	114.971	140.0	128.1	17.94	0.	17.94
20 APR.	7.17	1.33	0.	26.53	443.03	161.162	41.600	112.273	140.0	128.1	17.94	0.	17.94
20 MAY	4.07	1.03	0.	26.35	443.03	161.162	41.600	108.654	140.0	128.1	17.94	0.	17.94
20 JUNE	3.20	0.69	0.	24.55	443.03	161.162	41.600	104.272	140.0	128.1	17.94	0.	17.94
20 JULY	10.92	0.52	0.	24.55	443.03	161.162	41.600	100.183	140.0	128.1	17.94	0.	17.94
20 AUG.	18.33	0.59	0.	24.59	443.03	161.162	41.600	97.321	140.0	128.1	17.94	0.	17.94
20 SEP.	21.65	0.48	0.	31.04	443.03	161.162	41.600	95.115	140.0	128.1	17.94	0.	17.94
20 OCT.	19.97	0.45	0.	30.77	443.03	161.162	41.600	92.972	140.0	128.1	17.94	0.	17.94
20 NOV.	32.74	0.41	0.	32.22	443.03	161.162	41.600	91.738	140.0	128.1	17.94	0.	17.94
20 DEC.	87.77	0.49	0.	29.24	443.03	161.162	41.600	97.835	140.0	128.1	17.94	0.	17.94
ANNUAL TOTAL	251.72	8.94	0.	254.16	1434.00	540.42	499.200	1250.581	1680.0	1614.0	215.25	0.	215.25
ANNUAL MEAN	20.98	0.74	0.	21.18	119.50	162.85	41.600	104.215	140.0	134.5	17.94	0.	17.94

** RESERVOIR OPERATION STUDY OF AGDS DAM #4 PLAN A-2 KARAH HHL 295

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	Q/P4 (CMS)	U6 (CMS)	S2 (CMS)	RAW.L. (CM)	T.W.L. (CM)	L.HEAD EFFICI.	POWER (MW)	O.HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
21 JAN.	81.88	0.72	0.	26.39	153.26	583.72	152.629	41.600	103.387	0.860	140.0	17.94	0.	17.94
21 FEB.	15.77	0.99	0.	28.78	148.34	357.05	150.055	41.600	111.979	0.860	140.0	17.94	0.	17.94
21 MAR.	6.74	1.10	0.	26.19	152.07	305.03	153.639	41.600	109.238	0.860	140.0	17.94	0.	17.94
21 APR.	10.87	1.10	0.	27.93	156.94	256.75	150.213	41.600	105.843	0.860	140.0	17.94	0.	17.94
21 MAY	4.32	0.91	0.	28.10	162.66	188.61	160.391	41.600	101.813	0.860	140.0	17.94	0.	17.94
21 JUNE	6.19	0.60	0.	30.42	158.91	125.74	147.615	41.600	97.176	0.860	140.0	17.94	0.	17.94
21 JULY	10.93	0.44	0.	30.91	155.07	69.53	136.838	41.600	92.536	0.860	140.0	17.94	0.	17.94
21 AUG.	8.57	0.32	0.	32.74	150.68	1.93	131.524	41.600	87.374	0.860	140.0	17.94	0.	17.94
21 SEP.	37.23	0.39	0.	34.06	148.23	8.80	128.626	41.600	84.556	0.860	140.0	17.94	0.	17.94
21 OCT.	59.79	0.41	0.	32.67	151.51	40.88	135.272	41.600	88.100	0.860	140.0	17.94	0.	17.94
21 NOV.	184.84	0.54	0.	27.83	150.54	486.46	150.557	41.600	106.206	0.860	140.0	17.94	0.	17.94
21 DEC.	121.47	0.74	0.	100.59	157.08	540.42	166.719	41.600	121.176	0.860	140.0	17.94	58.49	76.43
ANNUAL TOTAL	549.70	8.53	0.	428.22	1831.05	2790.25	1746.177	499.200	1213.682	10.320	2092.3	215.25	58.49	273.74
ANNUAL MEAN	45.81	0.69	0.	35.69	152.59	233.02	145.348	41.600	101.140	0.860	176.4	17.94	4.87	22.81

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	Q/P4 (CMS)	U6 (CMS)	S2 (CMS)	RAW.L. (CM)	T.W.L. (CM)	L.HEAD EFFICI.	POWER (MW)	O.HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
22 JAN.	69.58	0.91	0.	68.67	150.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	34.29	52.23
22 FEB.	115.12	1.17	0.	113.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	60.34	78.28
22 MAR.	103.28	1.36	0.	101.92	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	59.58	77.51
22 APR.	12.81	1.54	0.	24.95	137.97	309.99	165.145	41.600	120.401	0.860	140.0	17.94	0.	17.94
22 MAY	112.47	1.27	0.	98.50	137.02	540.42	165.000	41.600	121.292	0.860	140.0	17.94	50.79	74.73
22 JUNE	156.51	0.94	0.	155.57	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	81.84	99.78
22 JULY	77.97	0.76	0.	77.22	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	40.79	58.23
22 AUG.	42.30	0.80	0.	41.70	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	13.78	31.71
22 SEP.	17.58	0.77	0.	24.47	137.54	520.53	165.506	41.600	120.777	0.860	140.0	17.94	0.	17.94
22 OCT.	97.47	0.75	0.	89.29	136.99	540.42	165.950	41.600	121.261	0.860	140.0	17.94	49.96	67.69
22 NOV.	176.67	0.70	0.	156.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	82.86	100.80
22 DEC.	254.66	0.76	0.	116.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	86.22	104.16
ANNUAL TOTAL	1217.03	11.50	0.	1167.07	1047.87	6431.44	1978.488	499.200	1454.021	10.320	5583.5	215.25	58.49	781.20
ANNUAL MEAN	101.67	0.96	0.	97.26	137.32	535.95	166.874	41.600	121.168	0.860	465.5	17.94	4.87	65.14

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	Q/P4 (CMS)	U6 (CMS)	S2 (CMS)	RAW.L. (CM)	T.W.L. (CM)	L.HEAD EFFICI.	POWER (MW)	O.HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
23 JAN.	76.90	0.91	0.	75.99	156.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	39.86	57.80
23 FEB.	27.43	1.17	0.	26.18	137.50	528.52	165.703	41.600	120.944	0.860	140.0	17.94	0.	17.94
23 MAR.	31.90	1.35	0.	26.11	137.16	540.42	165.810	41.600	121.109	0.860	140.0	17.94	1.89	19.83
23 APR.	19.53	1.55	0.	24.46	137.45	523.63	165.583	41.600	120.857	0.860	140.0	17.94	0.	17.94
23 MAY	17.17	1.25	0.	23.87	136.59	502.21	165.625	41.600	119.863	0.860	140.0	17.94	0.	17.94
23 JUNE	16.84	0.90	0.	24.91	149.67	478.90	165.640	41.600	118.675	0.860	140.0	17.94	0.	17.94
23 JULY	102.10	0.74	0.	78.60	157.17	540.42	165.543	41.600	121.097	0.860	140.0	17.94	41.59	59.53
23 AUG.	159.16	0.60	0.	156.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	86.22	104.16
23 SEP.	76.60	0.78	0.	75.82	156.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	37.86	55.80
23 OCT.	52.12	0.78	0.	51.16	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	5.91	23.85
23 NOV.	94.09	0.70	0.	93.59	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	50.80	68.74
23 DEC.	155.12	0.76	0.	156.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.94	86.22	104.16
ANNUAL TOTAL	787.86	11.44	0.	759.09	1069.52	6357.88	1974.771	499.200	1450.368	10.320	4040.1	215.25	350.37	565.62
ANNUAL MEAN	65.66	0.95	0.	63.26	137.44	525.82	166.566	41.600	120.864	0.860	336.7	17.94	29.20	47.13

** RESERVOIR OPERATION STUDY OF ALOS DAM AK PLAN A-2 KARAN HMI 295

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPIEL (CMS)	Q24 (CMS)	Q6 (CMS)	SZ (CM)	R.W.L. (CM)	T.W.L. (M)	L-HEAD (M)	EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
24 JAN.	39.23	0.91	0.	38.52	136.95	540.42	165.000	41.600	121.292	0.860	140.0	208.2	17.94	11.21	29.35
24 FEB.	51.58	1.17	0.	54.71	136.95	540.42	165.000	41.600	121.292	0.860	140.0	266.0	17.94	19.30	37.24
24 MAR.	15.48	1.54	0.	23.71	137.71	514.77	164.503	41.600	120.629	0.860	140.0	128.1	17.94	0.	17.94
24 APR.	12.54	1.50	0.	24.44	139.59	478.44	162.793	41.600	119.000	0.860	140.0	128.1	17.94	0.	17.94
24 MAY	11.72	1.12	0.	24.65	141.98	441.19	160.868	41.600	117.000	0.860	140.0	128.1	17.94	0.	17.94
24 JUNE	15.19	0.84	0.	25.68	144.29	411.46	159.084	41.600	115.121	0.860	140.0	128.1	17.94	0.	17.94
24 JULY	14.76	0.60	0.	25.16	146.07	372.94	157.719	41.600	113.718	0.860	140.0	128.1	17.94	0.	17.94
24 AUG.	14.23	0.52	0.	25.49	148.04	341.41	156.275	41.600	112.210	0.860	140.0	128.1	17.94	0.	17.94
24 SEP.	17.37	0.64	0.	20.77	150.42	335.37	154.581	41.600	110.435	0.860	140.0	128.1	17.94	0.	17.94
24 OCT.	52.64	0.64	0.	25.58	148.53	404.13	153.903	41.600	111.870	0.860	140.0	368.3	17.94	35.62	51.36
24 NOV.	127.97	0.66	0.	70.50	137.84	540.42	163.174	41.600	120.574	0.860	140.0	744.0	17.94	86.22	104.14
24 DEC.	274.03	0.74	0.	146.42	136.95	540.42	163.000	41.600	121.292	0.860	140.0	2611.5	215.25	150.36	355.61
ANNUAL TOTAL	650.83	10.81	134.93	501.89	1705.74	5497.99	1929.448	499.200	1404.014	10.320	1680.0	217.6	17.94	12.55	30.87
ANNUAL MEAN	54.24	0.90	11.58	41.76	142.14	458.17	160.787	41.600	117.001	0.860	140.0	18.13	1.49	1.05	2.57

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPIEL (CMS)	Q24 (CMS)	Q6 (CMS)	SZ (CM)	R.W.L. (CM)	T.W.L. (M)	L-HEAD (M)	EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
25 JAN.	154.19	0.91	0.	133.28	136.95	540.42	165.000	41.600	121.292	0.860	140.0	728.1	17.94	83.43	101.37
25 FEB.	128.86	1.17	0.	127.69	136.95	540.42	165.000	41.600	121.292	0.860	140.0	626.6	17.94	69.78	87.72
25 MAR.	66.41	1.36	0.	65.05	136.95	540.42	165.000	41.600	121.292	0.860	140.0	353.4	17.94	31.54	49.47
25 APR.	14.18	1.54	0.	24.53	137.84	509.58	163.233	41.600	120.694	0.860	140.0	128.1	17.94	0.	17.94
25 MAY	11.96	1.23	0.	24.99	139.90	473.79	162.538	41.600	118.736	0.860	140.0	128.1	17.94	0.	17.94
25 JUNE	8.41	0.86	0.	25.58	142.60	427.58	160.379	41.600	116.490	0.860	140.0	128.1	17.94	0.	17.94
25 JULY	29.67	0.68	0.	24.77	143.83	438.53	159.437	41.600	115.489	0.860	140.0	128.1	17.94	0.	17.94
25 AUG.	27.26	0.55	0.	24.67	143.76	443.80	159.849	41.600	115.950	0.860	140.0	128.1	17.94	0.	17.94
25 SEP.	38.81	0.72	0.	25.26	141.94	477.06	160.899	41.600	117.032	0.860	140.0	128.1	17.94	0.	17.94
25 OCT.	28.13	0.77	0.	24.21	140.56	445.63	162.001	41.600	118.177	0.860	140.0	335.0	17.94	28.97	46.80
25 NOV.	85.67	0.69	0.	61.85	137.22	540.42	164.520	41.600	121.058	0.860	140.0	250.7	17.94	14.36	32.30
25 DEC.	43.23	0.74	0.	42.47	136.95	540.42	163.000	41.600	121.292	0.860	140.0	5166.6	215.25	274.04	443.53
ANNUAL TOTAL	610.86	11.16	0.	599.70	1675.21	5953.51	1953.673	499.200	1424.410	10.370	1680.0	265.9	17.94	19.01	36.94
ANNUAL MEAN	50.90	0.93	0.	49.97	139.60	496.21	162.800	41.600	119.034	0.860	140.0	22.16	1.49	1.05	2.57

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPIEL (CMS)	Q24 (CMS)	Q6 (CMS)	SZ (CM)	R.W.L. (CM)	T.W.L. (M)	L-HEAD (M)	EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
26 JAN.	36.17	0.91	0.	35.76	136.95	540.42	165.000	41.600	121.292	0.860	140.0	191.6	17.94	8.88	26.82
26 FEB.	27.66	1.17	0.	26.49	136.95	540.42	165.000	41.600	121.292	0.860	140.0	130.0	17.94	0.26	18.19
26 MAR.	11.56	1.54	0.	25.77	138.02	506.14	164.097	41.600	120.353	0.860	140.0	128.1	17.94	0.	17.94
26 APR.	5.19	1.47	0.	25.07	140.88	444.79	161.746	41.600	117.913	0.860	140.0	128.1	17.94	0.	17.94
26 MAY	8.66	1.15	0.	24.86	144.58	403.73	158.995	41.600	115.049	0.860	140.0	128.1	17.94	0.	17.94
26 JUNE	13.03	0.80	0.	26.29	147.74	360.09	156.492	41.600	112.436	0.860	140.0	128.1	17.94	0.	17.94
26 JULY	13.13	0.62	0.	26.00	150.96	323.96	154.198	41.600	110.034	0.860	140.0	128.1	17.94	0.	17.94
26 AUG.	41.47	0.50	0.	25.97	150.79	346.14	154.320	41.600	110.162	0.860	140.0	128.1	17.94	0.	17.94
26 SEP.	46.67	0.67	0.	26.17	147.04	415.55	157.006	41.600	112.973	0.860	140.0	128.1	17.94	0.	17.94
26 OCT.	107.53	0.71	0.	60.29	137.91	540.42	163.204	41.600	120.465	0.860	140.0	324.8	17.94	27.53	45.47
26 NOV.	147.55	0.70	0.	83.89	136.95	540.42	165.000	41.600	121.292	0.860	140.0	720.0	17.94	86.86	100.80
26 DEC.	202.17	0.76	0.	146.42	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	17.94	86.22	104.16
ANNUAL TOTAL	695.99	10.74	0.99	575.32	1684.92	5513.04	1929.753	499.200	1404.250	10.370	1680.0	5007.2	215.25	205.75	421.00
ANNUAL MEAN	57.99	0.90	0.08	47.94	140.41	459.59	160.813	41.600	117.021	0.860	140.0	250.6	17.94	17.15	35.08

GRAND MEAN	INFLOW (CMS)	EVAPOR. (CMS)	SPIEL (CMS)	Q24 (CMS)	Q6 (CMS)	SZ (CM)	R.W.L. (CM)	T.W.L. (M)	L-HEAD (M)	EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
GRAND MEAN	55.05	0.49	4.72	47.64	147.58	650.75	160.067	41.600	116.292	0.860	139.3	2970.0	215.25	199.23	414.48

AA RESERVOIR OPERATION STUDY OF AGUIN DAM AA PLAN A-2 KAWAN RMT PVS

HIGH WATER LEVEL IN METER 165,000 LOW WATER LEVEL IN METER 124,000 RAISED HEAD IN METER 102,070
 INSTALLED CAPACITY IN MW 140,000 DEPENDABLE CAPACITY IN MW 104,499 TARGET OPERATION HOUR A DAY 4.08
 RATED DISCHARGE IN CFS 162,874 TYPE OF RULF CURVE VARIABLY MASS CURVE
 RULF CURVE IN MW 17,688 17,688 17,688 17,688 17,688 17,688 17,688 17,688 17,688 17,688 17,688 17,688
 JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEP. OCT. NOV. DEC.

LENGTH OF INFLOW SERIES IN YEAR '74

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD EFFICI.	POWER (MW)	O. HOUR (H)	P.E. (CGWH)	S.E. (CGWH)	T.E. (CGWH)
1 JAN.	151.84	0.91	13.94	136.95	116.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	86.47	104.16
1 FEB.	61.87	1.17	0.	60.70	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	24.01	41.70
1 MAR.	75.87	1.16	0.	74.71	116.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	18.58	56.67
1 APR.	16.59	1.54	0.	24.12	116.95	511.56	164.283	41.600	120.546	0.860	140.0	17.69	0.	17.69
1 MAY	8.14	1.21	0.	23.79	140.07	466.38	162.498	41.600	118.590	0.860	140.0	17.69	0.	17.69
1 JUNE	7.65	0.85	0.	25.12	141.15	418.87	159.944	41.600	116.058	0.860	140.0	17.69	0.	17.69
1 JULY	17.42	0.67	0.	24.73	149.64	377.50	158.945	41.600	117.753	0.860	140.0	17.69	0.	17.69
1 AUG.	23.22	0.57	0.	24.91	140.67	371.57	157.273	41.600	112.354	0.860	140.0	17.69	0.	17.69
1 SEP.	17.34	0.67	0.	25.94	147.85	367.82	156.414	41.600	114.409	0.860	140.0	17.69	0.	17.69
1 OCT.	60.15	0.67	0.	24.66	145.19	400.82	158.381	41.600	120.014	0.860	140.0	17.69	5.79	23.48
1 NOV.	61.62	0.68	0.	32.24	130.42	540.42	163.403	41.600	120.014	0.860	140.0	17.69	86.47	104.16
1 DEC.	145.81	0.76	8.12	156.95	156.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	241.73	453.98
ANNUAL TOTAL	650.46	10.99	22.52	616.95	1692.92	5717.23	1949.960	499.200	1414.174	10.320	1680.0	212.25	20.14	37.83
ANNUAL MEAN	54.21	0.92	1.88	51.41	141.08	476.02	161.658	41.600	117.848	0.860	140.0	17.69	20.14	37.83

LENGTH OF INFLOW SERIES IN YEAR '75

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD EFFICI.	POWER (MW)	O. HOUR (H)	P.E. (CGWH)	S.E. (CGWH)	T.E. (CGWH)
2 JAN.	120.50	0.91	0.	119.59	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	73.27	90.96
2 FEB.	61.44	1.17	0.	60.27	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	23.71	41.40
2 MAR.	12.10	1.54	0.	25.43	137.95	508.68	164.155	41.600	120.414	0.860	140.0	17.69	0.	17.69
2 APR.	9.64	1.48	0.	24.07	140.32	463.79	162.159	41.600	118.383	0.860	140.0	17.69	0.	17.69
2 MAY	24.70	1.20	0.	24.07	141.76	462.27	161.038	41.600	117.177	0.860	140.0	17.69	0.	17.69
2 JUNE	17.50	0.86	0.	25.09	143.00	427.40	160.083	41.600	116.162	0.860	140.0	17.69	0.	17.69
2 JULY	15.77	0.67	0.	26.65	143.00	401.82	158.404	41.600	114.433	0.860	140.0	17.69	0.	17.69
2 AUG.	51.78	0.55	0.	26.57	143.49	473.78	159.681	41.600	115.765	0.860	140.0	17.69	0.	17.69
2 SEP.	21.16	0.73	0.	26.82	141.63	462.40	161.506	41.600	117.455	0.860	140.0	17.69	0.	17.69
2 OCT.	25.21	0.70	0.	24.10	141.95	456.12	160.891	41.600	117.023	0.860	140.0	17.69	0.	17.69
2 NOV.	169.48	0.68	24.84	172.21	157.07	540.42	164.544	41.600	121.190	0.860	140.0	17.69	68.83	82.52
2 DEC.	289.00	0.76	131.29	116.95	116.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	86.47	104.16
ANNUAL TOTAL	113.76	11.01	178.09	624.06	1683.29	5813.72	1947.046	499.200	1421.627	10.320	1680.0	212.25	248.28	460.53
ANNUAL MEAN	67.81	0.92	14.89	52.01	140.27	484.48	162.254	41.600	118.469	0.860	140.0	17.69	20.69	38.38

RESERVOIR OPERATION STUDY OF AGUS DAM PLAN A-2 KANAN KUL 2/5

RESERVOIR OPERATION STUDY OF AGUS DAM PLAN A-2 KANAN KUL 2/5

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	E-HEAD EFFICI. (%)	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
3 JAN.	154.36	0.91	16.50	136.95	136.95	540.42	165.000	41.600	121.292	0.860	744.0	17.69	86.67	104.16
3 FEB.	75.87	1.17	0.	23.40	136.95	540.42	165.000	41.600	121.292	0.860	744.0	17.69	33.63	51.51
3 MAR.	173.65	1.34	0.	23.40	136.95	540.42	165.000	41.600	121.292	0.860	744.0	17.69	0.	17.69
3 APR.	12.44	1.50	0.	24.53	139.81	475.45	162.610	41.600	118.810	0.860	126.3	17.69	0.	17.69
3 MAY	42.56	1.18	0.	24.19	142.44	480.43	160.500	41.600	116.617	0.860	126.3	17.69	0.	17.69
3 JUN	14.05	0.85	0.	25.47	145.17	398.84	158.401	41.600	114.450	0.860	126.3	17.69	0.	17.69
3 JULY	14.66	0.65	0.	25.05	147.50	369.15	156.865	41.600	112.617	0.860	126.3	17.69	0.	17.69
3 AUG.	50.15	0.53	0.	24.81	146.08	435.59	157.717	41.600	116.236	0.860	126.3	17.69	0.	17.69
3 SEP.	33.93	0.71	0.	25.08	142.91	456.69	160.154	41.600	121.219	0.860	126.3	17.69	0.	17.69
3 OCT.	210.59	0.73	0.	117.94	137.04	540.42	164.666	41.600	121.292	0.860	126.3	17.69	0.	17.69
3 NOV.	37.94	0.70	0.	37.24	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
3 DEC.	207.89	0.76	0.	156.95	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
ANNUAL TOTAL	839.38	10.98	150.18	678.22	1680.86	5774.76	194.716	499.200	1419.114	10.320	1680.0	212.25	288.24	500.49
ANNUAL MEAN	69.95	0.92	12.52	56.52	140.07	481.25	162.000	41.600	118.260	0.860	140.0	17.69	24.02	41.71

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F-HEAD EFFICI. (%)	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
4 JAN.	105.85	0.91	0.	104.95	136.95	540.42	165.000	41.600	121.292	0.860	570.1	17.69	62.13	79.82
4 FEB.	120.68	1.17	0.	119.51	136.95	540.42	165.000	41.600	121.292	0.860	586.4	17.69	64.41	82.10
4 MAR.	15.03	1.34	0.	25.59	137.72	514.43	164.354	41.600	120.620	0.860	126.3	17.69	0.	17.69
4 APR.	14.73	1.51	0.	24.66	139.39	445.11	162.960	41.600	119.173	0.860	126.3	17.69	0.	17.69
4 MAY	7.31	1.19	0.	24.09	141.68	437.14	160.943	41.600	117.077	0.860	126.3	17.69	0.	17.69
4 JUNE	14.25	0.84	0.	25.38	144.66	406.15	158.798	41.600	114.841	0.860	126.3	17.69	0.	17.69
4 JULY	10.03	0.65	0.	25.03	142.40	364.53	156.106	41.600	112.095	0.860	126.3	17.69	0.	17.69
4 AUG.	33.93	0.51	0.	25.16	148.19	386.53	156.106	41.600	112.095	0.860	126.3	17.69	0.	17.69
4 SEP.	15.46	0.64	0.	26.15	144.47	457.16	155.981	41.600	111.880	0.860	126.3	17.69	0.	17.69
4 OCT.	51.91	0.65	0.	24.75	146.94	477.64	157.157	41.600	113.174	0.860	126.3	17.69	0.	17.69
4 NOV.	53.68	0.66	0.	24.85	143.51	505.90	161.237	41.600	117.583	0.860	126.3	17.69	0.	17.69
4 DEC.	236.58	0.74	0.	150.06	136.95	540.42	164.948	41.600	121.282	0.860	706.5	17.69	81.22	98.91
ANNUAL TOTAL	679.11	10.81	94.46	573.45	1707.28	5500.38	192.972	499.200	1402.664	10.320	1680.0	212.25	207.76	420.01
ANNUAL MEAN	56.59	0.90	7.87	47.82	142.27	459.35	160.748	41.600	116.872	0.860	140.0	17.69	17.31	35.00

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F-HEAD EFFICI. (%)	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
5 JAN.	90.14	0.91	0.	89.24	136.95	540.42	165.000	41.600	121.292	0.860	484.8	17.69	50.18	67.87
5 FEB.	51.22	1.17	0.	50.05	136.95	540.42	165.000	41.600	121.292	0.860	245.6	17.69	10.70	34.38
5 MAR.	116.54	1.34	0.	115.58	136.95	540.42	165.000	41.600	121.292	0.860	627.9	17.69	70.21	87.90
5 APR.	13.84	1.54	0.	24.27	138.02	504.35	164.102	41.600	120.558	0.860	126.3	17.69	0.	17.69
5 MAY	8.47	1.22	0.	25.86	140.52	459.73	162.038	41.600	118.218	0.860	126.3	17.69	0.	17.69
5 JUNE	6.74	0.85	0.	25.27	143.71	409.63	159.512	41.600	115.588	0.860	126.3	17.69	0.	17.69
5 JULY	9.53	0.65	0.	24.99	147.18	368.47	156.903	41.600	112.866	0.860	126.3	17.69	0.	17.69
5 AUG.	14.34	0.50	0.	25.51	150.57	335.22	154.727	41.600	110.880	0.860	126.3	17.69	0.	17.69
5 SEP.	16.02	0.62	0.	26.43	152.89	305.59	152.878	41.600	108.649	0.860	126.3	17.69	0.	17.69
5 OCT.	17.84	0.58	0.	26.40	155.45	281.11	151.179	41.600	106.861	0.860	126.3	17.69	0.	17.69
5 NOV.	36.21	0.54	0.	27.30	155.58	302.61	151.090	41.600	106.767	0.860	126.3	17.69	0.	17.69
5 DEC.	357.41	0.67	0.	150.59	136.95	540.42	164.948	41.600	119.551	0.860	379.4	17.69	28.43	46.12
ANNUAL TOTAL	559.56	10.59	6.67	522.55	1745.68	6121.53	190.795	499.200	1383.128	10.320	1680.0	212.25	165.52	377.77
ANNUAL MEAN	46.96	0.88	0.55	43.55	144.67	476.80	158.996	41.600	115.261	0.860	140.0	17.69	13.79	31.48

BAH AA PLAN A-2 KANAW HWL 295

AA RESERVOIR OPERATION STUDY BY AUGUS

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	U24 (CMS)	U6 (CMS)	S2 (CMCH)	R.W.L. (CM)	T.W.L. (M)	L-HEAD (M)	EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
6 JAN.	229.59	0.91	91.73	136.95	340.42	165.000	41.600	121.292	0.860	0.860	140.0	744.0	17.69	86.47	104.16
6 FEB.	21.84	1.17	0.	25.67	512.47	164.815	41.600	121.096	0.860	0.860	140.0	126.3	17.69	0.	17.69
6 MAR.	12.87	1.53	0.	25.40	500.85	163.824	41.600	120.070	0.860	0.860	140.0	126.3	17.69	0.	17.69
6 APR.	13.10	1.44	0.	24.63	467.10	162.158	41.600	118.520	0.860	0.860	140.0	126.3	17.69	0.	17.69
6 MAY	14.58	1.17	0.	24.41	423.34	160.030	41.600	116.127	0.860	0.860	140.0	126.3	17.69	0.	17.69
6 JUNE	16.52	0.83	0.	25.65	395.80	158.056	41.600	114.081	0.860	0.860	140.0	126.3	17.69	0.	17.69
6 JULY	16.58	0.65	0.	25.06	370.82	156.630	41.600	112.581	0.860	0.860	140.0	126.3	17.69	0.	17.69
6 AUG.	11.90	0.50	0.	25.49	335.07	154.793	41.600	110.658	0.860	0.860	140.0	126.3	17.69	0.	17.69
6 SEP.	22.43	0.63	0.	26.73	320.29	153.265	41.600	109.055	0.860	0.860	140.0	126.3	17.69	0.	17.69
6 OCT.	45.60	0.67	0.	25.97	350.60	154.434	41.600	110.303	0.860	0.860	140.0	126.3	17.69	0.	17.69
6 NOV.	42.68	0.64	0.	25.08	372.91	156.131	41.600	116.253	0.860	0.860	140.0	126.3	17.69	0.	17.69
6 DEC.	44.54	0.75	0.	40.18	336.99	154.919	41.600	121.256	0.860	0.860	140.0	453.4	17.69	43.27	60.96
ANNUAL TOTAL	576.05	10.65	93.69	471.91	1722.40	5308.54	1917.784	499.200	390.758	10.320	1680.0	2442.8	212.25	129.74	341.99
ANNUAL MEAN	48.00	0.89	7.79	39.33	142.53	442.38	159.815	41.600	115.896	0.860	140.0	203.6	17.69	10.81	28.50

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	U24 (CMS)	U6 (CMS)	S2 (CMCH)	R.W.L. (CM)	T.W.L. (M)	L-HEAD (M)	EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
7 JAN.	92.52	0.91	0.	91.91	136.95	540.42	165.000	41.600	121.292	0.860	140.0	497.7	17.69	51.99	69.68
7 FEB.	61.34	1.17	0.	60.17	136.95	540.42	165.000	41.600	121.292	0.860	140.0	295.3	17.69	23.65	41.34
7 MAR.	89.63	1.36	0.	88.27	136.95	540.42	165.000	41.600	121.292	0.860	140.0	479.5	17.69	49.45	67.14
7 APR.	100.10	1.56	0.	98.54	136.95	540.42	165.000	41.600	121.292	0.860	140.0	518.1	17.69	56.84	72.53
7 MAY	20.84	1.28	0.	26.31	137.25	530.37	164.751	41.600	121.031	0.860	140.0	126.3	17.69	0.	17.69
7 JUNE	19.27	0.97	0.	24.71	147.90	515.17	164.121	41.600	120.378	0.860	140.0	126.3	17.69	0.	17.69
7 JULY	28.57	0.74	0.	25.43	156.10	526.58	164.034	41.600	120.288	0.860	140.0	144.0	17.69	2.06	19.75
7 AUG.	51.66	0.60	0.	26.01	137.19	540.42	164.781	41.600	121.083	0.860	140.0	249.9	17.69	17.30	54.99
7 SEP.	48.32	0.78	0.	47.54	136.95	540.42	165.000	41.600	121.292	0.860	140.0	599.6	17.69	38.24	55.95
7 OCT.	74.32	0.76	0.	73.56	136.95	540.42	165.000	41.600	121.292	0.860	140.0	720.0	17.69	83.11	100.80
7 NOV.	159.52	0.70	1.77	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	17.69	86.47	104.16
7 DEC.	438.55	0.76	500.84	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	17.69	86.47	104.16
ANNUAL TOTAL	1150.26	11.52	508.26	830.48	1666.17	6656.06	1977.671	499.200	1453.098	10.320	1680.0	4424.2	212.25	407.13	619.38
ANNUAL MEAN	95.85	0.96	42.36	69.21	137.18	556.34	164.806	41.600	121.092	0.860	140.0	368.7	17.69	33.93	51.62

YEAR MONTH	INFLOW (CMS)	EVAPOR (CMS)	SPILL (CMS)	U24 (CMS)	U6 (CMS)	S2 (CMCH)	R.W.L. (CM)	T.W.L. (M)	L-HEAD (M)	EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
8 JAN.	165.50	0.91	27.64	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	744.0	17.69	86.47	104.16
8 FEB.	28.75	1.17	0.	27.58	136.95	540.42	165.000	41.600	121.292	0.860	140.0	153.3	17.69	1.26	18.95
8 MAR.	11.28	1.56	0.	25.64	136.95	504.26	164.100	41.600	120.358	0.860	140.0	126.3	17.69	0.	17.69
8 APR.	8.22	1.48	0.	24.67	140.58	457.79	161.984	41.600	118.160	0.860	140.0	126.3	17.69	0.	17.69
8 MAY	5.68	1.16	0.	24.45	143.97	408.44	159.316	41.600	115.383	0.860	140.0	126.3	17.69	0.	17.69
8 JUNE	6.01	0.80	0.	25.97	148.91	350.60	156.295	41.600	112.230	0.860	140.0	126.3	17.69	0.	17.69
8 JULY	11.53	0.61	0.	25.80	151.96	310.74	153.509	41.600	109.311	0.860	140.0	126.3	17.69	0.	17.69
8 AUG.	26.01	0.44	0.	26.11	153.84	309.15	152.228	41.600	107.965	0.860	140.0	126.3	17.69	0.	17.69
8 SEP.	19.43	0.61	0.	27.19	154.97	287.45	151.494	41.600	107.193	0.860	140.0	126.3	17.69	0.	17.69
8 OCT.	25.38	0.58	0.	26.53	156.26	262.80	150.651	41.600	106.505	0.860	140.0	126.3	17.69	0.	17.69
8 NOV.	31.04	0.54	0.	27.59	156.09	290.91	150.762	41.600	106.422	0.860	140.0	126.3	17.69	0.	17.69
8 DEC.	21.46	0.58	0.	26.57	156.64	275.70	150.533	41.600	106.181	0.860	140.0	126.3	17.69	0.	17.69
ANNUAL TOTAL	362.25	10.21	28.17	424.00	1776.87	4563.11	1880.268	499.200	1311.600	10.320	1680.0	2142.7	212.25	87.75	299.98
ANNUAL MEAN	30.19	0.85	2.35	35.34	147.91	378.59	156.689	41.600	112.622	0.860	140.0	178.6	17.69	7.31	25.00

** RESERVOIR OPERATION STUDY OF AGOS DAM ** PLAN A-2 KAHAN HML 2/5

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S7 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (HR)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
9 JAN.	40.42	0.70	0.	26.59	152.43	517.38	151.190	41.600	106.873	0.860	140.0	126.3	17.69	0.	17.69
9 FEB.	21.95	0.92	0.	29.67	156.65	291.91	151.706	41.600	107.416	0.860	140.0	126.3	17.69	0.	17.69
9 MAR.	20.09	1.04	0.	26.59	156.65	271.22	150.437	41.600	106.079	0.860	140.0	126.3	17.69	0.	17.69
9 APR.	22.54	1.14	0.	26.81	158.50	255.01	149.229	41.600	104.804	0.860	140.0	126.3	17.69	0.	17.69
9 MAY	20.50	0.91	0.	27.26	160.54	234.85	147.980	41.600	103.474	0.860	140.0	126.3	17.69	0.	17.69
9 JUNE	19.88	0.66	0.	28.64	162.62	207.40	146.338	41.600	101.764	0.860	139.5	126.8	17.69	0.	17.69
9 JULY	20.66	0.52	0.	28.02	161.74	202.36	145.203	41.600	100.663	0.860	135.2	128.9	17.69	0.	17.69
9 AUG.	21.05	0.61	0.	28.27	161.02	191.88	144.282	41.600	99.768	0.860	131.4	130.4	17.69	0.	17.69
9 SEP.	20.54	0.52	0.	29.44	160.50	172.54	143.370	41.600	98.882	0.860	127.4	132.4	17.69	0.	17.69
9 OCT.	50.06	0.54	0.	27.78	162.44	212.20	146.089	41.600	101.574	0.860	139.0	127.3	17.69	0.	17.69
9 NOV.	53.74	0.54	0.	27.28	162.45	224.50	145.180	41.600	100.863	0.860	140.0	126.3	17.69	0.	17.69
9 DEC.	20.12	0.60	0.	25.95	162.84	212.33	142.912	41.600	100.684	0.860	140.0	126.3	17.69	0.	17.69
ANNUAL TOTAL	551.82	8.55	0.	557.55	1702.48	4870.74	1779.888	499.200	1246.354	10.320	1664.6	1530.4	212.25	0.	212.25
ANNUAL MEAN	29.57	0.41	0.	27.70	156.53	252.92	148.307	41.600	105.880	0.860	156.7	127.5	17.69	0.	17.69

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (HR)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
10 JAN.	40.61	0.73	0.	23.80	151.92	450.05	153.581	41.600	109.344	0.860	140.0	126.3	17.69	0.	17.69
10 FEB.	39.15	0.98	0.	28.06	162.25	374.51	155.406	41.600	111.500	0.860	140.0	126.3	17.69	0.	17.69
10 MAR.	77.59	1.24	0.	24.29	145.06	513.51	160.016	41.600	116.113	0.860	140.0	126.3	17.69	0.	17.69
10 APR.	8.78	1.49	0.	24.36	159.94	404.54	162.504	41.600	118.700	0.860	140.0	126.3	17.69	0.	17.69
10 MAY	1.57	1.57	0.	24.52	163.20	415.24	159.908	41.600	116.000	0.860	140.0	126.3	17.69	0.	17.69
10 JUNE	6.71	0.81	0.	25.81	142.07	465.68	156.945	41.600	112.951	0.860	140.0	126.3	17.69	0.	17.69
10 JULY	12.18	0.62	0.	25.59	150.72	326.00	154.371	41.600	110.215	0.860	140.0	126.3	17.69	0.	17.69
10 AUG.	19.09	0.48	0.	26.05	153.28	308.23	152.615	41.600	108.573	0.860	140.0	126.3	17.69	0.	17.69
10 SEP.	21.89	0.61	0.	27.19	154.94	290.92	151.511	41.600	107.211	0.860	140.0	126.3	17.69	0.	17.69
10 OCT.	24.55	0.58	0.	26.49	156.02	284.16	150.806	41.600	106.468	0.860	140.0	126.3	17.69	0.	17.69
10 NOV.	64.04	0.57	0.	26.63	151.74	381.19	153.881	41.600	109.440	0.860	140.0	126.3	17.69	0.	17.69
10 DEC.	59.90	0.68	0.	23.49	144.21	474.41	139.149	41.600	119.149	0.860	140.0	126.3	17.69	0.	17.69
ANNUAL TOTAL	580.55	9.95	0.	508.99	1783.59	4549.23	1720.453	499.200	1541.512	10.320	1680.0	1518.1	212.25	0.	212.25
ANNUAL MEAN	51.71	0.81	0.	25.75	148.78	370.10	155.869	41.600	111.776	0.860	140.0	126.3	17.69	0.	17.69

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	S7 (CMS)	R.W.L. (CM)	T.W.L. (CM)	E.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (HR)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
11 JAN.	77.65	0.88	0.	52.06	152.42	540.02	164.228	41.600	120.884	0.860	140.0	281.7	17.69	21.76	39.44
11 FEB.	110.56	1.17	0.	115.59	156.95	500.42	165.000	41.600	121.292	0.860	140.0	586.2	17.69	61.58	79.26
11 MAR.	15.18	1.36	0.	24.58	157.70	516.84	164.365	41.600	120.631	0.860	140.0	126.3	17.69	0.	17.69
11 APR.	19.26	1.50	0.	24.49	159.56	479.75	162.815	41.600	119.025	0.860	140.0	126.3	17.69	0.	17.69
11 MAY	18.54	1.20	0.	24.99	161.50	640.89	161.811	41.600	117.564	0.860	140.0	126.3	17.69	0.	17.69
11 JUNE	22.59	0.87	0.	24.74	161.79	451.99	160.687	41.600	116.811	0.860	140.0	126.3	17.69	0.	17.69
11 JULY	22.52	0.69	0.	24.24	162.73	445.55	160.276	41.600	116.383	0.860	140.0	126.3	17.69	0.	17.69
11 AUG.	75.80	0.58	0.	39.80	158.17	540.42	161.452	41.600	120.251	0.860	140.0	274.3	17.69	12.32	30.00
11 SEP.	44.01	0.74	0.	45.23	156.95	500.02	165.000	41.600	121.292	0.860	140.0	227.3	17.69	14.33	31.82
11 OCT.	70.56	0.76	0.	69.78	156.95	540.42	165.000	41.600	121.292	0.860	140.0	319.1	17.69	35.59	53.07
11 NOV.	75.60	0.70	0.	74.69	156.95	540.42	165.000	41.600	121.292	0.860	140.0	582.7	17.69	54.97	54.97
11 DEC.	117.50	0.76	0.	111.60	156.95	540.42	165.000	41.600	121.292	0.860	140.0	606.3	17.69	67.19	84.88
ANNUAL TOTAL	659.16	11.21	0.	677.76	1744.99	4135.63	1767.006	499.200	1616.827	10.320	1680.0	1299.7	212.25	248.64	461.89
ANNUAL MEAN	59.93	0.93	0.	51.99	158.67	311.74	145.590	41.600	119.825	0.860	140.0	274.9	17.69	20.80	38.44

PAGE 5 OF 7000

AA RESERVOIR OPERATION STUDY OF AGDS DAN AA PLAN A-2 KAHAN HWI JVS

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	R.W.L. (CM)	T.W.L. (CM)	L.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (H)	P.E. (GMH)	S.E. (GMH)	T.E. (GMH)
12 JAN.	118.82	0.91	0.	117.91	156.95	540.42	165.000	41.600	121.292	0.860	140.0	640.6	17.69	71.99	89.68
12 FEB.	92.30	1.17	0.	91.13	156.95	540.42	165.000	41.600	121.292	0.860	140.0	447.2	17.69	44.91	62.60
12 MAR.	62.00	1.36	0.	60.64	156.95	540.42	165.000	41.600	121.292	0.860	140.0	329.5	17.69	28.44	46.12
12 APR.	22.88	1.56	0.	24.07	157.16	553.31	164.824	41.600	121.292	0.860	140.0	126.3	17.69	0.	17.69
12 MAY	40.32	1.28	0.	36.59	156.98	540.42	164.970	41.600	121.292	0.860	140.0	197.6	17.69	0.98	27.67
12 JUNE	19.59	0.93	0.	24.11	157.58	525.77	164.637	41.600	120.913	0.860	140.0	126.3	17.69	0.	17.69
12 JULY	18.87	0.74	0.	23.67	158.24	511.66	165.912	41.600	120.162	0.860	140.0	126.3	17.69	0.	17.69
12 AUG.	19.26	0.59	0.	24.67	159.08	494.77	165.214	41.600	119.457	0.860	140.0	126.3	17.69	0.	17.69
12 SEP.	35.16	0.76	0.	40.34	158.69	524.32	165.541	41.600	119.777	0.860	140.0	268.9	17.69	19.95	37.64
12 OCT.	54.27	0.75	0.	49.51	157.01	540.42	164.925	41.600	121.242	0.860	140.0	590.7	17.69	65.01	82.69
12 NOV.	113.06	0.70	0.	112.35	156.95	540.42	165.000	41.600	121.292	0.860	140.0	256.5	17.69	15.43	33.11
12 DEC.	44.29	0.76	0.	43.54	156.95	540.42	165.000	41.600	121.292	0.860	140.0	256.5	17.69	15.43	33.11
ANNUAL TOTAL	619.60	11.48	0.	628.12	1649.36	6175.16	1974.994	499.200	1430.552	10.320	1680.0	5542.6	212.25	753.71	467.96
ANNUAL MEAN	51.63	0.96	0.	52.34	137.45	513.26	164.583	41.600	120.861	0.860	140.0	278.5	17.69	21.31	39.00

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	H.W.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (H)	P.E. (GMH)	S.E. (GMH)	T.E. (GMH)
13 JAN.	95.94	0.91	0.	94.03	156.95	540.42	165.000	41.600	121.292	0.860	140.0	514.1	17.69	54.28	71.97
13 FEB.	73.85	1.17	0.	71.68	156.95	540.42	165.000	41.600	121.292	0.860	140.0	356.6	17.69	32.24	49.93
13 MAR.	26.80	1.36	0.	25.44	156.95	540.42	165.000	41.600	121.292	0.860	140.0	138.2	17.69	1.66	19.55
13 APR.	22.25	1.56	0.	24.08	157.21	531.66	164.783	41.600	121.085	0.860	140.0	126.3	17.69	0.	17.69
13 MAY	9.14	1.25	0.	75.56	154.72	489.69	163.511	41.600	119.745	0.860	140.0	126.3	17.69	0.	17.69
13 JUNE	8.85	0.94	0.	74.87	141.04	446.02	161.294	41.600	117.443	0.860	140.0	126.3	17.69	0.	17.69
13 JULY	29.01	0.70	0.	24.20	162.54	457.04	168.424	41.600	116.538	0.860	140.0	126.3	17.69	0.	17.69
13 AUG.	25.41	0.56	0.	24.13	162.10	458.97	168.771	41.600	116.898	0.860	140.0	126.3	17.69	0.	17.69
13 SEP.	63.76	0.75	0.	31.59	154.52	540.42	165.529	41.600	119.910	0.860	140.0	164.2	17.69	5.30	22.98
13 OCT.	35.48	0.76	0.	32.72	156.95	540.42	165.000	41.600	121.292	0.860	140.0	177.8	17.69	7.20	24.89
13 NOV.	83.28	0.70	0.	82.57	156.95	540.42	165.000	41.600	121.292	0.860	140.0	454.1	17.69	45.09	60.78
13 DEC.	71.44	0.76	0.	72.69	156.95	540.42	165.000	41.600	121.292	0.860	140.0	594.9	17.69	37.60	53.28
ANNUAL TOTAL	542.12	11.12	0.	530.80	1662.60	6165.81	1963.991	499.200	1458.218	10.320	1680.0	2811.5	212.25	181.36	593.61
ANNUAL MEAN	45.18	0.94	0.	44.23	138.53	513.63	163.666	41.600	119.937	0.860	140.0	234.3	17.69	15.11	32.80

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	U24 (CMS)	UG (CMS)	S2 (CMS)	H.W.L. (CM)	T.W.L. (CM)	F.HEAD (CM)	EFFICI.	POWER (MW)	O.HOUR (H)	P.E. (GMH)	S.E. (GMH)	T.E. (GMH)
14 JAN.	63.58	0.91	0.	62.67	156.95	540.42	165.000	41.600	121.292	0.860	140.0	339.4	17.69	29.83	47.51
14 FEB.	98.29	1.17	0.	97.12	156.95	540.42	165.000	41.600	121.292	0.860	140.0	476.5	17.69	49.03	66.71
14 MAR.	29.64	1.36	0.	28.28	156.95	540.42	165.000	41.600	121.292	0.860	140.0	153.6	17.69	3.82	21.51
14 APR.	18.23	1.55	0.	24.13	157.52	521.11	164.520	41.600	120.792	0.860	140.0	126.3	17.69	0.	17.69
14 MAY	6.57	1.23	0.	23.71	159.60	471.00	162.787	41.600	118.994	0.860	140.0	126.3	17.69	0.	17.69
14 JUNE	12.27	0.86	0.	24.98	162.35	456.70	168.573	41.600	116.692	0.860	140.0	126.3	17.69	0.	17.69
14 JULY	18.03	0.68	0.	24.50	164.25	417.57	159.998	41.600	115.157	0.860	140.0	126.3	17.69	0.	17.69
14 AUG.	32.94	0.54	0.	24.68	164.18	458.77	159.155	41.600	115.216	0.860	140.0	126.3	17.69	0.	17.69
14 SEP.	44.93	0.73	0.	24.87	161.71	488.69	161.880	41.600	117.721	0.860	140.0	126.3	17.69	0.	17.69
14 OCT.	32.24	0.73	0.	24.67	159.42	509.88	162.955	41.600	119.147	0.860	140.0	126.3	17.69	0.	17.69
14 NOV.	31.28	0.69	0.	24.26	158.77	526.28	163.886	41.600	120.134	0.860	140.0	126.3	17.69	0.	17.69
14 DEC.	36.18	0.75	0.	30.15	157.00	560.47	164.942	41.600	121.252	0.860	140.0	272.4	17.69	20.44	38.13
ANNUAL TOTAL	439.28	11.18	0.	428.11	1675.36	5969.74	1935.803	499.200	1428.501	10.320	1680.0	2232.6	212.25	103.12	315.37
ANNUAL MEAN	36.61	0.93	0.	35.66	139.61	497.43	162.817	41.600	119.025	0.860	140.0	187.7	17.69	8.59	26.28

RESERVOIR OPERATIONS STUDY III AUGUS DAM #A PLAN A-2 KADAR HSE PUS

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	SZ (CM)	H.W.L. (M)	T.W.L. (M)	I-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
15 JAN.	42.65	0.91	0.	41.74	136.95	540.42	165.000	41.600	121.292	0.860	226.8	17.69	14.06	31.75
15 FEB.	78.73	1.17	0.	77.56	136.95	540.42	165.000	41.600	121.292	0.860	380.6	17.69	35.59	53.28
15 MAR.	68.11	1.36	0.	66.75	136.95	540.42	165.000	41.600	121.292	0.860	362.6	17.69	33.08	50.77
15 APR.	25.00	1.56	0.	23.44	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	0.	17.69
15 MAY	11.91	1.26	0.	10.65	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
15 JUNE	16.74	0.90	0.	15.84	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
15 JULY	28.08	0.72	0.	27.36	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
15 AUG.	56.12	0.59	0.	55.53	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
15 SEP.	56.20	0.78	0.	55.42	136.95	540.42	165.000	41.600	121.292	0.860	152.1	17.69	3.60	21.29
15 OCT.	54.72	0.76	0.	53.96	136.95	540.42	165.000	41.600	121.292	0.860	181.8	17.69	7.76	25.45
15 NOV.	116.76	0.70	0.	116.06	136.95	540.42	165.000	41.600	121.292	0.860	610.1	17.69	67.73	83.47
15 DEC.	205.58	0.76	0.	204.82	136.95	540.42	165.000	41.600	121.292	0.860	744.0	17.69	86.47	104.16
ANNUAL TOTAL	697.57	11.43	0.75	686.09	1369.50	5404.20	1650.000	416.000	1212.920	10.320	5289.6	212.25	248.30	460.55
ANNUAL MEAN	58.11	0.95	0.06	57.17	114.13	450.35	137.500	41.600	102.601	0.860	274.1	17.69	20.69	38.38

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	SZ (CM)	H.W.L. (M)	T.W.L. (M)	I-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
16 JAN.	118.96	0.91	0.	118.05	136.95	540.42	165.000	41.600	121.292	0.860	630.5	17.69	70.58	88.26
16 FEB.	57.41	1.17	0.	56.24	136.95	540.42	165.000	41.600	121.292	0.860	276.0	17.69	20.95	38.64
16 MAR.	20.98	1.35	0.	19.63	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
16 APR.	8.18	1.52	0.	7.66	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
16 MAY	6.98	1.19	0.	6.79	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
16 JUNE	6.93	0.83	0.	6.10	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
16 JULY	19.88	0.64	0.	19.24	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
16 AUG.	18.55	0.51	0.	18.04	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
16 SEP.	22.75	0.64	0.	22.11	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
16 OCT.	41.00	0.63	0.	40.37	136.95	540.42	165.000	41.600	121.292	0.860	126.3	17.69	0.	17.69
16 NOV.	65.52	0.63	0.	64.89	136.95	540.42	165.000	41.600	121.292	0.860	624.2	17.69	69.70	87.38
16 DEC.	138.14	0.74	0.	137.40	136.95	540.42	165.000	41.600	121.292	0.860	2667.4	212.25	161.22	373.47
ANNUAL TOTAL	524.25	10.73	0.82	513.52	1369.50	5404.20	1650.000	416.000	1162.270	10.320	2222.3	17.69	13.43	31.12
ANNUAL MEAN	43.69	0.89	0.07	42.79	114.13	450.35	137.500	41.600	96.857	0.860	184.0	17.69	1.11	2.59

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	Q6 (CMS)	SZ (CM)	H.W.L. (M)	T.W.L. (M)	I-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.F. (GWH)	S.E. (GWH)	T.E. (GWH)
17 JAN.	42.01	0.91	0.	41.10	136.95	540.42	165.000	41.600	121.292	0.860	223.3	17.69	15.57	31.26
17 FEB.	25.07	1.17	0.	23.90	136.95	535.89	164.888	41.600	121.173	0.860	126.3	17.69	0.	17.69
17 MAR.	8.74	1.35	0.	7.39	136.95	491.39	163.661	41.600	119.901	0.860	126.3	17.69	0.	17.69
17 APR.	5.47	1.44	0.	4.03	136.95	437.37	161.110	41.600	117.851	0.860	126.3	17.69	0.	17.69
17 MAY	19.41	1.16	0.	18.25	136.95	420.72	159.203	41.600	115.266	0.860	126.3	17.69	0.	17.69
17 JUNE	8.02	0.82	0.	7.20	136.95	372.76	157.399	41.600	113.584	0.860	126.3	17.69	0.	17.69
17 JULY	9.60	0.63	0.	8.97	136.95	329.29	156.738	41.600	110.600	0.860	126.3	17.69	0.	17.69
17 AUG.	11.83	0.48	0.	11.35	136.95	289.47	152.700	41.600	107.935	0.860	126.3	17.69	0.	17.69
17 SEP.	26.71	0.60	0.	26.11	136.95	245.13	151.798	41.600	106.460	0.860	126.3	17.69	0.	17.69
17 OCT.	55.71	0.61	0.	55.10	136.95	205.19	151.116	41.600	108.898	0.860	126.3	17.69	0.	17.69
17 NOV.	94.87	0.65	0.	94.22	136.95	162.26	148.505	41.600	116.789	0.860	131.3	17.69	0.69	18.38
17 DEC.	138.04	0.76	0.	137.28	136.95	118.95	145.000	41.600	121.292	0.860	744.0	17.69	86.47	104.16
ANNUAL TOTAL	667.10	10.51	0.92	656.59	1369.50	5158.98	1497.255	416.000	1133.939	10.320	2735.6	212.25	100.74	512.99
ANNUAL MEAN	57.26	0.88	0.08	56.38	114.13	429.87	138.936	41.600	94.498	0.860	186.3	17.69	8.39	26.08

RESERVOIR OPERATION STUDY OF AGUS DAM ** PLAN A-2 KANAN HWI ZYS

YEAR MONTH	INFLW (CMS)	EVAPU. (CMS)	SPILL (CMS)	W/H (CMS)	OG (CMS)	SZ (CMS)	H.W.L. (CM)	F.H.E.D. (CM)	POWER (MW)	U. HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
18 JAN.	123.27	0.91	0.	122.36	136.95	540.42	165.000	41.600	121.292	0.860	140.0	664.7	93.06
18 FEB.	26.50	1.17	0.	25.33	136.99	539.39	164.975	41.600	121.263	0.860	140.0	126.3	17.69
18 MAR.	24.02	1.36	0.	22.67	137.06	537.75	164.909	41.600	121.196	0.860	140.0	126.3	17.69
18 APR.	14.55	1.54	0.	24.21	137.96	508.71	166.164	41.600	120.402	0.860	140.0	126.3	17.69
18 MAY.	11.79	1.23	0.	24.76	137.26	473.36	162.505	41.600	118.701	0.860	140.0	126.3	17.69
18 JUNE	16.80	0.87	0.	24.89	141.87	449.40	160.956	41.600	117.091	0.860	140.0	126.3	17.69
18 JULY	14.89	0.88	0.	26.39	143.62	422.33	159.582	41.600	115.661	0.860	140.0	126.3	17.69
18 AUG.	33.52	0.55	0.	24.41	143.77	445.26	159.463	41.600	115.537	0.860	140.0	126.3	17.69
18 SEP.	24.90	0.71	0.	25.10	143.05	442.88	160.022	41.600	115.119	0.860	140.0	126.3	17.69
18 OCT.	18.48	0.68	0.	24.41	143.76	425.15	159.475	41.600	115.550	0.860	140.0	126.3	17.69
18 NOV.	65.23	0.66	0.	24.72	140.86	526.46	161.764	41.600	117.931	0.860	140.0	126.3	17.69
18 DEC.	53.50	0.75	0.	48.28	139.99	540.42	164.935	41.600	121.259	0.860	140.0	262.2	56.71
ANNUAL TOTAL	428.85	11.09	0.	417.75	1443.06	5849.34	1947.564	499.200	421.809	10.320	1680.0	2190.3	94.40
ANNUAL MEAN	35.74	0.92	0.	34.81	140.25	487.45	162.297	41.600	118.684	0.860	140.0	182.5	7.87
YEAR MONTH	INFLW (CMS)	EVAPU. (CMS)	SPILL (CMS)	W/H (CMS)	OG (CMS)	SZ (CMS)	H.W.L. (CM)	F.H.E.D. (CM)	POWER (MW)	U. HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
19 JAN.	66.23	0.91	0.	65.32	136.95	540.42	165.000	41.600	121.292	0.860	140.0	354.8	49.68
19 FEB.	87.87	1.17	0.	86.70	136.99	540.42	165.000	41.600	121.292	0.860	140.0	425.4	59.56
19 MAR.	87.66	1.56	0.	86.50	136.95	540.42	165.000	41.600	121.292	0.860	140.0	468.8	55.84
19 APR.	39.80	1.54	0.	38.24	136.95	540.42	165.000	41.600	121.292	0.860	140.0	201.0	28.14
19 MAY.	8.62	1.20	0.	25.67	136.25	497.25	163.923	41.600	120.173	0.860	140.0	126.3	17.69
19 JUNE	7.46	0.88	0.	24.75	141.06	450.15	161.601	41.600	117.162	0.860	140.0	126.3	17.69
19 JULY	16.24	0.68	0.	24.39	143.06	421.12	159.564	41.600	115.642	0.860	140.0	126.3	17.69
19 AUG.	28.77	0.54	0.	26.51	144.52	451.08	159.041	41.600	115.097	0.860	140.0	126.3	17.69
19 SEP.	29.58	0.71	0.	25.21	143.65	440.02	159.559	41.600	115.617	0.860	140.0	126.3	17.69
19 OCT.	56.44	0.67	0.	24.16	142.77	471.04	160.639	41.600	116.161	0.860	140.0	126.3	17.69
19 NOV.	58.55	0.67	0.	26.59	140.12	503.64	160.580	41.600	118.351	0.860	140.0	126.3	17.69
19 DEC.	23.04	0.73	0.	25.04	139.15	503.90	163.154	41.600	119.575	0.860	140.0	126.3	17.69
ANNUAL TOTAL	464.53	11.15	0.	468.04	1440.50	5875.49	1949.640	499.200	423.956	10.320	1680.0	2460.8	544.52
ANNUAL MEAN	38.71	0.93	0.	39.00	140.04	489.62	162.470	41.600	118.663	0.860	140.0	205.1	28.71
YEAR MONTH	INFLW (CMS)	EVAPU. (CMS)	SPILL (CMS)	W/H (CMS)	OG (CMS)	SZ (CMS)	H.W.L. (CM)	F.H.E.D. (CM)	POWER (MW)	U. HOUR (H)	P.E. (GWH)	S.E. (GWH)	T.E. (GWH)
20 JAN.	72.73	0.87	0.	71.87	139.43	497.03	162.939	41.600	119.152	0.860	140.0	126.3	17.69
20 FEB.	9.63	1.10	0.	26.50	140.26	451.54	161.684	41.600	117.448	0.860	140.0	126.3	17.69
20 MAR.	11.81	1.23	0.	24.40	143.69	416.53	159.531	41.600	115.608	0.860	140.0	126.3	17.69
20 APR.	7.17	1.55	0.	25.79	140.97	563.74	157.052	41.600	113.021	0.860	140.0	126.3	17.69
20 MAY.	4.07	1.04	0.	25.25	151.64	503.92	153.733	41.600	109.547	0.860	140.0	126.3	17.69
20 JUNE	3.20	0.71	0.	27.67	157.67	238.68	149.751	41.600	105.356	0.860	140.0	126.3	17.69
20 JULY	10.92	0.53	0.	27.87	162.52	191.98	145.946	41.600	101.384	0.860	140.0	126.3	17.69
20 AUG.	18.53	0.40	0.	28.57	160.18	163.49	141.726	41.600	98.739	0.860	140.0	126.3	17.69
20 SEP.	21.65	0.50	0.	30.10	158.64	140.29	141.266	41.600	96.837	0.860	140.0	126.3	17.69
20 OCT.	19.97	0.47	0.	29.77	157.04	112.93	139.277	41.600	94.905	0.860	140.0	126.3	17.69
20 NOV.	52.74	0.43	0.	51.07	156.26	116.29	138.305	41.600	93.961	0.860	140.0	126.3	17.69
20 DEC.	87.77	0.51	0.	88.27	161.20	276.45	164.518	41.600	99.997	0.860	140.0	126.3	17.69
ANNUAL TOTAL	251.72	9.11	0.	279.16	1410.91	5263.69	1796.468	499.200	426.565	10.320	1676.5	1568.8	212.25
ANNUAL MEAN	20.98	0.76	0.	27.43	135.60	271.97	149.706	41.600	105.464	0.860	135.5	130.7	17.69

AA RESERVOIR OPERATION STUDY OF AAGS DAM NO. 1 PLAN A-2 KAMAN HALL 295

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	QG (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD (M)	EFFICI.	POWER (MW)	O.HOUR (H)	P.F. (GWH)	S.F. (GWH)	T.E. (GWH)
21 JAN.	66.75	0.73	0.	25.86	152.18	342.06	153.361	41.600	109.156	0.860	140.0	126.3	17.69	0.	17.69
21 FEB.	15.77	0.99	0.	28.00	148.94	350.09	155.629	41.600	111.535	0.860	140.0	126.3	17.69	0.	17.69
21 MAR.	6.74	1.09	0.	25.92	152.66	295.78	153.035	41.600	108.813	0.860	140.0	126.3	17.69	0.	17.69
21 APR.	10.87	1.18	0.	27.64	157.54	249.26	149.831	41.600	105.440	0.860	140.0	126.3	17.69	0.	17.69
21 MAY	4.32	0.90	0.	27.80	182.39	183.96	146.036	41.600	101.472	0.860	140.0	126.3	17.69	0.	17.69
21 JUNI	6.19	0.60	0.	30.09	158.65	120.64	141.290	41.600	96.860	0.860	120.5	156.6	17.69	0.	17.69
21 JULY	10.93	0.44	0.	30.57	154.86	68.65	138.557	41.600	92.282	0.860	120.4	156.9	17.69	0.	17.69
21 AUG.	9.57	0.32	0.	32.56	150.50	2.07	131.303	41.600	81.159	0.860	110.6	160.0	17.69	0.	17.69
21 SEP.	37.23	0.39	0.	34.52	148.13	8.07	128.699	41.600	84.433	0.860	105.4	167.8	17.69	0.	17.69
21 OCT.	59.79	0.41	0.	32.02	151.30	81.25	132.260	41.600	84.088	0.860	112.3	157.5	17.69	0.	17.69
21 NOV.	174.48	0.53	0.	27.67	157.71	460.41	149.727	41.600	105.330	0.860	140.0	126.3	17.69	0.	17.69
21 DEC.	116.57	0.73	0.	85.81	157.24	540.47	164.548	41.600	121.040	0.860	140.0	465.2	17.69	47.64	65.15
ANNUAL TOTAL	518.88	8.28	0.	409.59	1842.06	2781.14	2171.214	499.200	210.934	10.370	1556.7	1991.0	212.25	47.64	259.69
ANNUAL MEAN	43.24	0.69	0.	34.12	152.67	227.59	145.101	41.600	100.911	0.860	129.7	166.1	17.69	3.95	21.64

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	QG (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD (M)	EFFICI.	POWER (MW)	O.HOUR (H)	P.F. (GWH)	S.F. (GWH)	T.E. (GWH)
22 JAN.	64.58	0.91	0.	63.57	136.93	540.42	165.000	41.600	121.292	0.860	140.0	345.4	17.69	30.66	48.35
22 FEB.	110.03	1.17	0.	104.84	136.95	540.47	165.000	41.600	121.292	0.860	140.0	345.4	17.69	57.09	74.78
22 MAR.	98.18	1.36	0.	96.82	136.95	540.42	165.000	41.600	121.292	0.860	140.0	345.4	17.69	55.95	73.64
22 APR.	12.41	1.34	0.	24.20	137.94	506.89	164.166	41.600	120.424	0.860	140.0	345.4	17.69	0.	17.69
22 MAY	102.59	1.27	0.	84.61	137.03	540.42	164.866	41.600	121.226	0.860	140.0	345.4	17.69	49.67	67.56
22 JUNI	151.41	0.94	0.	130.47	136.95	540.42	165.000	41.600	121.292	0.860	140.0	345.4	17.69	78.34	96.03
22 JULY	77.97	0.76	0.	77.22	136.95	540.42	165.000	41.600	121.292	0.860	140.0	345.4	17.69	41.94	58.73
22 AUG.	42.50	0.60	0.	41.70	136.95	540.42	165.000	41.600	121.292	0.860	140.0	345.4	17.69	14.03	31.71
22 SEP.	17.58	0.77	0.	24.13	137.51	521.43	164.328	41.600	120.800	0.860	140.0	345.4	17.69	0.	17.69
22 OCT.	95.54	0.75	0.	87.70	136.99	540.42	164.933	41.600	121.282	0.860	140.0	345.4	17.69	66.69	86.69
22 NOV.	152.66	0.70	0.	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	345.4	17.69	83.11	100.80
22 DEC.	249.56	0.76	0.	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	345.4	17.69	86.47	104.16
ANNUAL TOTAL	1155.88	11.50	128.80	1035.98	1665.07	6433.21	21928.527	499.200	345.064	10.320	1680.0	5411.5	212.25	545.37	757.62
ANNUAL MEAN	96.32	0.96	10.73	84.65	137.09	536.10	164.877	41.600	121.172	0.860	140.0	451.0	17.69	45.45	63.13

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	Q24 (CMS)	QG (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	F.HEAD (M)	EFFICI.	POWER (MW)	O.HOUR (H)	P.F. (GWH)	S.F. (GWH)	T.E. (GWH)
23 JAN.	71.80	0.97	0.	70.70	136.95	540.42	165.000	41.600	121.292	0.860	140.0	382.1	17.69	36.23	55.92
23 FEB.	18.57	1.16	0.	25.56	137.55	510.98	166.242	41.600	120.763	0.860	140.0	382.1	17.69	0.	17.69
23 MAR.	25.69	1.34	0.	24.55	134.09	526.59	164.042	41.600	120.296	0.860	140.0	382.1	17.69	0.	17.69
23 APR.	17.55	1.52	0.	24.55	138.66	500.86	163.539	41.600	119.795	0.860	140.0	382.1	17.69	0.	17.69
23 MAY	17.05	1.23	0.	25.77	140.00	470.50	162.461	41.600	118.655	0.860	140.0	382.1	17.69	0.	17.69
23 JUNI	16.41	0.88	0.	24.02	141.44	456.69	161.501	41.600	117.450	0.860	140.0	382.1	17.69	0.	17.69
23 JULY	102.10	0.73	0.	70.04	137.57	540.42	164.188	41.600	120.929	0.860	140.0	382.1	17.69	35.42	53.11
23 AUG.	139.10	0.60	0.	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	382.1	17.69	86.47	104.16
23 SEP.	76.60	0.78	0.	75.82	136.95	540.42	165.000	41.600	121.292	0.860	140.0	382.1	17.69	38.11	55.80
23 OCT.	52.12	0.76	0.	51.56	136.95	540.42	165.000	41.600	121.292	0.860	140.0	382.1	17.69	6.36	23.85
23 NOV.	75.93	0.70	0.	75.75	146.95	540.42	165.000	41.600	121.292	0.860	140.0	382.1	17.69	37.68	55.37
23 DEC.	127.50	0.76	0.	126.75	136.95	540.42	165.000	41.600	121.292	0.860	140.0	382.1	17.69	78.71	96.40
ANNUAL TOTAL	726.71	11.53	1.64	715.74	1654.78	6263.94	21970.030	499.200	1445.678	10.370	1680.0	3793.7	212.25	518.80	531.05
ANNUAL MEAN	60.56	0.94	0.14	59.68	137.89	522.00	166.169	41.600	120.473	0.860	140.0	316.1	17.69	26.57	44.25

AA RESERVOIR OPERATION STUDY OF AGOS DAM ** FLAR A-2 KAMAN HWL 295

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	024 (CMS)	06 (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	1-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
24 JAN.	34.13	0.91	0.	33.23	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	7.58	25.27
24 FEB.	50.29	1.17	0.	49.12	116.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	16.05	33.74
24 MAR.	15.48	1.35	0.	23.38	137.88	515.66	164.885	41.600	120.652	0.860	140.0	17.69	0.	17.69
24 APR.	12.34	1.50	0.	26.48	149.51	480.51	162.863	41.600	119.071	0.860	140.0	17.69	0.	17.69
24 MAY	11.72	1.19	0.	24.08	141.82	444.00	160.991	41.600	117.128	0.860	140.0	17.69	0.	17.69
24 JUNE	15.19	0.84	0.	25.78	144.04	415.67	159.246	41.600	115.311	0.860	140.0	17.69	0.	17.69
24 JULY	18.76	0.66	0.	24.75	145.75	397.86	157.965	41.600	113.975	0.860	140.0	17.69	0.	17.69
24 AUG.	14.25	0.57	0.	23.06	147.60	367.46	156.993	41.600	112.543	0.860	140.0	17.69	0.	17.69
24 SEP.	17.57	0.65	0.	26.79	149.85	342.64	156.360	41.600	110.891	0.860	140.0	17.69	0.	17.69
24 OCT.	52.66	0.64	0.	25.12	147.92	414.62	156.360	41.600	112.298	0.860	140.0	17.69	0.	17.69
24 NOV.	112.61	0.66	0.	63.42	137.88	540.42	163.220	41.600	120.402	0.860	140.0	17.69	28.67	46.36
24 DEC.	288.93	0.76	151.22	136.95	116.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	86.47	104.16
ANNUAL TOTAL	675.51	10.85	151.74	480.96	1705.29	5456.36	1913.521	499.200	1405.891	10.170	1400.0	212.25	136.78	451.03
ANNUAL MEAN	52.15	0.78	11.814	40.08	141.96	461.19	160.943	41.600	117.156	0.860	140.0	17.69	11.57	29.25

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	024 (CMS)	06 (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	1-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
25 JAN.	129.09	0.91	0.	128.19	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	79.81	97.49
25 FEB.	123.77	1.17	0.	122.60	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	66.53	84.22
25 MAR.	61.31	1.36	0.	59.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	27.91	45.60
25 APR.	14.18	1.56	0.	24.19	137.83	510.68	164.256	41.600	120.518	0.860	140.0	17.69	0.	17.69
25 MAY	11.96	1.23	0.	23.74	139.82	475.92	162.809	41.600	118.809	0.860	140.0	17.69	0.	17.69
25 JUNE	8.41	0.86	0.	26.99	142.44	430.59	160.503	41.600	116.620	0.860	140.0	17.69	0.	17.69
25 JULY	29.47	0.88	0.	24.58	143.00	442.48	159.599	41.600	115.629	0.860	140.0	17.69	0.	17.69
25 AUG.	27.26	0.55	0.	24.28	142.96	448.69	160.696	41.600	116.196	0.860	140.0	17.69	0.	17.69
25 SEP.	38.81	0.73	0.	24.86	143.58	483.00	161.187	41.600	117.332	0.860	140.0	17.69	0.	17.69
25 OCT.	28.13	0.72	0.	23.80	140.15	492.67	162.359	41.600	118.529	0.860	140.0	17.69	0.	17.69
25 NOV.	85.67	0.69	0.	66.57	137.15	540.42	164.638	41.600	121.117	0.860	140.0	17.69	31.24	48.92
25 DEC.	43.25	0.76	0.	42.47	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	14.61	32.30
ANNUAL TOTAL	595.78	11.18	0.	584.60	1675.54	5982.02	1935.061	499.200	1429.792	10.170	1400.0	212.25	220.10	432.55
ANNUAL MEAN	49.65	0.93	0.	48.72	139.60	498.50	162.922	41.600	119.149	0.860	140.0	17.69	18.34	36.03

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	024 (CMS)	06 (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	1-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
26 JAN.	26.77	0.91	0.	25.87	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	1.99	19.67
26 FEB.	20.29	1.16	0.	25.84	137.43	524.48	164.597	41.600	120.872	0.860	140.0	17.69	0.	17.69
26 MAR.	11.56	1.32	0.	23.60	138.99	488.61	163.288	41.600	119.514	0.860	140.0	17.69	0.	17.69
26 APR.	5.19	1.45	0.	24.90	141.90	433.50	160.929	41.600	117.063	0.860	140.0	17.69	0.	17.69
26 MAY	8.44	1.13	0.	24.70	143.48	386.97	158.161	41.600	114.180	0.860	140.0	17.69	0.	17.69
26 JUNE	11.03	0.79	0.	26.13	145.91	345.78	155.666	41.600	111.551	0.860	140.0	17.69	0.	17.69
26 JULY	13.13	0.61	0.	25.85	152.21	310.08	153.361	41.600	109.135	0.860	140.0	17.69	0.	17.69
26 AUG.	41.47	0.49	0.	25.81	151.99	330.71	153.492	41.600	109.293	0.860	140.0	17.69	0.	17.69
26 SEP.	46.67	0.66	0.	25.98	148.08	407.61	156.246	41.600	112.178	0.860	140.0	17.69	0.	17.69
26 OCT.	107.53	0.71	0.	55.37	138.18	540.42	162.818	41.600	120.234	0.860	140.0	17.69	26.05	41.74
26 NOV.	131.18	0.70	0.	130.48	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	78.55	96.04
26 DEC.	197.03	0.76	59.42	136.95	136.95	540.42	165.000	41.600	121.292	0.860	140.0	17.69	86.47	104.16
ANNUAL TOTAL	623.81	10.66	60.46	552.69	1716.42	5394.27	1935.205	499.200	1397.592	10.320	1680.0	212.25	190.86	403.11
ANNUAL MEAN	51.98	0.89	5.04	46.06	142.87	449.96	160.267	41.600	116.466	0.860	140.0	17.69	15.90	33.59

YEAR MONTH	INFLOW (CMS)	EVAPOR. (CMS)	SPILL (CMS)	024 (CMS)	06 (CMS)	S2 (CMS)	R.W.L. (M)	T.W.L. (M)	1-HEAD EFFICI.	POWER (MW)	O-HOUR (H)	P.E. (GWH)	S.F. (GWH)	T.E. (GWH)
GRAND MEAN	50.78	0.89	4.89	45.50	147.68	430.62	160.075	41.600	116.208	0.860	139.6	212.25	183.24	395.49

CHAPTER 10

FINANCIAL ANALYSIS OF THE AGOS RIVER HYDROPOWER PROJECT

No.	Description
10-1	Investment Cost and Financing Plan
10-2	Income Statement
10-3	Cash Flow Statement
10-4	FIRR Calculation

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TABLE 7-5 INVESTMENT COST AND FINANCING PLAN
(MILLION US DOLLAR)

	CONSTRUCTION PERIOD											TOTAL					
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991						
I. INVESTMENT COST																	
1.1 DETAILED DESIGN COST																	
FOREIGN	2.40	4.90	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.30
LOCAL	2.10	3.50	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.60
	0.10	1.40	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.70
1.2 PRICE ESCALATION FOR 1.1																	
FOREIGN	0.14	0.80	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.98
LOCAL	0.15	0.51	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.65
	0.03	0.29	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.32
1.3 CONSTRUCTION COST																	
FOREIGN	0.	0.	20.20	30.10	43.00	72.00	71.60	51.60	288.30								
LOCAL	0.	0.	15.70	24.30	37.80	60.70	59.80	44.60	242.90								
	0.	0.	4.50	5.80	5.20	11.30	11.80	6.80	45.40								
1.4 PRICE ESCALATION FOR 1.3																	
FOREIGN	0.	0.	5.07	10.74	18.17	19.11	47.42	19.81	160.00								
LOCAL	0.	0.	3.53	7.55	15.22	30.39	36.23	32.03	124.95								
	0.	0.	1.49	2.69	3.17	8.72	11.19	7.78	35.05								
1.5 INTEREST DURING CONSTRUCTION																	
FOREIGN	0.10	0.50	1.55	3.52	7.15	13.25	21.20	28.54	73.45								
1.6 COMMITMENT CHARGES																	
FOREIGN	0.04	0.00	3.49	3.17	2.64	1.73	0.77	0.00	11.82								
1.7 TOTAL INVESTMENT COST																	
FOREIGN	2.71	6.06	50.06	47.03	71.16	126.09	140.99	119.75	543.85								
LOCAL	2.38	4.37	24.07	30.54	62.78	106.07	118.00	105.17	461.38								
	0.33	1.69	5.99	8.49	8.37	20.02	22.99	14.58	82.47								
II. FINANCING PLAN																	
2.1 INTERNATIONAL LOANS	2.71	6.06	30.06	47.03	71.16	126.09	140.99	119.75	543.85								
2.2 GOVERNMENT CONTRIBUTION	2.25	4.01	19.23	31.85	53.02	91.09	96.03	76.63	374.11								
	0.47	7.08	10.82	13.18	18.14	35.00	44.87	43.17	169.75								

TABLE 7-6 INCOME STATEMENT (C 1/ 5)
(MILLION US DOLLAR)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
I. REVENUE												
POWER	0.	0.	0.	0.	0.	0.	0.	0.	86.73	84.61	82.48	80.35
II. EXPENSES												
2.1 OPERATING EXPENSES	0.	0.	0.	0.	0.	0.	0.	0.	15.04	15.04	15.04	15.04
2.2 DEPRECIATION	0.	0.	0.	0.	0.	0.	0.	0.	4.17	4.17	4.17	4.17
III. OPERATING INCOME	0.	0.	0.	0.	0.	0.	0.	0.	71.69	69.56	67.43	65.30
IV. INTEREST	0.	0.	0.	0.	0.	0.	0.	0.	31.80	31.14	30.63	29.65
V. NET INCOME	0.	0.	0.	0.	0.	0.	0.	0.	39.89	38.42	37.00	35.65
(FIRR CALCULATION)												
VI. PROJECT COST (41)	2.58	5.70	25.22	40.34	61.59	111.11	119.02	91.21	0.	0.	0.	0.
VII. (I - 2.1 - VI)	-2.58	-5.70	-25.22	-40.34	-61.59	-111.11	-119.02	-91.21	82.57	80.44	78.31	76.18
DISCOUNTED AT 10. %	-5.27	-10.59	-42.60	-61.95	-85.70	-141.01	-137.31	-95.66	78.73	69.72	61.71	54.57
DISCOUNTED AT 11. %	-5.64	-11.23	-44.78	-64.53	-88.46	-144.24	-139.19	-96.09	78.37	68.78	60.53	52.87
DISCOUNTED AT 12. %	-6.03	-11.91	-47.04	-67.18	-91.28	-147.51	-141.07	-96.52	78.02	67.86	58.99	51.24

(41) CONSTRUCTION COST PLUS PRICE CONTINGENCY INCLUDING D.D. AND REPLACEMENT COST

TABLE P-6 INCOME STATEMENT (P / S)
(MILLION US DOLLAR)

	1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
I. REVENUE												
POWER	78.22	76.09	72.94	69.80	66.65	65.50	60.36	57.21	55.90	54.59	53.28	51.97
II. EXPENSES	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04
2.1 OPERATING EXPENSES	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
2.2 DEPRECIATION	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88
III. OPERATING INCOME	63.17	61.05	57.90	54.75	51.61	48.46	45.31	42.17	40.86	39.55	38.23	36.92
IV. INTEREST	28.82	27.90	26.92	25.84	24.68	23.42	22.05	20.56	18.95	17.20	15.30	13.24
V. NET INCOME	34.36	33.16	30.98	28.91	26.93	25.04	23.27	21.61	21.91	22.35	22.93	23.68
(FIRR CALCULATION)												
VI. PROJECT COST (*)	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VII. (I - 2.1 - VI)	74.05	71.92	68.78	65.63	62.48	59.34	56.19	53.04	51.73	50.42	49.11	47.80
DISCOUNTED AT 10. %	48.22	47.58	37.02	32.11	27.79	23.99	20.66	17.73	15.72	13.93	12.33	10.91
DISCOUNTED AT 11. %	46.10	40.53	34.90	30.00	25.75	22.02	18.78	15.97	14.04	12.52	10.81	9.48
DISCOUNTED AT 12. %	44.67	38.56	32.97	28.05	23.85	20.22	17.10	14.41	12.55	10.92	9.50	8.25

(*) CONSTRUCTION COST PLUS PRICE CONTINGENCY INCLUDING D.O. AND REPLACEMENT COST.

TABLE 7-6 INCOME STATEMENT (\$ / \$) (MILLION US DOLLAR)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
I. REVENUE												
POWER	50.66	50.08	49.50	48.92	48.34	48.34	48.34	48.34	48.34	48.34	48.34	48.34
II. EXPENSES												
2.1 OPERATING EXPENSES	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
2.2 DEPRECIATION	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88
III. OPERATING INCOME	55.61	55.03	34.45	55.87	55.29	55.29	55.29	55.29	55.29	55.29	55.29	55.29
IV. INTEREST	11.01	8.58	5.95	5.10	0.	0.	0.	0.	0.	0.	0.	0.
V. NET INCOME	24.61	26.45	28.50	50.78	55.29	55.29	55.29	55.29	55.29	55.29	55.29	55.29
(FIRR CALCULATION)												
VI. PROJECT COST (*1)	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
VII. (I - 2.1 - VI)	46.49	45.91	45.33	44.75	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17
DISCOUNTED AT 10.2	9.65	8.66	7.77	6.98	6.26	5.69	5.17	4.70	4.28	3.89	3.53	3.21
DISCOUNTED AT 11.2	8.31	7.39	6.58	5.85	5.20	4.68	4.22	3.80	3.43	3.09	2.78	2.50
DISCOUNTED AT 12.2	7.17	6.32	5.57	4.91	4.33	3.86	3.45	3.08	2.75	2.46	2.19	1.96

(*1) CONSTRUCTION COST PLUS PRICE CONTINGENCY INCLUDING D.O. AND REPLACEMENT COST

TABLE 7-6 INCOME STATEMENT (4 / 5)
(MILLION US DOLLAR)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
I. REVENUE												
POWER	48.34	48.34	48.34	48.34	48.34	48.34	48.34	48.34	48.34	48.34	48.34	48.34
II. EXPENSES												
2.1 OPERATING EXPENSES	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04
2.2 DEPRECIATION	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88
III. OPERATING INCOME	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29
IV. INTEREST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
V. NET INCOME	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29
(FIRR CALCULATION)												
VI. PROJECT COST (*1)	0.	0.	0.	0.	0.	0.	78.69	0.	0.	0.	0.	0.
VII. (I - 2.1 - VI)	64.17	64.17	64.17	64.17	64.17	64.17	-34.52	64.17	64.17	64.17	64.17	64.17
DISCOUNTED AT 10. %	2.92	2.65	2.41	2.19	1.99	1.81	-1.29	1.50	1.36	1.24	1.13	1.02
DISCOUNTED AT 11. %	2.26	2.03	1.83	1.65	1.49	1.34	-0.94	1.09	0.98	0.88	0.79	0.72
DISCOUNTED AT 12. %	1.75	1.56	1.39	1.24	1.11	0.99	-0.69	0.79	0.71	0.63	0.56	0.50

(*1) CONSTRUCTION COST PLUS PRICE CONTINGENCY INCLUDING D.D. AND REPLACEMENT COST

TABLE 7-6 INCOME STATEMENT (\$ / \$)
(MILLION US DOLLAR)

	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	TOTAL
I. REVENUE											
POWER	48.34	48.34	48.34	48.34	48.34	48.34	48.34	48.34	48.34	48.34	2743.97
II. EXPENSES											
2.1 OPERATING EXPENSES	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	208.35
2.2 DEPRECIATION	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	583.85
III. OPERATING INCOME	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	1991.72
IV. INTEREST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	416.54
V. NET INCOME	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	1575.18
(FIRR CALCULATION)											
VI. PROJECT COST (*1)	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	535.26
VII. (1 - 2.1 - VI)	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	2000.31
DISCOUNTED AT 10. %	0.53	0.85	0.77	0.70	0.64	0.58	0.53	0.48	0.43	0.39	82.65
DISCOUNTED AT 11. %	0.64	0.58	0.52	0.47	0.42	0.38	0.34	0.31	0.28	0.25	23.24
DISCOUNTED AT 12. %	0.45	0.40	0.36	0.32	0.29	0.25	0.23	0.20	0.18	0.16	-30.23

(*1) CONSTRUCTION COST PLUS PRICE CONTINGENCY INCLUDING D.D. AND REPLACEMENT COST

FIRR = 11.42% SURPLUS = -0.019 MILLION DOLLAR

TABLE 7-7 CASH FLOW STATEMENT (1/5)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
(MILLION US DOLLAR)												
I. FUNDS SOURCES												
1.1 EXTERNAL SOURCES	2.71	6.06	30.06	47.03	71.16	126.09	140.99	119.75	0.	0.	0.	0.
INTERNATIONAL LOAN	2.25	4.01	19.23	31.85	53.02	97.09	96.03	76.63	0.	0.	0.	0.
GRANT CONTRIBUTION	0.47	2.06	10.82	15.18	18.14	33.00	44.97	43.12	0.	0.	0.	0.
1.2 INTER-CASH GENERATION	0.	0.	0.	0.	0.	0.	0.	0.	82.57	80.54	78.31	76.18
OPERATION INCOME	0.	0.	0.	0.	0.	0.	0.	0.	71.69	69.56	67.43	65.30
DEPRECIATION	0.	0.	0.	0.	0.	0.	0.	0.	10.88	10.88	10.88	10.88
1.3 TOTAL	2.71	6.06	30.06	47.03	71.16	126.09	140.99	119.75	82.57	80.54	78.31	76.18
II. FUNDS APPLICATION												
2.1 INVESTMENT COST	2.71	6.06	30.06	47.03	71.16	126.09	140.99	119.75	0.	0.	0.	0.
2.2 DEBT SERVICE (INTERNATIONAL LOAN)	0.	0.	0.	0.	0.	0.	0.	0.	39.53	39.53	39.53	39.53
INTEREST	0.	0.	0.	0.	0.	0.	0.	0.	31.80	31.16	30.63	29.65
AMORTIZATION	0.	0.	0.	0.	0.	0.	0.	0.	7.73	8.39	9.10	9.88
2.3 TOTAL	2.71	6.06	30.06	47.03	71.16	126.09	140.99	119.75	39.53	39.53	39.53	39.53
III. SURPLUS (1.3) - (2.3)	0.	0.	0.	0.	0.	0.	0.	0.	43.04	40.91	38.78	36.65
IV. CUMULATED SURPLUS	0.	0.	0.	0.	0.	0.	0.	0.	43.04	83.94	122.72	159.37
V. DEBT-SERVICE RATIO	0.	0.	0.	0.	0.	0.	0.	0.	2.09	2.03	1.98	1.93

TABLE 7-7 CASH FLOW STATEMENT (2/5)

(MILLION US DOLLAR)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
I. FUNDS SOURCES												
1.1 EXTERNAL SOURCES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
INTERNATIONAL LOAN	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GOVNT. CONTRIBUT.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.2 INTER. CASH GENER.	74.05	71.92	68.78	65.63	62.48	59.34	56.19	53.04	51.73	50.42	49.11	47.80
OPERATION INCOME	63.17	61.05	57.90	54.75	51.61	48.46	45.31	42.17	40.86	39.55	38.23	36.92
DEPRECIATION	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88
1.3 TOTAL	74.05	71.92	68.78	65.63	62.48	59.34	56.19	53.04	51.73	50.42	49.11	47.80
II. FUNDS APPLICATION												
2.1 INVESTMENT COST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
2.2 DEBT SERVICE (INTERNATIONAL LOAN)	39.53	39.53	39.53	39.53	39.53	39.53	39.53	39.53	39.53	39.53	39.53	39.53
INTEREST	28.82	27.90	26.92	25.84	24.68	23.42	22.05	20.56	18.95	17.20	15.30	13.26
AMORTIZATION	10.72	11.63	12.62	13.69	14.85	16.11	17.48	18.97	20.58	22.33	24.23	26.27
2.3 TOTAL	39.53	39.53	39.53	39.53	39.53	39.53	39.53	39.53	39.53	39.53	39.53	39.53
III. SURPLUS (1.3) - (2.3)	34.52	32.39	29.24	26.10	22.95	19.80	16.66	13.51	12.20	10.89	9.58	8.27
IV. CUMULATED SURPLUS	193.89	226.28	255.52	281.62	304.57	324.37	341.03	354.54	366.74	377.63	387.21	395.48
V. DEBT-SERVICE RATIO	1.87	1.82	1.74	1.66	1.58	1.50	1.42	1.34	1.31	1.28	1.24	1.21

TABLE 7-7 CASH FLOW STATEMENT (3/ 5) (MILLION US DOLLAR)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
I. FUNDS SOURCES												
1.1 EXTERNAL SOURCES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
INTERNATIONAL LOAN	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GRANT CONTRIBUT.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.2 INTER. CASH GENER.	46.49	45.91	45.33	44.75	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17
OPERATION INCOME	35.01	35.03	34.45	33.87	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29
DEPRECIATION	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88
1.3 TOTAL	46.49	45.91	45.33	44.75	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17
II. FUNDS APPLICATION												
2.1 INVESTMENT COST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
2.2 DEBT SERVICE (INTERNATIONAL LOAN)	39.53	39.53	39.53	39.53	0.	0.	0.	0.	0.	0.	0.	0.
INTEREST AMORTIZATION	11.01	8.58	5.95	3.10	0.	0.	0.	0.	0.	0.	0.	0.
2.3 TOTAL	39.53	39.53	39.53	39.53	0.	0.	0.	0.	0.	0.	0.	0.
III. SURPLUS (1.3) - (2.3)	6.96	6.38	5.80	5.22	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17
IV. CUMULATED SURPLUS	402.44	408.82	414.61	419.83	464.00	508.17	552.34	596.51	640.68	684.85	729.02	773.19
V. DEBT-SERVICE RATIO	1.18	1.16	1.15	1.13	0.	0.	0.	0.	0.	0.	0.	0.

TABLE 7-7 CASH FLOW STATEMENT (47.5)
(MILLION US DOLLAR)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
I. FUNDS SOURCES												
1.1 EXTERNAL SOURCES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
INTERNATIONAL LOAN	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GRANT CONTRIBUT.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.2 INTER. CASH GENER.	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17
OPERATION INCOME	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29
DEPRECIATION	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88
1.3 TOTAL	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17
II. FUNDS APPLICATION												
2.1 INVESTMENT COST	0.	0.	0.	0.	0.	0.	78.69	0.	0.	0.	0.	0.
2.2 DEBT-SERVICE (INTERNATIONAL LOAN)	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
INTEREST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AMORTIZATION	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
2.3 TOTAL	0.	0.	0.	0.	0.	0.	78.69	0.	0.	0.	0.	0.
III. SURPLUS (1.3) - (2.3)	44.17	44.17	44.17	44.17	44.17	44.17	-34.52	44.17	44.17	44.17	44.17	44.17
IV. CUMULATED SURPLUS	817.36	861.53	905.70	949.87	994.04	1038.21	1003.69	1047.86	1092.03	1136.20	1180.37	1224.54
V. DEBT-SERVICE RATIO	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

TABLE 7-7. CASH FLOW STATEMENT (5/5)

	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	TOTAL
(MILLION US DOLLAR)											
I. FUNDS SOURCES											
1.1 EXTERNAL SOURCES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	563.85
INTERNATIONAL LOAN	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	376.11
GRANT CONTRIBUT.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	169.75
1.2 INTER-CASH GENER.	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	2535.57
OPERATION INCOME	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	33.29	1921.72
DEPRECIATION	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	543.85
1.3 TOTAL	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	3079.42
II. FUNDS APPLICATION											
2.1 INVESTMENT COST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	622.54
2.2 DEBT-SERVICE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	790.65
INTEREST	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	416.54
AMORTIZATION	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	374.11
2.3 TOTAL	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1413.18
III. SURPLUS (1.3) - (2.3)	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	44.17	1666.24
IV. CUMULATED SURPLUS	1248.71	1312.88	1357.05	1403.22	1445.39	1489.56	1533.73	1577.90	1622.07	1666.24	37738.56
V. DEBT-SERVICE RATIO (1.2)/(2.2)	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	30.52

FINANCIAL ANALYSIS OF AGOS HYDRO-POWER PROJECT ** NIPPON KOEI OCT. 1980

FIRR = 11.423

D. RATE	SURPLUS	INCOME	PROJECT COST
6.00	422.24	959.90	537.60
6.50	306.63	909.06	542.43
7.00	315.87	863.19	547.31
7.50	209.11	822.19	552.88
8.00	226.14	784.44	558.50
8.50	186.02	750.97	564.55
9.00	149.63	720.03	570.40
9.50	115.07	691.70	576.63
10.00	82.05	665.64	583.03
10.50	52.11	641.70	589.59
11.00	23.74	619.54	596.50
11.50	-4.16	598.99	603.15
12.00	-30.23	579.90	610.13
12.50	-55.15	562.10	617.23
13.00	-78.98	545.64	624.45
13.50	-101.88	529.51	631.80
14.00	-123.94	515.31	639.25
14.50	-145.25	501.57	646.82
15.00	-165.86	488.64	654.50
15.50	-185.86	476.42	662.28
16.00	-205.30	464.88	670.14

JICA