(1977)
Sation
Gauging
Bedukan
Discharge at
Daily Mean

(unit: m³/s)

4.97 13.00 2.31 2.00 1.74 4.50 1.50 1.061 1.73 1.74 4.50 9.49 1.2.53 1.74 1.73 1.74 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25		seur		_						-	-		r
6.45 4.97 13.00 2.31 2.00 4.45 5.18 3.66 6.05 6.05 6.23 6.22 6.22 6.22 6.22 6.22 6.22 6.22	10 W 4 W 4 C B C C C C C C C C C C C C C C C C C	6.43 9.52 12.11 7.67			-	-		-		-			
9.122 4.99 10.61 2.15 1.73 4.19 5.28 5.28 2.01 4.65	0 W 4 W 4 C 6 C 5 C 7 C 7 C 7 C 7 C 7 C 7 C 7 C 7 C 7	9.52 12.11 7.67	1 26**	13.00	2.31	2.00	5.45	5.18	3.66	6.05	6.41	0.37	10.69
7.671 4.30 9.49 1.03 1.74 3.38 5.13 2.79 4.68 9.71 39.83 7.50 2.09 1.92 3.34 4.51 2.87 4.01 4.61 57.17 39.83 7.50 2.09 1.92 3.34 3.51 2.87 4.01 4.61 57.17 39.83 7.50 2.09 1.92 3.52 3.78 2.97 4.01 4.62 20.23 11.30 2.12 2.18 7.71 9.25 2.70 2.92 4.93 2.92 2.92 2.92 3.91 9.22 2.70 2.92 2.92 2.92 2.92 3.91 2.92 2.9	W 4 W 4 C C C C C C C C C C C C C C C C	7.67	1 66.7	10.61	2-15	1.73 1	1 61.7	5,38	3.05	5, 23	18.85	11,36	8.59
7.67 4.50 8.40 1.95 1.83 3.36 4.15 2.64 4.01 1.97 7.67 4.50 8.40 1.92 1.03 3.36 3.36 4.15 2.64 4.01 1.92 3.36 3.36 3.51 2.67 4.01 3.31 2.67 2.09 1.02 3.31 2.67 2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.03	4 N 4 C 8 C 5 C 5 C 5 C 5 C 5 C 5 C 5 C 5 C 5	7.67	4.30	67.6	2.03	1.74	3.38	5,13	2.79	4.58	9.61	10.05	2.60
5.71 36.83 7.56 2.09 1.92 3.34 3.51 2.87 3.41 4.61 57.17 8.28 2.01 4.53 3.53 3.78 2.94 4.12 22.23 11.30 2.15 2.18 2.01 4.02 2.70 4.15 33.28 8.65 1.76 4.24 5.71 7.15 2.48 4.15 33.28 8.65 1.76 4.24 5.70 11.11 5.02 2.77 4.93 11.00 2.12 2.18 2.01 4.24 5.70 11.11 5.02 2.48 5.41 10.03 5.77 2.11 2.50 6.77 2.49 2.25 5.97 11.11 1.93 2.26 2.01 2.25 2.20 2.25 2.21 2.23 2.49 2.15 2.16 2.11 2.25 2.21 2.22 2.22 2.23 2.23 2.25 2.25 2.24 2.23 2.24 2.23 2.24 </td <td>R</td> <td></td> <td>4.50</td> <td>8.40</td> <td>1.95</td> <td>1.83</td> <td>3,36 5</td> <td>4.15</td> <td>2.64</td> <td>4.01</td> <td>8.15</td> <td>1 26.6</td> <td>7.60</td>	R		4.50	8.40	1.95	1.83	3,36 5	4.15	2.64	4.01	8.15	1 26.6	7.60
4.61 57.17 8.28 2.01 4.53 3.53 3.78 2.94 4.02 20.94 8.20 3.91 9.02 2.70 4.55 3.91 9.02 2.70 6.45 33.28 8.05 1.76 6.24 5.70 11.11 5.02 2.70 9.84 11.62 6.49 1.76 6.24 5.70 11.11 5.02 2.37 13.81 6.05 1.76 6.24 5.70 11.11 5.02 2.37 14.19 10.03 5.77 2.11 2.52 8.73 4.99 2.26 54.21 10.03 5.77 2.11 2.92 8.73 4.99 2.15 54.21 10.03 5.77 2.11 2.92 8.73 1.49 2.16 56.21 10.03 5.77 11.44 20.03 9.49 2.70 1.11 12.22 2.22 2.40 11.44 20.03 9.49 3.30 1.83<	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5,71	36.63	7.56.1	5.09	1 26.1	3.34	3.51	2.87	3.41	7.76	10.76	12.21
4.05 20.76 4 3.65 2.57 2.09 3.20 3.91 9.02 2.70 4.15 22.23 11.30 2.12 2.18 7.71 7.15 9.25 2.70 4.45 3.32 20.76 4.65 1.76 4.22 2.18 7.71 7.15 9.25 2.59 2.59 4.95 1.5.02 8.05 1.76 4.24 5.70 11.11 5.02 2.48 2.49 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40	्राच्या स्टब्स १८०० च्या स्टब्स		1 21.13		 0 0			 N U	 	·			i
4.45 33.28 8.60 1.94 2.37 6.73 9.35 5.69 2.48 4.45 33.28 8.60 1.94 2.37 6.73 9.35 5.69 2.48 2.45 33.28 8.60 1.94 2.37 6.73 9.35 5.69 2.48 2.45 11.30 2.58 6.55 8.73 4.99 2.26 14.39 10.03 10.03 5.72 5.95 5.42 7.30 8.07 3.94 2.15 2.26 14.39 10.03 10.03 5.72 5.95 5.14 24.50 11.11 5.02 2.25 14.99 2.26 14.39 10.03 10.03 5.72 5.95 5.14 24.50 12.33 3.49 12.33 1.14 24.50 12.33 3.49 12.33 3.49 12.34 11.40 12.30 13.31 3.49 12.34 11.40 12.30 13.31 3.40 13.30 13.31 11.93 12.30 13.30	- ଅଟେଠ - ୧୯୬୯ - ଅଟେଠ - ୧୯୬୯	N	70.00	77.0	0 11			0.0	0 00		21.15	70.70	7 7
4.45 33.28 6.60 1.76 4.26 5.70 11.11 5.02 2.37 1.40 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.2	ा कुछ स्टूल स्टूल	4	. KC. CC	10.4				7.7	7 K	07.2	67.65	10.74	7
4.93 15:02 6.69 1.76 4.26 5.70 11:11 5:02 2.37 14.19 10:03 5.77 2.11 2.58 6.55 8.73 4.99 2.26 13.81 18.50 5.22 3.95 5.14 24.50 12.33 3.49 2.26 13.81 18.50 5.22 3.95 5.14 24.50 12.33 3.49 2.06 22.20 26.49 5.52 6.06 6.44 11.44 24.50 12.33 3.49 1.09 22.20 26.49 5.52 6.06 6.44 11.44 6.03 13.15 1.35 1.09 15.30 8.34 6.18 4.62 2.63 1.00 6.30 2.42 1.21 15.30 8.34 6.18 4.92 2.03 1.00 8.30 2.60 1.00 10.04 95.79 5.74 2.00 2.59 3.20 1.33 5.50 0.30 10.04 95.79 5.74 2.00 2.59 3.20 1.33 5.50 1.00 11.18 17.22 2.00 2.00 2.20 6.00 6.30 1.00 11.18 17.22 2.00 2.00 2.00 2.20 6.30 1.30 1.30 11.18 17.22 2.00 2.00 2.30 1.00 6.30 1.30 1.30 11.18 17.22 2.00 2.00 2.30 1.00 6.30 1.30 1.30 11.18 17.22 2.00 2.00 2.00 2.30 1.00 6.30 1.30 1.30 11.18 17.22 2.00 2.00 2.00 2.30 1.00 6.30 1.30 1.30 1.30 11.18 17.22 2.00 2.00 2.00 2.30 1.00 6.30 1.30 1.30 1.30 11.18 17.22 2.00 2.00 2.00 2.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1	० च्याम्य च चर्चन	57.7	33.28	4	70.	7 7 7	6. 73		0 0 0	. 67 6	70.00	44.02	20
9.84 11.82 6.49 1.81 2.58 6.55 6.73 4.99 2.26 14.19 10.03 5.72 2.14 2.45 2.45 3.91 3.94 2.15 2.45	ਜ਼ਹਾਨ ਜ਼ਹਾਨ	4.93	15.82	9 0 8	1.76	4.24	2 70	11.11	5.02	2.37	12.25	15,70 1.	9.34
14.19 10.03 5.77 2.11 2.58 6.55 6.73 4.99 2.26 14.19 10.03 5.77 2.11 2.92 7.30 6.07 3.94 2.15 13.41 10.03 5.77 2.11 2.92 7.30 6.07 3.49 2.04 2.15 3.49 2.04 5.02 14.32 13.15 3.71 1.93 3.71 1.93 4.21 12.60 5.10 6.64 5.00 14.32 13.15 3.71 1.93 4.22 2.04 13.15 3.71 1.93 4.22 2.04 13.15 3.71 1.93 4.22 2.05 4.49 2.02 2.02 13.15 2.02 1.51 1.03 4.05 5.22 4.02 2.03 13.73 5.24 1.29 1.20	4 6 4 4	- !	-	- ;	,	-	-	· ·			1	, ,	
14.19 10.03 5.77 2.11 3.92 7.30 8.07 3.94 2.15 54.21 8.10 5.12 3.95 5.14 24.50 12.33 3.71 1.83 54.21 12.60 5.10 6.64 5.00 16.33 13.15 3.71 1.83 23.65 13.79 5.81 4.65 8.05 11.44 20.03 9.49 3.30 1.83 23.65 13.79 5.81 4.65 8.05 19.87 7.42 2.82 1.71 22.20 26.99 5.52 4.65 8.05 19.87 7.42 2.82 1.71 15.30 81.34 6.18 4.65 8.05 19.87 7.42 2.82 1.71 15.30 81.34 6.18 4.22 3.20 13.33 5.57 2.68 1.07 10.04 95.79 5.74 2.70 2.49 10.28 5.40 2.80 1.07 10.04 95.79 5.74 2.70 2.49 10.28 5.40 2.80 1.07 10.04 95.79 5.74 2.70 2.49 10.28 5.40 2.80 1.07 10.04 95.79 5.74 2.70 2.49 10.28 5.40 3.19 0.47 10.04 95.79 5.74 2.70 2.49 10.28 5.40 3.19 0.47 10.04 95.79 5.74 2.70 2.49 10.49 6.29 5.18 7.14 4.49 10.04 2.2.31 3.17 3.99 4.82 6.35 12.03 13.00 3.58 10.04 2.2.31 2.32 2.94 10.05 5.22 9.13 13.00 3.58 10.05 2.30 2.30 2.94 0.09 5.38 14.20 3.69 11.18 17.22 2.92 4.03 10.09 5.22 4.08 14.20 3.69 2.65 14.51 2.55 2.94 0.09 5.38 5.45 0.50 2.65 14.51 2.55 2.94 0.09 5.38 5.45 0.50 2.65 14.52 2.55 2.94 0.97 5.55 12.03 14.20 3.69 2.65 14.52 2.55 2.94 0.97 5.55 12.03 14.20 3.59 2.65 14.52 12.52 7.15 7.14 7.14 7.14 7.14 2.65 14.52 2.55 2.94 3.90 4.48 5.38 3.45 6.50 8.59 2.65 14.52 2.55 2.94 3.90 4.48 5.38 3.45 6.50 8.59 2.65 14.52 2.55 2.94 3.90 2.32 4.48 5.38 3.45 6.50 8.59 2.65 14.52 2.55 2.50 2	2 2 4	9,84	11.82	6.49	1.81	2.58	1 55.9	8.73	1 66.7	2.26	9.83	21.71	8,2
13.04	₩ + + ₩ + + 	14.19	10.03	5.77	2.11	3.92	7 30 4	8.07	3.94 1	2.15	11.34	16.51	7.7
54.21 12.60 5.10 6.64 5.00 16.33 13.15 3.71 1.93 22.16 14.67 5.46 6.30 11.44 20.03 9.49 3.50 1.83 23.66 13.79 5.81 4.65 8.05 18.87 7.42 2.82 1.71 15.30 26.97 5.52 4.06 4.94 11.60 6.30 2.49 1.51 15.30 46.96 5.52 1.00 13.33 5.57 2.49 1.29 15.30 46.96 5.20 2.20 13.33 5.57 2.49 1.29 10.04 95.79 5.74 2.70 2.49 10.28 1.29 1.29 10.04 95.79 5.74 2.70 2.49 10.28 1.50 0.64 10.04 95.79 5.74 2.70 2.49 10.28 1.50 0.64 10.04 95.79 2.40 10.28 2.40 10.49 0.64	14	13.81	6.50	5.22	. 50 · 60	5.14	24.50	12,33	3.49 1	2.04	11.04	13.49	4.0
23.66 13.79 5.81 4.65 8.05 18.87 7.42 2.03 1.71 1.82 1.51 1.52 2.20 2.69 1.52 1.71 1.52 1.52 1.52 1.52 1.52 1.52 1.52 1.5		54.21	12.60	5.10	4.64	5.00 1	16.33	13.15	3-71	1.93	9.48	12.83	6.3
23.66 13.79 5.81 4.65 6.05 19.87 7.42 2.82 1.71 15.50 22.20 26.99 5.52 1 6.05 4.94 11.80 6.30 2.42 1.51 1.50 1.53 1.53 1.55 1.55 1.55 1.55 1.55 1.55	1.5	42.14	14.67	5.46	8.39	11.44	20.03	1 65.6	3.30	1.83	8.37	12.57	9
23.06 13.79 5.81 4.65 8.03 18.87 7.42 2.82 1.71 15.30 81.34 6.18 1.00 1.00 1.25 1.71 15.30 81.34 6.18 1.00 1.00 1.00 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25		-		 .	- :		 - 31 - 31 - 31	-		-	- - -		
13.08	16	23.66	13.79	2.81	4.65	6.03	18.87	7.42	2.85	1 71	15 L	12.29	2 7
15:30 81:34 6:18 4:22 3:45 20:21 6:65 2:49 1:29 13:08 46:96 5:20 2:59 3:20 13:33 5:57 2:68 1:07 10:04 9:79 5:74 2:70 2:49 10:28 5:40 2:60 1:07 10:04 9:79 5:74 2:70 2:49 2:49 2:40 2:40 0:44 7:16 45:96 4:92 2:33 3:26 9:15 5:44 3:19 0:44 10:46 25:31 3:17 3:99 4:42 6:29 5:36 15:09 10:11 10:46 22:21 3:17 3:99 4:42 6:29 5:36 7:16 4:49 11:18 17:22 2:92 4:03 10:49 6:29 5:38 7:16 4:49 6:56 13:77 2:55 2:94 9:97 5:25 12:03 13:40 3:58 6:68 13:77 2:38 2:94 10:05 5:38 13:40 3:58 7:46 4:45 2:31 3:40 3:40 3:40 3:44 13:46 4:45 2:32 3:44 3:44 3:44 3:42 3:44 3	17	22.20	26.99	5.52	90.0	76.5	11.80	6.30	2.42	1.51	9.79	10.35	7
13.08	18	18.30	81.34	6.18	4.22	3.63	20.21	6.65	2.49	1 59 1	60.6	9.07	8
10.04 95.79 5.74 2.70 2.49 10.28 5.40 2.86 0.89	•	13.08	46.96	2.30	50 Cd	3.20	13.33	5.57	2.68	1.07	8.49	7.79 1	7.2
8.33 101.38 4.92 2.83 3.26 9.15 5.64 3.19 0.64 7.16 45.96 4.02 2.08 3.67 9.50 6.03 7.39 0.67 12.42 33.16 3.74 1.82 5.47 8.77 6.34 9.43 16.40 10.46 22.31 3.77 3.99 4.82 8.36 5.73 9.45 10.11 11.18 17.22 2.92 4.03 10.49 6.29 5.36 7.16 4.49 15.65 13.77 2.55 2.94 9.97 5.52 9.13 13.60 3.69 15.65 13.77 2.55 2.94 9.97 5.55 12.03 16.11 3.10 15.65 2.65 2.50 2.29 0.65 5.36 5.45 9.50 14.48 13.77 2.55 2.94 9.77 7.88 14.20 3.69 14.51 2.92 2.94 9.77 7.59 4.48 9.50 14.52 2.55 2.94 9.77 7.59 4.46 6.85 13.14.75 2.55 2.70 2.29 0.65 5.36 4.48 9.50 14.51 3.13 3.13 3.13 3.13 3.13 14.52 3.54 3.54 3.54 3.54 3.54 3.54 3.54 14.54 3.13 3.24 3.24 3.24 3.25 3.24	50	10.04	1 62 56	5.74	2.70	2.49	10.28	5.40	2.86	0.87	8.11	7.54	9.1
7.16 45.96 4.02 2.06 3.47 9.50 6.03 7.39 0.67 7.16 29.42 33.14 1.82 5.32 1 8.36 1 5.36 1 5.39 1 0.47 1 0.44 1 10.42 1 5.32 1 8.36 1 5.72 1 0.43 1 0.45 1 10.46 1 13.12 1 0.43 1 0.43 1 0.44 1 11.18 1 7.22 1 2.92 1 4.03 1 10.49 1 6.29 1 5.38 1 7.16 1 4.49 1 0.48 1 13.77 2.55 2.94 1 0.97 1 5.55 1 12.03 1 13.40 1 3.59 1 0.45 1 0.97 1 5.55 1 12.03 1 13.40 1 3.59 1 0.49		 - - -					 0		 0	à	10 7%		1
8.97 39.47 5.74 1.82 5.47 8.72 6.34 9.43 16.40 17.42 33.16 3.45 17.13 5.32 8.02 5.16 15.09 10.11 17.04 22.31 3.15 3.09 10.11 17.04 17.22 1.09 10.11 17.04 17.32 1.09 10.11 17.04 17.32 1.09 10.11 17.04 17.32 1.09 10.11 17.04 17.32 17.04 17.32 17.04 17.32 17.04 17.32 17.04 17.32 17.04 17.32 17.04 17.32 17.04 17.32 17.04 17.32 17.04 17.32 17.04 17.32 17.04 17.32 17.34 17.34			70 27	- 60.4							10.01		7
10.46 22.31 3.17 3.99 4.82 8.02 5.18 15.09 10.11 11.18 17.22 2.92 4.03 10.49 6.29 5.36 7.16 7.16 7.16 6.49 8.56 14.51 2.73 9.45 5.95 7.16 7	i N	26.8	10.67	, N		27.5	B. 77.	4	0.43	16.40	12.13	7.05	
10.46 22.31 3.17 3.99 4.82 8.36 5.73 9.45 5.95 1.11 1.12 1.7.22 2.92 4.03 10.49 6.29 5.36 7.16 6.49 7.16 6.49 7.16 6.49 7.16 7.16 7.16 6.49 7.16 7.	54	12.42	33.16	3.45	7.13	5.33	8.02	2,10	15.09	10.11	9.62	6,54	9
11.18 17.22 2.92 4.03 10.49 6.29 5.38 7.16 4.49 6.49 6.29 5.38 7.16 4.49 6.49 6.29 6.38 7.16 4.49 6.49 6.48 13.77 2.55 2.94 9.97 5.55 12.03 13.40 3.48 7.10 6.48 12.03 13.40 3.49 6.48 12.03 13.40 3.49 6.48 14.20 3.49 6.48 14.20 3.49 6.48 6.	25		22.33	3.17	3.99	4.82	8.36 1	5.73	9.45	56.5	7.49	6.39	5.7
11.18 17.22 2.92 4.03 10.49 6.29 5.38 7.16 4.49 6.29 6.29 5.38 7.16 4.49 6.29 6.20 13.60 3.58 13.60 3.58 13.60 3.58 13.60 3.58 13.60 3.58 13.60 3.58 13.60 3.69 6.65 13.77 2.55 12.91 10.97 5.75 12.03 14.20 3.69 14.20 3.69 14.20 3.69 15.05 12.05 12.50 12.50 3.69 12.05 12.05 12.50 12.50 3.69 12.05		-	-	-	-		-	-	1	-	-	-	
6.56 14.51 2.73 3.36 10.05 5.22 9.13 13.60 3.58 1.5.65 13.77 2.55 2.94 9.97 5.55 12.03 13.41 3.16 3.16 1.5.65 1.2.03 1.4.20 3.69 1.5.65 1.2.05	26	•	17.22 1	2.92	4.03 !	10.49	6.29	5.18	7.16 1	4.49	7.68 1	8.79	Ŋ
6.68 13.77 2.55 2.94 9.97 5.55 12.03 14.11 3.10 5.65 2.38 2.91 10.91 5.37 7.88 14.20 3.49 6.05 2.50 2.29 6.61 5.38 4.48 6.85 8.59 6.05 2.82 7.59 4.48 6.85 8.59 6.05 2.82 7.59 7.59 7.48 6.85 6.05 7.59 7.59 7.48 6.85 6.05 7.59 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 6.05 7.50	27		14.51	2.73	- en.	10.05	5.22	9 . 13 . 1	13.60	3.58	8.00	13.41	5
5.65 1.2.36 2.91 10.91 5.77 7.68 14.20 3.69 1.5.05 2.05 2.20 2.20 3.65 5.38 5.45 9.50 8.59 1.6.95 1.52.46 2.73.40 2.14.78 1.93.22 112.46 1.35.45	28	6.63	13.77	2.55	2.94	0.97	5.55	12.03 1	18.11	3.10	8.31	16.88	4
5.05 2.50 2.29 8.66 5.38 5.45 9.50 8.59 1.4.08 5.45 9.50 8.59 1.4.08 1.4.0	20	5.65	-	2.38	2.91	10.91	5.77	7.88 1	14.20	3.69	9,33	20.11	4.7
4.95 2.82 7.59 4.48 6.85 1 4.48 6.85 1 1 1 1 1 1 1 1 1	30	2.005	-	2.50	2.29	9.66	5.38	5.45	9.50	8.50	8.61	18.40	4 . 5
= + + + + + + + + + + + + + + + + + + +	31	4.95	-	2.82	-	1.65.7	-	4.48	6.85		8.25	~ '	7.7
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	TOTAL	37.1	017.32	185.63	97.70	152.69	273.80	214.78	193,22	112.46	336.52	353.77	243.90
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	1 1	167.00	132.00	78.00	172.00 1	517.00	- ***	· 有价格等有分类性	***	323.00	104.00	พา
	118-00	174.00	134.00	90.00	144.00 }	****	****	亚长枝并共华长安	****	161 00	119.00	4
_	237.00	186,00		200	- 00 000					73.00	110.00	n 10
	91.00 137.00 237.00 118.00		139.00	123.00	1.58.00 t				***	72.00	133.00	-4 1
1 261.00	119.00 91.00 137.00 118.00	97,00	130.00 1	123.00 1	215.00 1 158.00 1	**************************************	明	1 20.00		33 00		

Daily Mean Discharge at Tomboloi Gauging Station (1971)

130.00 240.00 54.00 57.00 58.00 58.00 58.00 58.00 59	125.00 214.00 124.00 124.00 124.00 124.00 124.00 124.00 125	255.00 1224.00 1139.00 1149.00 145.00 145.00 1109.00 1124.00 1124.00 1161.00 1161.00 1161.00	11155.00 1116.00 11
130.00 244.00 54.0	213.00 214.00 124.00 124.00 124.00 124.00 124.00 124.00 125	215.00 147.00 117.00 115.00 105.00 105.00 115.00 1124.00 110.00 1110.00 1110.00 1110.00 1110.00 1110.00 1110.00 1110.00	11.55.00 11.55.
130.00 114.00 52.00 52.00 72	130.00 240.00 132.00 135.00 136	224,00 115,00 105,00 105,00 163,00 127,00 127,00 1124,	116.00 999.00 116.7.00 116.7.00 117.0
115.00 135.00 52.00 59.00 135.0	113.00 154.00 155	115.00 105.00 105.00 105.00 105.00 110.00 110.00 161.00 161.00	9999000 999900 99900 999000 999000 999000 999000 999000 999000 999000 999000 999000 999000 999000 999000 999000 999000 999000 999000 999000 999000 9990000 999000 999000 999000 999000 999000 999000 999000 999000 9990000 999000 999000 999000 999000 999000 999000 999000 999000 9990000 999000 999000 999000 999000 999000 999000 999000 999000 9990000 999000 999000 999000 999000 999000 999000 999000 999000 9990000 999000 999000 999000 999000 999000 999000 999000 999000 9990000 999000 999000 999000 999000 999000 999000 999000 999000 999000 999000 990000 990000 990000 990000 990000 990000 990000 9900000 990000 990000 990000 990000 990000 990000 990000 990000 99000000
113.00 112.00 50.00 50.00 330.00 112.00 113.00 122.0	113.00 132.00 134.00 135	119.00 110.00 110.00 128.00 127.00 110.00 1285.00 161.00	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
14,00 14,0	206.00 114.00 15.0	105.00 163.00 109.00 109.00 127.00 1124.00 110.00 161.00 161.00	87.00 11.025.00 11.0
1156.00 106.00 4.48.00 53.00 126.00 133.00 135.00 150.00 1	1018.00 106.00 1876.00 1876.00 115.00 125.00	98.00 163.00 173.00 127.00 127.00 1285.00 161.00 177.00	11386.00 113
1255.00 110.00 46.00 45.00 150	1876.00 115.00 1125.00 1125.00 1125.00 1125.00 1125.00 1228.00 1228.00 1225.00 122.00	163.00 109.00 127.00 1124.00 1124.00 1285.00 161.00 179.00	### ##################################
1255.00 1150.00 45.00 65.00 185.00 185.00 15	1255.00 115.00 1255.00 1255.00 116.00 116.00 11255.00 116.00 116.00 116.00 116.00 116.00 116.00 116.00 116.00 116.00 116.00 125.	162.00 127.00 127.00 110.00 161.00 161.00	### ### ##############################
1255 00 119 00 42.00 72.00 93.00 93.00 130.00 120.00 42.00 42.0	2150.00 110.00 1255.00 1255.00 1250.00	127.00 110.00 110.00 110.00 1285.00 161.00 179.00	000
1225.00 122.00 42.00 72.00 150.00 1888888 144.00 122.00 147.00 140.00 14	1225.00 228.00 4.00.	127.00 1124.00 1124.00 1285.00 161.00 179.00	
125 10 12 12 12 12 12 12 12	1259.00 119.00 460.00 950.00 460.00 950.00 555.00 122.00 535.00 221.00 537.00 260.00 267.00 260.00 273.00 121.00 273.00 121.00 273.00 121.00 273.00 121.00 273.00 121.00 273.00 121.00 265.00 121.00 273.00 121.00 274.00 70.00	126.00 126.00 126.00 126.00 126.00 126.00 126.00 126.00 126.00 1279.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1259.00 119.00 42.00 59.00 160.00 18888888 140.00 126.00 43.00 188888888 446.00 93.00 62.00	1259.00 119.00 668.00 106.00 105.00 1	1 124.00 1 110.00 1 2 285.00 1 161.00 1	
10.00 10.00 42.00 57.00 33.00 ******** 10.00 62.00 62.00 84.00 55.00 8	668.00 106.00 564.00 555.00 122.00 555.00 122.00 555.00 122.00 555.00 122.00 555.00 122.00 555.00 122.00 555.00 121.00 555.00 121.00 555.00 121.00 555.00 121.00 555.00 125.00 125.00 125.00 555	1 110,00 H 92,00 H 1 285,00 H 1 161,00 H	**************************************
1,000 93,000 42,000 63,000 33,000 140,000 285,000 62,000 339,000 556,000 340,000 340,000 320,000 3	\$50.00 93.00 550.00 103.00 555.00 122.00 225.	1 285.00 161.00 179.00	# # # # # # # # # # # # # # # # # # #
\$55.00 122.00 42.00 63.00 31.00 31.00 32.00 101.00 265.00 86.00 339.00 255.00 265.00 260.00 42.0	\$55.00 103.00 152.00 122	161.00	M M M M M M M M M M M M M M M M M M M
\$55.00 \$22.00 \$43.00 \$70.00 \$26.00 \$88888888 \$99.00 \$170.00 \$64.00 \$239.00 \$250.00	255.00 122.00 400.00 255.00 221.00 255.00 225.00 225.00 225.00 225.00 225.00 225.00 225.00 225.00 173.00 225.00 173.00 225	1 161.00	% % % % % % % % % % % % % % % % % % %
\$55.00 221.00 44.00 88.00 24.00 ******* 199.00 179.00 76.00 359.00 46.00 265.00	\$35.00 221.00 400.00 265.00 265.00 265.00 273.00 211.00 273.00 121.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 173.00 125	1 179.00 1	0004444444
155.00 221.00 43.00 26.00 188.00 20.00 188.00 179.00 211.00 250.	\$55.00 221.00 400.00 260.00 255.00 260.00 250.00 273.00 121.00 265.00 173.00 265.00 173.00 265.00 173.00 265.00 173.00 265	1 179.00 1	200000000000000000000000000000000000000
100 260,00 560,00 560,00 26,00 18888888 109,00 121,00 76,00 357,00 250,	267.00 265.00 347.00 265.00 337.00 121.00 173.00 121.00 173.00 121.00 173.00 123.00 123.00 265.00 173.00 265.00 173.00 265		200
245.00 265.00 63.00 130.00 120.00 180.00 145.00 165.00 165.00 180.00 18	255.00 265.00 237.00 220.00 237.00 220.00 131.00 205.00 121.00 205.00 125.00 205.00 224	211.00	# # # # # # # # # # # # # # # # # # #
337.00 220.00 201.00 18.00 18.00 18.00 161.00 161.00 171.00 170.	237.00 220.00 245.00 121.00 173.00 1121.00 175.00 125.00 200.00 20	1.65.00	在
273.00 121.00 129.00 132.00 63.00 essesses 106.00 171.00 106.00 weekers 106.00 171.00 129.00 138.00 120.00	273.00 131.00 245.00 121.00 125.00 111.00 125.00 250.00 250.00 274.00 70.00 274.00 70.00 274.00 70.00 274.00 70.00 274.00 70.00 274.00 70.00 274.00 70.00	1.00.191	新
265.00 121.00 129.00 132.00 63.00 8888888 106.00 138.00 106.00 8888888 106.00 138.00 13	245.00 121.00 173.00 173.00 173.00 173.00 26.00 20.00	1 138.00 1 1	**************************************
1245.00 121.00 125.00 125.00 126.00	205.00 111.00 173.00 185.00 185.00 182.00 18		× 10 10 10 10 10 10 10 10 10 10 10 10 10
125.00 1	205.00 111.00 173.00 125.00 12	171.00	
175.00 62.00 62.00 56.00 56.00 74.00 8888888 176.00 342.00 112.00 8888888 155.00 62.00 112.00 8888888 176.00 342.00 112.00 8888888 155.00 126.00 135.00 135.00 146	155.00 82.00 205.00 205.00 82.	138.00	操作器包括单件
125.00 86.00 57.00 4000000000000000000000000000000000	209.00 86.00 200.00 200.00 200.00 70	20.601	
234.00 70.00 47.00 18.00 18.00 18.00 18.00 18.00 135.00 1	214.00 70.00 274.00 72.0	295.00	
214.00 70.00 47.00 sessesse 32.00 sessesse 34.00 187.00 153.00 148.00 110.00 253.00 253.00 sessesse 25.00 sessesse 25.00 148.00 123.00 148.00 123.00 123.00 253.00 253.00 123.00 1	214.00 70.00 274.00 274.00 76.00 263.00 63.00 93.00 157.00	342.00	*****
253.00 75.00 43.00 sersessa 43.00 sersessa 150.00 150.00 148.00 110.00 166.00 253.00 146.00 146.00 16	263.00 76.00 263.00 93.00 1574.50 74.00 75	187.00	****
263.00 71.00 43.00 server 43.00 server 160.00 126.00 293.00 144.00 63.00 63.00 55.00 server 45.00 server 160.00 100.00 322.00 121.00 123.00 1	263.00 71.00 1 10 1 10 1 10 1 10 1 1	149.00	170.00
63.00 46.00 seesement 45.00 seesement 160.00 108.00 322.00 121.00 135.00 40.00 23.00 135.00 105.00 121.00 135.00 121.00 135.00 121.00 121.00 135.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 121.00 122.00	63.00 63.00	126.00	144.00
93.00 55.00 100	93.00 63.00 115745.00 4.081	108.00	121.00 4
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terrespondent to the state of t	115745.00 1 4081.00 1 41828 1 4081 1		-
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561.25 131.65 60.27 ***********************************	+ 1		
142.16 561.25 331.65 60.27 ******** ******* ******* ******	142,16 561,25 131,65 encourage	THE STATE OF THE S	. H
ителения при	* 计分时行动 计分子分割 医克内内氏征 10 以外的 1	162.23	******
用于其代目的目的由于自由的自由性的自由于自由的自然基础的自由的是一种,但是是自由的自由的是一种,但是是是是一种的一种,是是一种的一种,是一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一	278.00 (2150.00 (265.00 (201.00) 132.00 (330.00)		367.00
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	一条条件的计算 计图片存储器	1 00.16	

Daily Mean Discharge at Tomboloi Gauging Station (1972)

	11 0 0 0)	, 10 to 10 t) II	***************************************			- 04-140 148414111111111111111111111111111111	- 54.000 - 54.000 - 64.000 - 64.000 - 64.000	- 700 · 000		MAXIMOM - DVI
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111111111111111111111111111111111111111	107.49	163.62	148.35	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	11年		118.66	- 09 X0	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	- 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M	091411111111111111111111111111111111111
2936.70	3224.70	5072.30	4450.40		936.40	2127.80	3678.60	2778.10	2866.50	3680.20	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL 6582
11 11 11 11 11 11 11 11 11 11 11 11 11	10 B	- + H			E E E E E E E E E E E E E E E E E E E				~ 1			
36.3	- -	332.30	-	125.90	85.00	- - - - -	192.60	7	233.40	-	129.50	31
35.9	00.66	144.40	159.10	168.00	24.00	39.50	215.30	33.70	180.80		107.30	9
36.2	83.70-	90.70	179.80	219.80	24.70	38.50	143.30	34.50	63.40	99.30	1 106.60	29
40.4	98.10	74.60	254.20	115-10	27.00	53.90	100.30	35.60 1	03.59	116.50	106,20	28
46.1	110.80	51.50	258.10	165.00	25.30	41.40	123.70	38.60	77.70	150,70	118.10	27
55.20	103.20	62.50	307.10	216.00	25.60	1 05-07	125.70	05.67	90.80	219.10	140.10	26
84.2	135.90	67.70	297.70	159.60	27.60	06.77	126.70	71.10	115.90	286.00	158.10	ı,
40.8	213.10	70,60	263.80.1	79.20	27.00	51.90	159.90	43.50	229.00	203.20	203.70	5.7
45.00	274.70	105-00	172.50 1	51.20	31.70	61.60	153.60	41.70	96.20	135.00	1 254.90	23
74.70	91.90	79.80	199.90	64.60	30.80	1 07-85	164.50	1 08.07	89.60	159.70	260.80	22
46.30	72.30	75.30	183.00	85.40	36.70	53.40	159.90	43.50	110.20	90.50	295.40	27
76.30	70.20	83.60	130.70	73.60	43.30	52.70	221.20	49.10	133.00	95.40	368.30	50
51.4	87.80	89.00	163.40	105-501	36.50	65.60	134.40	57.40	98.60	111.60	269.90	19
50.30	93.00	100.60	145.90	175.80	71.30	65.20	120.00	51.50	122.10	202.30	651.40	18
52.90	124.60	121.60 1	74.20	52.40	42.40	88.70	80.50	63.40 1	53.90	193.90	288.50 1	17
59.40	119.50	169.10	74.90	****	26.30	60.40	78.80	54.30	47.80	53.60	146.30	16
65.60	81.50	230.30	71.50	50.10	23.80	54.20	79.80	29.40	49.50	53.20	147.90	5
71.10	70.70	208.90	86.60	44.70	23.00	62.70 1	84.80	63.50 1	26.10	56.70 (80.00	14
73.30	84.30	194.90 1	75.60	44.00	23,10 6	81.70	76.40	73.40	57.20	60.30	83.10	13
83.40	168.80	213.00	74.30	52.60	24.00	99.00	117.60	84.30	66.80	48.90	91.00	12
97.80	102.70	264.70 1	86.70	82.10	25.00	88.40	105 20	1 06.66	62.90	79.70	97.90	11
153.50	66.20	313.60	95.80	83.40	25.60	74.40	142.60	143.50	66.80	75.70	111.00	0,
161.60	71.40	264.50 1	1 06.96	73.50	26.80	84.50	166.00	113.60	73.80	1 00.62	131.30	•
105.70	78.50	272.40	124.20	43.20	28,30	128.90	120.30	96.20 1	84,80	86.30	159.40	-
101.90	104.90	255.50	111.70	28.00	27.60 1	116.60	108.40	94.70	85,20	96.50	161.50	~
116.40	81.70	234.00	180.80	29.80	27.80	91.50	64.60	109.70	79.20	112.30	206.80	- ~- •0
163.80	73.30	172,30	113.20	45.80	28.50	76.50	79.00	137.70	61.70	143.10	330.10	ın
158.40	83.40	207.50 1	116.40	35.50	30.10	97.40	68.10	192.40	1 06.39	164.60	248.00	
201.50	101.40	.182.50	117.30	23.20	36.30 1	16.40	72.10	216.30 ;	72.90	152.50	225.70	m
226,40		181.50	117.40	23.10	31.40 1	79.30	58.20	244.20	82.30	146.10	217.50	2
401.40	127.00					21.11	35.10	341.10	93.80	188.50	386.00	
	150.40	158.00 1	117.70	21.60	37.80				· · ·			

AVERAGE - MAXHAGK - MHNHAGK

Daily Mean Discharge at Tomboloi Gauging Station (1973)

50 KJ				# # # # # # # # # # # # # # # # # # #	1					2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
-1·(1)			_				-	-		1		6
ભ	1 57.50	21.50	-	15.70	134.70	·-	_	*******	52.40	285.00	351.70	113,80
	62.90	21.10	***	14.00	1 . 112.60		1 148,30	- 我我看着我我我	68.40	212.00	291.70	91.10
m	1 45.00	21,10	**************************************	22.50	73.80	; ,	163.20	一种安全和政务条件	144.10	171:10	288.00	85.30
4	1 117.60 1	20.50		36.30	83.50	1 59.00	1 109:30	********	125.90	261.90	297.50	30.50
<u>.</u>	1 77.30	20.20		24.60	1 74.90	***	1 92,50	****	156.70	165.20	237,90	76.60
					: :	1 1 1 1	1. 1. 1.	:		•		
40	126.00 1	19.60	-	18.20	55.20	***	17.80	· 务员分类等者会会—	254.90	169.50	162.10	84,80
7	1 83 70	19,10	_	15.00	101.90	_	经营业业务等等等 《	***	153 00	132,30	337.60	76.80
ø	1 60.70	18.80		14.10	125.60	1 31.30	. 经基础条件基础 . C		129.40	114.00	332.00 1	79.10
o	1 09.05	20.10	***	13.80	131.30	1 32.20	****	*******	123.00	134.50	199.20	64.50
20	1 45,50	19.20	****	12.50	166.80	1 29.70	1 ********	******	152.30	126.80	166.30	57,70
	-		-		-	- · · · · · · · · · · · · · · · · · · ·		- :		-		
₽4 ¥4	1 41.20	18,50	****	12.00	1 130,90	39.60	· · · · · · · · · · · · · · · · · · ·		212.50	117.90.1	140.20	52,30
12	1 37.70 1	18.20	*****	14.00	1 92.40	. -	金田安安安安安 人	1 159,30 1	278.20	133.70	183,00	48.20
13	1 34.70	18.90	-	13.90	94:40	_	****	120.90	172.00	122.40	123.90	46.70
4.	34.30	22.30		14.90	90.80	1 27.70	*******	95.80	266.30	139.30	104.60	46.10
Ş	1 46.20	25.50	13.80	22.50	82,10	1 25.40		1 105.10	417.90	118.40	89.60	78,10
	-		_	:		_	-	-		•	_	٠.
91	37.40	22.40	_	22.60	08.09	1 24.40	· · · · · · · · · · · · · · · · · · ·	94.60	653.80	121.50	91.70	61.00
7.	32.80	20.70	13.20	22.00	1 51,70	-	公安安安安安公 (1 82.80 1	476.90	109.401	185.10	81.80
16	29.40	19.10	_	38.90	48.10	<u>.</u>	******	63.60	399.70	85.30	155.70	103.20
4	1 27.90 1	18,20	15.70	63.10	05.67	_	· · · · · · · · · · · · · · · · · · ·	1 53.20 1	260.60	91.10	187.20	78.70
20	1 26.60 1	17.70	14.00	72.00	1 79.50	_	*****	1 45.40 1	267.00	85.10	124.40	67,10
			_		· ·	_		-	٠		-	
21	1 25,70 1	19,10	_	41.50	117.00	1 51.30	· · · · · · · · · · · · · · · · · · ·	40.10	180.60	81.60	114.00	64,50
22	1 26.80 1	18,40	_	41.20	74.80	1 . 64.20	*****	35.40	176.50	1 09.69	108.10	100.20
23	1 25,40 1	17.30	1 23.10	80.50	61.00	1 85.60	*****	32:30	153.00	79.20	95.30	70.00
54	1 24.10	15.90	-	94.20	84.40	1 78.30	******	31.10	297.60	74.50 1	92.20	60.30
2.5	1 23.90 1	15.40	1 15.70	61,20	78.40	1 58.80	技术技术技术者 八	36.10	457.00	73.70	101.50	76.00
	_		_		-	1 - 1	-			-	-	_
56	1 23.40	15,40	13.80	51.60	29.90	1 53,50	· 一年年年本年代代表	1 40.30	246.60	61.00	230.10	115.80
27	1 23.70	14.50	12.60	53.10	58.70	1 53.50	*******	31.30	530.90	68.20	170.90	93.60
2B	1 23.00.1	14.30	12.60	86.10	1 59.30	70.20		42.70	349.90	130.60	122.70	269.50
55	1 22.20 1		12.90	184.40	04.84	1 50.90	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	34.60	404.00	142.80	100.40	173.50
30	21.50		12.60	173,30	1 42.90	132.80	在安全在在安全中 (30.30	345,30	118.90	119,90	305.10
3.5	1 21,00 1		13.60	_	51,50	·	****	59.80		112.20		248.20
	_		_					_				,
	**************	# H & n I. & D !!		*********	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	19 十年年11 日日 日本	***	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HENNINGE.	*************	11 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14	***************************************
TOTAL		533,00	****	1349.70	2566.80	***	***	- 每年董董寺委员会	8396.40	3908.70 1	5304.60	3050.10
AVERAGE !	1 43.09 1	19.04		66.99	82.80	-	· 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*****	279.88	126.09 1	176.82	98.39
A WAXIMUM +	######################################	25.50	8+0K#EKBB##+	184.40	1,56.80	154 m b m m m m m m m m m m m m m m m m m	**************************************	**************************************	746.60	- 285.00 -	351.70 I	+00222222 305-10
100000000000000000000000000000000000000		******	十九年 日日日 日日 日日 日十二十日	*********	十八万年四十二十八万十二十八万十八万十八万十八万十八万十八万十八万十八万十八万十八万十八万十八万十八万十	444444444	计计划时时经济设备证据的证据证明的证据证据的证据证明证明的证据的证明证明证明	***************************************	日 注 日 林 田 林 田 林 田	11日日日日日本公日以中	+ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 11 11 11 11 11 11 11 11 11 11 11
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2 1 201.60 3 3 145.70 4 237.70 5 1 155.90 7 175.20	1 188.70	†	+ * * * * * * * * * * * * * * * * * * *	***************************************	- 00 7 00 -	0 + 11 4 11 11 11 11 11 11 11 11 11 11 11 1			# H C C C C C C C C C C C C C C C C C C	# : #	11 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15
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		-	****		1 96.50	165,50 1	131.20	50.10	82.30	44.70	44.20
	_	英格兰女子女子女 へ	*****		1 83.00	125.70	199.70	50.50	113.60	43.00	227.00
	70 1 124.90	计长务条件条件 八	****	- 表并关关的分类表	74.80.1	100.50	145.80	45.20	129.60	40.10	91.90
	40 1 303.10	· · · · · · · · · · · · · · · · · · ·	****	*******	06.09	32,90 !	152.70	40.20	147.60	37,70	64.50
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	_	****	*****	*****	1.08.95	1 05.69	164.50	45.70	157,30 (1 00.07	87.20
-	20 1 162.00	_	****		52,40	62.60	129.50	38.70	123,40	37.30	63.80
		********	****	******	50,20	56.80	95.40	39.10	119.70 1	35.10	58.60
9 248.6	. -	****	医鱼类的大块	****	45.20	52.90	79.70	36.80	69.30	33.60	186,50
_	_	_	*******	*****	48,10	~ 09.64	71.80	36.90	72.10	31.70	134.60
		-	_		-	}) }				
11 1 236.8	80 1 157.30	计分类处理关系共 八	经基外债券等的	****	50.20	52.60	62.60	33.70	61.70	37.60	254.50
12 1 174.90	_	*****	神经景景景景等	1 88.00	43.20	108.60	56.60	32.00	75.20	39.10	118.30
-	*	*****	****	71.00	45.30	1 273.30 1	55.30	29.40	100.90	61.30	98.20
14 117,60	******* 09	新安全有效的条件。 · ·	学品餐房长老长老	62.10	1 56.60	135.30 8	50.50	30.70	77.80 1	46.50	104.50
15 98.70	70 ******* 07	***	****	119.20	05.05 1	1 210.50 1	45.70	43.50	61.40	41.30	86.40
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	******* 08	***	计图号操作 经存货	142.20	1 51,40	108.10	75.90	49.50	55.00	228.40	86.20
17 (84.80	B) (******	· 原外表有有的	****	1 131.70	1 48.70	134.90	41.30	53.20	51.30	76.30	68.20
-	****	计关列法师经济关 证。 4	****	1 526.10	. 55,10	1 201.00 1	39,50	37.40	1 07.52	57.40	63.50
-	*******! 07	计算机计算机 计二十二	国教教教教教教	1 302.30	52.90	1 161.10 1	39.40	35.60	220.80	48.70	193.30
20 1 115.70	70	*****	计会员在非常的的	1 278.60	1 72.70	1 172.50	44.20	59.20	88.90	57.00	124.00
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~	-	_	母母 医传染体关节 ~	1 233,10	83.90	142.10 1	76.20	126.00	72.40	44.60	90.70
22 17.5.90	_ `	_	***	249.90	83.10	109.80 1	96.00	97.40	26.70	83.90	64.90
_	_	*****	****	299.00	112,40	1 05:56	75.00	129.60	51.10	101.30	27.40
		·		204.602	126.30	06.49	09.9	00.00	06.84	07.77	10.20
25 80.80	*****	特别的 医牙状丛		176.50	328.60	1 07.77	00.00	123.60	00.97	00.00	74.50
	****	***	· · · · · · · · · · · · · · · · · · ·	176.10	OK . 28%	A7.10	A1 . BO	146.20	1 05 27	מאייאט	48.70
	-	****	在 共 体 是 关 长 本 六	203.10	441.70	73.60	134.40	149.70	56.30	06-24	114.60
28 1 90.90		* -*****	******	299.10	190.60	1 67.50	73.30	101.20	44.60	43.60	158.70
	1 02	***	****	153.30	150.20	1 66.20	09-56	117.80	40.50	48.90	98.50
_	O	***	****	107.50	218.00	1 101.70 1	71.50	108.20 (40.80	42.60	83.70
	10.1	****	-	90.80	-	1 . 109.20 1	96.00	- - - - - - - - - - - - - - - - - - -	24.40		70.00
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11 11 11	11日本中日日日本年日日	计计划的自己技术以中的的	经存货 计计算符号 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	14世纪日代日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日	十二年 四十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	+ 80 8 8 4 4 4 6 6 6 7	****************	十分 医肾化红素 化苯基	*************************************	100000000000000000000000000000000000000	作品有效的的商品
TOTAL 1 4854.80	80	希伯伯特特别是是一一条	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	3299.80	3663.00	2700.00	2240.90	2545.20	1687.80	3178.50
AVERAGE 156.0	156.61 ***********************************	*********	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・		109.99	1 118.16	87.10	1 02.47	82.10 3	56.26	102.53
20 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	THE STREET STREET STREET	10年4日11日日日日日 	14 公文司 医自己 医二氏	1+111111111111111111111111111111111111		+ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+ 00 . 00 .		**************************************	4 W W W W W W W W W W W W W W W W W W W	05.226 1966
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	****				43.20	43.20 49.60	39.40	29.40	40.50	31.70 44.20	44.20
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		:		***	医保护性 经存货价格 经存货的 医医疗性	*********	电影电影电影电影电影	*********	- 电电子管管电池	经营业条件的基本条件	*****
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				西西西班里长彩景	计型电缆 医黄芩 医骨骨	****	了我是被重新的 医无囊膜	~ * * * * * * * * * * * *	医无线性性性	****	日本日本日本日本日本

Daily Mean Discharge at Tomboloi Gauging Station (1975)

-	"好小村村和北村村村村村的	中部 计自己 计同位记录	- 医医院检验检验检验	N M M M M M M M M M M M M M M M M M M M	*************************************		十年 11年 11年 11年 11年 11年 11年 11年 11年 11年 1					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
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1	73.20	80.70	119.70	71.20	1 40.70	143.30	85.60	75.80 1	138.80	380.50	81.10	243.40
27	96.70	73.70	210.10	51.60	37.10	141.70	45.60	66.40	118.20	251.10	103.10	146.60
 (A	215.00	60.70	226.70 1	54.10	38.60	142.20	62.30	1 06.65	96.80	186.10	150.00	130.90
7	127.10 1	53.80	292.70	61.80	111.50	194.80	55.20	55.00	128.10	164.40	152.90	122,20
<u> </u>	105.60	50.20	183.60	34.20	1 68.30	265.80	54.50	53.30	128.60	161.90	131.80	101.50
-		7			-		-	-	•	-		
- 9	621.10	46.20	163.80	73.80	1 86.30 1	188.30	52.80	53.80	126.80	184.30	191.00	130.00
7	401.50	43.60	132.80	57.60	116.20	178.80	58.00	48.40	170.10	269.70	183.70	110.80
60	258.80	42.60	109.80	08.67	117.10	155.00	86.00	45.60	127.70	239.00	208.80	112.20
- 6	372.40	41.10	95.60	44.80	1 195.70	108.60	81.50	43.60 1	135.20	369,30	190.10	92.40
	258.70 +	39.20	85.10	41.50	1 161.60	101-10	83.80	79.60	152.70	-	148.40	85.20
	-	-	-			-		-			-	٠.
11	405.90	36.90	90.70	38.30	183.20	131.70	85.80	87.00	260.70	1. 美马林林林林林	156.80	76.20
12	274.40	36.10	77.00 1	36.70	186.20	114.60	60.10	50.50	278.00	162.80	106.10	128.90
13	185.60	34.90	1 07.99	35.40	315.20	81.40	52.40	42,80	212.30	145.40	168.90	297.10
- 9	1 06.571	34.90	59.70	37.80	505.00	70.20	109.20	39.70	199 80	154.90	202.40	17B.80
ų	00 071	4 00 79	200.40	40.40	441 60	2 2 2 7	10,401	1 VY 37	76.0	110.10	144.40	167.00
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	247	47.50	67.40	K	00.368	, 00 × 4	278 40	74.00	154.40	112.80	02.485	269.20
1 9			, CM .	2 4 6	200. 20	20.00	0000	07 086	HE 2 . 20	07 70	408	441.70
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1.4	102.40	94.04	07-627	00.00		105.501	22.027	0/1071	00.012		20,110	200
	102.70	02.50	04.78	20,20	**************************************	84.50	149.40	144.90	196.00	01-6/	00*/0	464.
	00	4 60 073		N N	400	6 4	0.4	. 02	04	e e	00	248.40
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	07 70	07.077	08.974	70.40	202.00	200	114.50	25.3.70	05.416	103.40	79.10	156.20
	70	411.40	139.10	34.90	219.70	24.60	04.40	288.10	07 626	91.40	250.00	188.40
7	77.80	1 07.965	100.70	30.00	158,80	52.30	97.20	159.30	290.10	65.20	136.90	216.00
- !	-		_		-	_	-	-		_	_	_
26	1 07.69	277.20	79.10	27.00	128.30	57.50 1	96.50	140.00	186.30	60.40	125.10	157,00
27	69.00	179.20	68.10	55.60	1 306.50	68.70	101.70	108.20	169.00	1 86.60 1	167.00	135.10
28	62.80	140.00	60.40	25.50	126.00	80.00	140.00	98.50	385.20	111.60	136.80	119.40
29	1 09.99	_	55.40	31.70	183,90	72.40	199.10	88.10 [553.50	1 90.50 1	203.00	254.20
30	55.80	_	52.20	54.60	1 121.70	103.60	110.60	100.10	404.10	1 07.64	347.20	337.90
33	65.20	-	55.90 1		127.50		87.90	182.80		1 69,30 1		*****
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TOTAL	5444,40	4156.90	3338.90		1296.90 Destates	3280.50		3573.00 1	6475.70		4465.90	· · · · · · · · · · · · · · · · · · ·
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-	175.63	148.46	107.71	43.23	***	109.25	112.12	115.26	219.60		146.60	
TANKARAHAN - WINKING - WINKING	621.10	596.40	292.70	84,20	556.30	- 08.854 - 08.80	1.06-176	314.90	553.50	380.50	347.20	
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	55.80	34.90	52.20	25.50	*******	52.30	52.40	39.70	96.80		79.10	*******
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	54.83	_	-	-		_	_				-	
		189.67	46.03	40.68	76.18	47.91 1	49.81	52.66	89.52	31.02	114.42	70
	48.89	182.49	43.58	77.57	54.81	42.46	50.83	53.77	92.27	29.42	107.86	6
- -	19.14	130.04	1 28.07	37,75	73.31	38.75	63.49	75.96	79.07	30 53 1	136.37	96.35
-	00.27	111.46	42.08	36.09	94.82	39.47	95.82	108.54	64.67	61.95	250.11	43.54
•	87.91	96.80	41.96	1 08.67	114.49	54.91	51.82	77.75	73.05	57.73	163.09	55.60
	4 . CA	47.					- : :	-	-:	-	=	
		0	00.00	40119	01:40	76.94	43.67	61.20	26.00	38.44	140.87	51.10
	00.00	10.	000	53.27	130.93	107.63	94. 71	49.38	49.82	39.92	204.07	54.36
	29.79	73.96	43.59	61.17	101.20	85.41	1 77 26	43.51	44.79	70.43	283.74	53.97
	1 09.66	68.16	64.05	76.89	86.04	104.51	82.77	40.00	42.77	1 67.79	202.19	46.41
	78.95	63.16	134.00	72.04	98.17	83.19	114.55	37.70	44.06	56.42	230.88	46.47
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	73.17	68.51	81.40	44.68	169.57	102.30	135.55	38.72	41.89	62:43	401.07	49.39
12.	27.15	91.43	57.73	40.38	159.08	81.69	128.41	58.68	37.46	46.47	207.05	43.46
	215.29 1	101.96 :	49,32	19.36	147.71	92.27	129.65	47.70	35.63	44.17	156.78	53.90
	131,80	93.22	44.29	71.02	101.87	74.30	136.86	41.52	34.51	52.17	160.54	48.06
-	107.00	68.89	41.14	150.95	122.37	59,33	86.86	57.81	32.90	117.37	130.16	42.86
	-	-	-	-	-	-	_		_	•	-	
-	110.85	61.56	38.47	142.34	147.20	53.07	95.98	103.06	31.59	119.97	131.24	3967
-	139.40	56.89	37:03	81.77	139.92	45.80	68.59	100.39	32.26	79.51	102.45	40.04
-	101.77	54.08	38.06	68.41	93.86	42.89	60.91	132,45	33.68	112.20	93.94	41,00
19 1 17	143.79	50.78 1	1 70.17	58.72	75.80	44.05	61.75	97.36	30.40	135,19	97.16	45.15
-	113.21	48.32	39.53	20.94	84.13	38.62	50.07	95.23	31.49	115.49	79.62	80.16
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	100.02	1 69 57	41.36 1	45.25	26.05	37.94	44.71.1	71.67	1 99.07	148.89	72.40	202.33
22	1 55.76	49.30	76:17 1	41.60 1	55.32	38:13	43.86 1	60.20	41.65	134.81	75.64	114.18
-	86.36	60.03	48.63	41.72	114.77. -	46.33	50.61	108.06	46.33	179.04	77.24	83.20
_	246.45	51:14 (38:41	42.26	61.62	43.89 1	51.40	88.18	154.45	145.43	96.35	91.89
	60.18	53.00	36,0%	43.04	48.48	41.89 1	55.48	62.33	78.40	215.23	117.31	172.24
		~		-:	 :	-	-,		-		2000	!
55	955.85	50:23	34.84	76.28	43.51	64.58	43.37	53.52	47.41	155.36	64.79	196.05
	508.75	55.45	35.09	53.87	40.53	37.42	53.89	154.52	38.92	107.41	88.17	215.70
28 - 45	420.06	57.59	36.02	48.32	37.84	32.93	79.53	74.63.1	35,32	129.40	72.47	133.04
	270.40	49:32	42.31	63.29	41.20	43.34	52.53	117,11	36.44	175.31	84.69	128.33
-	213.37	-	48.75	60.31	41:27	59.20	56.35	162.06	33.26	168.94	96.23	123.60
**	75.13	-	50.34	_	40.10	-	53.50	106.32		158.96	-	93.69
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11 11 11 11 11 11 11 11 11 11 11 11 11	11 + 11 + 11 + 11 + 11 + 11 + 11 + 11	11	# + + + + + + + + + + + + + + + + + + +	+ H H H H H H H H H H H H H H H H H H H	***************************************	中间 医阴道性神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经神经	二十品 经 经 经 经 经 经 经 经 经 经 经 经 经 经 经 经 经 经 经	+ 0 16 16 16 16 16 16 16 16 16 16 16 16 16	+11111111111111111111111111111111111111	***************************************	***************************************	11 15 16 11 11 11 11
	44.50 L	2249.45	1512.90	1825 79	2731.18	1783.15	2282.77	2431.99	1531.37	3084.10	4271.08	2594.45
AVERAGE 1 198.2	98.20	72.57	48.80	60.86	86.10	59.44	73.64	78.45	51.05	99.49	142.37	83.69
MAXIMUM I 955.8	58.85	189.67 1	134.00 1	150.95	169.57	107.63	136.86 :	162.06	154.45	215.23	101107	202.33
MINIMUM 1 72.0	72.03	45.69 1	34.04	36.09	37.84 - 48. C	32.93	488860	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30.40	29.42	72.40	39.67

Daily Mean Discharge at Tomboloi Gauging Station (1977)

+11111111111111111111111111111111111111	140454141	**********	小红红灰石墨西哥印盖拉牛	11 12 12 12 12 12 12 12 12 12 12 12 12 1	◆国外联邦和国公司1	十二年 计 以	多型四四 男似 伊尔 打刀上	東北の田気が江口の十	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	444144444	*********
*****	24.90	06.07		61.43	68.75	82,70	-	- 4	*	***	52,4	MUMINIM
309.52 I 261.93	309.52 I	352.80	1 104.27	439.22	220.39	361.47 ;	201.41	1 135.42	1 149,63 1	4 1638.54 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	685.84	MAXIMUM I 685.8
+ 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4	159.26	128.97 1	一 经营业的证券的	157.31	127.39	189,87 (一		一 华 安 安 安 安 安 安 安 安 安 安 安 安 安 安 安 安 安 安		135.65	AVERAGE 135.6
新年本年本年本年 100 100 100 100 100 100 100 100 100 10	4777.77 TT-177.77	3998.18	- *************************************	4876.49	3949.09	5696,08	中国教育者教育教育。	医维生物经检查 医多种性性神经性神经性 化医疗性坏疽		P	4205.00	TOTAL
 	11 11 13 14 18 18 18 18 18				_ +18441111111111111111111111111111111111	~ + 20 mm	_ *************************************				######################################	- # H H H H
****		134.35	-:	133.27	82.86	_	125.28		53.37		1 50.31	33
*********	245.55	114.04	42.79	165.95	101.53	183.69	156.41	1 60.66	52.31		90.60	30
*******	151.38	160.45	40.55	264.66	183,70	144.29	187.03	135.42	54.59		104.00	5.6
*****	150.32	95.70	41.56	348.87	207.31	109.44	150.71	46.64	59.62	****	120.34	28
****	109.45	107.74	62.38	170.34	108.27	123.16	187.72	440.00	69.99	***	198.18	92
	•			1		-		_				
	75.67	164.89		519.00	83.07	101.22	118.80	神経 神経 中の 中日 一	65.45	· · · · · · · · · · · · · · · · · · ·	1 247.53	
****	74.90	193.30	***	188.45	105.11	214.45	144.82		74.10	****		
*******	80.18	195.93	*****	94.71	137.30	228,45	116.14	*****	00.42	*****	1 87.78	22
***	85.82	352.80	*****	86.30	79.00	322,05	95.66	****	117.52	1633,54	100.84	
***	97.26	79.96	***	81.17	68.75	220.29	64.65	****	94.25	788.97	120.48	02
***	99.08	100.19	******	87.54	75.16	279.90	65.47	***	83.63	1 809.92	152.30	1.0
*****	116.93	56.01	2000年 1000年	82.07	47.14	1 72.138	78.61	*******	76.97	1120.15		
*****	197.46	112.82		25.08	111.06	318,77	160.37		00.43	162.22	225.59	2
_		••	- - - -	-:	-	-	_	:		•	_	-
1 114.46	166.20	133.26	安林特别的存在位	99.66	140.62	195,27	201.41	****	1 86.57	244,34	1 685.84	15
136.41	100.01	126.78	****	181.17	213.30	745.64	132.45	· · · · · · · · · · · · · · · · · · ·	90.51	011011	144.55	1 1
1 167.26	309.52	170.55	· · · · · · · · · · · · · · · · · · ·	123	138.16	167:05	63.58	· 一种 · · · · · · · · · · · · · · · · · ·	114.79	1 219.26	1 86.67	2 !
124.96	230.66	105.39	- 新秋春本春春春	163.60	217.13	170,14	99.77	*******	1, 129,43	1 265.17	1 55.27	- 됐
149.0	20.202				250.37	11/2:44	61.60	À	50.14.7	40.00	*	•
222.98	233-16	127.04	***	226.05	111,36	230.64	46.42	. 46.07	139.73	732.69	52.47	- ·
1. 170.52	269.63	172.99	******	212.56	107.59	255.22	38.04	1 44.03	*****	1 400.90	1 56.37	8
1 237.46	197.45	179.18		212.68	124.98	159,95	48.87	1. 42.77	****	532.44	1 61.11	_
1 261.93	193.33	78.21	- 接触异种及分类类	113.16	86.95	147.48	35.49	1 44.27	***	1038.37	1 68,61	•
1 93.62	140.25	79.17	***	65.69	86.12	82.70 1	38.26	47.39	***	1 457,30	1 79.40	a)
89:59	124.61	47.51	67.64	61.76	99.92	100:92	1 69:07	1 68.77	*****	61.77	98.76	. 4
96.98	160.10	06.07	78.07	63,55	131.59	87,99	44.68	1 47.31	******	62.89	147.34	, MI
77-161	122.97	168.18	104.27	69.87	150.19	124.79	20.17	90.90		15.64	100.50	~ 6
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INVESTMENT I AVERAGE I MAXIMUM I MINIMUM I A N O N O N III

(1977)
Station
auging
ampias G
Discharge
Mean
Daily

(unit: m³/s)

7.000 7.11111111111111111111111111111111				***** 6	0000000 00000 000000000000000000000000	2010 2010	73.26 73.26 73.26 73.26 73.68 74.00 74.00 75.73 77.20 109.30 1169.69 1169.69 1169.69 1169.69 1169.69 1169.69 1169.69 1169.69	137.35 157.69 157.69 159.46 175.27 175.27 176.16 199.31 191.59 176.60 173.65 176.45 176.45	127.01 106.45 91.82 131.60 239.22 239.22 135.92 166.43 166.43 166.43 166.43 166.43 166.43 166.43 166.43 166.00 105.00
				* * * * * * * * * * * * * * * * * * *	2000 00 00 00 00 00 00 00 00 00 00 00 00	20.000 90.0000 90.00	73.26 79.26 67.68 67.68 110.77 196.73 146.83 146.83 149.89 172.64 17	137.35 157.69 152.45 152.45 175.27 175.27 176.16 166.76 166.05 176.05 176.05 176.05 176.05 176.05 176.05 176.05 176.05	105.45 90.45 131.82 131.82 131.82 135.92 165.92 167.45 166.43
				***** **** **** **** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** **	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	103.06 87.08 87.08 76.07 76.07 88.09 88.09 77.58 87.39 77.58 77.58 77.58 77.58	73.26 67.99 67.99 67.99 110.77 196.73 140.69 129.99 172.46 127.66 127.68 127.68 127.68	157.69 129.46 129.63 127.63 175.27 176.16 190.31 190.31 106.05 176.65 176.65 176.65	106.45 91.48 91.48 131.40 230.22 209.82 108.42 147.45 117.60 105.00 105.00
				***** **** **** **** **** **** ****	Nnn 0000 0000 0nen	92.48 92.48 96.49 96.49 96.49 96.49 96.49 96.49 96.49 96.49 96.49 96.49 96.49 96.49	49.98 67.68 90.06 110.77 140.68 140.68 172.46 172.46 172.46 172.46 172.46 172.46 172.46 172.46 172.46 172.46 173.4	152.15 147.46 147.65 176.16 176.16 196.51 196.05 113.65 113.65 113.65 113.65	99.48 131.62 230.22 209.88 185.92 166.81 167.45 167.45 177.60 105.06
				** 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	20 0444W 04WOV 00000	82.95 6.9.67 6.9.67 6.9.68 8.8.99 8.99 8.90 8.00 8.0	67.68 110.77 110.77 146.68 140.68 172.44 172.44 172.44 172.44 172.44 172.44 172.44 172.44 172.44 173.77	129,46. 175,27 175,27 175,27 190,31 190,31 190,31 173,60 173,65 173,65	131.82 230.22 230.22 209.88 186.81 146.43 146.43 146.43 146.73 105.00 105.00
				** 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.00	110.77 196.73 140.83 140.83 129.95 172.44 172.46 172.46 172.46 172.46 172.46 172.46	175.27 175.27 176.16 1206.76 1919.53 1101.22 1213.20 176.45 176.45	230.22 209.88 188.92 188.92 187.80 157.80 157.80 158.79 17.60 105.06
				4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6.9.4.4.6.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.	110.77 196.73 146.883 146.883 129.98 172.46 135.62 135.62 135.62 135.62 135.62 135.62 135.62 135.62 135.62 135.62 135.63	175.22 176.16 176.16 181.20 243.20 176.03 176.65 176.45	230.22 209.88 185.92 186.81 167.45 164.48 146.48 1136.79 117.60
6 8				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000 0000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	196.73 168.83 168.83 170.68 172.64 172.64 173.62 127.17 163.73	206.76 206.76 206.76 20.33 20.33 20.33 106.03 11.06.03 11.06.03 11.06.03 11.06.03	209.086 1085.92 1085.92 107.45 1086.03 1087.03 107.00 105.06
b d				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2000 0000 00000 2000 48444 00000	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1688 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1200 1200 1200 1200 1200 1200 1200 1200	165.95 165.95 166.93 166.43 166.43 166.90 117.80 117.80 105.06
d 46 d 16 d 16 d 17 d 18				6.000000000000000000000000000000000000	40 0400 00000	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	140.68 129.95 177.46 135.62 127.17 127.17 143.77	26.23 26.23 26.23 173.65 173.65 176.65 176.65	166.621 167.65 166.43 166.43 166.43 168.79 117.60 105.06
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				3,4,4,5,5,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	109.30 172.64 172.64 135.62 135.62 127.17 127.35	242.32 242.81 166.05 173.65 176.05 176.05 176.05	137.80 164.43 164.08 138.79 117.60 105.06 107.21
				24444 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	109.30 172.44 149.69 135.62 127.17 127.85	242.81 126.05 173.65 160.27 175.65 175.65	137.80 144.43 136.43 107.73 107.73 107.50
N	# # # # # # # # # # # # # # # # # # #	T - 1 - T - 1 - 1		64.00 64.00	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	172.44 149.69 135.62 127.17 127.85	26.23 26.23	164.43 148.79 117.60 105.06 107.21 102.51
				2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	444 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	127.17 1 127.85 1 143.77	176.05 170.027 176.027 176.455 176.455	138.79 117.60 117.60 105.06 107.21
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	本			66.00 71.00 70.00	o wow.	47.25 F	127.17	176.627	105.06
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				2.00.0	0 0 0 0 0	45.01 36.87	127.85	143.65	107.21
			**************************************	6.09 1.00.09 1.00.09	9 9 9 9	38.87	143.77	143.65	107.21
			****	2.97	40.00	38.87			100.40
		* *	****	2.97	5.94	1	124.66	97 571	07.00
		*	****	5.91		47.33	106.86	00.70	
	- '		-		ລຸດ	37.71	102.72	102.55	94.85
	化多种性性 人名英格兰人姓氏格兰人姓氏格兰人姓氏格兰人姓氏格兰人称形式	- 一	·	5.92	9 9	34.03	283.75	91.75	91.70
	医外型性经验检验 经存货的价格实验	******	******	6.36	6.91	32.62	193,59	1 88.01	88.09
報	新春春秋日秋日春一 安全公共市场安全	*****	******	6.21	****	58.13	1 193.65 1	1 80.41	74.65
·	我有不知识的人 医安特氏征	*****	*******	6.07	******	85.38	166.46	1 82.74	67.56
·	我是我是是是一 医分类性动物	- 安安安安安安安	****	6.33	1 254.20	1 68.04	1 141.16 1	1 100.29	61.92
多一 为我的话的是话话一 化氯甲氧基化苯并二	₹.	-	•	-			- 		
	•	-	*****	6.20	159.82	74.18	121.51	104.59	65.81
*	*	•	~ ***	6.26	223.11	64.74	106.53	111.92	60.44
4 一 当然是有些有关的 " 中央全体中央中央 " (D	经销售的现在分词 经分类的	*******	*****	95.9	1 290.79	51.38	105.89	150.79	54,53
•	英星母母心情多爱 护心医外医病		一 長気を告答を申	94.49	236.79	53.30	134.40	148.99	49.90
NO	四世帝张帝并表现" 经关款条件		. 计当件文字表示表	6.15	175.73	55.31	1 124.06	1 206.17 1	64.43
一 在并来将来要开第一 山	**************************************	· 安安安安安安安。		6.01	143.19		131.58		66.35
				-	_				1
一块红鹭的石矿石矿石中水石矿铁矿农民农村中市北沟南南南部北非土口市山	2000年 1000年	***********	10 11 11 11 11 11 11 11 11 11 11 11 11 1	4644444444	***********	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	4	4	
TOTAL "本来地方是有条件 一色色色的的条件等 一种色色	医克里氏氏征 一条化物的复数形式		*****	各量均条要债益	****	Ξ.	29.7402		3473.55
6的时中也没有时间的现在分别十四位对非正时间的自己中的可以比较比较也一定是有一一种是使是被各种中一一种是并未来并不是一一一的是是是是一种的。	化化基化合物 人名英格兰 医多种毒素	· 计分类型 医动物 一	***************************************	- 种自己的计划计算的 景學 医多种性	"村口村口村口村口村村工村村工村村工村村工村村工村村工村村工村村工村村工村村工村村	+ N m m u m m m m m m m m m m m m m m m m	132.17	+ 11 11 11 11 11 11 11 11 11 11 11 11 11	112.05
2011年作业市场市场发展中心的企业, 1911年代, 19	19 19 19 19 19 19 19 19 19 19 19 19 19 1	* 阿拉斯拉州的 以 11 十二			nn n n n n n	11 12 14 14 14 14 14 14 14 14 14 14 14 14 14	H +	+ 11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11
*****	在高兴等的第三人称形式 经收益的	****	***	6.74	1 290.79	_	٠		230.22
《张文·书》 医多种性性 医多种性性 医多种性性 医多种性性 医多种性性 医多种性 医多种性	网络阿拉拉拉拉马马马拉拉斯拉拉拉斯拉拉斯拉斯拉斯斯拉斯斯拉斯斯拉斯斯拉斯斯拉斯斯拉斯斯	- ************************************				32.62	1 96 69 1	1 80.41	06.67
有日子林市市省级省省第三十四级市省和省市省市省市省市省市省市省市省市省市省市省市	计记录记录 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	卡斯坦森斯教教育 日本十二	*****	11 44 45 16 16 16 16 16 16 16 16 16 16 16 16 16	H 10 日 10	+ 11 11 11 11 11 11 11 11 11 11 11 11 11	4 NO WILLIAM TO 14 14 14 14 14 14 14 14 14 14 14 14 14	+ 11 7 11 11 11 11 11 11 11 11 11 11 11 1	***********
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AVERAGE - MAXHKCM

****	***	412.28	-	* * *	***	****	******	.				
	TOTAL I AVERAGE I MAXIMUM I MINIMUM	NAXIA DE CA	X Y W -	RAGE	A > 4	A L	TOTOL	_ =				
**********	*********	******	*********	他就是在他们的这样的情况的是这个心里是不是我的情况的是"""。	*********	*********	********	- \$				
(建分类异苯甲苯甲苯甲苯甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲	计算条件的表示符号	化二十二 人名 二二 人 一	化二甲基苯酚 医甲基苯酚	* 他还是董事当者的 *		华斯斯奇 医食气管 化苯基甲基苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	* -				
	 			 	1			<u> </u>				
1 50.29 + 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	大学来看的女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女	** ** ** ** ** ** ** ** ** ** ** ** **		29.00	107,92	- +	+	;	16.20	30.94	39.63	MINIMOM I
	1 240.25 1	96.10 153.19		155.10	242.11	412.28	299.75	174.77	84.66	147.42	269.01 F	
1 128.57	**************************************	· · · · · · · · · · · · · · · · · · ·		61.85	146.46	163.35	146.46	- + + + + + + + + + + + + + + + + + + +	33.11	1 00.08	107.81	AVERAGE 1
1 3985.73	人名马尔 人名 一张安全公司自己 化苯基苯基苯基苯基 一位全有条件 化二氯甲基苯基甲基苯基甲基苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	**************************************	一条专业长公司工程工程工程工程工程工程工程工程工程工程工程工程工程工程工程工程工程工程工程	1917.26	4540.35 H	4900.59 1	4540.20	1026,29 「非常常有有有有有有。	1026.29	1652.12	1 3362.11 1	TOTAL ≀ nm=====
	100000000000000000000000000000000000000	11 11 11 11 11 11 11 11 11 11 11 11 11	+ 10 12 14 14 14 14 14 14 14 14 14 14 14 14 14	10 10 10 10 10 10 10 10 10 10 10 10 10 1	8		+ 11	***************************************	10 (C)	一 · · · · · · · · · · · · · · · · · · ·	4 H H H H H H H H H H H H H H H H H H H	
62.55		1 136.95		38.33	116.13		121.52		17.86		41.04	31
1 50.29	109.95	1 101.04	*******	31.11.	112.37	134.82	105.43	101.14	16.69	-	67.85	30
56.95	1 57.77	92.85	***	29.00	132.87	164.21	108.00	145.80	16.20	-	75.35	29 1
1 55.86	62.56	72.07	****	29.53	167,78	188.53	116.45	174.77	18.19	67.55	85.68	28
27.99	74.86	98.05	****	30.65	165,56	166.12	144.51	102.93	21.99	102.90	116.69 1	1 56
10.07	94.26	200		51.29	144.30	199.84	160.14	114.18	40.67	147.42	1 06.141	52
1 27.41	88.52	80.12	****	32.39	152.59	226.24	215.32	99.37	23.28	107.26	169.24	54 1
1 90.72	****	1 134.86	***	33.49	126.48	267.86	224.96	123.72	28.91	43.63	93.41	53
106.15		101.00		34.54	123.37	440.42	240.14	- KY-07	21.77	47.74	72.69	
						_				-	-	
146.64		75.08		20.54	128.20	269.43	203.40	40.32	24.89	62.14	90.11	
218.77	*******	62.59	****	45.84	143.52	135.41	263.18 1	40.28	38.70	95.38	101.40	18
252-18	*****	98.13	****	47.67	155.02	138.69	299.75	49.57	31.90	79.83	121.43	1
1 175.03	***	37.14	******	47.84	136.07	164.14 1	258.45	78.73	31.23	68.96	143.96	16
155.87	***	38.66	***	50.43	143.76	137,38	178.02	126.50	27.94	81.10	183.83	1.5
1 201.27	*******	35.23	***	52.53	178.49	127.02	99.50	48.73	27.87	37.49	218 47 1	1.4
224.19	***		********	57.94	108.69	180.24	121.46	17.89	30.10	30.94	269.01	2 19
125.32	***	***	***	63.30	116.91	127.24	86.38	****	43.14	35.48	163.83	·
129.39	169.07	***	******	66.80	137.33	160.59	71.61		84.66	33.61	88.78	- ot
117.88	154.37	****	70.15	68.48	141.70	140.72	68.19	*******	-	34.34	104.46	
107.17	240.25	* * * * * * * * * * * * * * * * * * *	61.04	84.57	145.81	114.32	76.48	***	31.68	38.16	63.23	~ .
1. 114.07	1 195.79		65.54	100.45	146.36	1 95 76	121.60	有领权者是任权者	33.85	45.91	108.79	- 4
154.92	172,33	· · · · · · · · · · · · · · · · · · ·	55.53	155.10	151.46	79.92	68.78	★保持有关价格量	37.08	56.65	99.79	
82.52	207.90	****	39.99	118.17	173.18	77.93 1	86.05	*******		44.88	39.63	•
24.42	141.35	一种种种种种种种种一种种种种种	44.20	120.76	18: 69	101.21	44.05	大学・ロー	45.69	47.92	74.79	 ษ ค
11/-06	100.92			106.46	162.58		87.32	17.79	57.44	56.00	51.69	
411 00		******	76.05	,,,,		101.55				•	-	•
			45.05		-	101.55		-	-	-	-	~

Daily Mean Discharge at Tampias Gauging Station (1979)

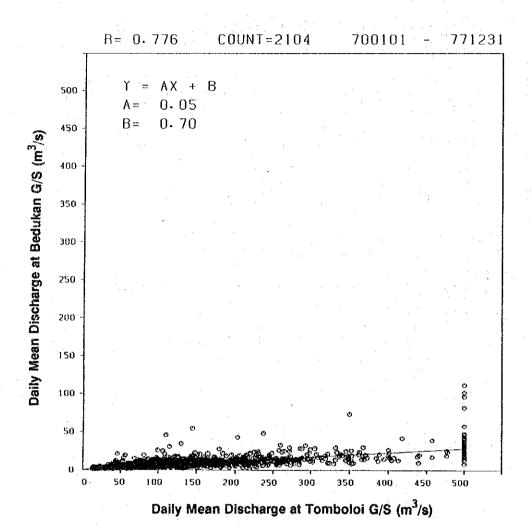
	Σ X X	A G E	**************************************	**************************************	***********	* -				
**************************************	-	计计算经过设计编码表	() 经经济证券的 化二甲基苯甲基	· · · · · · · · · · · · · · · · · · ·	***					
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- 1	203.13	79.83	221.97. 1	216.19	269.82	60.57	223.34	100.01	MAXIMUM 114:37	AXIMUM
· - +	75.32	1 55.07	81.74	105.08 1	50.50	28.56	73.72	* * * * * * * * * * * * * * * * * * *	AVERAGE 1 ** * * * * * * * * * * * * * * * * *	AVERAGE 1**
2550,68 1 4317,36 1	2259,64	1256.96 1	2533.97	3752.38	2683.99 1	856.65	2285.20	****	TOTAL I *****	TOTAL
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196.74	51.73	79.83	70.97	56.26	133.64	18.52	29.73		******	30
	72.66	51.52	113.74	99.11	144.01	22.10	35.99	21.58	***	
_ :	104.00	34.46	117.78	71.07	80.44	28.01 1	35.64	22.53	*****	
<u>.</u>	85.61	33.51	92.82	68.51	105.37	29.06	39.53	24.50	51.77	56
106.88	96.34	1 98 67	110.72	73.75	107.01	21.59	73.90	28.52	63.34	52
	86.81	72.77	156.71	80.13	104.62	23.21	50,05	25.74	10.04	5 %
	132.49	41.67	84.26	105.41	269.82	42.60	70.52	28.65	44.32	55
_	203.13	43.92	89.19	142.94	57.21	22.43	36.66	30.34	50.11	12
	91.12	44.81	102.47	216.19	48.28	19.23	81,23	32.19	1 44.05	50
	114.13	29.34	97.98	137.29	45.71	19.90	138.90	35.82	38.55	9 6
	63.76	22.15	102,40	100.00	44.32	23.41	165.90	43.99	39.14	17
	85.95	22.74	1 75.76	112.86	48.09	26.21	223.34	62:76	41.00	16
	151.49	23.39	72.41	162.80	52.38	35.72	73.66	100.01	1 64.14	15
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	42.61	25.28	59.39	98.96	88.70	40.74	108.42	28.26	46.33	1 tt
,	51,34	28.80	39.72	68.80	144.35	21.86	103.23	32.18	80.80	ंच्
	36.51	30.17	42,55	93.96	91.68	23,17	71.01	23.80	52.95	9
_	31.84	32.15	35.18	71.67	165.88	25.01	164.23	25.26	53.39	~
	34.38	37.11 6	41.59	71.88	35.04	28.57	58.17	30.06	57.00	~ a
	39,55	40.89	43.99	84.78	59,94	37,43 1	42.04	34.53	66.22	- ~- - %
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- -	52.49	43.19	44.68	118.63	30.57	- 15° NA	34.15	36.29	1 75.86	. 4
· . · ·	74.27	50.41	58.97	131.58	18.77 !	25.04	25.34	- 安华长州报关	114.37	٠.
	54.12	55.96	56.37	148,14	17.67	26.18	21.98	- *******	1 93.35 [
110.3.36 123.36 123.36 136.32 136.32 146.37 156.75 166.95 166.		56.12	54.12	55.96 56.12 48.82 42.44 43.55 46.59 43.24 43.24 43.29 52.49 43.21 40.72 42.44 43.92 42.49 43.21 40.22 42.49 43.21 40.22 42.49 43.21 40.22 42.49 42.29 42.49 42.29 42.49 42.29 42.49 42.29 42.49 42.49 42.49 42.49 42.49 43.49	56.37 55.96 54.12 48.82 58.97 50.41 74.27 42.44 52.17 46.36 6.6.47 44.31 64.68 43.19 52.49 41.31 51.20 40.70 55.49 41.31 41.59 50.21 55.49 41.31 42.59 40.89 39.55 63.78 41.59 37.11 34.36 122.15 39.22 34.93 33.37 157.41 39.22 32.15 30.17 36.12.15 42.51 30.17 36.40 13.99 59.39 25.28 6.20 80.03 72.41 22.47 42.79 73.39 80.71 22.47 42.79 73.39 128.63 24.28 60.20 80.03 72.41 22.39 151.49 65.40 128.63 22.74 85.95 59.25 102.47 42.92 150.20 13.49 89.19 43.92 152.49 89.91 84.26 22.74 85.95 151.49 102.47 43.92 150.43 151.92 84.26 104.07 122.49 117.78 34.46 104.00 70.40 113.74 51.52 72.66 63.76 117.78 34.46 104.00 70.40 113.74 51.52 72.66 63.04 110.72 49.80 90.34 106.88 117.78 34.46 104.00 70.40 113.74 51.52 72.66 63.06 113.74 62.06 12259.64 12550.68 125.33.97 1256.96 12259.64 12550.68 125.33.97 1256.96 12259.64 12550.68 125.33.97 1256.96 12259.64 12550.68 125.33.97 1256.96 12259.64 12550.68 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4 1251.97 79.83 20.13 179.67.4	131.29	17.67 131.58 58.97 50.41 76.27 42.44 29.66 131.29 52.17 46.36 66.42 45.21 30.57 131.29 52.17 40.36 46.69 45.43 45.63 47.23 131.75 51.20 40.76 45.65 46.69 59.94 64.78 41.59 52.17 50.49 50.41 59.94 64.78 41.59 52.17 50.89 39.55 62.78 55.04 71.67 35.18 41.59 37.11 34.36 110.39 144.35 68.80 39.72 28.80 51.34 73.39 159.31 83.20 68.71 26.49 40.69 30.03 52.38 162.80 59.72 28.80 51.34 73.39 159.31 83.20 68.71 26.49 40.69 60.00 63.67 132.77 128.83 24.28 60.20 80.03 52.38 162.80 59.72 128.83 24.28 60.20 80.03 52.38 162.80 102.40 12.66 52.97 63.49 151.49 63.67 132.77 128.83 24.28 60.20 80.03 63.67 132.86 80.10 22.47 84.36 10.45 80.93 64.70 132.86 100.24 110.24 100.24 110.13 10.24 105.37 68.51 92.82 33.51 13.72 126.39 105.37 105.37 105.47 105.49 105.30 105.40 105.37 68.51 92.82 33.51 13.73 126.39 105.37 105.37 105.40 102.47 100.27 100.24 133.68 100.28 221.97 172.40 102.20 144.01 13.74 10.72 106.83 110.72 100.24 135.84 100.00 102.47 100.27 100.24 135.84 100.00 102.47 100.27 100.24 135.84 100.00 102.47 100.27 100.20 126.02 100.00 102.40 113.74 100.55 100.00 126.02 100.00 100.00 100.40 100.00 100.00 126.02 100.00 100.00 100.47 100.27 100.24 135.84 100.00 100.00 100.47 100.27 100.24 135.84 100.00 100.00 100.47 100.20 100.24 135.84 100.00 100.00 100.47 100.20 100.24 145.98 100.00 100.00 100.47 100.20 100.24 145.98 100.00	26.18 17.67 148.14 56.37 55.96 54.12 46.82 62.04 12.04	21.06 26.18 17.67 148.14 56.37 55.06 54.12 46.82 22.44 237.23 22.04 16.77 131.26 56.97 50.41 74.27 42.44 237.23 22.04 16.77 131.26 56.97 50.41 74.27 42.44 237.23 23.25 22.04 16.77 131.26 40.77 6 43.19 40.77 6 43.	25.46 26.12 17.67 14.814, 56.37 55.66 54.17 14.214, 56.35 66.67 10.12, 14.68 66.67 10.12, 14.68 66.67 10.12, 14.68 66.67 10.12, 12.13, 12.65 11.05 11.

3. Correlation of Discharge Data

Bedukan G/S - Tomboloi G/S

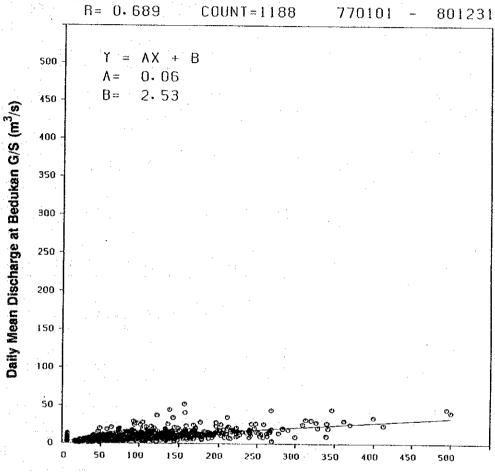
Bedukan G/S - Tampias

Correlation of Discharge Data between Bedukan G/S and Tomboloi G/S (1970-1977)



AP3 - 36

Correlation of Discharge Data Between Bedukan G/S and Tampeds G/S (1977-1980)



Daily Mean Discharge at Tampias G/S (m³/s)

4. Supplemented Daily Mean Discharge Data at Bedukan G/S

	1970)
	Station (
	auging
	River G
1	Bedukan
	aily Mean Discharge at Bedukan River Gauging Station (1970)
	/ Mean
	Supplemented Daily

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6. 9. 9. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	2	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.84	1,86	3.67	2.74	2,46	5.69	2.95	.2.88	14.70
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1 4.34	.23	0.87	96.0	1.77	2.83		3.12	1.74	5.64	2.36	2.65
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Ħ.	. 32 1	1,23	2.04	2.64	- 67.7	3.11	3.52	3.46	5.54	4.92 1	4.97
AAXIMUM 1 18.22 1 5.	# # # # # # # # # # # # # # # # # # #	4.25		S. 02 -	14.05 - 14.05 -	7.37	4 2 6 5 C		23.98 -	16.12	14.70
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26 0.32 0.60 0.41 2.66 1.10 2.26 2.91 4.79 2.81 3.63 1.6 0.22 0.22 1.76 9.25 5.25 2.34 3.63 0.6 0.22 0.75 0.32 2.32 2.25 1.52 5.08 5.75 2.34 3.63 0.6 0.27 0.77 0.46 0.77 1.20 2.79 5.00 2.79 2.75 2.26 2.75 2.79 2.75 2.79 2.79 2.79 2.79 2.79 2.79 2.79 2.79 2.79 2.79 2.79 2.74 0.70 0.97 0.94 4.66 2.77 2.79 2.76 2.77 2.79 2.76 2.77 2.79 2.76 2.77 2.70 2.76 2.77 2.70 2.76 2.77 2.70 2.76 2.77 2.70 2.76 2.76 2.76 2.76 2.76 2.76 2.76 2.76 2.76 2.76	1.39	0.32	0.77 1	1 97 0	3.38	1.23	2.47	3.96 1	2.50	3.16	4.61	2.21
1.	1.26	0.32	- 09.0	1 17.0	2.68	1.10	2.28 1	2.91	4.79	2.81	3.83	2-00
0.89 0.75 0.32 2.25 1.52 5.08 5.75 2.19 3.56 99 0.42 0.77 0.48 2.48 1.30 1.26 3.38 4.15 2.23 3.12 164 0.60 0.77 1.30 2.54 1.26 2.94 2.94 184 0.60 0.77 1.30 2.54 1.79 2.94 2.94 181 0.60 0.77 0.76 1.77 0.92 0.94 2.46 2.94 2.94 181 0.60 0.77 1.77 0.92 0.86 2.45 9.31 2.94 184 1.78 1.73 0.91 2.65 9.21 1.94 4.96 185 1.40 1.73 0.91 2.65 9.21 1.94 4.96 3.74 186 0.57 0.61 1.72 0.91 1.72 1.92 3.74 4.96 4.96 4.96 4.96 4.96 4.96	1.16	0.39	1 92:0	0.85	3,36		1.28	, c	 	75.6	, k	4
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.84 0.68 0.68 0.93 0.94 4.66 20.76 2.48 3.45 .81 0.69 0.69 0.97 4.77 0.90 0.97 4.11 12.16 2.64 3.40 .72 0.68 0.79 0.79 0.72 0.72 0.72 0.72 0.72 0.71 2.48 4.02 .72 0.66 0.77 2.26 1.40 1.73 0.72	- 78 0	0.77	0.77	1,30	3.24	1.06 1	101.1	2.79	5.80	2.90	2.94	1.71
1.5 0.69 0.59 0.70 1.77 0.90 0.87 4.11 12.16 2.63 3.64 4.02 0.68 0.79 2.36 1.43 0.92 0.86 2.65 9.31 2.48 4.02 1.45 0.97 1.34 3.38 0.93 2.04 6.27 2.00 4.16 1.34 3.38 0.93 2.04 6.27 2.00 4.16 1.34 3.38 0.93 1.45 1.25 3.67 0.97 1.42 4.00 2.42 3.74 4.26 3.74 4.26 3.74 4.27 3.00 4.26 3.74 4.27 3.27	0.84	0.80	0.68	0.93	2.54	0.93	1 76.0	4.66	20.76	2.48	33.50	1.68
0.69 0.69 0.76 1.77 0.90 0.87 4.11 12.16 2.83 3.44 0.64 0.65 0.76 1.43 0.92 0.81 2.05 9.31 2.48 4.02 0.64 0.63 1.45 1.25 3.38 0.80 2.04 6.27 2.00 4.18 0.61 0.63 1.45 1.25 3.67 0.97 1.86 4.80 2.42 3.74 0.65 0.65 0.93 1.45 1.25 3.67 0.97 1.42 4.15 2.09 4.26 0.65 0.93 1.45 1.25 3.67 0.97 1.42 4.15 2.09 4.26 0.60 0.60 0.97 1.97 1.62 2.26 1.73 1.13 4.23 1.36 0.60 0.60 0.97 1.97 1.62 2.63 2.33 1.13 4.22 0.60 0.60 0.97 1.97 1.62 2.63 2.25 0.83 6.06 1.53 0.75 0.75 0.89 1.47 1.67 2.66 2.82 0.83 6.06 1.53 0.75 0.75 0.84 1.44 1.24 2.33 2.82 4.13 4.96 5.80 4.28 0.70 0.80 0.80 1.42 2.33 2.82 4.13 4.96 5.80 4.28 0.70 0.80 0.80 1.42 2.08 3.52 2.01 6.28 4.22 2.01 0.95 6.46 1.42 2.08 3.52 2.01 6.38 3.21 4.16 0.95 6.46 1.42 2.08 3.52 2.01 6.38 3.21 4.16 0.95 6.46 1.42 2.08 3.52 2.01 6.38 3.21 4.16 0.95 6.46 1.42 2.08 3.52 2.01 6.38 3.21 4.16 0.95 6.46 1.42 2.08 3.52 2.01 6.38 3.21 4.16 0.95 6.46 1.42 2.08 3.52 2.01 6.38 3.21 4.16 0.95 6.46 1.42 2.08 3.52 2.01 6.38 3.21 4.16 0.95 6.46 1.40 6.30 4.07 1.38 4.20 0.95 6.46 1.40 6.30 4.07 1.38 0.97 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.99 0.90 0	-	-	- :			••	-	-	-	-	- :	
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	0.74	89.0	6/10	2,36	1.43	25.0	0.80	2.65	~ ·	N .	4.02	2.47
7.6 0.57 0.93 1.45 1.25 3.67 0.97 1.86 4.00 2.22 3.76 7.6 0.57 0.93 1.45 1.25 3.67 0.97 1.42 4.22 3.76 7.6 0.55 0.97 1.97 1.63 2.63 2.93 0.94 3.99 4.26 3.79 7.7 1.67 2.63 2.90 0.94 3.99 1.64 3.79 1.67 2.66 2.90 0.94 1.64 3.79 5.4 0.32 0.97 1.37 1.67 2.66 2.62 0.93 4.66 1.53 3.39 5.4 0.35 0.69 1.24 1.26 2.62 0.93 4.46 1.53 3.39 5.4 0.37 1.36 1.95 4.22 2.59 8.44 1.56 6.10 5.3 0.36 0.71 1.10 2.41 3.31 2.52 1.74 1.45 2.13 6.96 </td <td>72.</td> <td>40.0</td> <td> </td> <td>76.2</td> <td>04.4</td> <td>6,4</td> <td>16.0</td> <td>0.0</td> <td>2 6</td> <td>1.96</td> <td>4 4</td> <td>N. 4</td>	72.	40.0	 	76.2	04.4	6,4	16.0	0.0	2 6	1.96	4 4	N. 4
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1.57 1.62 2.63 2.33 1.13 4.23 1.36 3.79 1.57 1.55 1.58 2.63 2.33 1.13 4.23 1.36 3.79 1.57 0.45 0.94 1.75 1.68 3.13 2.90 0.94 3.29 1.64 3.27 1.54 0.32 0.87 1.37 1.56 1.95 4.22 2.59 8.44 1.55 5.10 1.53 0.32 0.84 1.44 1.24 2.33 2.62 1.74 11.45 2.18 12.31 1.53 0.35 0.36 0.71 1.10 2.41 3.31 2.38 1.34 6.74 4.12 6.90 1.64 0.30 0.80 1.42 2.08 3.52 4.13 4.96 5.80 4.75 1.64 0.30 0.40 1.42 2.08 3.52 2.01 6.28 4.25 4.09 1.64 1.25 2.04 1.40 6.30 4.07 1.62 6.38 3.21 4.16 1.64 1.25 2.04 1.38 1.38 3.21 4.36 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.6	0.54	0.55	0.93 1	1.61 1	2.38	2.26	1.73	1.42	4.15	2.09	4.26	1.54
.57 0.45 0.94 1.75 1.83 3.13 2.90 0.94 2.99 1.64 3.27 3.54 0.33 0.83 1.64 1.53 1.33 3.39 1.54 0.33 0.89 1.47 1.67 1.65 1.26 1.28 1.60 1.53 1.35 1.35 1.55 1.0.82 1.60 1.53 1.35 1.35 1.35 1.35 1.35 1.35 1.35	0.60	05.0	0.97	1.97	1.63	2.63	2.33	1.13	4.23	1.86	3.79	1.96
1.54 0.35 0.89 1.47 1.67 2.66 2.82 0.83 6.06 1.53 3.39 1.54 0.32 0.87 1.37 1.36 1.95 4.22 2.59 8.44 1.56 5.10 1.53 0.32 0.84 1.44 1.24 2.33 2.82 1.74 11.45 2.18 12.31 1.53 0.35 0.97 1.10 2.41 3.31 2.38 1.34 6.74 4.12 6.90 1.54 0.30 0.80 3.21 1.89 1.89 2.22 4.13 4.98 5.80 4.78 1.55 0.40 1.42 2.08 3.52 2.01 6.28 3.21 4.10 1.55 2.54 2.54 2.44 1.38 4.09 1.55 2.54 2.54 2.44 1.38 1.55 2.54 2.54 2.44 1.38 1.55 2.55 2.50 4.13 4.10 1.55 2.54 2.54 2.44 1.38 1.55 2.55 2.55 4.55 1.55 2.55 2.55 4.15 1.55 2.55 2.55 4.15 1.55 2.55 2.55 4.15 1.55 2.55 2.55 4.15 1.55 2.55 2.55 4.15 1.55 2.55 2.55 4.15 1.55 2.55 2.55 4.15 1.55 2.55 2.55 4.15 1.55 2.55 2.55 1.55 2.55 2.55 1.55 2.55 2.55 1.55 2.55 2.55 1.55 2.55 2.55 1.55 2.55 2.55 1.55 2.55 2.55 1.55 2.55 1.55 2.55 2.55 1.55 2	0.57	0.45	1 76 0	1.75	1.83	E)	2.90	0.94	3.99 5	1.64	3.27	1.85
.54 0.32 0.07 1.37 1.36 1.95 4.22 2.59 8.44 1.56 6.10 (.53 0.32 0.84 1.44 1.24 2.33 2.82 1.74 11.45 2.18 12.31 .53 0.36 0.71 1.10 2.41 3.31 2.38 1.34 6.74 4.12 6.90 .49 0.30 0.80 3.21 1.89 1.89 2.22 4.13 4.98 5.80 4.78 .40 0.30 0.80 1.42 2.08 3.52 2.01 6.28 4.25 4.09 .40 1.16 5.80 1.40 6.30 4.07 1.38 6.38 3.21 4.16 .40 1.25 1 2.04 1.38 1.38 1.38 1.38 1.38 1.38 1.38 1.38	0 54	6.33	0.89	1.47	1.67	2.66	2.82	0.83	90.9	1.53	3.39	2.26
.53 0.32 0.84 1.44 1.24 2.33 2.62 1.74 11.45 2.18 12.31 1.53 0.36 0.37 0.37 1.10 2.41 3.31 2.38 1.34 6.74 4.12 6.90 1.45 0.30 0.30 0.30 0.30 1.89 1.89 2.22 4.13 4.98 5.80 4.78 1.40 0.30 0.30 0.30 1.42 2.08 3.52 4.13 6.28 4.25 4.09 1.40 1.42 2.08 1.42 2.01 6.28 1.32 1.42 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40	0.54	0.32	1 78.0	1.37	1.36	1.95	4.22	2.59	8.44	1,56	6.10	4.86
.53 0.36 0.71 1.10 2.41 3.31 2.38 1.34 6.74 4.12 6.90 .49 0.30 0.80 3.21 1.89 1.69 2.22 4.13 4.98 5.80 4.78 .40 0.95 6.46 1.42 2.08 3.52 2.01 6.28 4.25 4.09 .40 1.14 5.80 1.40 6.30 4.07 1.62 6.38 3.21 4.16 .40 1.25 2.04 2.44 1.38 4.00	0.53	0.32	0.84	1.44	1.24	2.33	2.82	1 72 1	11.45	2.18	12.33	5,43
.49	0.53	0.36	0.71 1	1.10	2.41	3.31	2.38	1,34	6.74	4.12	6.90	4.78
.40 0.95 6.46 1.42 2.08 3.52 2.01 6.28 4.25 4.09 .40	1 69 0	0.30	0.80	3.21	1.89	1.89	2.22	4.13	1 86.7	5.80	4.78	8.11
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паводен потем и потем	3.14 1	0.80	1:25 -	6.46	4.43	6.30 I	5,63 - 5,63 -	9.25	20.76	13,96	12.31	14.17
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	8.0	09.0	1.25	2.39	1.60	3.71	4.25	1,35	1.65	12.10	4.65	
	1.7	66.0	20.00	2.50	1.65	1.00	5.85	 		6.50	20,00	25
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- 18	1 2.73	1 64-1	1.25	96.0	2.41	1.05	1,66	0.98	0.54	4.34	3.64	1.42
19	4.41	1.71	1.30	0.83	1.11	1.33	2.77 1	2.56	0.57	5.06	3.24 1	4.43
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- 22	1 2.44	1.48 1	2,38 (0.71	9.52	0.77	1.18	4.43	- 66.0	5.23	3.00	5.05
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- 28	1 15.46 1	1.62	1.01	2.47	1.10.	0 71	1.27	1.63	0.74	3.05	3,13	3.89
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 rò	•	2.15	4.74	1.01	0.87	1.69	2.56 1	1.39	2.29	4.80	5.02	3.90
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un.	2.85	19.41	3.78	1.04	1 96.0	1.67	1.75	1.43	1.70	3,88	5.38	6.10
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ا بې	٠	25.82	4.14	***	1.00	2.26	1.76	1.89	1.67	2.63	2.45	7.60
^	•	10.48	4.32	1.28	1.04	4.10	1.95	4.51	1.35	13.85 /	5.37	9.57
 eo	•	11.11	2.65	1.06	1.09	3.85	3.57	4.01	1.29	8.76	6.85	5 82
 •	2.22	1 79.91	4.30	1 26.0	1.18 1	3.36	4.67	2.84 1	1.24	1 70.7	8.01	5.38
10	2.46	7.91 1	4.02	0.88 1	2.12	2,85	5.55	2.51 1	1.18	6.13	7.85	4.67
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11	7.92	16.5	3.24	- 06.0	1.29	3.27	4.36	2.49 !	1.13	4.91	10.85	4 . 13
122	1 60 4	5.01	2.88	1.05	1.96 1	3.65	4.03 1	1.97	1.07	5.67	8.25 1	3.89
13	1 06.9	4.25	2.61	1.97	2.57	12.25	6.16	1.74 1	1.02	5.52	5.74 1	3.53
14	27.10	6.30	2.55	3.32 1	2 50 1	8.16	6.57	1.85	1 96.0	4.74	6.41	3.29
1.5	21.07 1	7.33 1	2.73	4.19	5.72	10.01	4.74	1.65	0.91	4.18	6.28	3.03
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16	11.83	6.89	2.90	2.32	4.01	9.43	3.71	1,41	0.85	4.38	6.14.1	2.88
17	11.10 1	13.49	2.76	3.03	2.47	2.90	3.15	1,21	0.75	68.7	5.17 1	¥.50
18 .	7.65 1	40.67	3.09	2.11 1	1.81	10.10	3.32	1.24	0.64	4.54	4.53 1	4.11
1.9	6.54	23.48	2.60	1.29 1	1.60	6.66	2.78 1	1.34	0.53	4.24	3.89 1	3.64
20	5.02	47.89	2.87	1.35	1.24	5.14	2.70 !	1.43	0.45	4.05	3.77	4.58
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21	4.16 1	50.69	2.46 1	1.41	1.63	4:57	2.82	1.86	0.42	9.36	3.67	4.35
22	E BU	22.98 1	2.01	1.04	1.83	4.75	3.01	3.69 1	0.33	5.30	3.56	W. 88
23	64.43	19.73 1	1,87	0.91	2.73	7.38	3.17 1	7.71	9.20	6.06	3.52	14 10 10
54	6.21	16.58 1	1:72	3.56	2.66	4.01	2.59	7.54 8	50.8	4.81	3.27	3.06
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26	5,59	8.61	1.46	2.01	5.24	3.14	2.69 1	3,58'1	2.24	3.84	7 36	39.5
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23	3.34 1	6.88 1	1.27	1.47	96.7	2.77	6.01	1 50.6	1.55	4.15	8.44	2.67
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AVERAGE :	. 40.00	14.59	2.99	1.63	2.46	# # # # # # # # # # # # # # # # # # #	3,46	3.41	1.07	2.46	5.89	6
MAXIMUM -	27.10	7,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	6.50	4.10	5.72	12.25	4.57 -	9.05	9.20	13.05	10.85	7.6
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1	+ 11 0 5 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.80	5.24	4.70	4.03	3.30	, 5, 5,	5.19	52	3.75	3.44		2.97	2.84		00.	****	3.72	3.94	3.57	2.93	3.49	,	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	70.7	26.4	4.34		3.77	3.46	20.50	2.49	2.55	-	+ 118.34 -	3.82	+ 255 · 55 · 5	+ 11 11 11 11 11 11 11 11 11 11 11 11 11
9	+	3.31	2.95	2.59	1.98	1.68	1.86	3.46	2.52	8,13	6.55		5.85	2.94	66.49	000	60.6	2 93 1	3.67	3.60	6.71	7.63	;	8.65	7 77	7.47	7.00		2 24	8.58	25.5	4.22	_		157.03	5.23	11,76	***********
	# # # # # # # # # # # # # # # # # #	2,34	2.08	1,99	2.02	1.75		1.21	1,16	1.50	2.05	- -	2.71	81.10	2.75		***************************************	4.11	4.36	6.45	7.96	3.91		4 6	2	N.28	2.69	_	2.39	5.13	1.88	284	N.00		89.76	2 - 00	7.40	************
7,	**************************************	1 77.0	1.55	2.63	I 1.30	18.0	1.4.1	1.27	1.11	1 0.92	92.0	_	97.0	0.45	79.0		****	3.52	2.35	1.65	1.28	1 0.89		***	40.5	5.39	7.54		in in	00.00	76.92	200	_	_	- 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16		+ 11 11 11 11 11 11 11 11 11 11 11 11 11	计算数据的证据的计
n	+ # # # # # # # # # # # # # # # # # # #	1.90	1.71	1.57	1.42	1.43	*****	1.46	1.89	1 4.25	1.50		2.94	2.08	2.70		1.51	1.25	1.22	1.82	1.66	1.25		12.7	20:1 EF. 6	1.34	1.22		1.15	1.02	0.00	0 78	0.76	· ·	# H H H H H H H H H H H H H H H H H H H	1.74	7.50	*************
2	用 日 村 北 北 日 月 北 北 日 月 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.49	1.44	1.40	1.37	1.76	KU . T	1.22	1.04	1.01	96.0	-	06.0	16.0	06.0	0 4 -1 F	٠ ٠	3.10	3.27	5.08	2.40	1.89		1.48	7.7	55.55	96.99		3.75	3.26	6.00		-	-	***************************************	. + n n n n n n n n n n n n n n n n n n	* + fill H & B & B & B & B & B & B & B & B & B &	***********
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upple	mer	upplemented Daily	у Меап	Mean Discharge	ge at Bec	at Bedukan River	iver Gau	Gauging Station (1979)	ion (197	<u>(e</u>	(unif.	m ³ /s/1	m³/s/100km²)
* DA	: II I 9 I 9 I 4					- 1 H	4 4 4 4 4 4 4 4 -						
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-1	-	2.46 -	1.24	0.33	1 96.0	0.54	2.26	1.05	3.29	3.45	3.41	1 07.5	5.63
(V	_	2,43	1.22	0.95	1.02	1.00	4.25	5.22	2.97	3,39	2.68	4.27	5.28
м	_	4,81	1.22	2.28	2.28	1.72.1	3.99	3.32	2.51	4.93	2.80 1	3.56	6.59
4	_	3,83	1.10 1	1.54 1	1.59 1	1.06	3.86	2.54	2.42	2.95	4.88	4.19	6.31
ហ	_	3.69 !	1 66.0	1.36	3.17 1	1.51	29.2	3.44	2.51	1.96	7.23 1	6.71 1	4.50
	-		-		-	·	•	 ,	-		_	-	-
9	_	- 00·E	. 93	2.45	1.59	1.17	2.11	2.47	2.85	1.44	10.49	7.48 1	3.98
^	<u>.</u>	2,56 1	0.88	1.65	1.23	1.06	1.48	2.61	2.66	1.39	14.36 1	\$ 27.9	3.79
œ	-	2,40	0.82	3.00	1.06	2.40	1.60	2,23	1.97	1.69	20.33	10.39 1	3.55
٥	_	2.13	0.74	3.76	1 76.0	7.23	2.72	3.75	1.68	1.57	18.45 1	10.01	6.02
10		1,98	0.68	1.92	0.81	4.03	4.42	2.77	1.58	3.30	12.31	6.83	9.93
	•		-		-		-	_	-	<u>-</u>	-		-
11	_	1.86	76.0	1.46	1 48.0	4.58	2.62	2.39	1.51	3.89	8.69	10.13	7.94
12	_	1.65	1.07	2.07	0.92	4.86	2.26	7.00	1.58	3.58	9.85	13.05 1	8.66
13	_	1.41	1,23	2.36	2.10	2.25	15.3	3.83	1.54	3.25	11,14	9.93	7.36
14	-	156	2.27	3.85	2.42	1.67	9.50	4.25	1.36	4.21	7.39	6.94	5.37
15	-	1.32	3.38	2.11	1.73	1.31	9-40	3.63	1.24	- M	6.11 ;	6.00 1	4.47
	_		_	-	;**		-	-	-		-	~	
16	_	1.29	1.90 1	10.13	1.25	1.28	4.50	7:90. 1	1.16	3.94	5,39	5,13	3.93
17	-	1.25	1.33	7 13	1.04	1.12	6.70	7.15	1.09	4.15	4.57	5.25	3.81
18	_	1.19	1.15	3.53	1 56.0	1.43	5.80	4.14	1.08 1	13.84	3.98	6.27	3,57
6.1	_	1.14 1	1,02 t	2.83	0.89	1.82	6.12	4.43	1.33	7.04	3,70	6-14 1	3.23
20	-	1.29	0.91	2.20	0.83	1.68	7.93	5.01	2.30	8.58	6.76	5.71	3.64
	-			-	-		-	_	- : :	-		-	_
27	-	1.06 1	0.82	2.41	1.16	1.48 1	5.43	5.53	2.92	12.43	6,65	76.7	5.81
22	_	1:53 #	0 77 1	1.77 1	1.77 1	1.61	4.78	4.92	2.81	7.07	6,58	3.75	7.42
23	-	1.61	0.75	1.54	1.13	5 00	69.5	8.03	3 79	7.03	5,11	3 99	7.68
54	_	1.82	0.70	1.37	1.05	1.41	3.59	7.34 1	2.90	6.23	4,23	5.81	6.78 1
50 50 70 70	~	1.71	0.72	1.24	0.96	1.10	3.10	5.40 1	2.06 7	4.91	5.29	5.20	6.35
			-	-	-		_	-	_		_	-	
98	-	1.71	0.66	1.18	1.26	1.08	3.03	4.20 1	1.74	58.85	4.66 1	67.7	6.33 1
27	<u></u>	1.44.1	0.54	1.10	0.88	1.37	4.32	4.29	2.46	6.37	4.37	1 5 7	6.11.
28	-	1.22	0.38	1.22	0.78	1.51	3.95	5.30	2.14	4.47	3.84	6.71	6.39
C.	-	1.13		1.74	0.71	0.97	3.92	3.94 1	4.22	3.50	6.06 1	5.24	5.94
90	-	1.16 1	-	1.31	0.63	1.70	3.29	3.29 1	7.00	3.78	11.39	5.68	4.64.1
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医尿管管 计电子电子 医电子性 医克里氏试验检尿病性	***	(神经外外分别分别公司公司 医克勒氏试验检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检	化的复数形式电影的复数形式电影的
TOTAL TAXORAGE TAXABOX TARREST	ENAGE	KAXHMCM	30 医开塞日里 11
经经济证据 医电子 计图象 医电影 医电影 医电影 医电影 医电影 医电影	**********	公司会计记者与书书的书书的书书的书书	外外的对外的特殊的现在分词的对外的对外的对
1346.02	3.69	20.33	0.33

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5. Discharge Duration at Bedukan G/S

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(unit: m ³ /s/100km ²)	.02						-					-		-					-			:			:		:					:																			
	Q. E.	3,238	3.226	312.5	3,184	3,165	3.144	3.123	3.104	3,093	3.070	3,056	3.042	3,021	3.009	2,990	2.974	2,963	2.951	524.2	2.914	2.892	2,871	2.847	2.841	2.807	2.797	2.782	2.775	2.767	2.743	2.729	2.717	969.2	2.669	2.659	629.6	2.611	2.594		2.577	744.5	2 4 4 4	125.7	2.510	2.501	2.488	2.476	2.459		
on (197	× 0	151	22.5	5 E	155	156	157	158	159	160	161	162	163	164	169	166	167	89 °	è i	170	171	172	173	174	175	176	177	178	179	100	181	182	163	184	185	136	0 4	189	190		191	192	9 4		196	197	198	144	200		
ging Statik	<u>લ</u> દ	4.305	4 290	4000	4.190	4.152	4,132	4.105	4.080	4.061	4.039	4.007	3.985	3.958	3.922	3,967	3.657	9 636	3.819	3.748	3.776	3.754	3.737	3.723	3,709	3.675	3.680	3.662	3,640	3,610	3.588	3.559	3,549	000,00	2.507	24.5	7.4.6	3.448	3.425		3.416	645.5	2,0,5) (A)	9.830	3.311	3.294	3.278	3.248	3.238	1
iver Gau	ON	101	102	6 4 F	100	106	107	108	109	110	111	112	113	114	113	116	117	118	119	200	121	122	123	124	125	124	127	123	550	130	131	132	133	134	S T	e f) h t	139	140		e (7 4	7 7 7	144	146	147	148	149	150	ed ISS ed	:
edukan R	G E	6.232	6.174	0 · 140	6.047	5.975	5.910	5.874	5.608	5.772	5.747	2.69.5	5.633	5.599	5.550	5.508	5.476	5.441	14.0	5.561	5.325	5.287	5.250	5.201	5.173	5.125	200.5	400.0	2.023	4.997	4.973	4.939	806.7	4.882	4.860	620.4	4. 785	4.747	4.725		4.699	4.0.4		0.5.4	4.473	4.446	4.403	4,351	4,329	4,305	1
on at B	, 0	51	22 1	υ n υ 4	, TZ	56	57	58	23	99	61	29	63	79	ል ሚ	99	67	ø,) (0		22	73	74	25	76	77	5 (62	90	81	89 72	es es	84	ω v	9 5	6	6 8)	. 06	:		2 6	o	* 0	96	6	96	66	100	101	
Discharge Duration at Bedukan River Gauging Station (1970-1979)	Q i n	58.178	39.672	96.00	20,103	124.45	17, 193	13.987	13.358	12.476	11.843	11.560	10.943	10.714	10.255	10.046	9.810	9.584	0.55.0	4.105	8.907	8.744	8.608	8.436	8.313	8.237	8 002	. 956	7.850	7.746	7.665	7.603	7.456	7.388	7.323	7,235	7.114	7.046	6.966	1:	6.888	6.836	97/9	400.00	000	6.4.99	6.459	6.372	6.239	6.232	, .
Disch	0.00	" 4	CV 1	n 4	· va	90	7	w)	٥	0	11	27	77 13	14	ta ta	16	77	89 (5 C	2	23	0	23	572	52	56	27	92.0	6 1	30	31	K)	r) M	46	ស Mi	o I	- u) 6 i M	40		3	2 1	6.4	‡ v	. 9	4.7	43	64	20	5	

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n River Gauging Station (1970-1979) (unit: m ³ /s/100km'	
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UISCU	arge Dur	ation at	Discharge Duration at Bedukan Hiver Gauging Station (1970-1979)	Hiver Ga	inging Sta	tton (19	(6/61-0/	(ant:
NO.	o i n	0.2	г о	D.	O.i.	NO	O 	NOV
201		251	1-826	K)	1.279		0.700	
202		25.2	1.814	200	1.273	1 (2) (3) (4)	0.688	
203		853	1.800	303	1.260	353	0.675	
204		254	1.789	305	1.246	354	0.658	
500	20 10 10 10 10 10 10 10 10 10 10 10 10 10	255	1.776	305	1.241	S I	0.651	
0 10		0 T	1.00	000	1.218	0 10	0.627	
208		25B	1745) e	1.192	7 M	0.590	
503		200	1.728	309	1.00) (P)	0.179	
210		260	1.719	310	1.170	360	0.552	
•	,			ì				
211	2.298	100	1.713	911	1.164	361	0.521	
27.0	0 10	707	70.1	N 10	1010	200	267.0	
212	676.6	707	7 4 4	0 V	3 4 6	000	9 4 4	
1 50	2 265	2 4 5	674	H +	0 4 5 5	4 0 0	00 10	
216	0	266	1.662	, N	100	1		
217	2.221	267	1,651	31.7	1.097			
218	2.214	268	1.639	318	1.089			
219	2 109	269	1.627	319	1.072			
220	2.196	270	1.624	320	1.060			
221	2.185	271	1.602	321	1.050			
222	2.165	272	1.596	325	٠			
223	2.145	273	1.584	323				
224	2.131	274	1.572	324	•			
5.55	2.155	27.2	1.500	200	•			
0 10	2.103	9 (/	0 40	800.1			
122	2.0.2	· · · · · · · · · · · · · · · · · · ·	1,541	N C	•			
52.50	0 0 0	0 0	000	2 6	•			
6.50	0 0	2.0	1.000	7 C	0.971			
200	500.3	9	1	9	•			
231	2,052	281	1.494	331	0.955			
232	2.036	282	1.485	332	0.942			
233	2.019	283	1.477	333	0.937			
234	5.009	284	1.462	334	0.930			
235	1.985	285	1.450	333	0.923			
236	1.974	286	1.435	336	0.900			
237	1.963	287	1.426	337	0.893			
23.8	1.955	19 E	1,614	10 i	0.882			
239	7.00	200	1.404	7 () I	4/8/0			
7	136.4	26.3	7.0	2	\$60°.			
241	1.919	291	1.381	341	0.858			
242	1.908	292	1.374	345	0.838			
243	1.898	293	1.359	343	0.822	•		
544	1.881	294	1,349	344	0.800			
245	1.871	295	1.333	345	0.790			
246	1.866	596	1.322	346	0.774			
247	1.857	297	1.314	347	0.755			
872	1.842	298	1.304	348	0.745			
672	1.839	562	1.293	349	0.737			
250	1.835	200	1.283	0 80 81	0.727			
	700	.08	27.0	u	200			
1 1 1))		•	:			



Appendix 4 DEVELOPMENT PLAN DATA

Appendix 4

DEVELOPMENT PLAN DATA

CONTENTS

			Page
1.	Data	of Site Selection Study in Chapter 5	AP4-1
2.	Sele	ction of Optimum Plan in Chapter 9	AP4-16
	(1) (2)	Saleable Energy of Alternative Plans	AP4-17
	(3)	Alternative Plans	AP4-23
		(Selection of Optimum Plan)	AP4-33
3.		ulation Data for Commissioning Year	
	in C	hapter 9	AP4-43

Data of Site Selection Study in Chapter 5

Naradaw A

Cost		483	2,404			424	1,138	247	564		de la j	4,370	43			300	5,303	4,370	840	597	11,410			
		Concrete type	Mesilau 1,137	Liwagu 2,220 0.7		5,750	547 × 0.8	Structural Steel Superstructure	4.1 1.2	Turgo Impulse/34 Synchronous	350 3,300	1,580 x 1 unit 3¢ 0A 11,000 3,300	Steel Post HAL 0.166 sg.in	11 1.0									·	
			æ	(E)(E)	(m)	(m ₃)	L (m) x D:(m)	Structur	km km	Type	RPM V	KVA High (V) Low (V)	Type Size	KV L (km)		1,000 M\$	1,000 M\$	1,000 M\$	1,000 M\$	1,000 M\$	1,000 M\$		1 1 1 1 1 1 1 1 1 1	
	9. Layout	(1) Intake	(2) L.P. Pipe		(3) L.P. Tunnel	(4) Head Pond	(5) Penstock	(6) Power Station	(7) Access Roads Improve	(8) Turb./Generator		(9) Transformer	(10) Trans. Lines		10. Construction Cost	Establishment	Civil	Mech/Electr.	Contingencies	Engineering	Total			
	1.340		1,060		10.3	11,410	8,515	1.11	88	Tot. Li Me	60.3 31.9 28.4	0.51 0.37 0.14	0.78 0.55 0.23		1.33 0.84 0.49	2.05 1.22 0.83	1.33 0.84 0.49	L 994 (3,260) M 986 (3,230)	848 (2,780)	146	20.4	126	710	460
	± ×		3. 3.		GWħ	1,000 M\$	M\$/kw	MS/KWh	%		km²	m ³ /s	т ³ /s		s/ _E w	ກ ³ /s	m³/s.	m (ft)	m (ft).	m (ft)	Œ	E	KH	X
	Inst. Capacity		Firm Peak Power		Energy	Construction Cost	Cost per kW	_	Plant Factor	Development Plan	(1) Catchment Area	(2) 365 days, 100% flow	(3) 347 days, 95% flow		(4) 256 days, 70% flow	(5) 183 days, 50% flow	(6) Des. Flow	(7) Intake WL	(8) T'race WL	(9) Gross head	(10) Head loss	(11) Net Head	(12) Firm Power	(13) 100% Power
- {	7:		2.	i	ę,	4.	5.	6.	7.	ထ							-							

Naradaw B

			-191-					Cost
,t	Inst. Capacity	КМ	850	6	9. Layout			
					(1) Intake		Concrete type	250
2.	Firm Peak Power	КМ	750		(2) L.P. Pipe	L (m) D (m)	2,220 0.7	287
m	Energy	Сжр	9.6		(3) Tunnel	К х В (m) L (m)		1,665
4	Construction Cost	1,000 M\$	8,656	1	(4) Head Pond	(m³)	3,600	335
'n	Cost per kW	M\$/kh	10,184		(5) Surge Tank	D (m)		-
6.	Cost per kWh	M\$/kwh	1.31			(m) ((m)	0.6 547	808
7.	Development Plan				(7) Power Station	Structu	Structural steel Superstructure	188
\$* **	(1) Catchment Area	km ²	31.9					
	(2) 365, days 100% flow	m ³ /s	0.37		(8) Access Roads Improv.	km km	P.S 0.8 km, Pipe 2.2 km 1.2 km	432
	(3) 347, days 95% flow	m³/s	0.55		(9) Turb./Generator	Type	Turgo Impulse/34 Synchronous	
						RPM - V	500 3,300	
	(4) 256, days 70% flow	s/ _s u	0.84	<u> </u>	(10) Transformer	kVA High (V) Low (V)	1,000 x 1 unit 36, 0A 11,000 3,300	3,481
•	(5) 183, days 50% flow	m ³ /s	1.22		(11) Trans. Lines	Type	Steel Post	43
						V. KM)	11.0	
	(6) Des. Flow	m³/s	0.84	ä	Construction Cost			
	(7) Intake WL	m (ft)	L 994 (3,260)		Establishment			250
	(8) T'race WL	m (ft)	848 (2,780)		Civil			3,858
	(9) Gross head	E	145		Mech/Electr.			3,481
	(10) Head loss	E	20.4		Contingencies			616
		E	126	-	Engineering			451
	(12) Firm Power	Κ¥	500		Total			8,656
-	(13) 100% Power	Υ×	373					

Naradaw C

								Cost
Inst. Capacity		35 %	490	6	<u> </u>			
					(1) Intake		Concrete type	203
Firm Peak Power		K.K.	310		(2) L.P. Pipe	(m) (m) (m)	1,137	739
Energy		GWh	3.7		(3) Tunnel	H × B (m)		
Construction Cost		1,000 MS	9,090		(4) Head Pond	(m ³)	2,120	153
Cost per kW	_	М\$/к₩	12,429		(5) Surge Tank	[D-(m)		-
Cost per kWh		M\$/kwh	1.65	<u></u>	(6) Penstock	(m) (m) 0	0.5 547	782
Development Plan	_			<u>:</u>	(7) Power Station	Structur	Structural Steel Superstructure	135
(1) Catchment Area		km²	28.4					
(2) 365, days 100% flow	i	m³/s	0.14		(8) Access Roads Improv.	ê ê	2.0	304
(3) 347, days 95% flow	i i	m³/s	0.23		(9) Turb./Generator	Туре	Turgo Impulse/36 Synchronous	
						K SW	500 rpm 3,300	
(4) 256, days 70% flow	l	m ³ /s.	0.49	<u> </u>	(10) Transformer		580 x I unit 36, 0A	2,648
						High (V)	11,000 3,300	
(5) 183, days 50% flow		m³/s	0.83	4 %	(11) Trans. Lines	Type Size	Steel Post HAL 0.165 sq.in	43
						(kV (L (km)	11.0	
(6) Des. Flow		m ³ /s	0.49	9	. Construction Cost			
(7) Intake WL	i '	m (ft)	986 (3,230)		Establishment	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		550
(8) T'race WL	ı i	m (ft)	848 (2,780)		: . : :			2,463
(9) Gross head	1	II	138		Mech/Electr.			2,648
(10) Head Joss		m.	13		Contingencies			407
(11) Net Head		m,	1.25		Engineering			322
(12) Firm Power		κW	210		Total			060'9
(13) 100% Power	.	K#	126	-				

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				.*				Cost
Ħ.	Inst. Capacity	**	1,540	6	Layout			
					(1) Intake		000000	. 30
,					(ד) זוורמעכ		addi araunion	705
;	rimi reak rower	*	1,100		(2) L.P. Pipe	(E)	Liwagu 2,640	2,370
				•			Mesilau 600	
							0.6	
m	Energy	GWh	9.11		(3) Tunnel	H × B (m)		
4.	Construction Cost	1,000 M\$	11,410		(4) Head Pond	(m³)	5, 100	399
5	Cost per kW	M\$/k₩	7,409		(5) Surge Tank	0 (m)		
φ.	Cost per KWh	MS/KWh	0.96			(m) (m)	0.7-624	1,167
7	Development Plan		Tot. Li Me	,	(7) Power Station		Structual steel superstructure	291
	(1) Catchment Area	km ²	59.2 31.1 28.1					
	(2) 365, days 100% flow	m ³ /s	0.40 0.26 0.14	······································	(8) Access Roads	ž.	1-4	564
	(3) 347, days 95% flow	m ³ /s	0 62 0 40 0 22		(a) Timb /Constant	EX .	7-1	
			2		(a) iurb./ueneracor	ype	lurgo impulse/3¢ Synchronous Gen x 2 units	
						RPM V	1,000	
	(4) 256, days 70% flow	m³/s	1.17 0.69 0.48		(10) Transformer	kVA High (V)	1,820 × 1 unit 36, 0A	4,380
	(5) 183, days 50% flow	m ³ /s	1.88 1.06 0.82		(11) Trans Lines		3,300 C+eel Dos+	C.C.
	•						HAL 0.166 sq.in 11	}
	(6) flee, Flow	m3/c	117 0.50 0.40	٥		L. (km)	1.0	
		, iii / 3	- 1		construction cost		-	
	(7) Intake Wi	m (ft)	Li 1,037 (3,400) Me 1,032 (3,380)		Establishment			300
	- 1	m (ft)	848 (2,780)		Civil			5,295
	(9) Gross head	E	189		Mech/Electr.			4,380
	(10) Head loss	E	24		Contingencies			839
	E	ш	165		Engineering			989
	(12) Firm Power	K#	740		Total			11,410
	.(13) 100% Power	κ.Σ	480			-		

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								Cost
	. Inst. Capacity	አ አ	1,070	6	Layout			
					(1) Intake		Concrete type	483
2.	. Firm Peak Power	НX	840	I	(2) L.P. Pipe	Г (ш) О (ш)	Liwagu 2,370 0.7	2,419
							Mesilau 987 0.6	
<u>س</u>	. Energy	GWh	e. 8		(3) Tunnel	H x B (m) L (m)		
4	. Construction Cost	1,000 M\$	10,620		(4) Head Pond	(m ³)	5,750	424
9	. Cost per kW	M\$/kW	9,925		(5) Surge Tank	D (m)		
9	. Cost per kWh	M\$/kwh	1.28		(6) Penstock	0 (m) L (m)	0.8	999
7	7. Development Plan		Tot. Li Me		(7) Power Station		Structual steel superstructure	201
	(1) Catchment Area	km ²	60.3 31.9 28.4			:		
	(2) 365, days 100% flow	m ³ /s	0.51 0.37 0.14		(8) Access Roads Improv.	A H	4.6	624
	(3) 347, days 95% flow	m³/s	0.78 0.55 0.23		(9) Turb./Generator	Туре	Turgo Impulse/36 Synchronous	1
						RP₩ V	750 3,300	
	(4) 256, days 70% flow	m ³ /s	1.33 0.84 0.49		(10) Transformer	kvA High (V) Low (V)	1,265 x 1 unit 34, 0A 11,000 3,300	4 138
	(5) 183, days 50% flow	m³/s	2.05 1.22 0.83	·	(11) Trans. Lines	Type Size	Steel Post HAL 0.166 sq.in	43
						kV- L (km)	11.	
	(6) Des. Flow	m ³ /s	1.33 0.84 0.49	10.	Construction Cost			
	(7) Intake WL	m (ft)	Li 994 (3,260) Me 986 (3,230)		Establishment			300
	(8) Tirace WL	m (ft)	874 (2,870)		Civ†l "			4,854
	(9) Gross head	1 E	120		Mech/Electr.			4,138
	(10) Head loss	u	20		Contingencies			773
	(11) Net Head	E	100	· ·	Engineering			555
·		ΚW	260		Total			10,620
	(13) 100% Power	Κ₩	370					:

								COSC
Inst. Capacity kW	₹.		1,600	6	Layout			-
	1.1				(1) Intake		Concrete type	450
Firm Peak Power	X		1,260		(2) L.P. Pipe	(m) (m)	1,500	1,620
Energy SWh	S. L.		12.3		(3) L.P. Tunnel	К х В (m) [_(m)	1.8 x 1.5 1,000	5,000
Construction Cost 1,0	1,0	1,000 M\$	16,580	-	(4) Head Pond	(m³)	6,264	442
Cost per kW MS/KW	/\$W	КЖ	10,363		(5) Penstock	(m) C	0.8 520	1,082
Cost per kWh MS/	/\$W	M\$/KWh	1.35		(6) Power Station		Structural Steel Superstructure	282
Plant Factor	%		88		(7) Access Roads Improve	Km Km	1.6 3.5	402
Development Plan					(8) Turb./Generator	adk <u>i</u>	Turgo Impulse/34 Synchronous	:
(1) Catchment Area km²	к т х	: .	65.5			RPM V	750 3,300	
(2) 365 days, 100% flow m³/s	°E	s	0.55		(9) Transformer	KVA High (V)	1,880 × 1 unit 3¢ 0A 11,000 3 300	4,675
(3) 347 days, 95% flow m ³ /s	°E	S	0.85	,	(10) Trans. Lines	Type	Steel Post	22
	. : . <u> </u>		:			Size	HAL 0.166 sq.in	
		-				L (km)	1.0	
(4) 256 days, 70% flow m ³ /s	m3	s/	1.45	10.	Construction Cost			
(5) 183 days, 50% flow m ³ /s	ر ا	s/	2.23		Establishment	1,000 MS		300
(6) Des. Flow m ³ /s	Ш3,	5,	1.45		Civil	1,000 M\$		9,300
(7) Intake WL m (E	m (ft)	830 (2,730)	<u></u>	Mech/Electr.	1,000 M\$		4,676
(8) T'race WL	E	m (ft)	671 (2,200)		Contingencies	1,000 M\$		1,440
(9) Gross head	Ε	(ft)	159		Engineering	1,000 M\$		864
(10) Head loss	E		22		Total	1,000 M\$		16,580
(11) Net Head	Æ		137			-		
(12) Firm Power kW	크		840					
(13) 100% Power kW	ž		540					

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								Cost
7	1. Inst. Capacity	五五	2,140	6	Layout			:
	:				(1) Intake		Concrete type	450)
2	2. Fîrm Peak Power	Z.	1,700		ipe	(m) (m)	2,070 1.0	2,235
m	3. Energy	GWh	16.5		(3) Tunnel	H x B (m)	1.000	5,000
4	4. Construction Cast	1,000 M\$	21,290		(4) Head Pond	(m³)	6,264	442
S	. Cost per KW	M\$/kW	9,949	<u> </u>	(5) Surge Tank	0 (m)		Ø
မ	6. Cost per kWh	M\$/kwh	1.29			(m) G	1.0	367
		%	88			L (m)	1,910	:
σ.	8. Development Plan				(7) Power Station	Structun	Structural Steel Superstructure	
	(1) Catchment Area	km ²	65.5					
	(2) 365 days, 100% flow	s/ _c ^m	0.55		(8) Access Roads Improv.	至臣	3.8	069
:	(3) 347 days, 95% flow	m ³ /s	0.85		(9) Turb./Generator	Type	Turgo Impulse/34 Synchronous	
						RPM V	1,600 3,300	
	(4) 256 days, 70% flow	m³/s	1.45 are	· · · · · · · · · · · · · · · · · · ·	(10) Transformer	kvA High (V)	2,520 x I unit 34, 0A 11,000 3,500	5,024
		3,				TOW (V)	2,300	
	(5) 165 days, 50% (10W	S/W	7.53		(II) irans. Lines	lype Size	Steel Post HAL 0.166 sq.in	71
-						KV L (km)	11,600 1:0	
	(6) Des. Flow	m³/s	1.45	10.	Construction Cost		8	
:	(7) Intake WL	m (ft)	830 (2,730)		Establishment			300
	(8) T'race WL	m (ft)	(510 (2,000)		Civil			12,877
	(9) Gross head		220		Mech/Electr.	The second secon		5,024
	(10) Head loss	E	36		Contingencies			1,977
	(11) Net Head	Ħ	184		Engineering			1,112
	(12) Firm Power	KW	1,130		[Total	: 1		21,290
	(13) 100% Power	X.	730					

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							Cost
Inst. Capacity	KK	2,340	6	Layout			
			:	(1) Intake		Concrete type	650
Firm Peak Power	ΚM	1,850		(2) L.P. Pipe	(m) (m) (m)	5,160 1.0 - 1.1	5,765
	СЯh	18.1		(3) Tunnel	H x B.(m) L (m)	1.5 × 1.2 1,000	5,000
Construction Cost	1,000 MS	25,300		(4) Head Pond	(m³)	7,517	485
	M\$/KW	10,812		(5) Surge Tank	(m)		0
Cost per kWh	MS/KWh	1.40		(6) Penstock	(m) a	1.0	2,737
Plant Factor	o/o	88			[(m)	1.150	
Development Plan		Tol. Li Mo.		(7) Power Station	Structur	Structural Steel Superstructure	375
(1) Catchment Area	km ²	78.5 65.5 13.0					
365 days, 100% flow	m³/s	0.66 0.55 0.11	-	(8) Access Roads Improv.	<u>5</u>	3,5	841
(3) 347 days, 95% flow	m ³ /s	1.02 0.85 0.17		(9) Turb./Generator	Type	Turgo Impulse/34 Synchronous	
					RPM V	Gen x 2 units 1,000 3,300	
(4) 256 days, 70% flow	m ³ /s	1.74 1.45 0.29		(10) Transformer	kvA High (v) Low (v)	2,760 x 1 unit 36, 0A 11,000 3,300	5,375
(5) 183 days, 50% flow	m ³ /s	2.67 2.23 0.44		(11) Trans. Lines		Steel Post HAL 0.166 sq.in	22
Flow	m ³ /s	1.74 1.45 0.29	10.	Construction Cost			
(7) Intake WL	m (ft)	830 (2,730)		Establishment			300
T'race WL	m (ft)	610 (2,000)		Civil			15,876
Gross head	ш	220		Mech/Electr.			5,375
Head loss	E	52	····	Contingencies			2,426
(11) Net Head	m	168		Engineering	·		1,323
(12) Firm Power	KW	1,230		Total			25,300
100% Power	**	800					

Gantong D

						:		Cost
ہۃ	1. Inst. Capacity	¥.¥	1,610	6	Layout			
1					(1) Intake		Concrete type	450
2.	Firm Peak Power	ጽ <u></u>	1,280		(2) L.P. Pipe	(m) D (m)	1,920	2,074
m	Energy	GWh	12.4	<u>: </u>	(3) Tunnel	H x B (m)		0
4	Construction Cost	1,000 MS	13,510	·	(4) Head Pond	(m³)	6,050	435
5	Cost per kW	M\$/KW	8,391		(5) Surge Tank	(ii)		8
တ	Cost per kWh	чму/\$м	1.09		(6) Penstock	D (m)	1.0	3,280
	Plant Factor	9/0	88			(m)	2,010	
ထံ	Development Plan			<u> </u>	(7) Power Station	Structu	Structual Steel Superstructure	271
	(1) Catchment Area	km ²	63.5					ar yezhoù en da da
	(2) 365 days, 100% flow	m³/s	0.53	<u> </u>	(8) Access Roads Improv.	k sa	2.3	336
	(3) 347 days, 95% flow	m ³ /s.	0.82	<u> </u>	(9) Turb./Generator	Type	Turgo Impulse/36 Synchronous	
				<u> </u>		RPM V	750 x 2 diffes 3,300	
	(4) 256 days, 70% flow	m ³ /s	1.40		(10) Transformer	kVA High (V) Low (V)	1,900 × 1 unit 36, 0A 11,000 3,300	4,560
	(5) 183 days, 50% flow	m ³ /s	2.16		(11) Trans. Lines		Steel Post HAL 0.166 sq.in	22
			A second			υ)	11.0 0.5	
	(6) Des. Flow	m ³ /s	1.40	2	. Construction Cost			
	(7) Intake WL	m (ft)	842 (2,760)	<u>. 88</u>	Establishment			300
: 1	(8) T'race, WL	m (ft)	(671 (2,200)	e e	Civij			6,868
į,	(9) Gross head	E	171		Mech/Electr.			4,550
	(10) Head loss	: ::::::::::::::::::::::::::::::::::::	27		Contingencies			1,075
:	(11) Net Head		144	!	Engineering			707
	(12) Firm Power	Κ₩	1,280		Total			13,510
	(13) 100% Power	KW	550					

								Cost
·	1. Inst. Capacity	35	1,700	6	Layout			
					(1) Intake		Concrete type	443
	2. Firm Peak Power	KA.	1,320		(2) L.P. Pipe	(m) (m)	2.040	2,203
لـــــا	3. Energy	Счћ	11.2		(3) Tunne T	H x B (m) L (m)	1.5 × 1.2 500	2,500
	4. Construction Cost	1,000 M\$	14,340		(4) Head Pond	(m³)	6,050	435
	5. Cost per kW	M\$/kk	8,435		(5) Surge Tank	(m)		0
		M\$/kwh	1.28		(6) Penstock	(w) 7 (w) 0	0.8 475	988
	_	//*	(2)					
<u></u>	8. Development Plan				(7) Power Station		Structual Steel Superstructure	300
	(1) Catchment Area	km ²	63.5					
· 4	(2) 365 days, 100% flow	s/ _E ^m	0		(8) Access Roads Improv.	Km Km	3.2	505
	(3) 347 days, 95% flow	s/ _s m	0.29		(9) Turb./Generator	Туре	Turgo Impulse/34 Synchronous	
						RРМ V	1,000 3,300	1
	(4) 256 days, 70% flow	m³/s	1.40		(10) Transformer	kvA High (V) Low (V)	2,000 x 1 unit 36, 0A 11,000 3,300	4,720
	(5) 183 days, 50% flow	m ³ /s	2.16		(11) Trans. Lines	Type Size	Steel Post HAL 0.166 sq.in	34
						(1	11.0	
	(6) Des. Flow	m³/s	1.40	10.	Construction Cost			
	(7) Intake WL	m (ft)	842 (2,760)		Establishment			300
	(8) T'race WL	m (ft)	671 (2,200)		Civil			7,412
	(9) Gross head	E	171		Mech/Electr.			4,720
	(10) Head loss	E	22		Contingencies			1,157
	(11) Net Head	ε	149		Engineering			751
	(12) Firm Power	KE	350		Tota]	·		14,340
	(13) 100% Power	КН	0					

Pakai

-								Cost
	Allst. capacity	X.	2,700	6	Layout			
	 +-			·····	(1) Intake	·	Concrete type	C L
2.	Firm Peak Power	**	850		(2) L.P. Pipe	(E) 1	3,360	8,965
m	Energy	ежь	17.7		(3) L.P. Tunnel	H x B (m)	1.8 × 1.5	0
4	Construction Cost	1,000 M\$	22,270	·	(4) Head Pond	(m ³)	8,467	517
ທ່	Cost per kW	M\$/kW	8,248		(5) Penstock	(E) O	0.9	1,651
9		M\$/kwh	1.25		(6) Power Station		Structural Steal Superstructure	V . V
۲,		۰%	75		(7) Access Roads Improve	ri,	4.4	531
∞ ⋅	Development Plan				(8) Turb./Generator	Type	Turgo Impulse/36 Synchronous	
	(1) Catchment Area	km ²	6.88			RPM	Gen. x 2 units 1,000 3,500	
	(2) 365 days, 100% flow	m³/s	0		(9) Transformer	KVA	3,180 x 1 unit 36 0A	5,731
						High (V)	11,000	
	(3) 347 days, 95% flow	m³/s	0.41		(10) Trans. Lines	Type	Steel Post	301
				<u> </u>		(Kil)	11.0	
	(4) 256 days, 70% flow	m³/s	1.96	10.	Construction Cost			
	(5) 183 days, 50% flow	m³/s	3.02		Establishment	1,000 MS		350
	(6) Des. Flow	m²/s	1.96		Civi1	1,000 M\$		13,025
	(7) Intake WI	n (ft)	625_(2,050)		Mech/Electr	1,000 M\$		5,731
		m (ft)	415 (1,360)		Contingencies	1,000 M\$		2,006
	(9) Gross head	m (ft)	210		Engineering	1,000 M\$		1.158
	(10) Head loss	E	37	<u></u>	Total	1,000 M\$		22.270
	(11) Net Head		173					
	(12) Firm Power	KW	570					
	(13) 100% Power	KH						

1. Instit. Capacity	ı								Cost
Firm Peak Power KM 520 (2) L.P. Pipe L (n)	r-i		×	1,150	6	Layout			
Firm Peak Power						(1) Intake		Concrete type	156
Cost per kW K/kW 9.548 (3) Tumbel H x B (n)	2.			620			(m) 0 (m)	1,740	940
Cost per kN	က		GWh:	8.8		(3) Tunnel	H × B (m)		0
Cost per kW M\$/kW 9,548 (5) Surge Tank D (m)	4		1,000 MS	10,980		(4) Head Pond	(m ₃)	1,512	217
1.25 Development Plan 1.25 Development Plan 1.25 2.2.2 Development Plan 1.25 (1) Catciment Area km² 2.2.2 (2) 365, days 100¢ flow m³/s 0.09 (8) Access Roads km (3) 347, days 95¢ flow m³/s 0.14 (9) Turb/Generator Type (4) 256, days 70¢ flow m³/s 0.35 (10) Transformer Kigh (v) (5) 183, days 50¢ flow m³/s 0.35 (10) Transformer Kigh (v) (6) Des. Flow m²/s 0.35 (10) Transformer Kigh (v) (7) Intake Wi. m (ft) 976 (3.200) (5) vil (8) Trace Mi. m (ft) 976 (3.200) (5) vil (9) Gross head m (ft) 976 (3.200) (5) vil (10) Head loss m 30 (5) vil (11) Het Head m 442 (5) m (12) Firm Power kik 100 (13) 100% Power kik 270 (14) (15) m (13) 100% Power kik 270 (15) m (14) Met Head m 270 (15) m (15) Firm Power kik 270 (15) m (15) Firm Power kik 270 (15) m (16) Firm Power kik 270 (15) m (17) Firm Power kik 270 (15) m (18) Firm Power kik 270 (15) m (19) Firm Power kik 270 (15) m (10) Firm Power kik 270 (15) m (11) Firm Power kik 270 (15) m (12) Firm Power kik 270 (15) m (13) 100% Power kik 270 (15) m (14) Firm Power kik 270 (15) m (15) Firm Power kik 270 (15) m (15) Firm Power kik 270 (15) m (16) Firm Power kik 270 (15) m (17) Firm Power kik 270 (15) m (18) Firm Power kik 270 (15) m (19) Firm Power kik 270 (15) m (19) Firm Power kik 270 (15) m (10) Firm Power kik 270 (15) m (11) Firm Power kik 270 (15) m (12) Firm Power kik 270 (15) m (13) Firm Power kik 410 (15) m (14) Firm Power kik 410 (15) m (15) Firm Power kik 410 (15) m (15) Firm Power kik 410 (15) m (15) Firm Power kik kik	2		M\$/kW	9,548		(5) Surge Tank	D (ш)		
1 1 1 1 1 1 1 1 1 1	6.		MS/KWh	1.25		(6) Penstock	(m) a	0.4	3,630
1) Catcinnent Plan 22.2	7	1	*	87			[L (m)	2,630	
Catchment Area km² 22.2 385, days 100% flow m³/s 0.09 (8) Access Roads km 347, days 95% flow m³/s 0.14 (9) Turb./Generator Type 256, days 70% flow m³/s 0.35 (10) Transformer kW 256, days 70% flow m³/s 0.61 (10) Transformer kW 183, days 50% flow m³/s 0.61 (11) Trans. Lines Type 183, days 50% flow m³/s 0.61 (11) Trans. Lines Type 183, days 50% flow m²/s 0.61 (11) Trans. Lines Type 183, days 50% flow m²/s 0.35 (11) Trans. Lines Type 184, days 0.62 (11) Trans. Lines Type 185, days 50% flow m²/s 0.35 (11) Trans. Lines Type 185, days 50% flow m²/s 0.35 (11) Trans. Lines Type 186, days 50% flow m²/s 0.35 (11) Trans. Lines Type 187 Contingencies Ky (11) Trans. Lines	ထ					(7) Power Station	Structur	al steel Superstructure	321
365, days 100% flow m³/s 0.09 (8) Access Roads km 347, days 95% flow m³/s 0.14 (9) Turb./Generator Type 256, days 70% flow m³/s 0.35 (10) Transformer RPM 256, days 70% flow m³/s 0.61 (11) Transformer NAA 183, days 50% flow m³/s 0.61 (11) Trans. Lines Type 183, days 50% flow m²/s 0.61 (11) Trans. Lines Type 185, days 50% flow m²/s 0.61 (11) Trans. Lines Type 185, days 50% flow m²/s 0.35 10. Construction Cost L(km) 185, days 50% flow m²/s 0.35 10. Construction Cost L(km) 185, days 50% flow m²/s 0.35 10. Construction Cost L(km) 185, days 50% flow m²/s 0.35 10. Construction Cost L(km) 186, days flow m²/s 0.35 10. Construction Cost L(km) 186, days m²/s 0.35 10. Construction Cost Construction Cost		(1) Catchment Area	km ²	22.2					
347, days 95% flow m³/s 0.14 (9) Turb./Generator Type 256, days 70% flow m³/s 0.35 (10) Transformer kVA 183, days 50% flow m³/s 0.61 (11) Trans. Lines Type 185, days 50% flow m³/s 0.61 10.0 10.0 10.0 185, days 50% flow m³/s 0.35 10.0		(2) 365, days 100% flow	м ³ /s	0.09		1	5 5	5.4	828
256, days 70% flow m³/s 0.35 (10) Transformer RVA High (V) Low (V) 183, days 50% flow m³/s 0.61 (11) Trans. Lines Type Low (V) 183, days 50% flow m³/s 0.61 10. (11) Trans. Lines Type KV 5/2e KV 10 Construction Cost Establishment L (km) 10 Gross head m (ft) 976 (3,200) Establishment L (km) Net Head loss m 442 Contingencies Engineering Net Head m 412 Engineering Engineering Firm Power kW 410 Total Total		(3) 347, days 95% flow	m³/s	0.14		(9) Turb./Generator		Pelton/34 Synchronous Gen x 2	
256, days 70% flow m³/s 0.35 (10) Transformer kVA 183, days 50% flow m³/s 0.61 10, 0.61 10, 0.61 10, 0.61 10, 0.35	e e e e e e e e e e e e e e e e e e e							1,500 3,300	CONTRACTOR OF THE CONTRACTOR O
183, days 50% flow m³/s 0.61 (11) Trans. Lines Type Size kW Des. Flow m²/s 0.35 10. Construction Cost Establishment L (km) Intake WL m (ft) 1.418 (4.650) Establishment L (km) Intake WL m (ft) 976 (3,200) Civil Mech/Electr. Gross head m 442 Mech/Electr. Contingencies Met Head loss m 412 Engineering Engineering Firm Power kW 410 Total Total		(4) 256, days 70% flow	m ³ /s	0.35		(10) Transformer	·(v)·	1,350 11,000 3,300	3,014
Des. Flow m²/s 0.35 10. Construction Cost L (km) Intake WL m (ft) 1.418 (4.650) Establishment Civil Gross head m 442 Mech/Electr. Head loss m 442 Mech/Electr. Net Head m 412 Engineering Firm Power kh 410 Total 100% Power kh 270 Total		(5) 183, days 50% flow	m ³ /s	0.61		(11) Trans. Lines		Steel Post HAL 0.166 sq.in 11	34
Des. Flow m²/s 0.35 10. Const Intake WL m (ft) 1.418 (4.650) 10. Const Intake WL m (ft) 976 (3,200) 10. Const Gross head m (ft) 442 10. Const Head loss m (ft) 30 10. Const Net Head m (ft) 412 10. Const Firm Power kW 410 10. Const IOO% Power kW 270 10. Const							(1)	0.8	
Intake WL m (ft) 1.418 (4.650) T'race WL m (ft) 976 (3.200) Gross head m 442 Head loss m 30 Net Head m 412 Firm Power kH 410 100% Power kH 270	-	(6) Des. Flow	m ³ /s	0.35	10	Construction Cost			
Firace ML m (ft) 976 (3,200) Gross head m 442 Head loss m 30 Net Head m 412 Firm Power kH 410 Firm Power kH 270		(7) Intake WL	m (ft)	1.418 (4,650)		Establishment			300
Gross head m 442 Head loss m 30 Net Head m 412 Firm Power kW 410 100% Power kW 270		(8) I'race WL	m (ft)	}		Civil			6,126
Head loss m 30 Net Head m 412 Firm Power kH 410 100% Power kH 270			E	442		Mech/Electr.			3,014
Net Head m 412 Firm Power kW 410 100% Power kW 270	.,	(10) Head loss	E	30		Contingencies	-		964
100% Power KW 410		(11) Net Head	E	412		Engineering			575
100% Power		(12) Firm Power	KW	410		Total			10,980
		- 1	₹	270	_				

Lamas 2

								Cost
÷	Inst. Capacity	★	8,400	6	Layout			
					(1) Intake	:	4040400	i i
2.	Firm Peak Power	МЯ	4,450		(2) L.P. Pipe	(<u>=</u>)	3.360	3 520
٢						0 (m)	1.0	630.0
'n.	Energy	GWh	65.0		(3) Tunnel	H × B (m)		
4	Construction Cost	1,000 M\$	37,790	- <i>-</i>	(4) Head Pond	(m ³)		0
က	Cost per kW	MS/kw	4,500		(5) Surge Tank	(m ³)	280	135
9	Cost per KWh	M\$/kwh	0.58		(6) Penstock	(m)	αc	4.00
7	Plant Factor	¢/0	88			(E)	1.370	7/0'5
ω.	Development Plan				(7) Power Station	Structur	Structural Steel Superstructure	1.217
-14 14 · · · · · ·	(1) Catchment Area	km ²	72.9					
POLINICA INC. POL	(2) 365, days 100% flow	m³/s	0.61		(8) Access Roads	2 2	\$ w	10,303
., ,,	(3) 347, days 95% flow	m ³ /s	0.95		(9) Turb./Generator	Type	Pelton/3¢ Synchronous Gen x 2	
						RPM		
						A	3,300	1
	(4) 250, days /U% TIOW	S/E	1.61		(10) Transformer	kva High (v)	9,880 x 1 unit 34, 0A 65,000	7,255
		~				(V) LO₩ (V)	3,300	
	(5) 183, days 50% flow	s/cm	2.48		(11) Trans. Lines	Type Size	Steel Tower HAL 0.1045 sq.in	3,900
					7 4	. (1	86 32.5	
	(6) Des. Flow	m ³ /s	1.61	2	Construction Cost			
:	(7) Intake WL	m (ft)	1,220 (4,000)		Establishment			500
	(8) T'race WL	m (ft)	534 (1,750)		Civil			24.331
	(9) Gross head	an .	989		Mech/Electr.			7,255
:	(10) Head loss		34		Contingencies			3,730
	(11) Net Head	E	652		Engineering			1,974
	(12) Firm Power	KW	4,450		Total			37, 790
	(13) 100% Power	k₩	2,870					
 •.								

								Cost
÷.	Inst. Capacity	X.X.	3,180	တ်	Layout			
				· ·	(1) Intake		Concrete type	236
2.	Firm Peak Power	kж	3,180		(2) L.P. Pipe	(m) (a)	3,360	2,352
3.	Energy	ежь	27.7		(3) Tunnel	Н х В (m) L (m)		
4	Construction Cost	1,000 M\$	29,080		(4) Head Pond	(m³)		1
5.	Cost per kW	MS/KH	9,145		(5) Surge Tank	D (m)		74
9	Cost per KWh	MS/KWh	1.05		(6) Penstock	(w) a	0.60	2,042
~	Plant Factor	010	66			L (m)	1,3/U	
∞ .	Development Plan				(7) Power Station	Structu	Structual steel superstructure	089
- No.	(1) Catchment Area	km²	72.9					
	(2) 365, days 100% flow	m³/s	0.61		(8) Access Roads Improv.	2 2	84 5	. 10,303
	(3) 347, days 95% flow	m³/s	0.95		(9) Turb./Generator	Type	Pelton/3¢ Synchronous Gen x 2	
						RPM V	uilts 1,500 3,300	
	(4) 256, days 70% flow	s/ _s ш	1.61		(10) Transformer	kvA High (V) Low (V)	3,750 x 1 unit 65,000 3,300	4,464
	(5) 183, days 50% flow	s/s#	2.48		(11) Trans. Lines	Type Size KV	Steel Post HAL 0.1045 sq.in 66	3,900
		ę				L (km)	32.5	
	(6) Des. Flow	m²/s	0.61	ģ.	Construction Cost			
	(7) Intake WL	m (ft)	1,220 (4,000)		Establishment			500
	(8) T'race WL	m (ft)	534 (1,750)		Civil			19,587
	(9) Gross head	E	989		Mech/Electr.			4,464
	(10) Head loss	E	34		Contingencies			3,013
	(11) Net Head	E	652		Engineering			1,516
	(12) Firm Power	¥.	3,180		Total			29,080
	(13) 100% Power	KM	2,860					
		!						

2. Selection of Optimum Plan in Chapter 9

- (1) Saleable Energy of Alternative Plans
- (2) Cash Flow of Benefit Cost Ratio of Alternative Plans
- (3) Construction Cost of Alternative Plans

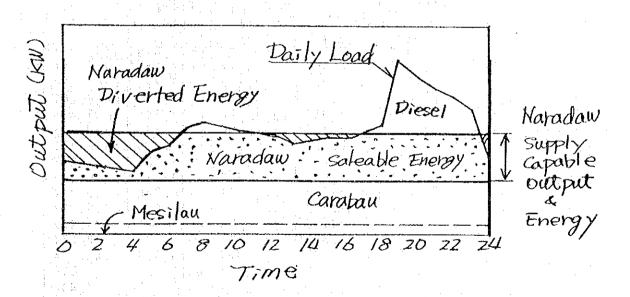
These Data relate to Table 9-2 in Final Report.

z. selection of Optimum Plan

(1) Saleable Energy of Alternative Plans

Saleable Energy of Mesilau & Carabau

		and		Energy Sup	plied (MWh)	Diese
	Max.	Annual	Mesi	lau	Cara	bau	1 :
Year	Demand	Energy	Saleable 2	99 kW	Saleable 2.	000 kW	(MWh)
	(kW)	(MWh)	Used	Disch	Used	Disch	
1992	1,690	7,719	1.925	0	4,796	4,690	998
1993	1.920	8,921	1,925	0	5,589	3,896	1,407
1994	2.200	10.208	1,925	. 0	6,345	3.140	1,938
1995	2.520	11,583	1,925	0	7,036	2,449	2,622
1996	2,740	12,943	1,925	0	7.614	1.871	3,404
1997	3,020	14,267	1,925	0	8,115	1,371	4,227
1998	3,320	15.715	1,925	0	8.579	906	5,2//
1999	3,640	17.201	1,925	0	8.891	594	6,385
2000	3,930	18,958	1,925	. 0	9,103	383	7,930
2001	4,220	20,320	1,925	0	9,213	272	9,182
2002	4,530	21.843	1.925	0	9.311	174	10,607
2003	4,880	23,494	1,925	0	9,390	95	12,179
2004	5,230	25,204	1.925	0	9,448	37	13,831
2005	5,620	27,064	1,925	0	9,485	0	15,654
2006	5,960	28.715	1.925	0	9.485	0	7,305
2007	6,310	30,467	1,925	0	9,485	0	19,057
	Total	294,622	30,805	0	131,887	19,878	



Minimum water requirement at the river between two intakes and the powerhouse is assumed to be 0.10 mils in total

			<u> </u>			
:	Dem	and		Energy Sup	plied (MWh)
	Max.	Annual	Mesi	lau	Cara	
Year	Demand	Energy	2	99 kW	2,	000 kW
	(kW)	(MWh)	Used	Disch	Used	Disch
2000	3,930	18,958	1,925	0	9,103	383
2001	4,220	20,320	1,925	0	9,213	272
2002	4,530	21,843	1,925	0	9,311	174
2003		23,494	1,925	0	9,390	95
2004	5,230	25,204	1,925	0	9,448	37
2005	5,620	27,064	1,925	0	9,485	0
2006	5,960	28,715	1,925	0	9,485	0
2007	6,310	30,467	1,925	0	9,485	0
2008	6,690	32,325	1,925	0	9,485	0
2009	7.100	34,297	1,925	0	9,485	0
2010	7,590	36,585	1,925	0	9,485	0
2011	7,860	37,902	1,925	0	9,485	0
2012	8.150	39,267	1,925	0	9,485	0
2013	8,440	40,680	1,925	0	9,485	0
2014	8,740	42,145	1,925	0	9,485	0
2015	9,050	43.617	1,925	0	9,485	0
	Total	502,883	30,805	0	150,804	961

	Dem	and		Energy Sup	plied (MWh)
	Max.	Annual		daw1	Hydro	
Year	Demand	Energy	saleable 1.	220 kW	Total	Diesel
	(kW)	(MWh)	Used	Disch	Used	
2000	3,930	18,958	3,982	3,236	15,010	3,948
2001	4,220	20,320	4,507	2,712	15,645	4,675
2002	4,530	21,843	5,054	2,165	16,291	5,552
2003	4,880	23,494	5,582	1,637	16,897	6,597
2004	5,230	25,204	6,014	1,205	17,388	7,816
2005	5,620	27.064	6.322	896	17,733	9,331
2006	5,960	28,715	6,533	685	17,944	10,771
2007	6,310	30.467	6,710	509	18,120	12,347
2008	6,690	32,325	6.860	358	18,271	14,054
2009	7,100	34,297	6,984	234	18,395	15,902
2010	7,590	36,585	7,092	126	18,503	18.082
2011	7.860	37,902	7,140	78	18,551	19,351
2012	8,150	39,267	7.180	39	18,590	20,677
2013	8,440	40,680	7,206	13	18,616	22,064
2014	8,740	42.145	7.218	0	18,629	23,516
2015	9,050	43,617	7,218	0	18,629	24,988
	Total	502,883	101,603	13,893	283,212	219,671

64,962

Average for 25 yrs (2000) 6,663

Average for 16 yrs (2000) 6,350

Saleable Energy

Naradaw 1, 200 KW He = 170 m

	Dem	and		Energy Sup	plied (MWh	
1.00	Max.	Annual	Mesi	lau	Cara	bau
Year	Demand	Energy	2	99 kW	2.	000 k\
	(kW)	(MWh)	Used	Disch	Used	Disch
2000	3,930	18,958	1,925	0	9,103	383
2001	4,220	20,320	1,925	0	9,213	272
2002	4,530	21,843	1,925	0	9,311	174
2003	4,880	23,494	1,925	0	9,390	95
2004	5,230	25,204	1,925	0	9,448	37
2005	5,620	27,064	1,925	0	9,485	0
2006	5,960	28,715	1,925	0	9,485	0
2007	6,310	30,467	1,925	0	9,485	0
2008	6,690	32,325	1,925	. 0	9,485	0
2009	7,100	34,297	1,925	0	9,485	0
2010	7,590	36,585	1,925	. 0	9,485	0
2011	7,860	37,902	1,925	0	9,485	0
2012	8,150	39,267	1,925	0	9,485	0 (
2013	8,440	40,680	1,925	0	9.485	0
2014	8,740	42,145	1,925	0	9,485	0
2015	9,050	43,617	1,925	0	9,485	0
	Total	502,883	30,805	0	150,804	961

					1 (1411)	
	<u>Dem</u>			Energy Sup		<u>'</u>
	Max.	Annual		daw3	Hydro	
Year	Demand	Energy	Saleable 1.	200 k\	Total	Diesel
	(k₩)	(MWh)	Used	Disch	Used	
2000	3,930	18,958	4,498	3,253	15.525	3,433
2001	4,220	20,320	5,039	2.712	16,177	4,143
2002	4,530	21,843	5,597	2,154	16,834	5,009
2003	4,880	23,494	6,136	1,615	17,451	6,043
2004	5,230	25,204	6,567	1,184	17,941	7,263
2005	5,620	27,064	6,875	875	18,286	8,778
2006	5,960	28,715	7,087	664	18,498	10,217
2007	6,310	30,467	7,260	491	18,671	11,796
2008	6,690	32,325	7,408	342	18,819	13,506
2009	7,100	34,297	7,530	221	18,940	15.357
2010	7,590	36,585	7,634	117	19,045	17,540
2011	7,860	37,902	7,680	71	19,090	18,812
2012	8,150	39,267	7,716	34	19,127	20,140
2013	8,440	40,680	7,742	9	19,153	21,527
2014	8,740	42.145	7,751	0	19,161	22,984
2015	9,050	43,617	7,751	0	19.161	24,456
	Total	502,883	110,270	13,742	291,880	211,003

69,759

180,029

Average for 16 yrs (2000) 7,201

6,892

Saleable Energy

Naradaw 1,600KW

 $He = 170 \, \text{m}$

				and the second of the second o	and the second of the second of		
	Dem	and		Energy Sup	plied (MWh)	
	Max. Annual			lau	Carabau		
Year	Demand	Energy	<u> </u>	99 kW	2,000 kW		
	(k#)	(MWb)	Used	Disch	Used	Disch	
2000	3,930	18,958	1,925	0	9,103	383	
2001	4,220	20,320	1,925	0	9,213	272	
2002	4,530	21.843	1,925	0	9,311	174	
2003	4,880	23,494	1,925	0	9,390	95	
2004	5,230	25.204	1,925	0,	9,448	37	
2005	5,620	27.064	1,925	0	9,485	0,	
2006	5,960	28.715	1.925	[9,485	0	
2007	6,310	30,467	1,925	0	9,485	0	
2008	6,690	32,325	1,925	0	9,485	0	
2009	7,100	34.297	1,925	0	9,485	0	
2010	7,590	36,585	1,925	0	9,485	0	
2011	7,860	37,902	1,925	. 0	9,485	0	
2012	8,150	39.267	1,925	0.	9,485	.0	
2013	8,440	40,680	1,925	0	9,485	0	
2014	8,740	42,145	1,925		9,485	0	
2015	9,050	43,617	1,925	0.	9,485	0	
	Total	502,883	30,805	0	150,804	961	

	Dem	and		Energy Sup	plied (MWh)
	Max.	Annual		daw2	Hydro	
Year	Demand	Energy	saleable 1.	600 kW	Total	Diesel
	(kW)	(MWh)	Used	Disch	Used	
2000	3,930	18,958	4,806		15,834	3,124
2001	4,220	20,320	5,446	4,245	16,585	3,735
2002	4,530	21,843	6,117		17,354	4,489
2003	4,880	23,494	6,802		18,118	5,376
2004	5,230	25,204	7,437	2,254	18,811	
2005	5,620	27,064	8,044	the state of the s	19,455	
2006	5,960	28,715	8,437	1,253	19,848	8,867
2007	6,310	30,467	8,733	957	20,144	10,323
2008	6,690	32,325	8,968			11,947
2009	7,100	34.297	9,157	533		13,729
2010	7,590	36,585	9,337	354		15,838
2011	7,860	37,902	9,420	271	20,830	
2012	8,150	39.267	9,491	199		18,365
2013	8,440	40.680	9,555			19,714
2014	8,740	42,145	9,608	83	21,018	21,127
2015	9,050	43,617	9,649	41	21,060	22,557
	Total	502,883	131,009	24,041	312,618	190,265

87,210

218,219

Average for 16 yrs (2000) 8,729

Average for 16 yrs (2000) 8,189

	<u> </u>					·		
	Dem	and	Energy Supplied (MWh)					
	Max.	Annual	Mesi	lau	Carabau			
Year	Demand	Energy	2	99 kW	2,	000 k\		
	(kW)	(MWh)	Used	Disch	Used	Disch		
2000	3,930	18,958	1,925	0	9,103	383		
2001	4,220	20,320	1,925	0	9,213	272		
2002	4,530	21,843	1,925	0	9,311	174		
2003	4.880	23,494	1,925	0	9,390	95		
2004	5.230	25,204	1,925	0	9,448	37		
2005	5,620	27,064	1,925	0	9,485	0		
2006	5,960	28,715	1,925	0	9,485	0		
2007	6.310	30,467	1,925	0	9,485	0		
2008	6,690	32,325	1,925	[0	9,485	0		
2009	7,100	34,297	1.925	0	9,485	0		
2010	7,590	36,585	1,925	0	9,485	0		
2011	7,860	37,902	1,925	0	9,485	0		
2012	8,150	39,267	1,925	0	9,485	0		
2013	8,440	40,680	1,925	0	9,485	0		
2014	8,740	42,145	1,925	0	9,485	. 0		
2015	9,050	43,617	1,925	0_	9,485	0		
	Total	502,883	30,805	0	150.804	961		

	Dem	and)		
	Max.	Annual:		daw4	Hydro	
Year	Demand	Energy	Saleable 2.	000 kW	Total	Diesel
	(kW)	(MWh)	Used	Disch	Used	
2000	3,930	18,958	4,932	6,409	15,959	2,999
2001	4.220	20,320	5,622	5,719	16,761	3,559
2002	4,530	21.843	6.344	4,997	17,581	4,262
2003	4.880	23,494	7.080	4.261	18,395	5,099
2004	5,230	25,204	7.815	3,526	19,188	6,016
2005	5.620	27,064	8,565	2,776	19,975	7,089
2006	5,960	28,715	9,180	2,161	20,590	8,125
2007	6,310	30,467	9,707	1,634	21,117	9,350
2008	6.690	32,325	10,093	1.248	21,504	10,821
2009	7,100	34,297	10,380	961	21,791	12,506
2010	7,590	36,585	10,639	702	22,049	14,536
2011	7,860	37,902	10,753	588	22,164	15,738
2012	8,150	39,267	10,866	475	22,276	16,991
2013	8,440	40,680	10,965	376	22,376	18,304
2014	8,740	42,145	11,058	283	22,469	19,676
2015	9,050	43,617	11,133	208	22,544	21,073
	Total	502,883	145,131	36,325	326,741	176,142

102/069

247,200

Average for 25 yrs (2000 x4) 9,888

Average for 16 yrs (~2015) 9,071

Saleable

Energy

Naradaw 2400KW He = 170 m

		Dem	and		Energy Sup	plied (MWh)	
	155.00	Max.	Annual	Mesi	lau	Carabau		
l	Year	Demand	Energy	2	99 kW	2.	000 kW	
1		(k₩)	(MWh)	Used	Disch	Used	Disch	
	2000	3,930	18,958	1,925	0	9,103	383	
	2001	4,220	20,320	1,925	0	9,213	272	
	2002	4,530	21,843	1,925	0	9,311	174	
	2003	4,880	23,494	1,925	0	9,390	95	
	2004	5,230	25,204	1.925	0	9,448	37	
1	2005	5,620	27,064	1,925	0	9,485	0	
	2006	5,960	28,715	1,925	0	9,485	0	
	2007	6,310	30,467	1,925	0	9,485		
	2008	6,690	32,325	1,925	0	9,485	0	
}	2009	7,100	34,297	1,925	0	9,485	0	
1	2010	7,590	36,585	1.925	0	9,485	0.	
1	2011	7,860	37,902	1,925	0	9,485	0	
	2012	8,150	39,267	1,925	0	9,485	0	
	2013	8,440	40,680	1,925	0	9,485	0.	
	2014	8,740	42,145	1,925	0	9,485	0	
	2015	9,050	43,617	1,925	0	9,485	0	
•		Total	502,883	30,805	0	150,804	961	

	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the state of the s		A STATE OF THE STA
	Demand	Energy Sup	plied (MWh	<u> </u>
	Max. Annual	Naradaw5	Hydro	
Year	Demand Energy	Saleable 2,400 kW	Total	Diesel
	(kW) (MWh)	Used Disch	Used	<u> </u>
2000	3,930 18,958	4.972 7.780	16,000	2,958
2001	4,220 29,320	5,700 7,052		3,481
2002	4,530 21,843	6,469 6,284	17,705	4,138
2003	4,880 23,494	7,248 5,504	18,563	4,931
2004	5,230 25,204	8,000 4,752	1.1.19	5,831
2005	5,620 27,064	8,788 3,965	20,198	6,866
2006	5,960 28,715	9,476 3,276	2	7,828
2007	6,310 30,467	10.139 2,613	21,550	8,917
2008	6,690 32,325		A A A A B A A A A A A A A A A A A A A A	10,148
2009	7,100 34,297	11,245 1,507	and the second second	
2010	7,590 36,585	11,622 1,130		
2011	7,860 37,902	11,782 970	23,193	14,709
2012	8,150 39,267	11,934 818	23,345	The second of th
2013	8,440 40,680	12.061 691	23,472	17,208
2014	8,740 42,145	12,180 572	23,591	18,554
2015	9,050 43,617	12.290 462	23,701	19,916
	Total 502,883	154,671 49,362	336,281	166,602

114,768

269,439

Average for 25 yrs (~2004) 10,778

Average for 16 yrs (2000) 9,667

2. Selection of Optimum Plan (2) Cash Filow of Benefit and Cost of Alternative Plans

The second second	and the second second				***************************************	····
Input Da	ta:	Naradaw	P=	1,220	k₩	
Year o	f Start	(n=0)		1997		
					(Thou	sand M\$)
	n	Year	Naradaw	Die		Year
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Invest.	Invest.	kWh	
Const.	0	1997	1,060	0		1997
Const.	1	1998	6.360	349		1998
Const.	2	1999	3,180	349		1999
Opera.	3	2000	159	35	3,982	2000
Opera.	4	2001	1		4.507	2001
Opera.	5	2002			5,054	2002
Opera.	6	2003			5,582	2003
Opera.	7	2004			6,014	2004
Opera.	8	2005			6,322	2005
Opera.	9	2006			6,533	2006
Opera.	10	2007			6,710	2007
Opera.	11	2008			6,860	2008
Opera.	12	2009			6,984	2009
Opera.	13	2010			7,092	2010
Opera.	14	2011			7,140	2011
Opera.	15	2012			7,180	2012
Re-Const		2013		349 + 35	7,206	2013
Re-Const		2014		349t 35	7,218	2014
Opera.	18	2015			7,218	2015
Opera.	19	2016			7,218	2016
Opera.	20	2017			7,218	2017
Opera.	21	2018			7,218	2018
Opera.	22	2019			7,218	2019
Opera.	23	2020			7.218	2020
Opera.	24	2021			7,218	2021
Opera.	25	2022			7,218	2022
100.00	26	2022	1	1. I	7 210	2022

1,000 MA (Narada) (1) Const. cost 10,600 (2) * (1) \times 0.015 = /59(2) O & M Cost X 10 kWh 400 kW (4) Firm power (Diesel) 500 KW = (4) X1.25 = 400 X1.25 = 500 (5) Inst. capacity 698 * = (5) X 1,395 M\$/kW (6) Const. cost __'(3) 35 * = (B) X 0.05 (7) 0 & M cost __(3) 1,260 * = (3) X 0,7X 0.18 M\$/kWh (8) Fuel cost

(2) (3)

Benefit Cost Ratio Calculation: Naradaw P=

) =

1,220 kW

and the second						<u> 100 - 100 </u>		sand M\$)
			Cost	Stream			Stream	
Year	n	1/1.1 n	Nar	adaw		ternativ		
·		, , , , , , , , , , , , , , , , , , , ,	Invest.	C Value		Fuel	Total	B Value
1997	0	1.000	1.060	1.060	0	в	0	0
1998	1	0.909	6,360	5.782	349	0	349	317
1999	2	0.826	3,180	2,628	349	0	349	288
2000	3	0.751	159	119	35	697	732	550
2001	4	0.683	159	109	35	789	824	563
2002	5	0.621	159	99	35	884	919	571
2003	- 6	0.564	159	90	35	977	1,012	571
2004	7	0.513	159	82	35	1,052	1,087	558
2005	8	0.467	159	74	35	1,106	1.141	532
2006	9	0.424	159	67	35	1,143	1.178	500
2007	10	0.386	159	61	35	1.174	1,209	466
2008	11	0.350	159	56	35	1.201	1,236	433
2009	12	0.319	159	51	35	1,222	1,257	401
2010	13	0.290	159	46	3.5	1,241	1,276	370
2011	14	0.263	159	42	35	1,250	1,285	338
2012	15	0.239	159	38	35	1,257	1,292	309
2013	16	0.218	159	35	384	1,261	1,645	358
2014	17	0.198	159	31	384	1,263	1,647	326
2015	18	0.180	159	29	3.5	1,263	1,298	233
2016	19	0.164	159	26	3.5	1,263	1.298	212
2017	20	0.149	159	24	35,	1,263	1,298	193
2018	21	0.135	159	21	35	1,263	1,298	175
2019	22	0.123	159	20	35	1,263	1,298	159
2020	23	0.112	159	18	3,5	1,263	1,298	145
2021	24	0.102	159	16	35	1,263	1,298	132
2022	25	0.092	159	15	35	1,263	1,298	120
2023	26	0.084	159	13	35	1,263	1,298	109
2024	27	0.076	159	12_	35_	1,263	1,298	99
		Total		10,663		1 .		9,029

B/C

0.85

B-C

-1,633

Input Da	ta:	Naradaw	P=	1,200	k₩	
Year o	f Start	(n=0)		1997		
			<u> </u>			sand M\$)
	n	Year	Naradaw	Die		Year
			Invest.	Invest.	kWh	4.0.0.0
Const.	0	1997	1,020	0		1997
Const.	1	1998	6,120	488		1998
Const.	2	1999	3,060	488		1999
Opera.	3	2000	153	49	4,498	2000
Opera.	4	2001			5,039	2001
Opera.	5	2002	- 10 (11)		5.597	2002
Opera.	6	2003			6,136	2003
Opera.	7	2004			6,567	2004
Opera.	8	2005		1.	6,875	2005
Opera.	9	2006			7,087	2006
Opera.	10	2007			7,260	2007
Opera.	11	2008			7,408	2008
Opera.	12	2009			7,530	2009
Opera.	13	2010			7,634	2010
Opera.	14	2011			7,680	2011
Opera.	15	2012		, II,	7.716	2012
Re-Const	16	2013		488+49	7,742	2013
Re-Const	17	2014		488+ 49	7,751	2014
Opera.	18	2015			7,751	2015
Opera.	19	2016			7,751	2016
Opera.	20	2017			7,751	2017
Opera.	21	2018			7,751	2018
Opera.	22	2019	1 1		7,751	2019
Opera.	23	2020	1		7,751	2020
Opera.	24	2021			7,751	2021
Opera.	25	2022			7,751	2022
Opera.	26	2023	<u> </u>		7,751	2023
Opera.	27	2024	153	49	7,751	2024
Lupuru,	• · · · · · · · · · · · · · · · · · · ·		(Z)	(3)	<u></u>	
	4		(Z)			
		•			-	
						·

(Narada)		*	• • •	1,000 M#	
(1) Const. cost	10.200	#		•	_ <u>_</u> _(2)
(2) D & M Cost		*	167	(1) X 0.015	_5(2)
(3) Energy supply capable	7.8	*	X	10 kWh	
(4) Firm power	560	kW			
(Diesel)					
(5) Inst. capacity	700_	kW	53	(4) x 1.25 = 560 x 1.25 =	700
(6) Const. cost	976	*	æ	(5) X 1,395 M\$/kW	(3)
(7) D & M tost	49_	*	P\$.	(G) X 0.05	⁻⁷ (3)
(8) Fuel cost	1,365	*	£ 3	(3) X 0,97X 0.18 M\$/kWh	_ _{==k} (4)

Benefit Cost Ratio Calculation: Naradaw P= 1.200 kV

				1.25				sand M\$)
	CONTROL DE LA COMPANION DE LA		Cost	Stream		Benefit	Stream	a a parte a real and a
Year	n .	1/1.1 n	Nar	adaw	A I	ternativ	e (Diese	
			Invest.	C Value	Invest.	Fuel	Total	B Value
1997	0	1.000	1,020	1,020	0	0	0	0
1998	1	0.909	6,120	5,564	488	0	488	444
1999	2	0.826	3,060	2.529	488	0	488	403
2000	3	0.751	153	115	49	787	836	628
2001	4	0.683	153	105	49	882	931	636
2002	5	0.621	153	95	49	979	1,028	639
2003	6	0.564	153	86	49	1,074	1,123	634
2004	7	0.513	153	79	49	1.149	1,198	615
2005	8 -	0.467	153	71	49	1,203	1,252	584
2006	9	0.424	153	65	49	1.240	1,289	547
2007	10	0.386	153	59	49	1,271	1,320	509
2008	11	0.350	153	54	49	1,296	1.345	472
2009	12	0.319	153	49	49	1.318	1,367	435
2010	13	0.290	153	44	49	1,336	1,385	401
2011	14	0.263	153	40	49	1,344	1,393	367
2012	15.	0.239	153_	37	49	1,350	1,399	335
2013	16	0.218	153	33	537	1,355	1,892	412
2014	17	0.198	153	30	537	1,356	1,893	375
2015	18	0.180	153	28	49	1,356	1,405	253
2016	19	0 164	153	25	49	1,356	1,405	230
2017	20	0.149	153	23	49	1,356	1.405	209
2018	21	0.135	153	21	49	1.356	1,405	190
2019	22	0.123	153	19	49	1,356	1,405	173
2020	23	0 112	153	17	49	1,356	1,405	157
2021	$2\overline{4}$	0.102	153	16	49	1,356	1,405	143
2022	25	0.092	153	14	49	1,356	1,405	130
2023	26	0.084	153	13	49	1.356	1,405	118
2024_	27	0.076	153	12	49	1,356	1,405	107
		Total		10,260			3 3 34 34 34	10.143

B-C 0.99 -118

Cash Filow of Benefit and Cost

Input Da	ta:	Naradaw	P =	1,600	kW	
Year o	f Start	(n=0)		1997		
L				L	(Thou	sand M\$)
	n	Year	Naradaw	Dies		Year
			Invest.	Invest.	kWh	
Const.	0	1997	1.150	0		1997
Const.	1	1998	6,900	488		1998
Const.	2	1999	3,450	488		1999
Opera.	3	2000	173	49	4,806	2000
Opera.	4	2001	1		5,446	2001
Opera.	5	2002			6,117	2002
Opera.	6	2003			6,802	2003
Opera.	7	2004			7,437	2004
Opera.	8	2005			8,044	2005
Opera.	9	2006			8,437	2006
Opera.	10	2007			8,733	2007
Opera.	11	2008			8,968	2008
Opera.	12	2009			9,157	2009
Opera.	13	2010			9,337	2010
Opera.	14	2011		ı	9,420	2011
Opera.	15	2012	2.5	49	9,491	2012
Re-Const	16	2013		480+ 49	9,555	2013
Re-Const	17	2014		480+ 49	9,608	2014
Opera.	18	2015		49	9,649	2015
Opera.	19	2016	4 T		9,690	2016
Opera.	20	2017			9,690	2017
Opera.	21	2018			9,690	2018
Opera.	22	2019			9,690	2019
Opera.	23	2020			9,690	2020
Opera.	24	2021			9,690	2021
Opera.	25	2022	100		9,690	2022
Opera.	26	2023			9,690	2023
Opera.	27	2024	173	49	9,690	2024
			(2)	(3)		

(Narada)		*	1,000 M#
(1) Const. cost	_11,500	*	_k(2)
(2) O & M Cost supply camble (3) Energy generates			= (1) X 0.015 $_{-5}$ (2) 6 X 10 kWh
(4) Firm power	560	kW	
(Diesel)			
(5) Inst. capacity	700	kW	= (4) x 1.25 = 560 x 1.25 = 700
(6) Const. cost	976	*	= (5) X 1,39\$ M\$/kW(3)
(7) 0 & M cost	49	*	= (6) X 0.05(3)
(B) Fuel cost	1,698	*	= (3) X 0.97X 0.18 M\$/kWh(4)

Benefit Cost Ratio Calculation: Naradaw P= 1,600 k

			<u> </u>					sand M\$)
			Cost	Stream			Stream	
Year	n	1/1.1 n	Nar	adaw	A1		e (Diese	1)
]			Invest.	C Value	Invest.	Fuel	Total	B Value
1997	0	1.000	1,150	1,150	0	0	0	0
1998	1 -	0.909	6,900	6,273	488	0	488	444
1999	2	0.826	3,450	2,851	488	0	488	403
2000	3	0.751	173	130	49	841	890	669
2001	4	0.683	173	118	49	953	1,002	684
2002	5	0.621	173	107	49	1,070	1,119	695
2003	6	0.564	173	98	49	1,190	1,239	700
2004	7	0.513	173	89	49	1,301	1,350	693
2005	8	0.467	173	81	49	1,408	1,457	680
2006	9	0.424	173	73	49	1,476	1,525	647
2007	10	0.386	173	67	49	1,528	1,577	608
2008	11.	0.350	173	61	49	1,569	1,618	567
2009	12	0.319	173	55	49	1.602	1,651	526
2010	13	0.290	173	50	49	1,634	1.683	487
2011	14	0.263	173	46	49	1,649	1,698	447
2012	15	0.239	173	41	49	1,661	1,710	409
2013	16	0.218	173	38	537	1,672	2,209	481
2014	17	0.198	173	34	537	1,681	2,218	439
2015	18	0.180	173	31	49	1,689	1,738	313
2016	19	0.164	173	28	49	1,696	1,745	285
2017	20	0.149	173	26	49	1,696	1,745	259
2018	21	0.135	173	23	49	1,696	1,745	236
2019	22	0.123	173	21	49	1,696	1,745	214
2020	23	0.112	173	19	49	1,696	1,745	195
2021	24	0.102	173	18	49	1,696	1,745	177
2022	25	0.092	173	16	49	1,696	1,745	161
2023	26	0.084	173	15	49	1,696	1,745	146
2024	2.7	0.076	173	13	49	1,696	1,745	133
		Total		11,572				11,699

B-C 1.01

Input Data :	Naradaw	p =	2,000	kW
Year of Star	t (n=0)		1997	

Thousand M\$) Const.	rear o	t Start	(n=0)		1997	* * * * * * * * * * * * * * * * * * * *	
Invest. Invest. kWh						(Thou	sand M\$)
Const. 0 1997 1,310 0 1997 Const. 1 1998 7,860 488 1998 Const. 2 1999 3,930 488 1999 Opera. 3 2000 197 49 4,932 2000 Opera. 4 2001 5,622 2001 Opera. 5 2002 6,344 2002 Opera. 6 2003 7,080 2003 Opera. 6 2003 7,815 2004 Opera. 7 2004 7,815 2004 Opera. 8 2005 8,565 2005 Opera. 9 2006 9,180 2006 Opera. 10 2007 9,707 2007 Opera. 11 2008 10,093 208 Opera. 12 2009 10,380 2019 Opera. 13 2010 10,639 20		n	Year	Naradaw	Die		Year
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Opera. 27 2024 /97 49 11,341 2024		26	2023			11,341	2023
	Opera.	27	2024	197	49	11,341	2024
	1 - 1 - 1 - 1 - 1 - 1			(2)	(ろ)		:

(Nar	ada)		*	1,000 MA	
(1)	Const. cost	13,100	*		(2)
(2)	D & M Cost		*	≈ (1) X 0.015	(2)
(3)	Supply capable Energy ganbrated		*	X 10 kWh	
(4)	Firm power	560	kW		
(Die	esel)				
(5)	Inst. capacity	700	kW	= (4) x 1.25 = 560 x 1.25 = 700	>
(6)	Const. cost	976	*	= (5) X 1,395 M\$/kW	_r"(3)
(7)	O & M cost	49	*	≖ (5) X 0.05	^{-z} (3)
(8)	Fuel cost	1.978	*	= (3) X DATX O. 18 M\$/kWh	(4)

Benefit Cost Ratio Calculation: Naradaw P= 2,000 kW

je s			4	ng that are Publish to Hall a William to the Willia			t y ty		sand M\$)
1					Stream			Stream	
	Year	n	$1/1.1^n$		adaw		ternativ		
			:	Invest.	C Value		Fuel	Total	B Value
	1997	0	1.000	1,310	1,310	0	0	0	0
	1998	1	0.909	7.860	7,145	488	0	488	444
L	1999	2	0.826	3,930	3,248	488	0	488	403
	2000	3	0.751	197	148	49	863	912	685
	2001	4	0.683	197	135	49	984	1.033	705
1	2002	5	0.621	197	122	49	1,110	1,159	720
	2003	6	0.564	197	111	49	1,239	1,288	727
	2004	7	0.513	197	101	49	1.368	1.417	727
	2005	8	0.467	197	92	49	1,499	1,548	722
1	2006	9	0.424	197	84	49	1,607	1,656	702
	2007	10	0.386	197	76	49	1,699	1,748	674
	2008	11	0.350	197	69	49	1,766	1,815	636
1	2009	12	0.319	197	63	49	1,817	1,866	594
1	2010	13	0.290	197	57	49	1,862	1,911	553
	2011	14:	0.263	197	52	49	1,882	1,931	508
L	2012	15	0.239	197	47	49	1,902	1,951	467
	2013	16	0.218	197	43	537	1,919	2,456	534
L	2014	17	0.198	197	39	537	1,935	2,472	489
	2015	18	0.180	197	35	49	1,948	1,997	359
	2016	19	0.164	197	32	49	1,985	2,034	333
	2017	20	0.149	197	29	49	1,985	2,034	302
ı	2018	21	0.135	197	27	49	1,985	2,034	275
1	2019	22	0.123	197	24	49	1,985	2,034	250
-	2020	23	0.112	197	22	49	1,985	2,034	227
	2021	24	0.102	197	20	49	1,985	2,034	206
	2022	25	0.092	197	18	49	1,985	2,034	188
	2023	26	0.084	197	17.	49	1,985	2,034	171
L	2024	27	0.076	197	15	49	1,985	2,034	155
		1.0	Total		13,181				12,758

B-C 0.97

Input Da						
Innut Da		٠				
Tuba'o pa	ta: i	Varadaw	P=	2,400	k₩	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		٠ .		•	
Year o	f Start	(n=0)	J _.	1997		
	l		<del></del>		(Thou	
	e e n	Year	Naradaw	Die		Yε
Constant		1000	Invest.	Invest.	kWh	<u> </u>
Const.	0	1997	1,430	0		]
Const.	1	1998	8,580	488	1	
Const.	2	1999	4,290	488		]
Opera.	3	2000	215	49	4,792	: 2
Opera.	4	2001			5,700	2
Opera.	5	2002		- 1	6,469	. 2
Opera.	6	2003			7,248	2
Opera.	7	2004			8,000	2
Opera.	8	2005			8,788	- 2
Opera.	9	2006			9,476	2
Opera.	10	2007			10,139	2
Opera.	11	2008			10,766	2
Opera.	12	2009			11,245	2
Opera.	13	2010			11,622	2
Opera.	14	2011			11,782	2
Opera.	15	2012			11,934	2
Re-Const	16	2013		488+49	12,061	2
<u>Re-Const</u>	17	2014		188+49	12,180	2
Opera.	18	2015			12,290	2
Opera.	19	2016			12,752	2
Opera.	20	2017			12,752	2
Opera.	21	2018			12,752	2
Opera.	22	2019			12,752	2
Opera.	23	2020			12,752	2
Opera.	24	2021			12,752	2
Opera:	25	2022			12,752	2
Opera.	26	2023			12,752	2
Opera.	27	2024	215	49	12,752	2

(Narada)		*	1,000 M#
(1) Const. cost	14,300	*	(2
(2) O & M Cost		-₩	= (1) X 0,015(2
(3) Energy generated	12.8	#	5 X 10 kWh
(4) Firm power	_560_	kW	
(Diesel)			
(5) Inst. capacity	700	kW	N = (4) x 1.25 = \$60 x 1.25 = 700
(6) Const. cost	976	*	= (5) X 1,39\$ M\$/kW(3
(7) O & M cost	49_	*	= (5) X 0.05
(8) Fuel cost	2,240	*	= (3) X 0.97X 0.18 M\$/kWh

Donorro (	JOSO Kat	010 04100	.raoron .	. Hai ada	• .	L. 2, 100	] ""	100
					and the state of t		(Thoù	sand M\$)
			Cost	Stream		Benefit	Stream	
Year	n	1/1.1 n	Nai	adaw	A.I	ternativ	e (Diese	1)
			Invest.	C Value		Fuel	Total	B Value
1997	0	1.000	1,430	1,430	0	0	0	0
1998	. 1	0.909	8,580	7,800	488	0	488	444
1999	2	0.826	4.290	3.545	488	0.4	488	403
2000	3	0.751	215	162	49	839	888	667
2001	4:	0.683	215	147	49	998	1,047	715
2002	5	0.621	215	133	49	1,132	1,181	733
2003	6 ·	0.564	215	121	49	1,268	1,317	744
2004	7	0.513	215	110	49	1,400	1.449	744
2005	<b>8</b> °.	0.467	215	100	49	1,538	1,587	740
2006	9	0.424	215	91	49	1,658	1,707	724
2007	10	0.386	215	83	49	1,774	1,823	703
2008	11	0.350	215	75	49	1.884	1.933	678
2009	12	0.319	215	69	49	1,968	2.017	643
2010	13	0.290	215	62	49	2,034	2,083	603
2011	14	0.263	215	57	49	2,062	2.111	556
2012	15	0.239	215	5.1	49	2,088	2,137	512
2013	16	0.218	215	47	537	2,111	2.648	576
2014	17	0.198	215	43	537	2,132	2,669	528
2015	18	0.180	215	39	49	2,151	2,200	396
2016	19	0.164	215	35	49	2,232	2.281	373
2017	20	0.149	215	32	49	2,232	2,281	339
2018	21	0.135	215	29	49	2,232	2,281	308
2019	22	0.123	215	26	49	2,232	2,281	280
2020	23	0.112	215	24	49	2,232	2,281	255
2021	24	0.102	215	22	49	2,232	2.281	232
2022	.25	0.092	215	20	49	2,232	2.281	210
2023	26	0.084	215	18	49	2,232	2,281	191
2024	27	0.076	215	16	49	2,232	2,281	174
		Total		14,388				13,470

## 2. Selection of Optimum Plan (3) Construction Cost of Alternative Plans

Naradaw 1,22019V

OPTIMIZATION AT NARADAW

He= 115M

```
Q1. Plan
    Installed Capacity
                           1,220 KW
                                            Net head
                                                       175
    Maximum discharge
                           1.33 m3/s
    Construction Cost
                           10,600,000 Ms
02. Layout
     (1) Intake M.R.
                           Concrete type
                L.R.
                           Concrete type
                                           (Weir ~ pond)
                                                             (Ponda surge tank)
     (2) L.P. Conduit M.R.
                                L(m)
                                         320 (1.1×290)
                                                              640 (1.1x585)
                                         0.6 (0.8 /0.44)
                                                              0.7 (0.810.78)
     (3) Conduit
                     L.R.
                                L(m)
                                         2,440
                                                  = 1.1 x 2,220 m
                                D(m)
                                         0.7
                                                  = 0.810 = 0.810.84 = 0.73
     (4) Head Pond
                                 (Em)
                                                   400-250 x 2.5 x 3,600 x 1.4
                                         2,000 =
     (5) Surge Tank
                                D (m)
     (6) Penstock
                                                 = 0.65 Va = 0.65 VI.33 = 0.75
                                (m) C
                                          0.8
                                L (m)
                                         495
                                                =\sqrt{\ell^2+h^2}=\sqrt{430^2+(9725-852)^2}
     (7) Power Station
     (8) Access Roads
                                km
                                          3.2
         Improv
                                km
                                          ⇒, Z
     (9) Turb./Generator
                                Type
                                        Tango Impulse/3¢ Synchronous
                                        Generator x 2 units
                                RPM
                                V
     (10) Transformer
                                           1,800 x 1 unit, 3\phi, o A
                                KVA
                                           11,000
                                High (∀) °
                                Low (V)
                                            3,300
    (11) Trans. Lines
                                Type
                                           Steel post
                                Size
                                           HAL 0.166 sq. in.
                                KV.
                                           11
                                L (km)
                                           1.0
        D = Diameter,
                               L = Length,
                                                      V = Voltage
      M.R. = Mesilau River
                               L.R. = Liwagu River
                                                  = Penstock
          Spill way
                               L(m)
                                          495
```

D (m)

0.7

## Naradaw 1,220 KW He=115 m

Summary	of Coasts (Unit		
(1)	Establishment	400	= P<1,000 350,00, P≥ 1.000 400,000
(2)	Div Weir/Intake	490	$M.R = 374 \times \sqrt{0.01} = 374 \times \sqrt{0.05 \times 0.09} = 203$ $L.R = 374 \times \sqrt{0.2 \times 0.09} = 374 \times \sqrt{0.7 \times 0.09} = 287$
(3)	L. P. Condult	2,518	M.R = L 640 m @ 150 (D,07m)
(4)	Head Pond	500	$L.R = L_{2},440 \text{ m} @ 750 (D_{2},7m)$ $= V = 2,000 \text{ m}^{3} @ 250 \text{ H/m}^{3}$
(5)	Surge Tank	90	
(6)	Penstock	658	= 495 m @ 1,330 Pen (D08 m
(7)	Spillway	371	= L 495 m@ 250 L.P (Da7 m
(8)	Power Station	227	= 770 ( PVHe) 0.6 = 770 × (1,220 × VIIS
(9)	Access Roads	516	Fourt St. $0.8$ Km @ 120,000 = $\frac{96}{288}$ P: pe $\frac{3.4}{1.2}$ Km @ 120,000 = $\frac{288}{132}$ Const $\frac{1.2}{1.2}$ Km @ 60,000 = $\frac{132}{132}$
(10)	Turb./Generator Transformer/etc	2,942	P 0.7 (1/220 0.
(11) (12) Si	Trans. Lines	43 8.7 <i>55</i>	= L 1 km @ 43,000 B/km
Establish Civil		400 5,413	
Mech/Elect		2,942	= 0.15 × ( <del>Esla + CNII)</del> = 0.15 × ( 8,755
Engineerin	ıg	554	= $5.5\% \times (above cost) = 0.055 \times 10.06$
Total		10 622	= 10,600 × 103 M\$

### OPTIMIZATION AT NARADAW

```
Installed Capacity P. / .. 200 KW
                                              Net head = 169 -> 170 m
     Maximum discharge 0 = 0.89 m3/s
Construction Cost /0,200,000 M$
 2. Layout
   (1) Intake M.R.
                         Concrete type
                  L.R.
                             Concrete type
      (2) L.P. Conduit M.R.
                                  L (m)
                                                    = 1.11 = 1.1x 910
                                           1,000
                                  D<sub>i</sub>(m)
                                                    = 0.810, = 0.8×10.40 = 0.506
                                           0.6
         L.P.
                                                    = 1.1 Q = 1.1 x 2,630
      (3)<sup>Y</sup>Conduit
                                           Z,890
                       L.R.
                                  L(m)
                                                    = 0.810 = 0.8×10.49 = 0.56
                                  Q(m)
                                           0.6
      (4) Head Pond
                                  (m3)
                                          2,000
      (5) Surge Tank
                                  D (m)
                                                    = 0.65 VQ = 0.65 × VO.89 = 0.6/3
      (6) Penstock
                                           0.7
                                  (m)
                                  1 (m)
                                            805
                                                    =\sqrt{l^2+h^2}=785^2+\sqrt{(1.030-852)^2}
      (7) Power Station
                                           Structual steel supperstructure
      (8) Access Roads
                                            4.69
                                  km
          Improv
                                  k.m
      (9) Turb./Generator
                                  Type
                                          Targo Impulse/3ф Synchronous
                                          Generator x 2 units
                                  RPM
      (10) Transformer
                                  KVA
                                                  х 1 unit, 3ф, о A
                                             11,000
                                  High (V)
                                  Low (V)
                                             3,300
      (11) Trans. Lines
                                  Type
                                             Steel post
                                  Size
                                             HAL 0.166 sq. in.
                                  ΚV
                                             11
                                 L (km)
                                             1.0
          D = Diameter
Note:
                                 L = Length,
                                                        V = Voltage
        M.R. = Mesilau River
                                 L.R. = Liwagu River
                                                   =1.1 & = 1.1 × V/802 + (1030-980)2
                                          210
                                 L (m)
      (12) Spill way
                                                  = 0.6510 = 0.65 × 10.89 = 0.613
                                          0.7
```

D(m)

Summary	of Coasts (Unit	1,000 M\$	) t
(1)	Establishment	400	= P<1,000 250,00, P ≥ 1,000 KW 400,000
(2)	Div Weir/Intake	386	M.R = 374 × 10×Q1 = 374 × 10.6 × 0.40 = 183
			L.R=374 × [D×Q = 374 × Vo.6 x 0.49 = 203
(3)	L. P. Condult	2,529	$M.R = L_{1000 m} = 650$ (D, 0.6m)
			$L.R = L.2.890 \text{ m} @ 650 (D_20.6_m)$
(4)	Head Pond	500	= V Z,000 m3 @ 250 B/m3
(5)	Surge Tank	. <del></del>	
(6)	Penstock	982	= L 805 m @ 1220 Pen (D0.7 m)
(7)	Spillway	158	= L, 210 m @ 750 L.P (D0.7 m)
(8)	Power Station	253	= 770 ( $PYHe$ ) 0.6 = 770 × (1,200 × $\sqrt{169}$ )
(9)	Access Roads	635	Power St. 0.8 Km @ 120,000 = 96  Pipe 3.89 km @ 120,000 = 467
	S. C. Hart		Const 1.2 KM & 60,000 = 72
(10)	Turb./Generator	<b>.</b>	P 0.7 (1,200°.7'
	Transformer/etc	2,541	= $107 \left(\frac{P}{1He}\right) = 107 \left(\frac{1,200}{1/69}\right)^{0.7}$
(11)	Trans. Lines	43	= L / km @ 43,000 \$/km
 (12) S	ub Total	8,427	
Establish	ment	400	2486
Civil	•	5,486	
Mech/Elect	cr.	2,541	
Contingen	cies	1,264	$= 0.15 \times (\frac{12}{\text{ExtarEivit}}) = 0.15 \times (8,427)$
Engineerin	ıg	533	= $5.5\% \times (above cost) = 0.055 \times 9.691$
		1.0	2 4
Total		10,234	$= 10,200 \times 10^3 \text{ M.} \text{#}$
1 N.H = A	.38 US# = 54 ¥		
1 1 M B = 0	.30 U34 - 34 T		

### OPTIMIZATION AT NARADAW

```
1. Plan
                                                       169 -> 170 m
     Installed Capacity
                            7.600 KW
                                            Net head
     Maximum discharge
                            1.18 m3/s -> 1.2 m3/s
     Construction Cost
                            7/,500,000 Ms
 2. Layout
      (1) Intake M.R.
                                                             1036 4
                            Concrete type
                                               Woter level
                 L.R.
                            Concrete type
                                               Water level
                                                             1,048 m
      (2) L.P. Conduit M.R.
                                 L(m)
                                                   = 1.19 = 1.1 \times 910
                                          1,000
                                 D(m)
                                          0.6
                                                   = 0.810 = 0.8×10.48 = 0.55
                                                   = 1.1 R = 1.1 x 2.630
                                         2,890
      (3) Conduit
                      L.R.
                                 L(m)
                                 D(m)
                                          0.7
                                                   = 0.8/0 = 0.8×10.70 = 0.669
      (4) Head Fond
                                 (Em)
                                         2,000
      (5) Surge Tank
                                 D (m)
      (6) Penstock
                                                  = 0.651@ = 0.65 × V1.18 = 0.706
                                 D (m)
                                           0.8
                                 L (m)
                                                  = \(\left(\left)^2 + \hat{1,030-852}\)2
                                          805
      (7) Power Station
                                          Structual steel supperstructure
     (8) Access Roads
                                           4.69
                                 km
          Improv.
                                 km
                                          :1.2
     (9) Turb / Generator
                                 Type
                                         Targo Impulse/3¢ Synchronous
                                         Generator x 2 units
                                 RPM
                                 ۷.
     (10) Transformer
                                 KVÁ
                                                   \times 1 unit, 3\phi, \phi A
                                 High (V)
                                            11,000
                                 Low (V)
                                            3,300
     (11) Trans. Lines
                                 Type
                                            Steel post
                                            HAL 0.166 sq. in.
                                 Size
                                KV.
                                            11
                                            1.0
                                 L (km)
        D = Diameter
Note:
                                L = Length,
                                                       V = Voltage
       M.R. = Mesilau River
                                L.R. = Liwagu River
                                                  =1.1 & = 1.1×1/80=+(1030-980)2
                                         2/0
                                L (m)
                                                 = 0.65 (0 = 0.65 × 1.7.18 = 0.706
                                D(m)
                                         0.7
```

```
Summary of Coasts (Unit 1,000 M$)
                                     = P<1,000 250,00, P ≥ 1,000
                              400
           Establishment
   (1)
                              463 M.R = 374 x Dx0 = 374 x 10.6 x 0.48 = 201
   (2)
           Div Weir/Intake
                                    L. R = 374 × (D×Q = 374 × VO.7 × 0.70 = 262
                                    M.R
   (3)
           L. P. Condult
                            2.818
                                            = 650 m @ 650
                                                                     (Da.6 m)
                                            = L,2,890 m @ 750
                              500
                                       = \sqrt{2,000} \text{ m}^3 \text{ } \bigcirc
   (4)
           Head Pond
   (5)
           Surge Tank
                                       = L 805 m @ 1,330, Pen (DO.8 m)
                            1,071
   (6)
          Penstock
                                       = <u>L 210 m @ 750 L.P (00.7 m)</u>
                              158
          Spillway
  (7)
                              300
          Power Station
                                       = 770 ( PYHE) 0.6 = 770 × (1.600 × 1/69)
  (8)
                                      Power St. 0.8 Km @ 120,000 =
                              635
  (9)
          Access Roads
                                              3.89 KM @ 120,000 = 467
                                               1.2 KM & 60,000 = 72
  (10)
          Turb./Generator
                            3,108
          Transformer/etc
                                           1 km @ 43,000 P/km
          Trans. Lines
  (11)
                               43
                            9,496
  (12)
        Sub Total.
                             400
Establishment
                           5,988
Civil
                           3,108
Mech/Electr.
                                      = 0.15 x (Esta+Civil) = 0.15 x ( 9.496 )
                            1,424
Contingencies
                              601
                                      = 5.5% x (above cost) = 0.055 x 10,920
Engineering
                                         11,500 × 103 M$
                          11,521
Total
  IMB = 0.38 US# = 54 ¥
```

### OFTIMIZATION AT NARADAW

```
Plan Property 2,000 KW
                                             Net head 169 \rightarrow /70 \text{ M}
     Maximum discharge\theta_{=} / 4\theta m3/s
     Construction Cost
                               , 00,000 Ms
 2. Layout
     (1) Intake M.R.
                            Concrete type
           L.R.
                            Concrete type
      (2) L.P. Conduit M.R.
                                  L(m)
                                          1,000
                                                   = 1.12 = 1.1x 910
                                  D(m)
                                           0.7
                                                   = 0.810, = 0.8×10.57 = 0.604
      (3) Conduit
                                          Z,890
                                                   = 1.12 = 1.1 x 2,630
                     L.R.
                                  L(m)
                                  D<sub>(m)</sub>
                                           0.8
                                                   = 0.8/Q = 0.8×10.91 = 0.763
      (4) Head Pond
                                  (Em)
                                          2,000
      (5) Surge Tank
                                 D (m)
                                           0.9
      (6) Penstock
                                                   = 0.651@ =0.65×VI.48 = 0.791
                                 D (m)
                                 L (m)
                                           805
                                                   \sqrt{l^2+h^2} = 785^2 + \sqrt{(1.030 - 852)^2}
      (7) Power Station
                                           Structual steel supperstructure
      (8) Access Roads
                                           4.69
                                 kπ
          Improv.
                                 km
                                           1.2
                                         Targo Impulse/3ф Synchronous
      (9) Turb./Generator
                                 Type
                                         Generator x 2 units
                                 RPM
                                 y.
     (10) Transformer
                                 KVA
                                                   \times 1 unit, 3\phi, o A
                                            11,000
                                 High (∀)
                                 Low (V)
                                             3,300
     (11) Trans. Lines
                                 Type
                                            Steel post
                                 Size
                                            HAL 0.166 sq. in.
                               r KV
                                            11
                                 L (km)
                                            1.0
Note: D = Diameter
                                L = Length,
                                                       V = Voltage
       M.R. = Mesilau River
                                L.R. = Liwagu River
                                                 =1.1 & = 1.1x1/802+(1030-980)2
     (12) Spill way
                                         2/0
                                1 (m)
                                          0.8
                                                 = 0.65 (0 = 0.65 x) 1.48 = 0.791
                                D(m)
```

(1)	of Coasts (Uni Establishment Div Weir/Intak	500	1 KN 350 \$ 101 200 \$
(2)			= P<1,000 250,00, P ≥ 1.000 \$00,000
· .	Div Weir/Intak	ناهد جو سدد	
(3)	·	e <i>5</i> 55	M.R = 374 x DxQ = 374 x 10.7 x 0.57 = 236
(3)	en de la companya de La companya de la co		$L.R = 374 \times (D_1 \times \Theta_1 = 374 \times \sqrt{0.8 \times 0.91} = 319$
	L. P. Condult	3,235	M.R = L. 1,000 m @ 750 (D.O.1m)
	$ x  = \frac{1}{2} \left( \frac{4\pi}{2} \right)^{-1}$		L.R = 1,2,890m @ 860 (D20.8m)
(4)	Head Pond	500	= V 2.000 m3 @ 250 B/m3
(5)	Surge Tank		
(6)	Penstock	1,143	= $1.805  \text{m} \odot 1.420  \text{Pen}  (D0.9  \text{m})$
(7)	Spillway	181	= 4, 210 m @ 860 L.P (DO.8 m
(8)	Power Station	343	= 770 ( PVHe) 0.6 = 170 × (2,000 × 1/69
		i de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela com	
(9)	Access Roads	635	W 120,000
			Pipe 3.89 km @ 120,000 = $\frac{467}{12}$ Const $\frac{1.2}{12}$ km & 60,000 = $\frac{72}{12}$
(10)	Turb./Generator	- 4-4	
7	Transformer/etc	3,634	$= 107 \left(\frac{P}{1 \text{He}}\right)^{0.7} 107 \left(\frac{2,000}{169}\right)^{0.7}$
(11)	Trans. Lines	43	= L 1 km @ 43,000 \$1/km
(12) Sul	b Total :	.10,769	
Establishme	ent	500	
Civil		6,635	i granda a mareka kalendaria wata kila kata mareka ka kata ka kata ka
Mech/Electr		3,634	
Contingenci	es	1,615	= 0.15 × (Esta+Civil) = 0.15 × (10,7:69
Engineering	j. •	681	= 5.5% × (above cost) = 0.055 × $12.384$
: ·			
Total		13,065	$= 13,100 \times 10^3 \text{ M}$
	38 US# = \$4.7		

### OFTIMIZATION AT NARADAW

```
He =
     Installed Capacity 2,400 KW
                                             Net head 169 \rightarrow 170 \,\mathrm{m}
     Maximum dischargeOs / .78 m3/s
     Construction Cost
                              , 00,000 Ms
  2. Layout
      (1) Intake M.R.
                             Concrete type
                  L.R.
                            Concrete type
      (2) L.P. Conduit M.R.
                                  L(m)
                                                    = 1.12 = 1.1x 9/0
                                           1,000
                                                    = 0.810 = 0.8×10.65 = 0.64
                                  D(m)
                                            0.7
                                                    = 1.10 = 1.1 x 2.630
                                          2,890
      (3) Conduit
                      L.R.
                                  L(m)
                                  D(m)
                                                    = 0.8/0 = 0.8×11.13 = 0.85
                                           0.9
      (4) Head Pond
                                  (Em)
                                          2,000
      (5) Surge Tank
                                  D (m)
                                                   = 0.6510 = 0.65 × 17.78 = 0.867
      (6) Penstock
                                  D (m)
                                            1.0
                                  L (m)
                                            805
                                                   -\sqrt{\ell^2+h^2} = 785^2 + \sqrt{(1.030 - 852)^2}
      (7) Power Station
                                           Structual steel supperstructure
                                            4.69
      (8) Access Roads
                                  k m
          Improv.
                                  Ŕт
                                            1.2
      (9) Turb./Generator
                                  Туре
                                          Targe Impulse/3¢ Synchronous
                                         Generator x 2 units
                                  RPM
                                  V . .
      (10) Transformer
                                  KVA
                                                  \times 1 unit, 3\phi, o A
                                 High (V)
                                             11,000
                                 Low (V)
                                              3,300
      (11) Trans. Lines
                                            Steel post
                                 Type
                                            HAL 0.166 sq. in.
                                 Size
                                z KV
                                            11
                                 L (km)
                                             1.0
          D = Diameter
                                 L = Length,
Note:
                                                        V = Voltage
                                 L.R. = Liwagu River
       M.R. = Mesilau River
                                                  =1.1 & = 1.1×1/802 + (1030 - 980)2
                                          2/0
                                 L (m)
      (12) Spill way
                                                  = 0.65 P = 0.65 × 1.78 = 0.867
                                         0.9
                                 D (m)
```

Summary	of Coasts (Uni	t 1,000 Ms	P≥ 2000 KW 500
(1)	Establishment	500	= P<1,000 250,00, P ≥ 1,000 \$00,000
(2)	Div Weir/Intake	629	M.R = 374 × \Q x Q; = 374 × \v0.7 × 0 65 = 252
			$L.R = 374 \times \sqrt{D_2 \times Q_2} = 374 \times \sqrt{0.9 \times 1.13} = 377$
(3)	L. P. Condult	.3,553	M.R = L1.000 m @ 750 (0,07m)
			L.R = 1,2890 m @ 970 (D209m)
(4)	Head Pond	500	= V 2,000 m3 @ 250 H/m3
(5)	Surge Tank	-	
(6)	Penstock	1,224	= 4 805 m @ 1.520 Pen (D1.0 m)
(7)	Spillway	204	= L 210 m @ 970 L.P (DO.9m)
(8)	Power Station	383	= 770 ( PYHE) 0.6 = 270 × (2,400 × 169)
			and the first of the control of the
(9)	Access Roads	635	Pawer St. 0.8 Km @ 120,000 = 96
•			Pipe 3.89 km @ 120,000 = 467 Const 1.2 km 0 60,000 = 72
(10)	Turb./Generator	4,128	
•	Transformer/etc	7,128	$= 107 \left( \frac{P}{\text{VHe}} \right)^{0.7} = 107 \left( \frac{2,400}{1169} \right)^{0.7}$
(11)	rans. Lines	4,3	= L / Km @ 43,000 P/Km
(12) Syl	b Total =	11.799	
Establishme	ento	500	en formation of the second of
Civil	: ·	7, 171,	
Mech/Electr	•	4,128	12
Contingenci	es	1,770	= 0.15 × (Esta + Cruil) = 0.15 × (11,749)
Engineering		746	= $5.5\% \times (above cost) = 0.055 \times 13,569$
		į	
Total		14,315	$= 14,300 \times 10^3 \text{ M}$
	•	į	

1MB = 0.38 US# = 547

3. Calculation Data for Commissioning Year in Chapter 9

## 3 Calculation Data for Comissioning Year Pelated to the Following Benefit Cost Ratio

### Benefit Cost Ratio of Naradaw Scheme

(In Case of Carabaw Two Units)

Commissioning Year	Saleable Energy (GWh)	Construction Cost (1,000 M\$)	Benefit/Cost					
2000	7.4	11,500	1.01					
2001	7.8	11,500	1.05					
2003	8.6	11,500	1.12					

- Note (1) Saleable energy is an average for 10 years from each commissioning year.
  - (2) Minimum river maintenance water is assumed to be  $0.1 \text{ m}^3/\text{s}$  in total.
  - (3) Construction cost of M\$11,500,000 is simply estimated for the purpose of the optimization only.

### Benefit Cost Ratio of Naradaw Scheme

(In Ease of Carabau One Unit)

Commissioning Year	Saleable Energy (GWh)	Construction Cost (1,000 M\$)	Benefit/Cost
1996	7.1	11,500	0.98
1997	7.7	11,500	1.03
2000	8.9	11,500	1.15

Note; same as the note mentioned above.

Calculation Criter	ion * 1,000 ME	Ī
(1) Const. cost	11,500 *	
(2) O & M Cost Sapply capable, (3) Energy	$\frac{173}{9.7}$ * = (1) X 0	.015
(4) Firm power	<i>560_</i> kW	
(Dieseļ)		
(5) Inst. capacity	700 kW = (4) X/.	25 = 560 ×1.25 = 700
(6) Const. cost	976 * = (5) X 1	,395 M\$/KW
(7) () & M cost	$49 * = (5) \times 0$	.05
(8) Fuel cost	1.698 * = (3) XDS	77X 0.18 M\$/kWh

	GA	: :	<del>                                     </del>	6		بريسيندود دفين			·········	· ·										_	r"		Υ		rrstma								<b>T-1</b>	•	
	ousand W		1)	8 Valu	0			931																											
<b>7</b> 7 2≅	(Thou	trea	(Di	ota1	0			1.239		ST . I	Ši	Ö	٥	0	9	9	7	5	<u>~</u>	73	23	2	7	7.4		7									
800		nefit S	ative	le! I	0	0		061		4. S 6	4 r	070	n c	700	50	649	661	27		39	96	<u>ي</u>	36	96		9									
		Ber	lter	Fu		: 		, i	-i,	-i ,		~ -	-	÷.		-i	-	•1	H	1.			1.	1.	1	-	<u>-</u>	Ţ		•	1 m	<b>i</b> ⊢			
: H	N 12,W		4	Invest	<b>О</b> .	488	~·I	4. Ou (	24.4	4.	70 6	n c ‡' *	n c d'. *	3° °	4	4. D	4.	49	49	49	3	537	49	49	49	49	49	49	67	4 4	7 7	4.4			
Naradaw	2×1000	tream	daw	C Value			œ.	200	(	_ (	0 6	0.0	٦ در ٥ د	) t	0	- 19	ល	20	46	41	38	34	31	28	56	23	21	13	000		t	3 6	11.572	1.12	1.367
ation :	Carabau	Cost S	Nara	Š	<del>.</del> .	<b>~</b> ,	4	173	~ L	- (		٠,		- (	- (	~ 1	~	~	P~		·-	<b>N</b> -1	-	-	<u> </u>	~	<b>~</b>	h-		173	0 (C)	7 - 1			L
Ratio Calculation	of Car			١	00.	٠, ١	٠.	1.77	0	0 1	າ້ແ	, .		* c	9.0	3	, i	. 29	5.	2	. 2.	£.	18		न्दा •(	 		=	1.0	60	~~	0.2	ta	B/C	В-С
	case		/ <u> </u>	1		<u> </u>	,	ν	÷ п	. u	) t	- 0		·	<u>-</u>		7.7	<u></u>	14	15	9	17	1.8	13	20	21	22	23	24	25	2 6	2 2 2		. [_]	
Cost	Ħ				· ·		1				. :				<u>.                                    </u>					_								<u>.</u>							
Benefit		1. 1. 1.	Year	, I	5	5 8	5 6	2003	, c	0 0			, –	, -		5 6	5	<u> </u>	0	ᆲ	Ξ.	6	0		22	22	2	20	2	2	: ::	22	1		
		əl	eo r	0000	2 0	ગ⊂	) ⊂	2004	·(C)	0		2008	0	2010	٠,-	2012	2010	4 -	4 -	-4]+	2070	·		٦ (		7		~ l	ç∨ا	2025	<√2	(4)			
	· · ·	Ilhousan	T	+	+	-	803	37	44	437	33	5.8	157	337	0 0	, ,	1 12	300	0 0	0.40	- -		187	7,	7,	7,0	-1	1 5	91	91	91	91			
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1.600	2000	1	as [ "	200	488	7 8 8	49	-												77		4884 49	47				-				-	46			÷
Н	L		aradaw Invest	+	0	•i •	-		-							-	<del> </del>	+	+		1	7	<del>-</del>		+	1	+	+	_		_	173			
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