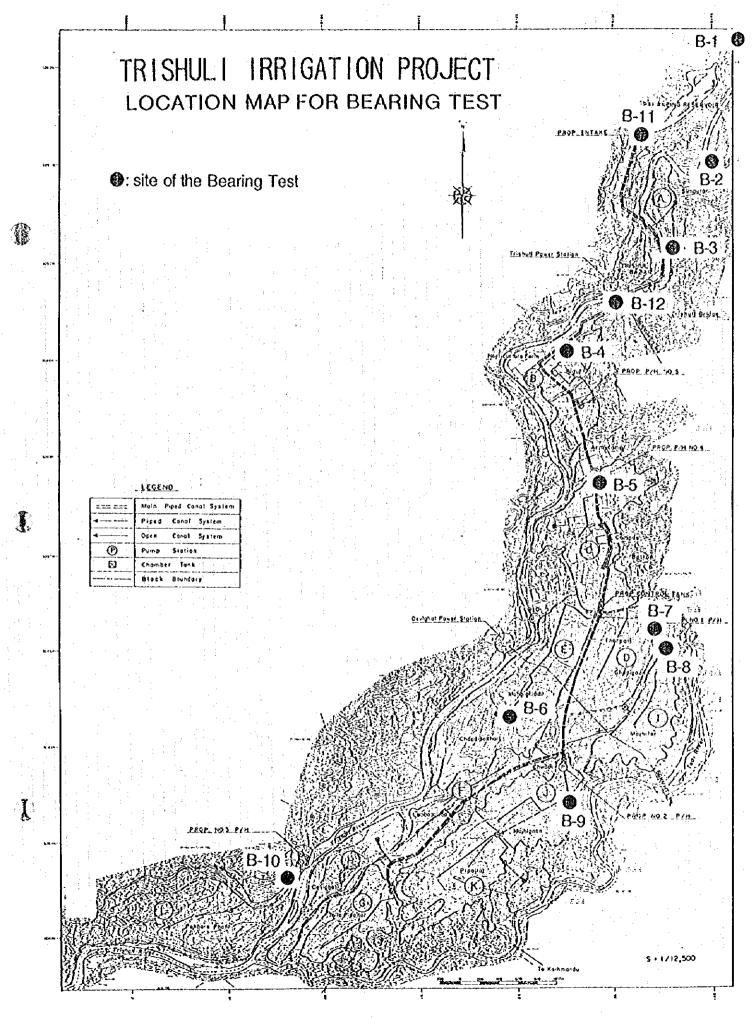
Part B

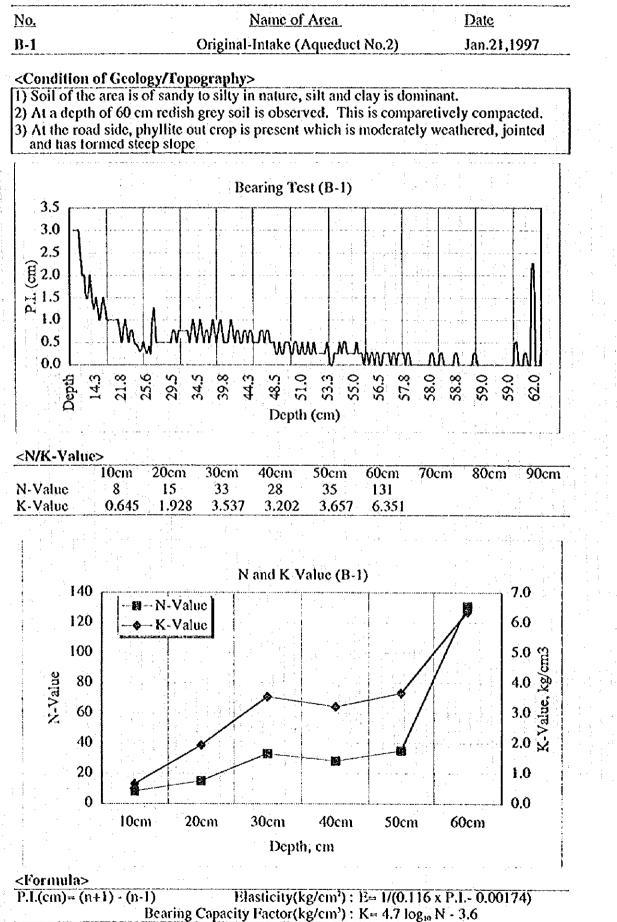
Q

Ţ

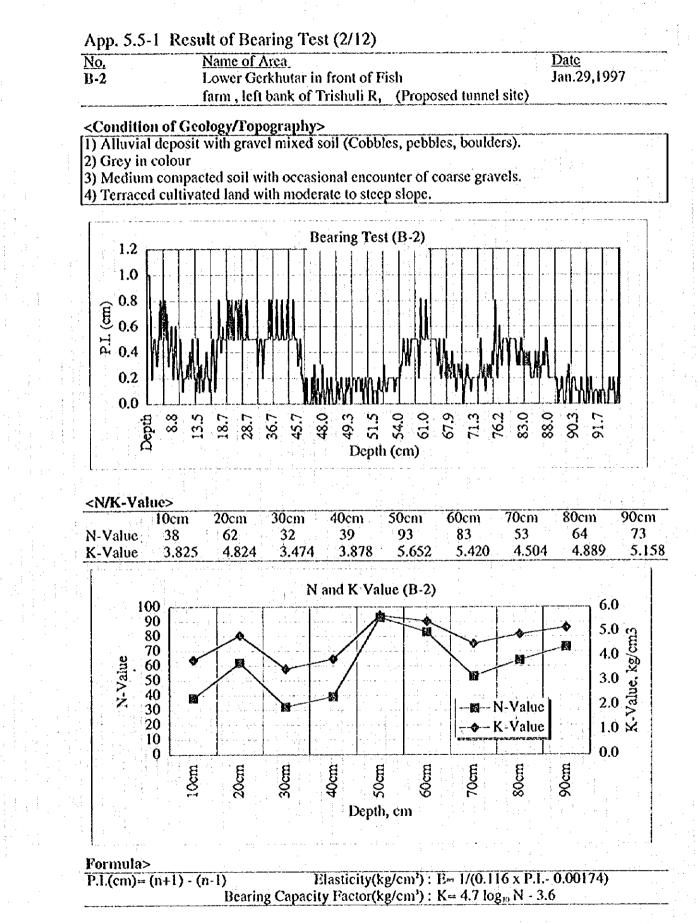
Appendix 5.5 Irrigation and Drainage



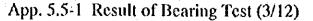
App. 5.5-1 Result of Bearing Test (1/12)



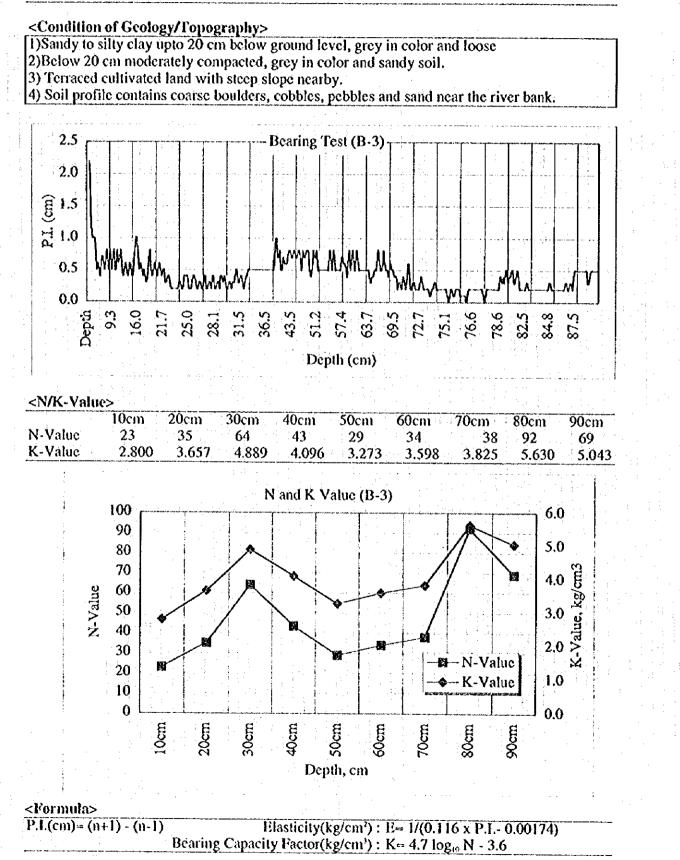
K



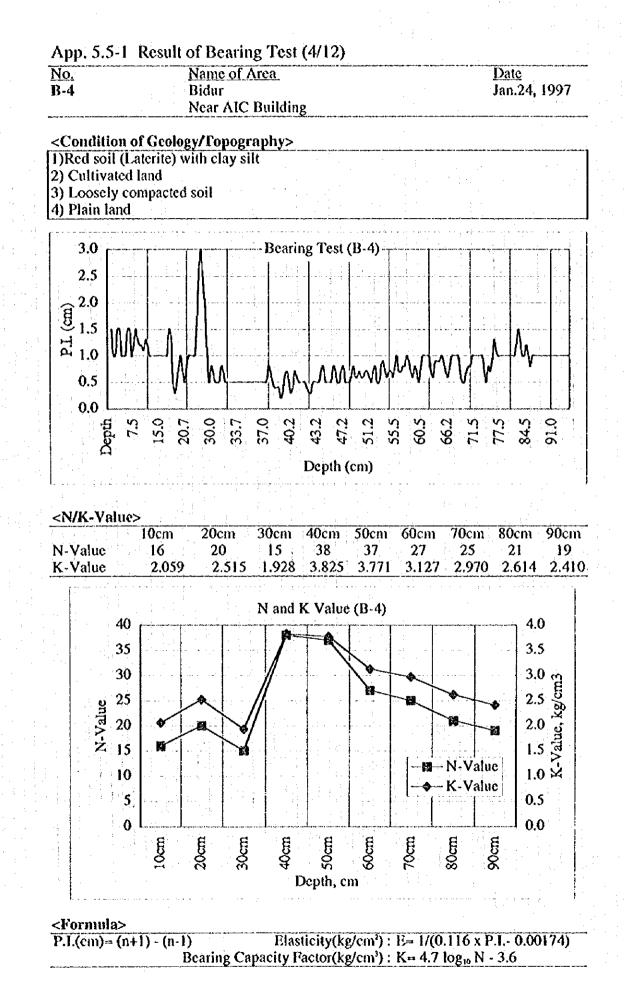
ł



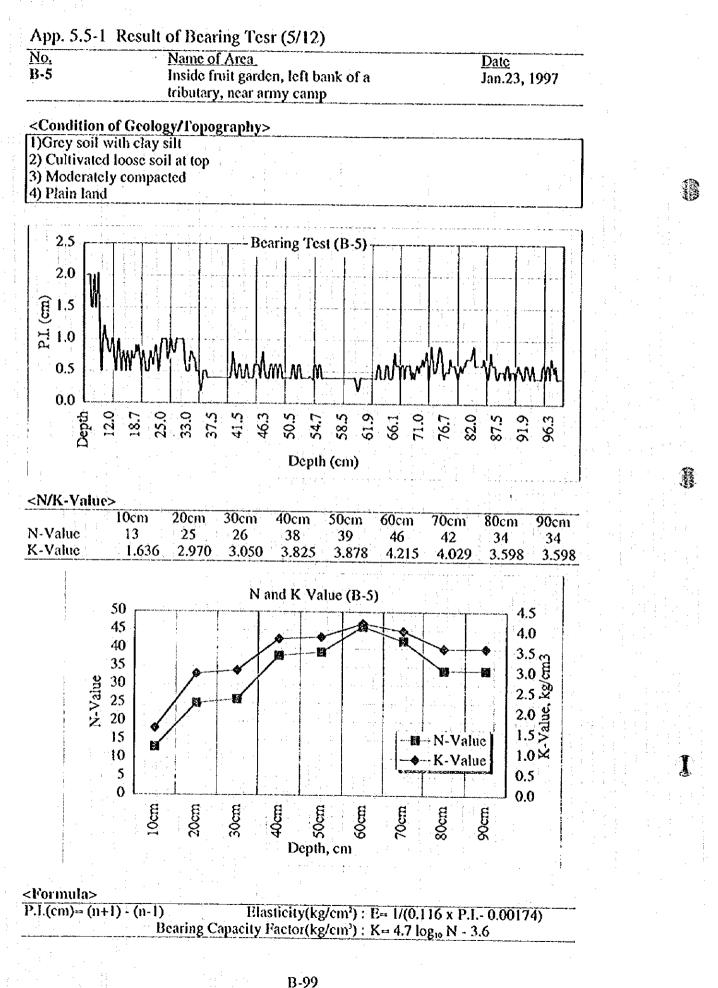
No.	Name of Area	Date
B-3	Simutar, on the left bank of Trishuli	Jan.23,1997
	River in front of School.	

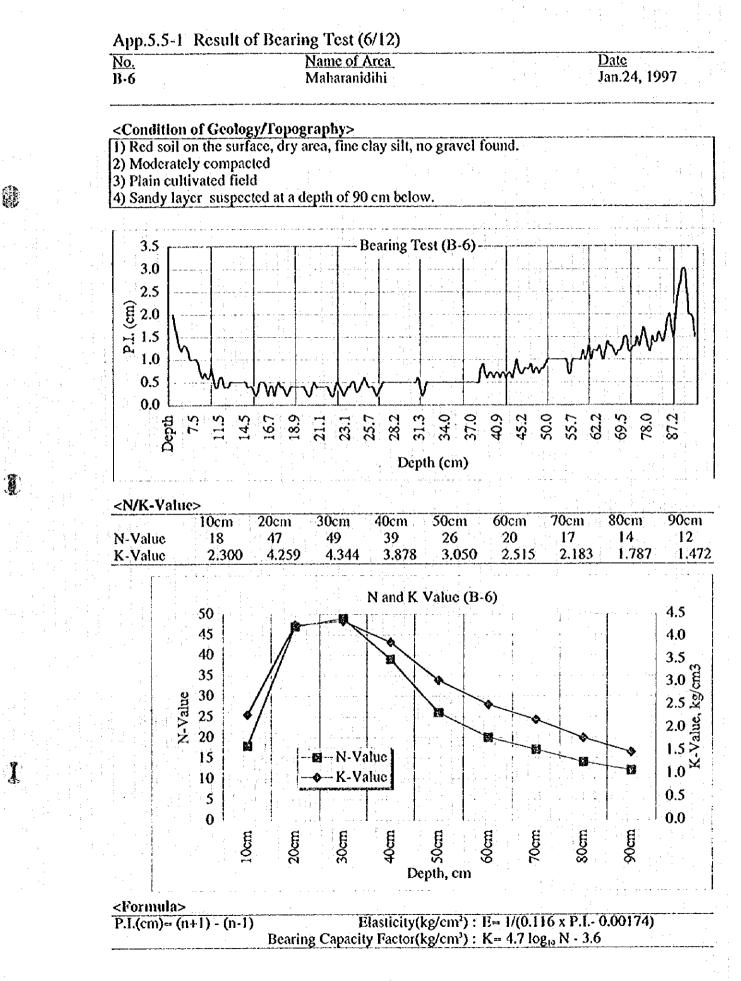


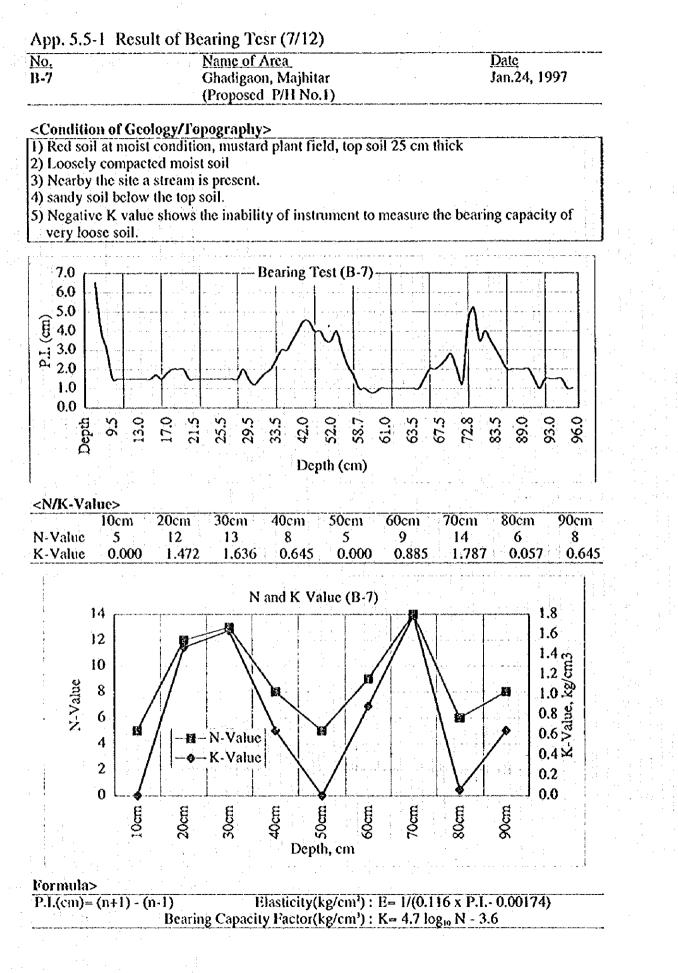




9

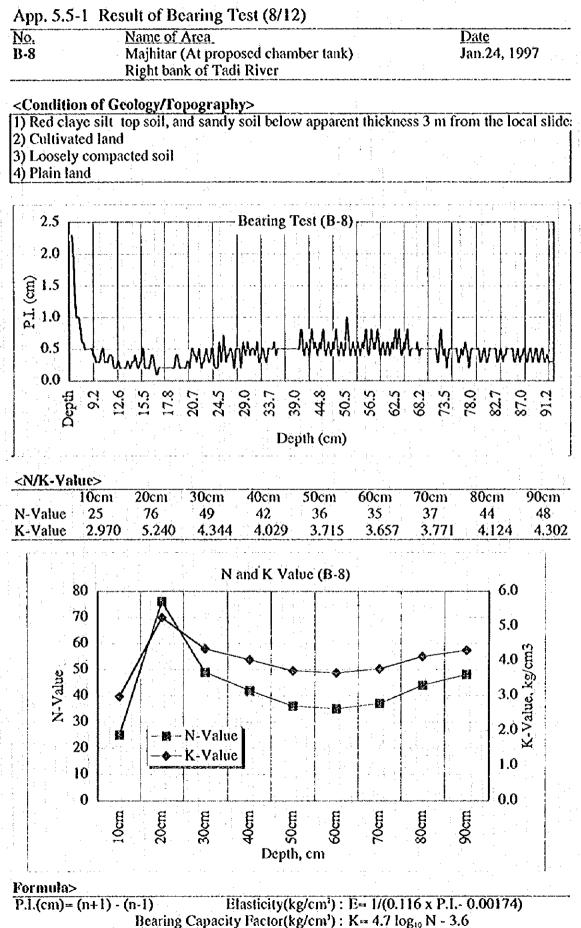




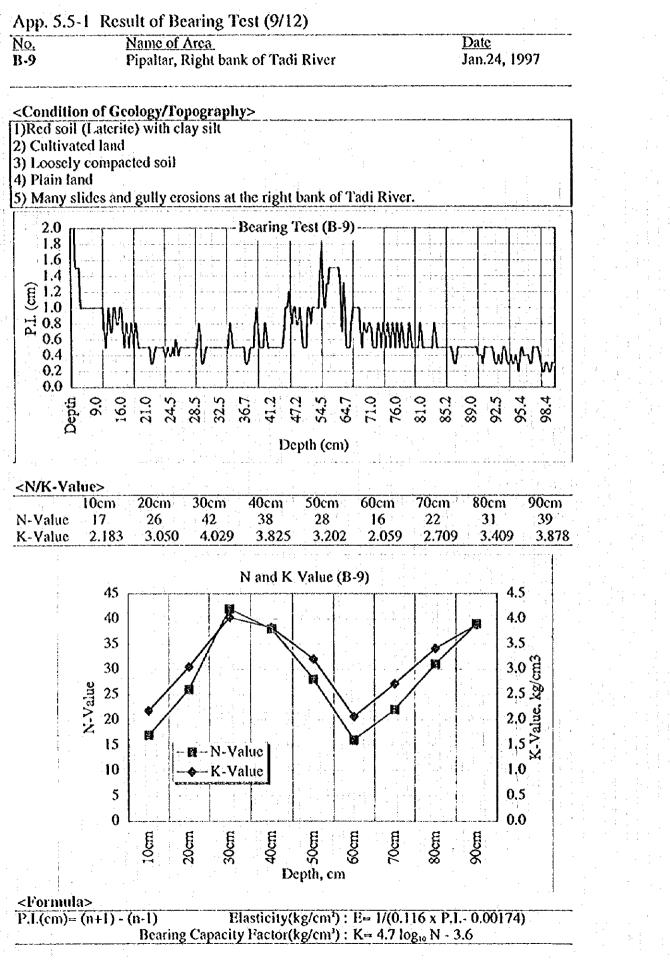




B-101



J



X

App. 5.5-1 Result of Bearing Test (10/12)

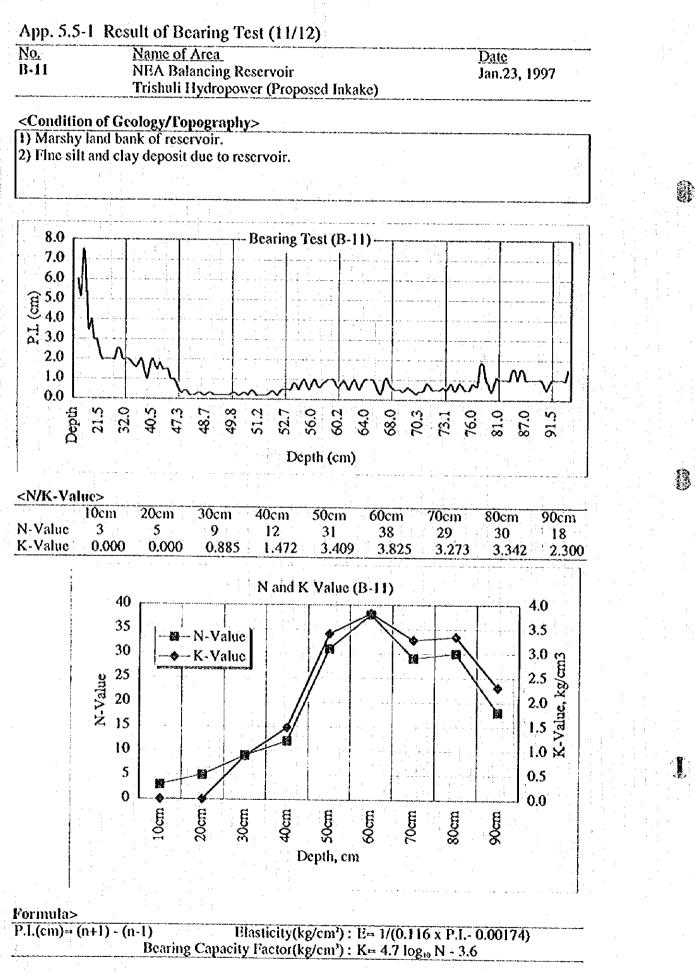
No.	Name of Area	Date
B-10	Pokhare Phant, Khadga Bhanjyang V.D.C.	Jan.25, 1997
	(Proposed Chamber Tank Site)	

<Condition of Geology/Topography>

S.

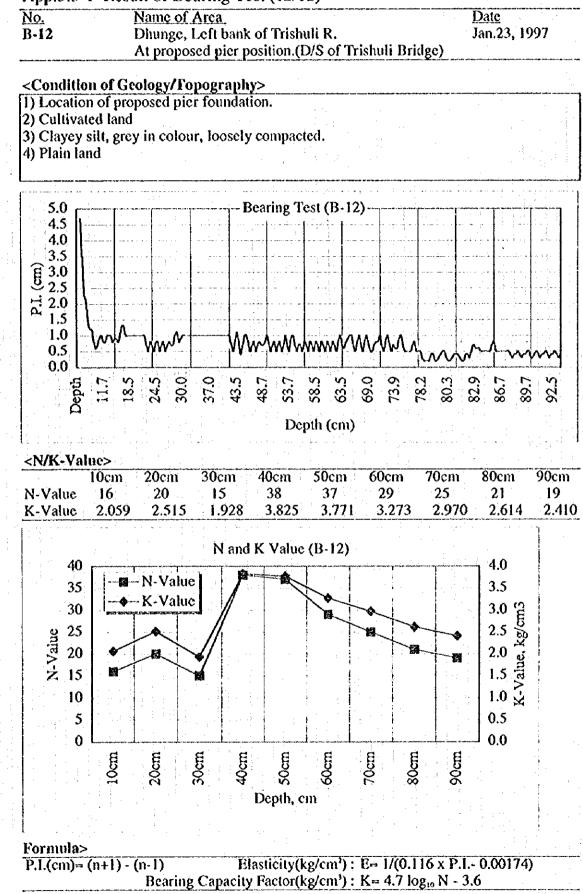
1)Red soil (Laterite) with clay silt 2) Cultivated Plain land at the site, but steep slope towards river. 3) Slate, Phyllite outcrop is present along the bank of Trishuli river below. 4) Proposed chamber tank about 100m above the river. 2.5 Bearing Test (B-10) 2.0E 1.5 는 1.0 \mathbb{W} ΜM 0.5 0.0 41.8 62.1 66.6 772.0 77.5 29.5 38.0 49.0 83.0 22.5 45.1 53.2 57.7 88.5 93.5 Depth 45 80 I5.2 18.5 Depth (cm) <N/K-Value> 10cm 20cm 30cm 40cm 50cm 60cm 70cm 80cm 90cm 23 20 21 N-Value 27 32 18 32 25 14 2.800 2.515 1.787 2.970 2.614 3.474 2.300 3.474 K-Value 3.127 N and K Value (B-10) 3.5 35 3.0 30 cm3 2.5 25 2.0 N-Value 20 1.5 I.1. K-Value, 15 10 N-Value Ó.5 5 K-Value 0.0 0 50cm 60cm 90cm 10cm 20cm 30cm 40cm 70cm Social Depth, cm

<Formula>
P.I.(cm)= (n+1) - (n-1)
Elasticity(kg/cm²) : E= 1/(0.116 x P.I.- 0.00174)
Bearing Capacity Factor(kg/cm³) : K= 4.7 log₁₀ N - 3.6



App.5.5-1 Result of Bearing Test (12/12)

1



App. 5.5-2 Comparative Study for Selection of the Pipe Materials (D=1000mm) on Main Canal

.

Pipe Materials	Certifugal	Ductile Cast Iron	Steel Pine	Fiberglass
	Reinforced	Pipe	otterripe	Reinforced Plastic
	Concrete Pipe	- · r -		Mortar Pipe
	(RCC)	(DCIP)	(SP)	(FRPM)
Intensity /	Weak with giving	No problem,	No problem.	Slightly weak with
Endurance	a impact. Not	except with acid	•	giving a impact.
	suitable with high	soil.		
	water pressure.			E
Assess	Ċ	B	 Ā	B
Constructing	Weight: 760 kg/m	Weight: 400 kg/m	Weight : 220 kg/m	Weight : 140 kg/m
Ť	Due to heavy	Due to heavy	No problem.	No problem.
	weight, there is	weight, there is	· · · · · · · · · · · · · · · · · · ·	rio problem.
	difficulty to	difficulty to		1
	transport and	transport and		
	construct.	construct.		4
Assess	Ĉ	<u>c</u>	A	B
Economical	30,200 yen/m	64,000 yen/m	49,000 yen/m	44,500 yen/m
(Market price in T		,- · · , · · · ·		in 1,500 jeium
Assess	ГĀ	<u>C</u>	B	B
	Possible to	To procure from	To procure from	To procure from
	procure in Nepal	foreign countries	foreign countries	few developed
		č		foreign countries
Assess	Ā	B	<u>B</u>	C
Synthetic				
Assessment	C	С	Α	B
r koocomben				

A: Suitable, B: Possible, C: not suitable

									· .			
			. 1						E.		1.5	
:				•	-9148 - 4Y		FOLIAN					
	itatich dou:	117			**************************************	r uð tuðira urf	1991 BM.1			itude ida	i in col	: : :: ::
•	Pivar:	Lisuli										1: H 1: X
	Location:	Secrenas		a tha an						vasion (me		· · · · ·
	lastriaaris:	Staff Ga		:						inage area		
		Bacorder					·			nt of race		01 (64 (67
- - -		Cable Aa Sed. San				13445203 EAR 1977	U (in cons	oar day]	<u>rac</u>	of record	- - -	
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10 F	•			33.3		0.100	27400	117000	14900		353	• • • • • • • • • • • • • • • • • • • •
· .			 113	.99.2 165	13a 138	2720 2929	21120		14700 10700	5570	دين 13 ¹ د	
i.		.7.7		163	165	1750	51000	82900	10500	3370	455	228
	1	120	22.0	135	219	1620	2010	16100	41500	2170	475	: 4-5
	5	179	••••	211	3.0	239	50690	54200	12700	2010	535	253
	3 3	105	51.6	246	236	391	27500	45000	12000	2670	- 405	305
· · ·	7.1	32.0		1520	:- 235	- 753	<u>352</u> 00	55500	16500	1160	4 7 9	170
	3	103	192	141	155	2140	51700	52700	7120	1010	517	155
	9	9915		267	157	1430	6-2-0	24300	8430	3270	333	144
	19	402	199	275	914	2440	107900	13100	14300	1370	199	225
	11	• 9T.2		308	316	1700	39300	13900	26100	1020	373	185
		33.1 59.3	226	1150	408	1320	49100	11600	30200	326	509	255
	13	·•••		294	155	1230	27800	23600	9030	1000	268	244
		41.6 58.3	94.7	233	536	1130	- 62300	149000	15700	955	354	193
	15		103	276	648	11800	21500	28100	6970	710	276	160
		149 77.8	69.9	214	991	4170	30900	34400	5620	804 551	310 205	211 166
	17		198	124	444	1570 1600	33600 37100	19900 13100	4040 3760	507	190	200
-2	1\$ 1 19	84.6 129	387 84.7	= 164 152 -	322 452	4290	68700	11000	3600	840	251	177
·	- 20	105 192	78.3	231	··· 814	9230	63100	12500	3480	483	280	512
		100 170	1014								1.4	4
	21		123	174	1050	13200	39200	9050	4540	834	129	
		67.3 139		159	1370	13000	34100	. 19160	4335	508	300	157
	23		102	226	435	20700	92700	52400	4770	797 616	239	143
	24 25	43.3 218	108 73.7	> 258 174	383 389	13100 11400	53600 43000	26900 62900	3140 6180	561	345	143
· · · ·		52.3 164	1917 144	156	347	10600	23400	\$0400	2670		193	150
	27		138	- 275	987	19600	92900	31300	3600	432	255	504
		23.9 149	106	752	4550	20000	161000	21500	2730	371	<u>ئ</u>	311
	29	•••	58.3	1720	3020	10400	57400	34700	2200	384	268	93 5
· .		66.1	173	414	4250	23700	121000	19400	2080	1580	194	
	31	•••	1100		\$350		92000	16000		425		74]
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		103 117	171	355	965 5760	- 1049 - 23700	54000 . 151000	41100 149000	10000 41600	1300 5590	325 536	512
		402 213 38.1 39.6	1100 51.6	1720 99.2	5350	20790 371	21500	9060	2080	- 374	129	93.3
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12	No at obs.	15 15	24	30		59		31	29	29	انو . باشاده بدند.	3 - 11
	Tons/sg ka (0.77 0.31	1.29	2.67	1.23	51,4	:07	319	73.0	9.73	2 18	5 <u>6 5</u> 2
1 () 		0.00 0.00	0.00	0.00	0.00	0.03	0.23	0.17	0.04	0.01	0.00	0.00
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-	· ·		HEAN		XINUK		· .		MINIMUM			
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	Coserved 1977	1 *								ING NEP	<u>61</u>	
· .	Station	443			91 <u>94 - 80</u>	NOLDEX S	<u>UT158</u>		1.42	tuda (deg		. 17 62 10
	Station no.: River:	i47 Trisuli								coda (deg ituda (deg		
	Location:	Setravati								ation (net		
	listrugents:				B	-108				4410% (#15 4410% (#15		
		//								• • • • • • • • •		

APPRAIR TIVER PAILY

447. frissli at Betravati

INSTRUMENTS: Staff Gauge Recorder Cable Way Sec. Sempler LATIFUDE (Seg min sec): 27 58 98 CONSITUDE (deg min sec): 35 11 90 ELEVATION (meters): 609 DRAINAGE AREA [sq. km]]: 4110

			SUMMARY	07 XCN	ALY AND CALEND			TRANSPOR	T _. (Tens/	(Day)	* .	· · · · · · · · · · · · · · · · · · ·	
	Jar.	Fao.	4ar,	Apr.	81y	June	July	Acç.	Seo.	Oct.	Nov,	Dec.	Year
Mean Max. daily Min. daily	207	233	627	910	14000	63000	54500	122000	29300	26200 326000 1020	1090	557	326090
No. of ocs.				1 a a a a a a a a a a a a a a a a a a a			1				· · · ·		

EXTREMES AND AVERAGE SEDIMENT TRANSPORT

	Sediment Transcort	Discharge		
	(tons/day)	(currec)	- Date	

For 1973: Observed maximum instantaneous

NAPAYANI RIVER BASIN

447. Trisuli at Betrawati

LATITUDE [deg min sec]: 27 58 08 LONGITUDE [deg min sec]: 85 11 00 ELEVATION [meters]: 600 DFAINAGE AREA [sq. Xm.]: 4110

INSTRUMENTS: Staff Gauge Recorder Cable May

Sed. Sampler

SUNNARY	٢F	MONTHLY	40	YFARLY	SEDIMENT	TRANS	PORT	(toxs/c	(47)
			ι: * γ	DAR YES	2 1979				1

:	lan.	fib.	Mar,	Apr.	Кау	Suna	July	Aug.	Seo.	Ost.	Nov.	Dec.	Year
Nean	125	150	705	172	1690	13500	61500	26700	1170	2060	492	251	9710
Max. daily	394	234	13700	3980	5010	37500	486000	129000	41200	36890	8270	486	186000
Min. daily	54.1	83.9	45.2	53.0	167	263	1170	4320	783	332	53.6	118	45.2
No. of obs.	20	2)	30	29	28	30	31	31	3	31	30	31	340

		• • • • •	
	Year 31.3 50.9 45.6	26.5 24.5	
	Dec 60.2 54.0 54.0	42.4 33.6 36.5 35.1	
(S) S)	Nov 76.7 79.5 67.0 83.0	6 0 0 0 0 0	
ي ع 2	0ct 118 125 90.8 87.2 87.2	102 86.0	
MINIMUM MONTHLY AND YEARLY DISCHARGES (m3/s)	Sep 221 247 158 158	273 273 210 288	
) YEARLY	Aug 343 436 436 400 237	4 4 5 4 4 4 6 6 4 4 6 6 6 6 6 6 6 6 6 6	
HLY AND	Jul 373 432 216 256 256	472 291 262 262	
NOM W D	Jun 72.8 81.0 112 94.8		
	May 42.5 63.0 61.0 61.0		
	Apr 38.0 52.00 54.0 55.0		
ž At	0 Mar 3 37.1 9 50.9 8 44.6 8 47.2 8 47.2		
	0 31.3 0 31.3 0 50.9 9 47.8 0 45.6		
	Jan 32.0 52.0 49.9 48.0	35.8 31.5 31.0	
Station No Station Name	Year 1985 1986 1988 1988	1990 1991 1992 1993	
5.34 KG (Ö		1	
		B-110	

	đ.	_		0		~	:			0	0	
	· · ·	Year	667	970	٩	758	ı	,	•	1360	1850	
		Dec	75.4	81.0	67.0	69.2	t i	59.0	51.0	50.0	51.0	
	(3/s)	Nov	116	123	89.6	86.0	78.8	0.66	•	86.0	8 0 .8	
	RGES (m	ರ ೦	525	247	180	148	214	266	4	229	276	
	DISCHAR	Sep	656	970	•	548	440	737	•	630	645	•
	YEARLY	Aug	596	856		758	592	1200	1050	1360	1850	
	LY AND	Jul	667	922	580	655	512	1330	744	600	832	•
	MONTH	Jun	423	332	270	324	512	552	352	285	320	
	MAXIMUM MONTHLY AND YEARLY DISCHARGES (m3/s)	May	85.5	93.0	9 0 .0	190	324	152	158	61.0	-16	
		Apr	72.8	82.5	90.0	62.0	63.0	67.0	55.0	43.2	72.8	
1.00		Mar	40.7	57.8	60.2	54.0	55.0	45.6	40.8	31.5	29.5	
447 Trisuli Betrawati		Feb	40.7	57.8	53.0	53.0	53.0	41.6	35.1	34.4	32.5	
••• ••• ••		Jan	40.7	60.2	61.4	55.0	82.4	•	44.0	37.9	37.2	
Station No River Station Name		Year	1985	1986	1987	1988	1989	1990	1991	1992	1993	

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Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yea
1985	35.6	33.8	49,9	46.3	54.6	156	486	432	369	200	61.7	69.1	169
1986	55.1	54.5	53.9	64 6	77.1	319	694	565	454	169	96.4	67.9	226
1987	54.2	50.1	48.8	56.7	6.69	177	396		•	116	78.7	61.8	.
1988	52.2	48.5	49.3	59.7	86.3	178	488	566	260	109	71.8	58.8	170
1989	53.8	47.5	48.4	57.2	105	138	356	441	282	120	65.1	•	•
1990	•	37.1	36.1	47.9	91.2	315	815	650	452	167	77.1	49.1	
1991	38.5	32.5	32.5	38.0	86.4	210	448	802	· · ·		4	45.1	•
1992	35.4	29.1	28.6	34.6	43.1	122	325	602	410	40	66.5	41.8	166
1993	33.2	30.5	27.2	38.2	84.5	192	446	728	422	166	67.7	42.1	191

	NEOUS	Discharge 30.5 49.9 43.6 45.6	43.2 32.5 26.5 24.0	
	MINIMUM INSTANTANEOUS	Date Feb. 15, 1985 Mar. 10, 1985 Mar. 10, 1987 Feb. 25, 1988	Mar. 14, 1989 Mar. 13, 1990 Feb. 27, 1992 Mar. 20, 1992	
	TREME DISCHARGES (m3/s)			
and I Andred An an Martan An an Dummer An 1933 " Trisuli Trisuli Betrawati	EXT	Discharge 2000 1030 1060 856	600 1520 2020 2020	
" therefore were the station No 1 47 Station No 1 47 River 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IN INSTAN	Date Date Di Aug. 04, 1985 Jul. 22, 1986 Aug. 11, 1987 Aug. 01, 1988		
		B-113		

Date: 10 Dec. 1996

821

Station name: Betravali River: Trisoli Station no.: 447

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•					AF3	N HONTA	ILY AND	YEARLY	GISCHAR	ees fir	I CaseC	1	· · ·	•	
· Yı	ear;	Jan.	feð.	har.		•						· ·	Dec.	Year	ĺ
								6 <u>- 1</u> - 1							
	971 978	48.1 45.6	46.5		: 54.9 : 57.4	77.8 151	192	- 591 520	619 625	- 360 - 332 -	- 164 - 215	91.0 108	61.7 70.1	214	
	979	51.3	43.5	41.9	52.4	91.9	185	468	504	280	137	83.0	55.6	157	
19	980	43.5		40.8		80.6	276	663	678	390		91.2	53.9	216	
	931	42.8				85.0	290	- 714 -	619	369 141	140	87.1	56.0 °	212 161	•
	932 933	43.2 42.1		56.0 36.3	174.6 38.5	81.4 69.9	212	407 : 377 -	595 506	- 393 - 158	120 200	-77.5 -\$1.9	54.1. 60.4	172	
	984	46.6		34.2	34.5	107	298		517	417	117		(8.9	196	: 1
	935			41.9		51,6	156	496	432	163	200			169	
	986	\$5.1° \$2.2		53.9 49.3	59.1	11.1 86.3	319	694 489	595 566	454 260	169	96.4	67.9 S 65 a S	226 	
	938			49.4	\$7.2	105	168		411	262	120		13.7	152	
	990	41.5	37.1	35.9		91.2	315	\$15	628	45?	157	- h.j.	49.L	231	
	972	34.5		28.6	34.6		122	325	199	410	140	66.5		166	
ין - - וי	\$93	33.2	30.5		38.2	EI.5 .	192	445	128	: 422)	166 	67.7	42.1	111	
<u>ት</u>	verage;	ii.5	40.0	41.9	\$1,3	85.7	223	531	581	375	iss	62.8	56.2	191	
			•		· · ·										
. ↓ }				;	yaxiksi	I MONINI	Y <u>ànd</u> i	ieaaly o	I SCHARG	ES [in	Casso]				
l: Y	ear:	Jan.	Feb.	Mar.	Rpr .	Maÿ	June	July	Aog	Sep.	Oct.	Nov.	[ec.	tear	
- 19	977	52.2	51.4	58.0	77.6	155	432	-m	820	505	262	125	73.0	820	
		52.2	49.0		86.7	243	620	٤52	918	424	540	141	85.4	918	
			52.2	45.8	82.8	123	404	1040	790	468	191	277.4 110	74.6	1040	
		49.9	44.5	43.4	-105 73.2	110	667 678	1049 862	1080 784	575 760	265 210	115	10.4 16.2	862	`.
	982	45.7	45.6	11.6		129	364	662	• 0 38	667		93.8	60.8	838	
	991	47.8	37.2	39.0	52.4		490	\$20	662	191		123	8.03	662	
	984 ·	57.2	35.4	31.2		221	382	808	820 1515	748 656	108	81.0	61 4	820 667	
		40.7 50.2	40.7			85.5 93.0	423 832	661 922 '	10 10 10 10 10 10 10 10 10 10 10 10 10 1	636 978	525 247	114 123	35 4 61 0	970	
1		55.0		51.0			321	: 155	158	503		85.0	69.2		
			53.0		63.0	324	\$12	\$12	592	440	214	78.8	54.0	592	
		45.6	.41.6	45.6	67.0	152 61.0	- 552 - 285	1330 600	840 1360	137 630	· 266 229	99.0 86.0		1330 1360	
	992 993	37.9		29.5		116	320	812	1950	135	276	90.5			
-	فللم منب موارد			•					. :	• • · · · ·		· · · · · · · · · · · · · · · · · · ·	· · ·· ·		•
1 210	xtrese:	82.4	57.8	11.6	105	324	832	1330 -	1650	975	540	141	85.4	1559	
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i) I Yı	ear:	Jan,	feb.	Nr.	Apr.	Hay_	June	July	£e]	Sep.	Oct.	Nov,	beç.	tear	
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1 19	977 978	42.9	40.8	42.9	42,9	65.4	170	376	364	125	111	8.56	\$9.0	40.a	
- j - U	919	ł4.3	41.5	41.5	42.9	12.6	13.1	195	307	157	}}.2	70. 1	45.9	Q.5	
15	979 980 981 982	41.2	38.1	- 36.3 - 11 4	142.3. 118 J	62,0 · 59 4	99.2 97.4	405 - Sca	- 247 - 463	. 761 . Tês	110	8.11 8 7 8	- 48.9 46.7	36.3 33.6	
19	892	49.1	37.2	11.5	67.6	69.0	133	167	17	167	92.0	62.0	45.7	51.2	
- is	983	35.4	32.7	24.5	34.5	42.4	55.0		552	1.15	- [19	10.2	45.1	52.F	
	159	33.6	31.8	31.8	30.9	33.6	156	. 409	347 .	- 193 -	82.S-	61.4	10.7		
	985-	32.0	31.3 Kn A	37.1	38.0 53 A	42.5 63.8	72.8 91.0	373 432	: 313 (26	: 221 - 11-		16.1		: 31.3 50.9	
10	985 989	32.U 49.0	45.6	47.2				255				63.0		45.6	
·	999	50.0	44.8	44.0	51,0	\$3.0	102	235	332				45.6 42.4		•
្រា	\$90	37.9	35.1	33.7	33.7	50.0	158	472	189	273	102	60.0	42.4	33.7	
	972 593 ·	31.5 31.5	26.5 28 G	26.5	27.0 26.0	35.1 59.0	58.0 110	- 145 - 282	456 - 468	210 288	56.0 92.0	49.0	36.5	26.5 24.5	
+ 1										••••				· · · · ·	
E	ktreae:	31.0	26.5	24.5	.26.0	55.6	54.0	145	217						
' -		• • • •		• •				· .	•						
2						В	-114								

RAG NEPAL CHM - HYDROLOGY SECTION

YEAN DAILY DISCHARGES (cumec)

Latitude [deg min sec]: 27 S8 08 Longitude [deg min sec]: 85 11 00 flevation [meters]: 600 Orainage area [sq. km.]: 4110 Start of record: 01/04/67 End of record:

						ET UISCHRIG Ear 1977	15 (Casec)			. • •			
l ay	Jzn.	Feb.	Mar.	ra A	Key	June	July	Aug.	Sep.	Oct.	Nov.	Dec .	- (9
	52.2	45.8	50.6	57.2	50 0	143	440	808	440	252	115	73.8	
	51.4	45.0	50.6	53.6	59.0	127	440	730	445	262	113	75.8	
3	51.4	44.3	49.8	54.0	55.0	135	490	820	445	248	117	72.6	· · ·
ć	51.4	45.8	4° 8	53.0	55.0	125	555	730	408	242	125	70.2	
s :	51.4	45.0	49.6	49.8	59.0	109	580	705	372	242	117	67.8	
6	50.6	43.6	49.8	62.0	62.0	113	515	580	396	216	109	67.8	
· •	49.8	43.6	45.E	63.0	57.0	109	595	585	436	207	105	65.4	1997 - A.
)	49.8	43.6	50.6	53.0	56.0	125	570	555	4(8	189	105	64.2	
¢.	50.6	44.3	52.2	49.8	55.0	129	590	520	392	167	102	64,2	
10	50.6	45.0	55.2	52.2	62.0	131	620	455	424	173	99.9	65.4	
H	49.6	45.0	51.4	54.0	66.6	131	- 640	440	475	173	98.2	64.2	1 ¹
1 - 1 - J. - F.	49.0	45.0	51.4	54.0	63.0	131	570	455	505	168	96.5	64.2	1
13	47.4	45.0	49.8	54.0	64.2	129	550	436	432	157	91.4	64.2	
14	48.2	45.0	49.8	54.0	17.6	119	530	796	436	157	93.1	62.0	· · · ·
15	48.2	46.6	49.8	55.0	75.0	137	465	530	372	155	91.4	61.(
16	46.6	47.4	50.6	50.6	30.2	121	520	630	350	155	89.7	61.0	12
17	46.6	47.4	49.8	51.4	71.4	117	540	550	337	145	88.0	60.0	8
18	46.6	46.6	49.8	51.4	66.6	123	605	490	343	143	88.0	58.0	
19	40.0	47.4	49.0	49.0	72.6	151	652	490	329	135	0.88	57,0	
17	47.4	47.4	47.4	19 Q	22 1	228	670	485	315	133	85.4	57.0	
21	45,8	45.8	45,8	53.0	86.7	259	646	460	304	127	82.8	56.0	
22	25,8	44.3	4±€	49.5	54.1	262	58.5	545	361	125	£2.E	55.0	
23	4t.t	4E.E	· E , C	51.4	78.9	283	580	736	258	123	84.1	55.6	
24	46.0	51.4	٤٠	51.4	73.8	297	540	590	2870	123	E1.5	55.0	
	48.1	51.4	47,2	53. V	75 {		210	820	- 220	123	80.2	55.0	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	41.0	51.2	45.3	85.¢	55.Z	251	565	\$02	269	123		56.0	
	45.E	53.4	£5. 5	H.C.	91.4	505	640	718	2.2	115	75.3	(7.8	
	2	5((£	70 1	105	355	730	53	45	117	77.6	59.0	
	22]		4			201	£5Ê	<u>.</u> 57	245	112	11.6	54 6	
• 4 • 17	: . (5		4		754	575	245	_ <u>11</u> ¢	71.t	58. č	
••	e.:		55.0		155	4		575		117		51.1	
Kear	48.1	46.5	29.8	52 C	77.8		581	6(9	1.0	164	02.6	el *	
45%.	52.2	51.2	51.0	7.6	155	737		820		215	125		. 9
K 6.1	٤٠, ز	43.6	6.2	45 (55.0	105	22(132	245	117	- ₩.€	¥	1
	21.4	27.4	. <u>.</u> .		56.7	•••				10-	<u>د ج</u>	• ((
lis/sq kr		11.5	1		15.4	4.		4	₽7 ÷	35.E		15.0	
			•**¢*		• •	· · · · · · · · · · · · · · · · · · ·			NIKIMIY	·			
		- f.T	10 CU12		C.8ET 6	inst er fi	DATE	1	SCF [CUBES]	GALIEF K	E.Fr. 1	DATE	
Theat daily				z. 183211.		an a	2: Aug.		42.0			Fet 27	
instantare		- <u>+</u> + 1	•			2 34	2º Jely		42.2	Q.1		FEL T	1
1.0115201215							1 June					Alt 1	
		ier die veet	e 11	1		· •				••			
· · · · · · · · · · · · · · · · · · ·		ا به من	• · · • • • · · • •										

B-115

Station no.:

lastruments:

fiver:

tocation:

447

Trisuli

8etrawati

Recorder

Cable Kay Sed. Sampler

Staff Gauce

KMG NEPAL DHM - HYDROLOGY SECTION

Station no.: 41 River: Location: Instrumentsi

Iriseli Betrawati Staff Gauge Pecorder Cable Way Sed Samier

tatitude [deg min sec]: 27 58 08 Longitude [deg min sec]: 27 50 cc Longitude [deg min sec]: 65 11 00 Elevation [meters]: 600 Drainage area [sq. ka.]: 4110 Start of record: 01/04/67 End of record:

			Sed. Samp	ier		HEAN DATE	V NYOCHAD	GES [cimec]		·	:		
•	:		: .		a Ali tan		AR 1978	ars (erwar)					
,	62y	Jan.	Feb.	Kar.	Apr.	ray	June	Jely	Aug.	Sec.	Oct.	Kov.	Dec
; +													•··•
	1 1	52.2	42.2	45.8	43.6	85.4	235	525	869	360	219	141	84.
1	2	51.4	\$1.5	45.8	42.5	86.7	189	520	802	350	192	137	85
	3	52.2	41.5	45.0	44.3	88.0	170	490	808	360	176	131	82
5	4	51.4	40.8	45.0	43.6	98.2	181	470	308	353	165	125	82
	5	50.6	42.2	44.3	44.3	94.8	216	460	848	364	201	121	81
	5	49.8	42.2	43.6	45.0	113	235	470	848	343	540	117	81
	R . 1	49.0	41.5	12.9	- 46.3	102	252	470	796	355	.510	117	81
) 11	48:2	44.3	42.9	45.0	103	287	525	£90	319	312	117	78
;		48.2	42.2	43.6	47.4	107	294	485	820	357	318	117	- 73
	10	48.2	42.2	45.0	51.4	125	301	412	766	368	283	- 115	72
•	11	46.6	42.2	45.8	51.4	109	239	465	848	424	252	115	72
	12	46.6	42.2	\$5.0	56.0	107	192	47C	918	408	248	, 115	72
	13	47.4	42.2	{5.8	66.6	117	- 192	420	876	388	248	- 111	12
	14	47.4	42.2	45.0	59.0	135	229	376	712	392	235	107	71
	15 - 5	46.6	42.2	44.3	64.2	151	204	400	550	388	216	105	- 69
	16	45.8	46.6	44.3	67.8	155	269	640	485	380	195	103	69
	17	45.8	47.4	45.0	76.3	176	276	555	470	325	179	103	67
	18	45.0	49.0	52.2	86.7	210	360	525	510	294	163	102	66
	19	44,3	47.4	49.0	64.2	248	322	455	432	372	155	102	66
	20	44.3	46.6	47.4	62.0	-219	350	495	428	350	153	102	65
•	21	44.3	45.8	45.8	55.0	216	(16	500	408	301	145	99.9	64
	22	45.8	45.8	44.3	\$2.2	179	60	490	505	304	141	°8.2	64
	22	45.0	45.0	43.6	53.0	147	414	590	295	297	161	\$6.5	64
	24	44.3	45.0	45.0	55.0	149	455	105	490	283	155	96,5	61
	*3	43.t	45.8	44,3	66.6	181	626	652	510	5:0	153	94,5	63.
		43.6	45.5	12.5	0.00	222	c10 -	600	505	246	153	61,9	60
		43.6	45.8	42.9	57 0	222	- 587	550	62	260	153	\$3.1	60
		42.5	45,8	24	64.2	195	125	652	265	055	145	\$3.1	59
+	33 23	43.6		đĩ đ	- E.S.	: : <	/c*	621	2.92	248	147	¹ 85. (60
	36	42.5		45.8	£1.1	ie:	125	511	385	225	141	92.8	55.
	. .	22.8	en e	45.8		207		541	1.562		142		֍
-	•		·	· · · · · · · · · · · · · · · · · · ·									
1	MEBE -	46.4	24 3	(5.6	35.4 s	151		- 526	125	332	215	108	·
	tor.			55.0			i - ξ1(-:	1.11	319	424	540	14	185.
1	KIN, KI	×2.5	40,8	42.5	45.0	.85.2	- 74	5.6		205	.141	3.23	59.
-	19	34.3	25.5	29.(36.1	98 :		314	<u>(</u> ئ	209	140	÷E.]	4
	Hs/sq it		10.7	11.3	14.0	30.7	8	117	152	80.7	52.3	26.3	17.
-				KEAN	rax	Inur	- 			MINIMUM			
			- 53	1858. (cuaec	.) <u>(:sce</u> ,	[CUTEC] GAL				SCE CUREC	and a second second		<u>6411</u>
	ean daily			214		918		1 63		46.8	. (iei .
	nstänkanso	-				(4)	: ::	400	<u>8</u>	45.			Fet ?
	netantaneo	10.3	1070		· · · · ·	255	2 1	T dens ?	1		··· (,	81 · 7	épr 7

HMG NEPAL DHM - HYOROLOGY SECTION

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X

447 Station no.: Trisuli River: : Location: Instruments:

8etraveti Staff Gauge Recorder Cable kay Sed. Samoier

MEAK DAILY DISCHARGES (cupec)

latitude	[deg	nin	sec):	27	5 8	ŝ()
Longitude						
Elevation						
Drainage a						
Start of a		-	-		/04	
End of rec	ord:					

Ι¥	Jan.	feb.	-Xar.	Apr	Kay	JUNE	July	Avg.	Sep.	Oct.	Nov.	Dec.
	59.0	43.6	41.5	42.9	85.4	\$3.1	505	662	427	172	97.4	74.6
· • •	58.0	43.6	41.5	43.6	86.7	102	525	640	454	162	95.6	67.6
	58.0	43.6	42.2	44.3	96.5	98.2	396	623	468	174	95.6	66.2
	58.0	42.9	42.9	44.3	85.4	98.2	315	540	436	182	-95.6	64.8
· ·	57.0	43.6	44.3	45.0	91.4	\$4.8	266	405	409	172	95.6	62.0
·	56.0	42.9	45.0	45.0	86.7	96.5	242	307	373	167	93.8	60.8
	\$5.0	43.6	45.8	46.6	94,8	98.2	195	311	351	159	90.4	59.6
1 H.	54.0	43.6	44.3	- 47.4	94.8	102	311	321	347	152	90.4	59.6
	54.0	52.2	44.3	48.2	91.4	125	364	307	355	167	87.2	58.4
	53.0	45.8	44.3	50.6	88.0	173	280	414	378	164	88.8	57.2
·. · ·	53.0	45.0	43.6	52.2	88.0	256	311	505	369	194	85.6	57.2
	54.0	43.6	44.3	51.4	84.1	232	360	565	323	167	85.6	56.0
4. A 1	-53.0	42.9	45.0	50.6	88.0	262	364	369	287	147	84.0	56.0
	53.0	42.9	45.0	48.2	96.5	283	376	612	268	140	84.0	54.8
÷	53.0	42.9	45.0	49.8	111	235	372	596	254	136	82.4	53.6
	52.2	42.9	44.3	49.8	123	133	404	459	258	131	19.2	53.6
	51.4	42.9	43.6	46.2	115	103	408	520	240	123	17.6	53.6
	51.4	43.6	43.6	49.8	115	117	495	545	230	118	77.6	51.2
	48.2	42.9	43.6	49.8	107	151	575	515	221	116	77.6	52.4
÷	48.2	42.9	43.6	52.2	102	147	445	790	211	118	79.2	52,4
	47.4	13.6	43.6	51.4	96.5	189	236	673	194	116	79.2	51.2
	47.4	42.9	42.9	53.0	94.8	157	\$35	\$55	188	114	77.6	51,2
	41.4	42.9	43.6	55.0	\$6.7	308	530	570	174	112	76.0	50.(
	46.6	42.9	43.E	57.0	82.8	176	1040	481	1177	110	-73.2	50.0
	ξ 5.ε	42.2	44.3	59.0	£1.5	157	545	540	177	106	73.2	50.0
I	45.8	42.2	44.2	61.0	78.9	269	520	533	177	108	21.8	48.
	46.6	42.2	45.0	62.0	77.6	357	580	525	167	103	73,2	45.4
	\$6.6	41.5	43. c	61.0	75.0	322	Etî -	468	162	105	- 13.2	50.0
	48.2		23.5	81.8	-	200	826	149	155	101	10.4	56.
	45.0		45.t	65.0	84.1	630	623	427	164	10	19.2	51.1
	\$4.3		43.6		98.0		623	- 44	· .	99.2		1 1 4 2 1 4
	51.2	43.5	43.5	51.4	\$1.§	185	455	564	280	137	83.(55.4
č .	51.0 59.0	52.2	45.5 45.8			4(4			462	192	\$7.4	74.6
Х. Г.	23.5 66.[- 41.5		12.9			195	30	159	99.2	70.4	the second second
:. 					: **** : ********	••••		•••				
	33.4	25 <i>.</i> €		33.0	54.5	1.	305	322		89.0		36.
e/se ka	12.8	10.6	-10.7	12.7	21.4	45.1	4.2	5 n T	÷8.1	33.2	20.2	13.5
			REAN	153	INCH : .				KINIKUK			
			SCH. CURES			NUGE RETURN) (ATE	0		CAUGE I	11	DATE
a deily	1075		16	1		1.32	24 20.y		41.5			i har. ?
	1.1.1.1.1.1.1			1			24 July		3.05			2 Mar. 70
		1670 :			280		il in Lune		17			3 Apr. 70

B-117

	Station nb. River: Location: Instruments	•	227 Trisuli Betrakati Staff Gauge Recorder Cable Way							Long Elev Drai Star	itude [deg ation [met	[sq. kr.] d:	: 85 11 (600
		•	Sed. Sample	r .			LY DISCHARG	ES [curec]	an An An				
Ð	· · ·	-				¥	EAR 1980						
8	Day	Jan.	Feb.	Kar	Apr.	hay	June	July	Aug.	Sep.	Oct.	Nav.	Dec.
		48.9	41.2	38.1	42.3	62.0	99.2	405	988	472	265	110	70.4
·	2	48.9	41.2	38.1	42.3	17.6	103	623	1080	565	254	110 :	69.0
1. 1. 1. 1.	۲. ۲.	47.8	44.5	36.3	42.3	80.8	125	570	1070	450	237	106	69.0
	J	46.7	42.3	36.3	44.5	97.4	162	540	922	418	227	106	69.0
	S S	45.6	42.3	36.3	42.3	110	138	486	856	510	208	105	67.6
		44.5	41.2	36.3	44.5	87.2	131	756	814	575	202	103	66.2
	() 1 - 2	44.5	41.2	36 3	46.7	95.6	145	651	718	450	191	\$9.2	64.8
	E	44.5	40.1	36.3	45.9	90.4	261	695	910	432	188	97.4	63.4
t.	9 : 2	44.5	40.1	43.4	48.9	80.8	667	500	994	263	185	97.4	63.4
	10	44.5	40.1	43.4	48.9	73.2	463	590	964	490	182	95.6	62.0
5.4	$\pm \mathbf{n}^{-1} = \mathbf{n}^{-1}$	43.4	40.1	42.3	46,7	13.2	194	689	742	445	177	95.6	62.0
1 (A.)	12	43.4	40.1	42.5	47.8	66.2	234	535	754	418	174	93.8	62.0
	13	43.4	41.2	41.2	50.0	64.8	196	580	754	427	167	92.0	\$9.6
· · · ·	14	42.3	41.2	41.2	51.2	74.6	199	540	695	391	159	90.4	59.6
· · ·	15	43.4	41.2	41.2	53.6	74.6	177	570	724	364	154	90.4	58.4
	16	42.3	40.1	41.2	54.8	74.6	194	748	530	378	149	90.4	58.4
SE .*	17	42.3	40.1	42.3	48.9	71.8	234	678	490	364	147	88.88	\$7.2
	18	42.3	39.0	42.3	45.7	69.0	218	684	335	418	145	90.4	\$7.2
	19	41.2	39.0	41.2	63.8	71.8	254	730	247	355	143	88.8	57.2
	20	41.2	39.0	42.3	67.6	76.0	240	623	258	355	138	87.2	57.2
	21	42.3	39.0	43.4	87.2	3.08	303	795	287	347	131	87.2	· 56.0
1.1.1	22	42.3	39.0	43.4	105	92.0	268	601	500	315	131	87.2	56.0
	22	\$2.7	39.0	42.3	105	85.6	299	629	766	311	129	84.0	54.8
· .	22	42.3	49.1	42.3	74.0	3.38	283	177	242	307	133	82,4	54.8
	a	10 3	39.0	42.3	73.2	93.8	327	70-	766	200	127	80.8 30-0	52.4
	20	42.2		42.3	77.£	93 E	405	544	784	201	122	79.2	51.2
	25	42.3		4	71.5	76 C	565	575	17?	210	118	17.6	50.0
	25	42.3		Ľ	74. t	74 E	59(t l	545	26	112	- 72.2	50.0
· -	. •	42.3	38.1	42.2	?1.E	· ((?)	752	486	283	112	74.E	59.1
	5	41.7		42.0	52.5	₩.¢	251	Ciz	351	161	112 116	3.15	- 31 - 31
		<u>د د</u>		41.1		5E.i		1648	ئن د. دىمىلىدىن	· • • • • • • • • • • • • • • • • • • •			
- <u>-</u>	*e3n	12.5	40.2	10.8	59.4	86-6	276	667	c78	390	167	91.1	se c
T	*ax,	2.35	44.5	43.4	165	110	. 67	1(4)	1686		265	110	70.0
	*16.	41.2	39.1	36.3	42.3	62.0	<u>۶</u> ۹.:	405	247	261	110	71.5	48.5
	Eł	28.4	24.5	26 t	37,5	52.5	172	.	11	245	106	57.5	38.4 14.3
	5/50	1	\$ 79	\$ \$3	14.5	9 t	67.1		165	AK (A	39.5	1111	14.2

	NEAN (150K.(cumeo)	CISCH. (CUTEC)	GAUGE HT.[F.]	0416 _	NININUM DISCH.[cumec]_GA	NUGE HT. (1.) 041	£
tear daily 1980	2:6	1050	3.3.	2 Aug. 80	31.3	0.67 8 Mar	. 81
Instantaneous-1990		1101	3,35	3 Aeg. 80	35,4	6.61 5 Kar	81
Intiantaneous 19c7+1980	· ·	2250	4 9	17 Johe 73		<u>0.81</u> - 0.001	
foerage discharge for 14 -	eert Hee				· · ·		

Date: 10 Dec. 1996

HMG NEPAL

	· .					ENG NEPAL					Date: 10	Dec. 1996	
						DROLDGY SECT	ION						
tion as:	:	447								itude [deg			
er:		Trisuli										: 85 11 00	
stion:		Betrawati				÷				vation (met		600	
truments	:	Staff Gau	<u>a</u> e	,				· ·		inage area I of recor			
		Recorder								of record:		01/04/67	
		Cable Kay Sed. Samp	let	:					E HA	0. 100010.			• •
		JEV. JAND	101		- KEAN DA	ILY DISCHARG	ES [cumec]						· · ·
	:	di se Si se se se Si se				YEAR 1981							
							1			'			
Y	Jan,	Feb.	Kar.	Apr	hay	June	July	Aug.	Seo.	Oct.	Nov	Dec.	
<u></u>	48.9	J8.1	38.1	42,3	70.4	57.4	678	736	441	214	116	66.2	•
	50.0	37.2	38.1	27.2	63.4	138	200	724	454	218	116	64.8	
	48 ¢	37.2	38.1	39.0	67.6	154	736	760	436	199	114	62.0	:
	48.9	37.2	38.1	39.0	19.2	147	730	645 -	405	169	110	63.4	
-	47.8	27.2	39.0	37.2	90.4	157	736	570	459	147	108	62,0	
	17.5	37.2	39.0	35.4	90.4	164	\$75	623	472	147	103	62.0	
	47.8	37.2	49.1	36.3	77.6	182	510	634	550	145	93.8	62.0	:
	45.7	36.3	39.0	38.1	74.6	191	634	596	575	143	92.0	60.8	
·	16 5	34.5	39.0	39.0	74.6	177	500	525	612	143	92.0	60.8	1 - 1 1
i ,	43 4	37.2	38.i	39.0	76.0	167	570	463	760	143	90,4	59.E	t t
1	43.4	35.4	37.2	43.4	17.6	172	618	481	515	140	90.4	59.6	
- 11 1	43.4	35.4	37.2	45.6	64.8	167	656	565	436	138	88.8	58.4	1
	43.4	36.3	37.2	48.9	59.6	174	820	684	387	140	88.8	58.4	
	42.3	36.3	36.3	51.2	73.2	185	172	584	369	133	88.6	57.2	
	(1.2	35.4	37.2	62.0	95.6	234	742	712	364	133	85.8	56.0	.5
	41.2	35,4	38.1	66.2	105	272	742	651	335	133	85.6	56.0	, and a
1	41.2	34.5	37.2	73.2	79.2	244	796	634	315	131	85.6	56.0	
	41.2	34.5	37.2	70.4	82.4	295	724	601	299	131	84.0	54.8	
	12.3	-34.5	38.1	51.2	101	254	754	684 612	287 261	129 129	80.8	54.8 53.6	:
	40.1	34.5	39.0	52.4	112	268	645		· · · · ·	:			
	40.1	33.6	3¢ (52.4	116	311			227	129		52.4	
		35.4	37.2	57.2	97.4	eli -	856	784	194	127	(1) (1) (2) (2) (2)	52.4	
	19 1	38.1	35 2	60.E	82.4	523	766		188	123		50.0	
	38.1	39.0	34.5	56.0	73.2	4:3	830		208	125	71.8		
	40.1	38.1	36.5	53.E	3.4	659) 575	712	5.5	130	123		50.0 56.5	
	40.1	3£.1	4 5	50.0	54.0	57(675	540 540	108 122	113 111	3.17	- 50.0 48 *	
	35.1 35.1	38.1 17 1	36 È	17.15 25.15		634 560	<u>P71</u> 725	301 112	158		۰، ، ، (۹.(46.9	
		38.1	22.12 22 3	1975 1977 - 1977	ле. К. 12	104 (75	14	110	200 364	1	5 € .C 67.6	40.5	
				: . c :		(11) (11)	724	5 6	251			47 5	•
	42.1			• •	£5.¢			486		LiE	27.0	4	
-~• • -· • -··	···-		· · ·										. :
	42.5	30,1		5Q.C		345	714		365		87.1	56.5	
			40		127	•	SC	194			116	ėc .	
۴.	35.1	33.6	2. t	5.2	3. ⁹ 1	C ~ _ c	500	٤.1	188	115	\$7.6	4:.1	
• •• •• •• •• ••	. م ال						415	م، ب <u>ر میں میں میں میں میں میں میں میں میں میں</u>		¢:,5	t/ 0	3e.1	
tvito re	ć		28 <u>(</u> 6 A1	31.5 11.1	55.4. 26.7		482			34.2		i otili i 17.t	e set
1715 (S 	••••	1,30		; •••••, ••••••	· • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	•**			• • • • • • • • • • • • • • • • • • •	•••• 		
			NIP NIP		n in the second s		•		MINIMUM TERE TAULAN		• f. 1	6772	
			5 1 1 19		<u>. (1965).</u>	6406			ISCH, CUPEC			<u>941:</u> Kar (
r cally								с. С	. 33.e - 21.5		66 - 12 60 - 11	fet L	
lattene:									54 -		V	51 11	

Date: 15 Jan. 1995

<u>NAG REPAL</u> DIKM - HYDROLOGY SECTION

Station no.: River: Location: Instruments:

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447 Trisuli Belrawati Staff Gauge Recorder Cable Way Sed. Sampler Latitude [deg min sec]: 27 58 08 Longitude [deg min sec]: 85 11 00 Elevation [maters]: 600 Drainage area [sq. km.]: 4110 Start of record: 01/04/67 End of record:

HEAN DAILY DISCHARGES (CUPEC) YEAR 1982

	Day	Jan.	fed.	Kar.	Apr.	May	Juna	July	RUG.	Sep.	Oct.	Xov.	Dec.
· · · ·	1	46.7	42.3	47.8	76.0	80.8	140	167	\$75	555	167	92.0	60.8
+ · · · ·	2	45.6	(1.2	48.9	80.8	82.4	188	188	520	472	164	90.1	60.8
: : :	3	45.6	- 41.2	47.8	71.8	82.4	182	218	486	450	157	90.4	59.6
	- 1	45.6	40.1	46.7	67,6	80.8	182	299	520	486	157	90.1	\$9.6
	5	45.6	(0.1	46.1	67.6	80.8	208	373	596	445	154	88.8	59.6
	6	44.5	40.1	45.6	69.0	17.6	218	279	520	441	152	88.8	59.6
:	1	45.6	40.1	41.5	69.0	76.0	268	218	505	495	147	87.2	57.2
•	. 8`.	44.5	39.0	44.5	70.4	- H.6	211	5 - 254	565	436	143	85.6	57.2
	i 9 -	41.5	39.0	45.6	70.4	11.6	247	227	550	427	143	93.8	57.2
	10	44.5	38.1	45.6	71.8	76.0	251	237	515	409	138	88.8	56.0
	11	13.4	38.1	- (1,5	13.2	76.0	231	251	596	459	136	84.0	56.0
5 - F	12	43.4	38.1	44.5	74.6	76.6	214	224	515	510	129	82.4	56.0
1.1	13	11.5	38.1	45.6	- 74.6	76.0	241	211	535	667	125	82.4	56.0
	11	43.4	37.2	45.6	71.8	11.6	261	(18	510	510	121	79.2	54.8
	15	13.4	38.1	11.5	69.0	73.2	287	405	530	468	116	77.6	54.8
	16	42.3	39.0	45.6	69.0	71.8	364	(36	477	427	- 114	77.6	53.6
	17	42.3	38.1	47.8	14.6	71.8	339	436	560	405	- 112	. 76.0 .	53.6
11	18	42.3	38.1	63.4	76.0	· 71.8 ·	244	(45	560	387	108	74.6	53.6
	19	42.3	37.2	61.8	76.0	70.6	194	500	590	423	106	73.2	53.6
	20	41.2	37.2	64.8	11.6	70.4	179	405	585	373	105	71.8	52.0
	21	42.3	37.2	66.2	77.6	69.0	169	505	662	339	103	70.4	52.0
11	22	(1.2	39.0	66.2	17.6	69.0	174	515	754	360	101	69.0	52.4
	23	11.2	40.1	67.6	11.6	69.0	205	580	612	331	97.4	66.2	51.2
:	24	41.2	41.2	69.0	19.2	70.4	240	585	695	295	93.8	64.8	50.0
	25	40.1	43.4	69.0	79.2	74.6	205	596	640	265	92.0	64.B	48.9
	26	41.2	43.4	69.0	19.2	8.83	152	550	706	234	92.0	63.4	48.9
1	27	12.3	£₹.5	10.4	19.2	92.0	138	580	112	199	92.0	63.4	48.9
	28	12.3	15.6	70.4	79.2	101	147	652	838	182	92.0	63.4	48.9
	. 29	42.3	2 	69.0	79.2	118	133	631	695	111	92.0	62.0	48.9
	30	(1.2		10.4	79.2	129	345	590	623	367	92.0	62.0	. 16.7
	31	12.3		74.6		127		610	629		92.0		46.7
	Nean	43.2	39.8	\$5.0	74.6	81.4	212	107	596	393	120	77.5	54.1
	Нах	45.7	15.6	74.6	8.03	129	364	652	838	667	167	93.8	60.8
	Hin.	40.1	37.2	44.5	67.6	69.0	133	167	- " 111	167	92.0	62.0	46.7
	in the	28.1	23.4	36.5	47.0	53.1	134	265	388	248	18.4	18.9	35.2
	1/s/sq	ke 10.5 -		13.6	18.2	19.8	51.6	99.1	145	95.6	29.3	18.9	13.2
:			•	MEAN	MAXI	NUN				BIRIKUN			
		an a	• DI	SCH. Cusec			OGE RI. L.] DATE	0	ISCH. [CUREC]	GAUGE H	1.6.1	OATE
$\pm \pm \pm$	Hean dai	ly 1982		181		38	2.93	28 Aug.		37.2			Feb. 82
1.1		neous 1982				94	3.19	28 Aug.		36.3			Feb. 82
	-	neous 1967-	1005			80	4.93	17 June		27.7			Apr. 70

	1	:	DINN	۱.		<u>s ne</u> Rolo	<u>pal</u> Gy s	((11	OK	
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			i hea	N C	AILI	(DI	SC KA:	RGES	(00	Bec)

Station no.:

Instruments:

River:

Location:

447

lrisvli

Betraiali

Recorder

Cable Nay Sed: Sampler

Staff Gauge

Date:	15 Jan	. 1995
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Latitude [dag min sec]: 27 58 08 Longitude [dag min sec]: 85 11 00 Elevation [maters]: 600 Drainage area [sq. km.]: 4110 Start of record: 01/04/67 End of record:

· · · · · · · · · · · · · · · · · · ·						YEAR 1983	REES (COBE			<u></u>	• •	
Day	Jan.	feb.	Kar.	Apr.	Kay	🤤 Júne	July	Aug.	Sep.	Oct.	Nov.	Dec.
1	46.7	35.4	36.3	34.5	(3.4	118	400	423	535	279	123	80.8
2	47.8	34.5	36.3	38.1	43.4	125	409	423		258	121	79.2
3	<u> (</u> {.5	33.6	35.4	37.2	43.4	152	405	. 382	417	283	- 1H .	77.6
1	(1.5)	33.6	35.4	35.4	48.9	162	454	387		263	112	70.4
5	{{ .5	33.6	34.5	35.4	52.4	ี่ ท.	343	391		230	110	69.0
6	43.4	33.6	34.5	38.1	- 143.4	149	283	(54		208	118	65.2
7	43.4	33.6	34.5	37.2	51.2	152	212	414		202	116	64.8
8	43.4	33.6	36.3	37.2	18.9	143	251	418		196	110	63.4
9	42.3	32.7	37.2	34.5	50.0	138	254	436		230	106	63.4
10	41.2	32.7	37.2	35.4	58.4	105	307	477		258	103	62.0
	41.2	32.7	38.1	38,1	52.1	90.4	251	454	403	335	101	60.8
12	41.2	32.7	37.2	36.3	60.8	90.4	244.	550	360	355	97.4	59.6
	41.2	34.5	37.2	39,0	51.8	85,6	261	651		331	95.6	59.6
K	40.1	36.3	37.2	37.2	69.8	95.6	287	618		261	92.0	58.4
15 .	40.1	36.3	31.2	35.4	101	101	283	565		268	92.0	\$9.6
16	38.1	36.3	39.0	35.4	-73.2	105	212	580		218	90.4	58.4
17	39.0	35.4	37.2	35.4	71.8	121	412	623		221	90.4	58.4
18	39.0	35.4	36.3	35.4	71.8	123	303	662		191 E	88.8	58.4
9	38.1	35.4	37.2	37.2	71.8	121	396	607		154 E	85.6	57.2
20	38.1	35.4	37.2	36.3	82.4	136	436	545		136	84.0	57.2
21	37.2	35.4	35.4	35.4	80.8	167	463	486	441	125	82.4	54.8
22	37.2	36.3	36.3	35.4	87.2	167	490	472	387	121	79.2	52.4
23	38.1	37.2	35.4	39.0	108	172	445	535		118	76.0	52.4
24	36.3	36.3	35.4	40.1	8.88	- 174	463	515		- 110	77.6	53.6
25	35.4	35.4	36.3	41.5	79.2	154	387	525		112	77.6	50.0
26	36.3	35.4	37.2	42.3	74.6	152	481	490		110	80.8	48.9
27	36.3	35.4	36,3	46.7	76.0	275	520	500		116	82.4	51.2
28	37.2	35.4	35.4	47.8	82.4	373	515	454	315	118	79.2	53.6
29	37.2		35.4	43.4	59.2	400	€58	515		136	50.8	56.0
30	35.3		35.4	52.4	105	315		585	275	131	79.2	57.2
31	36.3		35.4		101	•	427	550		125		57.2
lezn	10.1	34.8	36.3	38.5	69.9	161	377	506	438	200		
Nax.	47.8	37.2	39.0	52.4	108	400	520	662	601	355	94.9	60.4
Kin.	35.4	32.7	34.5	31.5	43.4	85.6	244	382	275	J10	123	80.8 48.9
n	26.1	20.5	23.7	-24.3	** jt t	183						·····
l/s/sq km		8.46	8.83	9.37	45.5	102	246	330	276	130	59.8	39.3
				7.31	11.0	39.2	91.7	123	107	48.7	23.1	14.7
			BEAN	MAXI			· · · · · · · · · · · · · · · · · · ·		NINIMON			
		<u>P</u>	ISCK. [COREC]			GAUGE HT. (1			DISCH. [cuae	C) GAUGE H		DATE
an daily			172		67	2.63	18 Aug.	. 83	32.7	Ŷ.(eb. 83
istantaneo					68	2.98	19 Aug.		30.9	0.0		feb. 83
istantaneo				22	80	4.93	17 Júne	2 73	27.7	0.6		Apr: 70
rerage dis	rhærde fo	r 17 vpa	rs 185	1. Sec. 1. Sec. 1.	· · · · ·		1 St. 1					10

Quality code: E-estimated, 1-ice conditions, D-doubtful

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<u>HKG KEPAL</u> DIHM - HYDROLOGY SECTION

Station no.: River: Location: Instruments: (47 Irisuli Betrawati Stall Gauge Recorder Cable Way Sed. Sampler Latilude [deg min sec]: 27 58 08 tongitude [deg min sec]: 85 13 00 Elevation [meters]: 600 Drainage area [sq. km.]: 4110 Start of record: 01/04/67 End of record:

Date: 15 Jan. 1995

NEAN DAILY DISCHARGES (CUREC) YEAR 1984

	Day	Jan.	Feb.							1 . A.L.	6.1		
				Mar.	Rof.	Nay	June	July	Aug.	Sap.	Oct.	Hov.	Dee
	1	57.2	33.6	32.7	31.5	31.2	196	2 = 441,	820	596	188	0.18	61
	2	\$7.2	32.7	32.7	33.6	33.6	211	41	656	570	117	79.5	59
	3	57.2	32.7	31.8	33.6	37.2	247	596	540	510	169	19.5	- 55
		57.2	. 32.7 .	32.7	32.7	42.3	244	612	490	607	159	. 79.5	53
	5	56.0	32.7	- 33.6	32.7	51.2	323	525	463	598	: 154	78.0	53
1. J. 1.	6	54.8	32.7	33.6	31.8	56.0	369	651	423	689	117	16.7	- 52
- <u>1</u>	1	53.6	31.8	33.6	31.8	\$9.6	361	700	396	736	- 143	16.1	52
	8	53.6	32.7	33.6	31.8	63.4	327	808	405	748	133	75.4	- 50
	9	52.4	31.8	32.7	32.7	60.8	299	678	347	550	136	76.7	50
	10	51.2	31.8	32.7	31.8	48.9	258	596	i - 145	535	131	75.4	50
	П	50.0	32.7	35.4	30.9	52.4	295	712	500	481	127	74.1	49
	12	50.0	33.6	35.4	30.9	57.2	331	640	415	481	125	71.1	49
	13	48.9	34.5	35.4	30.9	66.2	244	490	450	: :477	118	72.8	- 49
	IN [47.8	34.5	35.4	31.8	80.8	268	441	409	423	116	· 11.5	i, ^{id} 48
	15	46.7	36.5	34.5	33.6	97.4	295	409	427	373	114	70.2	48
1997 - 19	16	43.4	34.5	35.4	35.4	108	323	463	132	364	114	67.6	48
	11	43.4	34.5	35.4	35.4	123	258	607	490	347	112	66.3	47
	18	46.7	34.5	37.2	36.3	129	251	712	570	351	108	65.0	47
	19:	46.7	34.5	34.5	37.2	108	221	. \$35	629	343	103	63.8	- 47
	20	45.6	34.5	33.6	36.3	123	299	555	500	315	102	62.6	- 46
	21	45.6	34.5	32.7	38.1	133	295	575	463	287	94.7	62.6	46
	22	44.5	35.4	32.7	36.3	143	347	651	450	272	91.7	62.6	- 46
	23	43.4	32.7	32.7	33.6	140	307	607	(18	254	91.5	61.4	46
	21	43.4	33.6	34.5	31.8	152	351	712	481	244	88.5	62.6	- 46
	25	(0.1	32.7	34.5	32.7	159	364	662	520	234	87.0	61.4	45
	26	37.2	33.6	35.4	32.7	185	343	- 754	607	258	85.5	5 61.4	- 45
	27	34.5	32.7	35.4	43.4	196	: 319	706	585	244	84.0		
	28	34.5	32.7	35.4	39.0	221	378	689	596	230	84.0	61.4	43
	29	34.5	32.7	34.5	44.5	199	244	748	706	214	85.5	61.4	42
1.11	30	33.6	1 - 1	36.3	37.2	177	382	673	718	199	84.0	61.4	42
	31	33.6		35.4	·	172		760	640	-•	82.5	· .	40
	Kean	46.6	33.4	34.2	34.5	107	298	619	517	(17	117	69.5	48
	hax.	57.2	35.4	37.2	44.5	221	382	808	820	748	188	81.0	61
	Hìn.	33.6	31.8	31.8	30.9	33.6	196	409		199	82.5	61.4	40
. *		10.1	20.4	22.3	21.8	69.6	188	403	337	263	76.5	43.8	31
	- ## - 1/s/sq ##.	30.4			8.39	26.0	100	151	126	102	28.5	16.9	11
•		11.9	8.12	8.33	0.31	10.V	14.9	1.21	140	176			ء ہ ز ہ ـــــــــــــــــــــــــــــــــ
		1		KEAN	۸A	XINUK				RININUM		a t	
			ĥ				AUGE HT.	.) DAT	r h	ISCH. [cusec	1 CAUGE	81.fm.1	DATE
	Kean daily	1001	. Į	ISCH [CUBEC]	VISCO	820	2,90	1 Aug		30.9			3 Apr.
1.4				196		1140	. 3. (1 ²			30.0			S Apr.
· · ·	Instantaneo		·	• • • •			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 Jun		27.7			3 Apr.
	Instantaneo Average dis		· · · · · ·	rs 186		2280	4.93		6 10	41.1		¥101 ·	2 191.

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<u>KAG NEPAL</u> DIKK - HYDROLOGY SECTION

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Latitude [deg min sec]: 27 58 08 Longitude [deg min sec]: 85 11 00 Elevation [meters]: 600 Drainage area [sq. km.]: 4130 Start of record: 01/04/67 End of record:

Station no.:	47
: rsvif	lrisuli
tocation:	Betrawati
Instruments:	Staff Gauge
	Recorder
	Cable Way
	Sed. Sampler
1	

MEAN DAILY DISCHARGES (CUREC) YEAR 1985

Day	Jan.	feb.	Har.	Apr.	Hay	June	July	Aug.	Sap.	Oct.	Nov.	Dec.
1	10.7	32.0	40.7	40.7	45.7	85.5	373	382	580	202	116	75.6
2	40.7	31.3	41.6	40.7	46.7	82.5	405	364	472	185	116	. 74.1
3.	38.9	31.3	41.6	41.6	15.7	76.7	607	313	500	$\leq m$	110	. 74.1
- C	38.9	31.3	41.6	39.8	15.7	72.8	565	409	505	167	108	- H.I
5 .	38.9	31.3	40.7	38.9	44.6	85.5	555	373	515	167	108	12.8
6	38.9	32.0	41.6	38.9	43.6	102	468	355	400	157	105	3 11.1
7	38.0	32.0	41.6	38.9	13.6	110	667	347	331	5 154	103	71.1
8	38.0	31.3	40.7	38.0	42.5	94.7	515	378	303	145	103	72.8
9	37.1	31.3	37.1	38.9	46.7	96.4	445	378	299	162	99.8	72.8
10	36.2	31.3	42.5	12.5	48.8	75.4	463	391	315	311	95.4	72.8
11	36.2	31.3	43.6	12.5	48.8	79.5	409	400	400	214	94.7	72.8
12	36.2	31.3	44.6	(5.7	48.8	85.5	432	409	382	191	93.0	.72.8
13	35.3	31.3	45.7	18.8	48.8	91.5	560	343	319	179	91.5	11.5
14	35.3	31.3	44,6	17.8	52.0	125	490	355	378	162	90.0	72.8
15	35.3	31.3	- 44.6	42.5	56.6	143	463	459	343	149	90.0	70.2
16	35.3	32.0	44.6	41.6	53.0	133	463	382	560	1(3	91.5 .	67.6
17	35.3	32.8	42.5	40.7	53.0	140	- m	396	656	3(7	90.0	68.9
18	34.4	32.8	41.6	12.5	15.7	151	495	- 414	468	525	85.5	67.6
19	35.3	33.5	39.8	11.5	17.8	119	432	520	378	495	82.5	67.6
20	- 3 4.4	-34.4	39.8	47.8	50.9	152	463	520	327	287	82.5	67.6
21	34.4	36.2	39.8	53.0	57.8	167	486	450	311	224	82.5	65.0
22	34,4	· 37.1 ·	41.6	66.3	49.9	185	520	525	295	194 -	81.0	65.0
23	31.4	38.0	13.6	72.8	17.8	224	500	596	319	m	81.0	63.8
24	34.4	38.9	41.6	62.6	50.9	268	490	525	275	164	81.0	63.8
25	32.8	38.9	40.7	57.8	61 4	251	. 472	432	268	156	79.5	62.6
26	32.B	39.8	39.8	49.9	72.8	275	481	391	247	÷145	79.5	63.8
27	32.8	39.8	39.8	46.7	85.5	423	495	445	227	138	78.0	71.5
28	32.0	40.7	41.6	45.7	82.5	339	481	490	224	133	78.0	65.0
29	32.0		13.6	45,7	72.8	188	486	550	258	127	76.7	62.6
30	32.0		43.6	44.6	72.8	240	468	570	221	123	76.7	61.4
31	32.0		41.6	. · · ·	79.5	·	450	500		118	· . · · ·	60.2
fiean	35.6	33.8	41,9	46.3	54.6	156	(86	432	369	244	 ۵۱. م	·····
nas.	40.7	40.7	45.7	72.8	B5.5	423				200	91.7	69.1
Nio.	32.0	31.3	37.1	38.0	42.5		667	596	656	525	116	15.4
		31.3 	Jr.1	30,V	¶(,)	72.8	373	343	221	118	76.7	60.2
22	23.2	19.9	21.3	29.2	35.6	98.6	317	281	233	131	57.8	45.0
Hs/sq ke	8.66	8.22	10.2	11.3	13.3	38.0	118	105	89.8	48.8	22.3	16.8

Instantaneous 1985 2000 4.60 4 Aug. 85 . 30.5 0.56 15 Feb. 85		KEAN	KAXIKUK			BININUN	
Kean daily 1985 169 667 2.64 7 July 85 31.3 0.57 15 Feb. 85 Instantaneous 1985 2000 4.60 4 Aug. 85 30.5 0.56 15 Feb. 85		DISCH. (cupec)	DISCH. [cusec]	GAUGE HT. [.) DATE	DISCH. [cubec]	GAUGE HT. (.) DATE
	Rean daily 1985	169	667	2.64	7 July 85	31.3	
	Instantaneous 1985		2000	4.60	4 Aug. 85	30.5	
Instantaneous 1967-1985 . 2280 4.93 17 June 73 27.7 0.81 3 Apr. 70	Instantaneous 1967-1985 .		2280	4.93	17 June 73	27.7	
Average discharge for 19 years 185	Average discharge for 19	years 185					

Date: 15 Jan. 1995

<u>KNG NEPAL</u> DIRN - HYDROLOGY SECTION

Station no.: River: Location: Instruments: 447 Irisuli Betrawati Staff Gauge Recorder Cable Way Sed. Sampler tatituda (deg min sec): 27 58 08 tongituda (deg min sec): 85 11 00 tlevation [maters]: 600 Drainage area [sq. km.]: 4110 Start of record: 01/04/67 End of record:

: NEA	IN DI	ARY.	DISCHARGES	(cuaec)
		YEAR	1986	

	Day	Jan.	Feb.	Har.	Apr.	Хзу	June	July	Aug.	Sep.	Oct.	Kov.	Dec
: (1	60.2	52.0	52.0	53.0	63.8	- 81.0	634	712	im	217	123	81.
	2	59.0	50.9	\$2.0	52.0	72.8	87.0	505	689	454	237	123	
1	3	57.8	53.0	54.2	52.0	79.5	87.0	520	673	(95	230	112	19.
	4	55.6	56.6	50.9	52.0	82.5	93.0	459	618	535	224	108	75.
	5	35.4	52.0	53.0	52.0	72.8	105	450	570	495	218	107	71.
	6	55.4	55.4	50.9	53.0	68.9	118	432	515	490	208	105	12.
7	1	54.2	56.6	53.0	54.2	66.3	138	468	510	500	208	105	72.
	8	53.0	55.4	52.0	54.2	68.9	143	515	515	495	202	103	- n.
÷ .	9	52.0	56.6	\$3.0	54.2	79.5	136	545	481	500	199	103	70.
	10	53.0	55.4	56.6	56.6	84.0	147	555	515	545	191	102	70
	· 11	54.2	51.2	57.8	60.2	82.5	179	565	436	575	182	99.8	68
	12	54.2	56.6	5(.2	62.6	79.5	195	520	634	618	117	99.8	68
:	13	55.4	56.6	55.4	70.2	79.5	268	515	673	629	172	\$8.1	68
· · · ·	10	57.8	55.4	56.6	79.5	81.0	221	736	601	970	164	95.4	68.
	15	56.6	57.8	56.6	82.5	93.0	237	790	525	684	159	96.4	67
·	16	56.6	55.4	56.6	81.0	84.0	272	892	. 570	560	154	94.7	65
	- 41 II - 1	55.4	55.4	56.6	78.0	5 84.0	215	904	742	472	117	93.0	65
	18	56.6	55,4	55.4	68.9	72.8	400	852	736	396	167	93.0	65
* . 2	19	55.4	55.4	55.4	68.9	75.4	427	880	796	373	162	91.5	10
)	20	55.4	55.4	\$5.4	68.9	25.4	445	614	856	355	· 15t ·	91.5	68
	21	54.2	54.2	55.4	68.9	. 71.1	418	922	803	387	145	91.5	- 65
	22	54.2	53.0	52.0	72.8	76.7	427	898	100	369	138	88.5	63
	23	55.4	52.0	52.0	81.0	76.7	411	790	596	275	133	87.0	65
	24	55.4	54.2	52.0	71.5	74.1	481	832	585	355	133	81.0	63.
1.1	25	54.2	53.0	52.0	68.9	75.4	427	922	520	291	131	84.0	62
	26	55.4	52.0	53.0	68.9	. 78.0	445	196	505	1 279	131	85.5	61
	27	54.2	53.0	53.0	65.0	75.4	832	880	520	272	129	84.0	61
÷ • •	28	54.2	52.0	52.0	65.0	79.5	629	673	510	265	127	82.5	60
	29	54.2		53.0	62.6	75.4	808	689	159	265	127	82.5	60
	30	52.0		51.2	60.2	79.5	601	748	- 411	247	125	79.5	59
	31	52.0		54.2 -		79.5		808	436		125		59
	Nean	55.1	56.5	53.9	64.6	n.1	319	694	595 -	454	169	96.4	67
	Bax,	60.2	57.8	57.8	82.5	93.0	832	922	856	970	247	123	. 81
	Nin.	52.0	50.9	50.9	52.0	63.8	81.0	432	436	247	125	79.5	59
	••••••	JL . V					¥.1.V	177					
1997 - 1997 1997 - 1997	n in	35.9	32.1	35.1	40.8	50.3	201	452	388	285	110	60.8	- 44
	1/5/50	R 13.4	13.2	13.1	15.7	18.8	17.5	169	145	110	41.2	23.5	16
		•••••		MEAN	NAX]	KUK				AININUM			
		•	01 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	SCH. [Cunec			AUGE HT. LE) DATE	01	SCH. LOUDEC) GAUGE H		DATE
	Kean dai	ly 1986		226		70	3.15	It Sep.	86	50.9	0.1	78 i	5 Mar. 1
		teous 1986				(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,			•	·			
		eous 1967-		• '		80	4.93	17 June	73 . 🗄 . 🗸				
	Average	fischarge f	AF 20 VEAR	s 187									

·				<u>hni</u> Dehn - Nydi	<u>s nepal</u> Rology sei	NATION				Date: 15	Jan. 199
ation no.:	(17							: Lati	tuda [dag	bin sec]:	27 58 0
181:	Trisuli									min sec]:	
cation:	Betrawati							Elev	ation (mat	ers):	600
struaents:	Staff Gaug	e						👘 👘 Þrafi	asta sean	{sq. k1.}:	4110
	Recorder	1.1		·	5				t of recor		01/04/6
	Cable May	•						: End (ot record:		
· · · ·	Sed: Sampl	er									
		 		HEAN DAIL YE	Y DISCHAR Ar 1987	SES (cuièc	}			• .	
ay Jan.	Feb.	Har.	Apr.	Hay	June	July	Avg.	Sep.	Oct.	Nov.	Dac.
				51 A					148	89.6	67.0
59.0	50.9 50.9	•••		53.0	•••		• • • •	•••	146	88.4	67.0
2 59.0 3 59.0	52.0	•••	•••	58.0			***		142	87.2	67.0
60.2	53.0	•••	•••	64.0		•••			138	86.0	66.0
5 61.4	52.0	•••	•••	61.0		•••			126	84.8	66.0
57.8	50.9	•••		60.0					119	82.4	65.0
57.8	50.9			57.0					- 117	83.6	61.0
B 56.6	50.9			56.0					116	82.4	61.0
9 5 5 55.4	50.9	•••		57.0				•••	113	82.4	63.0
55.4	50.9	•••		58.0			• • •		110	86.0	62.0
1 55.4	(19.9			58,0			2 .		110	84.8	63.0
2 55.4	50.9		•••	57.0	•••	1.1			109	83.6	63.0
3 54.2				61.0				•••	107	82.4	64.0
52.0			49.0	62.0	•••	- 1.1	•••	•••	107	80.0	63.0
5 50.9			50.0			4.4			105	80.0	63.0
6 49.9			\$0.0	· · · · ·		· · ·	• ()	•••	105	78.8	63.0
7			49.0			4.4.4	•••	218	100	78.8	63.0
8 54.2		•••	50.0	•••	•••	•••	•••	212	99.0	78.8	62.0
9 53.0	•••		50.0	•••		• • • •	· • •	206	116	77.6	62.0
0 53.0	•••	÷	51.0	•••	•••		•••	196	180	77.6	61.0
52.0			53.0		•••			182	134 -	74.0	61.0
2 52.0			-54.0					206	124	74.0	61.0
3 53.0			\$3.0			•••		202	119	74.0	60.0
4 52.0		• • •	53.0			•••		198	116	72.8	60.0
5 52.0			53.0				•••	191	110	72.8	59.0
6 50.9			53.0	•••	•••	•••	•••	182	109	68.0	58.0
1 50.9	•••	•••	\$2.0		•••		•••	172	105	69.2	58.0
8 52.0	•••	•••	53.0	•••	• • •	•••	• • •	165	001	67.0	56.0
29 52.0			53.0	•••	• • •			158	97.6	67.0	55.0
10 50.9		• • •	54.0	• • •	•••		•••	152	93.4	68.0	55.0
1 52.0					· <u> </u>	•••	•••		90.8		54.0
iean 5f.2	•••	•••	•••	•••				•••	116	78.7	61.8
tax. 61.4		4 ¹ * 8	•••	•••			• • •	• • •	180	89.6	67.0
Kin. 49.9	•••	•••		• • •	· · · ·	•••		***	90.8	67.0	54.0
IB 35.3	•••							•••	75.9	49.7	40.3
/s/sq km 13.2	•••		• • • •	••••	•••				28.3	19.2	15.0

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Mean daily 1987 Instantaneous 1987 <u>DISCH.[curec]</u> <u>DISCH.[curec]</u> Missing data

B-125

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KNG REPAL DIHM - KYDROLOGY SECTION

Station no.: 4Ť. River: Location: Instruments:

Trisuli 8etravati Staff Gauge Recorder Cable Nay Sed. Sampler

Latitude [deg min sec]: 27 58 08 Longitude [deg min sec]: 85 11 00 Elevation [meters]: 600 Drainage area [sq. ka.]: 4110 Start of record: 01/01 01/01/67 End of record:

HEAN DAILY DISCHARGES [CUREC] YEAR 1988

				•						-		
	Day	Jan.	feb.	Nar. Apr.	. Kay	June	Jely	Aug.	Sep.	Oct.	Nov.	Dec.
8		- 51.0	50.0	47.2 35.0	61.0	. 126	282	- 758	366	148	84.8	63.0
	2	51.0	49.0	47.2 56.0		107	256	561	340	146	84.8	62.0
	3	54.0		47.2 56.0		106	270	452	396	144	84,8	63.0
		54.0		48.0 57.0		113	381	480	336	140	86.0	63.0
· · ·	5	54.0		48.0 58.0		114	528	552	388	148	82.4	63.0
· -	6	54.0	48.0	49.0 58.0	65.0	94.8	512	456	336	124	78.8	63.0
	1 1	55.0	(8.0	49.0 58.0	54.0	96.2	380	635	368	119	75.2	62.0
	8	55.0	47.2	\$0.0 \$9.0	68.0	100	336	548	508	114	76.4	61.0
	: 9	55.0	\$2.0	50.0 60.0	68.0	117	412	600	324	- 114	76.4	61.0
	10	55.0	49.0	50.0 62.0	78.8	124	452	620	294	112	74.0	61.0
•	11	54.0	49.0	19.0 62.0		148	396	600	266	109	72.8	61.0
	12	54.0° t	49.0	48.0 62.0		160	552	600	254	i 109 -	72.8	. 60.0
· .	- 13	\$3,0	53.0	49.0 62.(180	516	584	244	106	71.6	60.0
$(4, \beta) \in \{1, 2\}$	10	53.0		19.0 62.0		176	456	552	232	103	70.4	60.0
	15	53.0	50.0	49.0 60.0		168	404 -	592	232	102	70.4	59.0
	16	53.0	50.0	50.0 61.0		176	512	612	200	100	69.2	56.0
· · ·	17	52.0	49.0	48.0 61.0		297	484	544	229	108	69.2	\$7.0
÷ .	18	\$2.0	49.0	48.0 59.0		190	620	576	254	112	69.2	57.0
	19	\$2.0	49.0	47.2 _61.0		168	524	580	210	112	68.0	56.0
	20	51.0	49.0	47.2 60.0	87.2	172	476	600	202	96.2	68.0	56.0
- 	21	51.0	49.0	47.2 62.0		235	544	572	204	94.8	67.0	\$5.0
di se	22	51.0	48.0	49.0 62.0		196	540	635	204	94.8	67.0	51.0
	23	49.0	47.2	49.0 62.0		196	580	700	194	94.8	66.0	54.0
	24	48.0	47.2	50.0 61.0		324	536	596	182	96.2	\$6.0	51.0
	25	50.0	46.4	50.0 61.0		250	604	580	176	94.8	66.0	54.0
	26	50.0	45.6	51.0 59.0		241	568	548	176	93.4	65.0	69.2
	27	49.0	45.6	51.0 59.0		235	- 580	564	186	90.8	64.0	57.0
	28	49.0	46.4	52.0 58.0		235	- 572	512	170	88.4	63.0	57.0
	29	50.0	47.2	52.0 59.0		235	655	488	168	89.6	63.0	55.0
	30	50.0	the state	53.0 60.0		238	552	452	158	87.2	63.0	55.0
	31	50.0	•	51.0	113		592	400		87.2	·····	55.0
	Kean	52.2	48.5	49.3 59.7	86.3	178	488	566	260	109	71.8	58,8
	Hax.	\$5.0	53.0	54.0 62.0		324	655	758	508	148	86.0	69.2
)	. Sin.	48.0	45.6	47.2 55.0		94.8	256	400	158	87.2	63.0	\$4.0
		34.0	. 29.6	32.1 37.1	56.2	112	318	369	164	71.0	45.3	38.3
	1/s/sq k		11.8	12.0 14.5		(3.3	-119	138	63.2	26.5	17.5	14.3
Ţ	*1919A ¥	• * 34. !			IAXINUN			140	NINIKUN			

5		1.1	MEAN	MAXIAUN			- NININON	•
			DISCH.[conec]	DISCH. [cunec]	GAUGE HI. [] DATE	_	DISCH.[CUBEC] 6AU	GE HT. (a.) DATE
-	Hean daily 1988		170	758	3.24 Aug. 8	8	45.6	0.77 27 feb. 88
	Instantaneous 1988					:		

B-126

	KHG	NEPAI	L	
<u>Ø1RH</u>			SECTION	

Station no.:	417
River:	Trisvli
Location:	Betravati
Instruments:	Staff Gauge
	Recorder
÷	Cable May
	Sed. Sampler
	-

Date: 15 Jan, 1995

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tatitude [deg min sec]: 27 58 08 Longitude [deg min sec]: 85 11 00 Elevation [meters]: 600 Drainage area [sq. km.]: 4110 Start of record: 01/04/67 End of record:

KEAN	DAILY	DISCHARGES	(cuase)
	YEAS	1989	

Day	Jan.	Feb.	Kar.	Apr.	Kay	June	July	Aug.	Sep.	Oct.	Kov.	Dac.
1	51.0	52.0	49.0	51.0	61.0	112	380	524	: 311	212	78.8	54.0
2 🔅	53.0	51.0	18.0	53.0	58.0	102	291	. 468	356	214	11.6	54.0
3	53.0	51.0	18.0	52.0	71.6	103	294	332	300	180	75.2	53.0
4	52.0	50.0	47.2	51.0	77.6	120	264	332	J20	172	74.0	52.0
5	52.0	53.0	18.0	53.0	78.8	107	235	376	304	166	72.8	52.0
6	52.0	50.0	48.0	53.0	77.6	114	₹00	468	340	150	71.6	
7	52.0	19.0	17.2	57.0	80.0	- 114	384	492	328	146	70.4	51.0
8	82.4	48.0	46.4	60.0	83.6	106	420	436	440	138	69.2	51.0
9	63.0	48.0	46.6	63.0	92.0	110	468	544				52.0
10	56.0	(8.0	45.6	63.0	97.6	116	352	564	282	132 120	69.2 68.0	51.0- 50.0
11 .	54.0	17.2	45.6	56.0								
12	56.0	45.4			96.2	122	352	592	258	122	68.0	49.0
13	54.0	16.1	45.6	54.0	89.6	130	352	524	-266	130	67.0	49.0
14			46.4	56.0	81.2	124	344	436	279	116	65.0	49.0
15	53.0	46.4	44.8	58.0	80.0	144	360	396	285	- E- 114 - S	64.0	48.0
	53.0	46.4	47.2	62.0	69.2	174	436	412	285	110	65.0	17.2
16	53.0	45.6	44.8	59.0	16.4	170	424	464	247	109	65.0	46.4
17	53.0	44.8	44.0	59.0	87.2	140	340	. 472	244	107	64.0	65.0
18	52.0	45.6	45.6	57.0	90.8	260	348	132	250	105	62.0	17.2
19	52.0	17.2	48.0	59.0	103	162	108	436	235	103	62.0	
20	52.0	45.6	49.0	58.0	109	218	344 -	512	256	99.0	69.0	
21	51.0	.45.6	49.0	60.0	105	232	308	440	308	94.8	61.0	
22	51.0	45.6	52.0	59.0	103	218	320	468	260	93.4	61.0	•••
23	52.0	44.8	55.0	60.0	132	184	312	460	247	89.6	60,0	•••
24	\$2.0	41.8	53.0	59.0	146	186	276	392	258	89.6	60.0	
25	52.0	46.4	51.0	60.0	126	235	279	420	324			• • •
26	52.0	46.4	53.0	62.0	324	226	766	428	260	89.6	60.0	
27	51.0	45.4	51.0	\$7.0	74.0	400	285	400	244	88.4	57.0	•••
28	51.0	48.0	52.0	54.0	238	304	279	348		87.2	57.0	• • •
29	50.0		50.0	57.0	124	512	480		220	84.8	57.0	•••
50	51.0		48.0	55.0	116	384		348	223	82.4	57.0	•••
31	53.0		48.0		103	561	512 512	348 420	232	81.2	51.0	•••
				· · · ·				•4V		80.0		•••
fean	53.8	47.5	18.1	57.2	105	188	356	40	282	120	65.1	•
fax.	82.4	53.0	55.0	63.0	324	512	512	592	- 440	214	78.8	***
lin.	50.0	(11.8	44.0	51.0	\$8.0	102	235	332	220	80.0	54.0	•••
	77 5					· · · · ·					••••	
)¶ <i>teles</i> La	35.1	28.0	31.5	36.1	68.3	118	232	288	178	11.9	0.1	
l/s/sq kk	12(1)	11.6	11.8	13.9	25.5	(5.7	86.5	107	68.6	29.1	15.8	

		11.04	DRVTUAU				- BENERUB		
	<u> </u>	SCH. CUREC	DISCR. [cunec]	GAUGE HT. []	DATE	S. 1	DISCH. [cuiec]	GAUGE HT. [m.]	DATE
Mean daily 1989		ssino data	1 (- VOIL
Instantaneous 1989		• • •	and the second			1			· : :

Date: 15 Jan. 1995

HAG KEPAL DINN - HYDROLOGY SECTION

Station no.: River: Location: Instruments: (I) lrisuli Betravati Staff Gaúge Recorder Cable Way Sed. Sampler Latitude [deg min sec]: 27 58 08 Longitude [deg min sec]: 85 11 00 Elevation [meters]: 600 Drainaga ares [sq. km.]: 4110 Start of record: 01/04/67 End of record:

MEAN DAILY DISCHARGES (cuec) YEAR 1990

-# 3																
1	• •	Day	Jan.	feb.	Nar.	Abr.	Nay	June	July	Aug.	Sap.	Oct.	Kov.	Dec.		
	· .	1		37.9	35.1	35.8	50.0	158	500	793	480	266	\$9.0	59.0		
		2		38.6	35.1	34.4	51.0	176	472	1200	448	247	96.2	59.0		
1.1.1		3		37.9	35.1	35.1	52.0	210	520	528	468	244	92.0	58.0		
1 1 1 A		1		37.9	33.7	34.4	51.0	218	488	500	452	238	93.4	58.0		
	3.1	5		37.9	34.4	33.7	53.0	229	524	512	592	- 232	92.0	57.0		
		6		37.2	33.7	31.1	51.0	216	516	600	604	220	92.0	57.0		
		· 7		37,9	33.7	37.9	53,0	200	718	580	737	214	89.6	54.0		
	•	: R		37.2	37.2	35.8	52.0	170	1060	508	512	216	86.0	54.0		
		9	•••	37,9	37.2	37.9	54.0	178	840	840	452	214	84.8	53.0		
		10	***	36.5	31.4	39.3	68.0	180	970	824	532	198	86.0	53.0		
	- 7 - 1	11 -	· · · · · ·	38.6	36.5	47.2	76.4	186	1				84.8	51.0		
		12	. * * *						660	694 -	600	184				
				37.2	37.2	54.0	96.2	174	620	786	612	188	82.4	51.0		
		13	• • •	41.6	33.7	54.0	92.0	190	620	692	552	178	80.0	50.0		
	· · · ·	14	40.0	38.6	33.7	53.0	103	182	1240	700	500	208	78.8	49.0.		
	÷.,	15	40.0	37.2	35.1	41.6	112	194	925	765	520	170	77.6	48.0		
	1	16	40.0	37.2	35.1	46.4	130	238	934	718	456	158	78.8	47.2		
. 18		17	40.0	35.8	35.1	47.2	134	297	864	698	444	156	16.4	46.4		
		18	42.4	36.5	37.2	47.2	152	400	1330	635	392	146	72.8	45.6		
~ ₩.*.		19	40.0	36.5	38.6	51.0	107	480	970	670	424	138	69.2	44.8		
		20	40.0	36.5	37.9	59.0	130	540	952	620	380	132	71.6	44.0		
entin it. Nationalis		21	40.0	36.5	37.2	60.0	124	532	730	592	428	122	69.2	{{ .0		
	: 	22	40.0	36.5	43.6	59.0	99.0	532	786	645	384	J 20	68.0	44.0		
		23	40.0	35.8	39.3	67.0	89.6	552	1090	580	34B	119	65.0	44.8		
		24	39.3	35.8	38.6	64.0	88.4	492	925	588	316	119 .	62.0	44.8		
1.1	:	25	39.3	35.8	37.9	- 59.0	90.8	492	943	532	404	116	62,0	44.8		
	• •	26	10.0	35.8	36.5	55.0	105	452	848	504	336	- 112	61.0	44.0		
1.1	· ·	27	39.3	35.1	35.8	51.0	102	320	925	737	332	106	61.0	((.)		
		28	39.3	35.B	-34,4	54.0	105	356	786	536	316	105	60:0	43.2		
		29	38.6		34,4	53.0	134	404	800	588	279	103	60.0	43.2		
		30	38,6	•	34.4	\$1.0	109	500	907	516	273	102	60.0	42.4		
		31	37.9		36.5	, i	114		808	488		102	t Linton	44.0		
	· · .	Kean		37.1	36.1	47.9	91.2	315	815	650	152	167	77.1	49.1		
		Bax.	•••	41.6	45.6	67.0	152	552	1330		737		99.0	59.0		
in the second se		Nin.	•••		33.1					1200		266				
•	-		•••	35.1	0000	3317 :	50.0	158	(72	186	273	10?	60.0	42.4		
· •		BR.	•••	21.9	23.6	39.2	59.4	199	531	421	285	109	18.6	32.0		
1		1/5/59 ks		9.03	B.75	11.7	22.2	76.6	198	158	110	10.6	18.8	11.9		
	•				FLAR	Fài	INVN				NINIHUH					
5					DISCH [cenec]		[CUREC] - EAU	LF HT In] DATE	11		GAUGE HI	The 1 day	DATE		
	. 1	Nean daily	1990		Hissing oata	<u></u>	TAAACOT . DUA	<u>n nealta</u>	1 UNIL			<u>- 57791 81</u>	*****			
	· .	Instantane						х ^т	4		t i sta	· · · ·	•			
- 1								1. A. A. A.	1. A.		+ <u>-</u>	÷.				
	· ·		· · · ·					÷.,	e Al tela	т. 						

	HMG REPAL	
DIKM -	HYDROLOGY	SECTION

A second s	and the second
Station no.:	. 417
River:	Trisuli
Location:	Betravati
Instruments:	Staff Gauge
	Recorder
	Cable Way
	Sed. Sampler

Date: 15 Jan. 1995

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Latitude (deg min sec): 27 58 08 Longitude (deg min sec): 25 11 00 Elevation (meters): 600 Drainage area [sq. km.]: 4110 Start of record: 01/04/67 End of record:

÷		BEAH	DAILY	D	ISCHARGES	[cease]	
			YEA	R	1991		
	 	<u>.</u>					

Day	Jan.	feb.	Har.	Apr.	Kay	Juae	July	Aug.	Sej.	Oct.	Xov.	Dec.	
i –	44.0	35.1	31.0	42.4	75,2	i12	381	616	864	:		51.0	
2	((0	34.4	31.0	37.9	71.6	84.8	360	786	840			51.0	
3	13.2	35.1	30.5	40.8	55.0	96.2	348	856	635		• • •	50.0	
4	12.4	34.4	31.0	40.0	17.2	107	388	889	592	•••		49.0	
5	12.4	33.0	31.5	40.8	51.0	134	408	118	592			49.0	
6	41.6	33.0	31.5	37.9	54.0	138	620	751	718	•••	•••	50.0	•
1	41.6	33.0	33.0	35.8	66.0	210	572	172	620			19.0	
8	10.8	33.0	33.0	33.7	75.2	158	448	840	808	***		48.0	
9	10.0	33.0	32.5	34.4	78.8	158	\$60	· 840	864	• • •		48.0	
10	38.6	33.0	32.0	37.2	75.2	200	380	961	700	•••	•••	48.0	
11	38.6	32.5	32.0	33.7	67.0	220	372	786	688	•••		46.4	۰.
12	39.3	32.5	32.0	33.0	60.0	204	336	730	572	•••	• • •	45.4	
13 .	37.9	32.0	31.5	32.5	54.0	168	324	712	520			45.6	
14	37.2	32.0	31.0	31.5	55.0	266	291	186	476	•••	•••	15.6	÷ .
15	37.2	32.0	30.5	31.5	68.0	235	372	880	(88)			11.8	
16	36.5	32.0	31.0	32.5	64.0	266	.344	907	500			. 11.0	
17	38.6	32.0	31.0	33.7	83.6	226	436	112			63.0	44.0	
18	37.2	31.5	31.0	-35.7	84.8	136	612	997			62.0	43.2	
19	36.5	31.0	31.0	36.5	81.2	285	200	988		•••	62.0	13.2	
20	37.2	31.0	32.0	35.1	77.6	226	744	1050		+++	62.0	13.2	• .
21	37.2	31.5	32.0	36.5	92.0	200	737	818	: •••		60.0	43.2	
22	37.2	31.5	33.7	36.5	106	223	520	694		· · · ·	61.0	13.2	
23	36.5	31.5	33.7	37.2	103	250	460	580			58.0	12.1	
24	36.5	31.5	32.5	38.6	82.4	279	520	604			57.0	13.2	
25	36.5	32.5	32.0	37.9	96.2	276	510	730	•••	•••	57.0	13.2	
26	35.8	32.0	32.5	38.6	150	258	492	564		• • •	57.0	12.4	
27	35.8	32.0	32.5	41.6	126	244	556	800	•••		57.0	43.2	
28 -	36.5	31.5	33.7	51.0	136	256	552	872			57.0	10.0	
29	35.8		35.8	53.0	148	336	588	800		• • •	55.0	39.3	••
30	35.8		39.3	55.0	158	352	580	952			52.0	39.3	
31	35.8		40.8		134		592	765	÷ • •			38.6	
Nean	38.5	32,5	32.5	38.0	86.4 .	210	(88	802		· · · · · · · · · · · · · · · · · · ·		45.1	
Hax.	41.0	35.1	40.8	55.0	158	352	744	1050	***		***	51.0	:
ăis.	35.8	31.0	30.5	31.5	(7.2	84.8	291	564	***	•••	***	38.6	
	25.1	19.1	<u></u>				<u> </u>						
nn 1/s/sg kn		7.90	21.2	24.0	56.3	133	318	522	•••		•••	29.4	:
419194 88	· · · · ·	· · · · · · · · · · · · · · · · · · ·	1.96	9.25	21.0	51.1	119	195	•••	•••		11.0	
	•		HEAR		ENUM				HIRINUN				::
	,		İSCH. [cunec		(cunec) 6A	UGE HT. Is.) DATE		DISCH. [CUREC	SAUGE H	1.6.1	DATE	
iean daily Astanlanéo			issing data										

	. 4				<u>e inlygi</u> Fology sec	TION	$(1,1)^{1+1}$				980. 1th
	Station no.: Piver: Location: . Instruments:	447 Trisuli Betrawati Staff Gauge Recorder						Long Elev Drai Star	tude (deg itude (deg ation (mete nage area (t of record	nin sec rs]: sq.)m.): 85 H 600
· ,	•	Cable Way						End	of record:		
		Sed. Sampler		MEAN DAT	LY DISCHOR	SES [curec]		· · · ·			
	· · · · ·				EAR 1992	and [conce]				e .	
		· · · · · · · · · · · · · · · · · · ·								·	
(i)	Day Jan.	Feb. Kar.	Apr.	kay	June	July	Aug.	Sep.	Oct.	Nov.	່ງອາງ
	37.2	31.0 29.5	27.0	35.8	-54.0	172	856	625	229	86.0	50.
	36.5	21.0 29.5	27.0	37.2	59.0	164	660	572	210	83.6	\$0 .
•	36.5	31.0 28.5	27.0	39.3	62.0	162	172	540	208	82.4	٤.
	35.8	30.5 30.0	28.5	42.4	0.33	146	765	512	196	82.4	47.1
÷.,	36.5		26.0	37.2	68.0	160	612	500	188	81.2	47.
4 1	37.2	30.5 29.0	29.5	35.1 36.5	76.4	172 165	560 572	568 520	166 160	78.8	46. 45.
	35.8	34.4 29.0 30.5 29.5	28.5 31.0	36.5	69.2	180	552	488	158	- 76,4	46.
	36.5	30.0 29.5	36.5	38.6	62.0	184	-552	630	158	76.4	44
	10 35.8	29.5 29.0	40.0	36.5	67.0	241	592	536	154	72.8	64
						- 1			156		13,
	11 36.5 12 35.1	29.5 28.0 29.5 28.0	40.0	38.6 40.0	59.0 61.0	218 238	588 540	464	135	72.8 70.4	42.
	12 35.8	29.5 28.5	42.4	42.4	74.0	266	456	580	152	70.4	62
	14 35.1	29.0 28.5	42.4	55.0	82.4	241	488	556	142	69.2	40.1
	15 34.4	29.5 28.5	41.6	43.2	\$3.4	220	572	488	132	69.2	41
1	1. 34.4	29.0 23.5	37.9	44.0	99.0	214	548	440	142	64.0	40.8
	17 33.0	28.0 28.0	33.7	54.0	130	241	576	400	130	63.0	40.0
8	18 33.0	28.0 28.0	37.2	45,6	178	308	620	364	146	63.0	40 1
	19 33.0	28.0 28.0	32.0	40.8	184	273	592	316	130	61.0	40.0
	20 32.5	28.0 28.0	32.0	41.6	194	500	600	285	120	62.0	40.0
. '	21 33.0	27.5 28.0	38.6	38.6	285	504	793	264	114	59.0	39.3
e de la constante	22 37.9		43.2	35.8	196	524	1040	258	112	58.0	39.3
	23 33.0	27.0 26.5	37.2	35.8	. 186	484	1180	250	106	63.0	37.5
	24 32.0		31.5	35.8	200	500	1360	210		51.0	37.9
, i get	25 31.5		32,5	4i.e	186	600	1060	229	100	49.0	37.2
	32.5	28.0 28.5	33.7	44.0	178 ;	492	848	220	99.0	52.0	- 37.2
•	27 32.0	26.5 29.0	34.6	56.0	150	480	848	216 235	93 L 00 0	50.0 50.0	36.5 36.5
· .	28 32.0 29 31.5	26.5 30.5	32.0 33.0	51.0	146 142	460 460	751 758	255	90.8 88.4	51.0	30.5 30.5
• •		28.5 31.5 28.5	40.8	58.0 61.0	166	500	612	232	28.4	50.0	5 5
÷	20 31.5 21 34.4	27.5	79.5	52.0	101	600	650	101	6.0		37.2
	- Kean 34,5	29.1 28.6	34.0	(3.1		325	785	410	146	(0.5	41.5
e t tari	Max. 37.9					50(5350	630	<u>çç</u> c		
: : T	81n. 31.5		27.0				455				
? >	22.5	17.7 18.7	21.E	28.1	76.7	212	152	258	91.2		
· · ·	115/59 km 8.39	7.07 ±.97	E #2	10.5	29 . t	75.0	172	ço T	34.0		
		yeak <u>Disch icure</u> 166	Έζξ	Inter -		: · ·		MINIMUM			
		DISCH. icute	c) (1508,	coreci 6	auce Fille.	<u></u>	<u>.</u> [SCF. ICUBEC	CAUGE EL.	<u>(,)</u>	0415
•	rean daily 1992 Instantancous 199	<u>DISCH.icu#e</u> 166 12	<u>1</u>	350 521	3 93 4 10	24 AUS (24 AUS (20.5 21.5	0.41	23	Mari, Sí Feb, Sí
								· · ·	· · ·		
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		•									
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1999 - 1999 - 1944 1999 - 1999 - 1944

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Cate: 30 Oct. 1995

}	Jata	Nade by					30361 Sauca	Sier-	41.100		Rating	220	Durron	1 22	****						. 280		
•	2013	nave up		READU	11 24		334¥C				disch.				991 A 9	•							
		a to a				VG1.			101.			3010		כ									
					53.1		3 .	CUREO	-	1111. 1,	oumec		•	-									
1	04/01/83	145						315.1			354.0	:					<i>.</i>						
2	22/03/58				:59.3					-22			1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		т.,								
3	18/04/53							532.5		-3							. <u>.</u> .						(F
4	13/01/33							560.7		-3		: 5				. •	· .	:					1
5	25/05/88							912.8			820.0	-	1.4				1	· · ·					
	27/06/98							1543.6			1650.0				:						·	•	
	09/09/38							1978.2			2684.0			1	:		•			1111	÷		
	06/11/38			111.0				<u> </u>			- 640.0			÷		•							
	-36/12/33 -36/12/33										451.0		· ·							2			
ते । 2010	23/03/39							393.2 357.0		-10	368.0	- 2 - - 5							1	i.	5		
	16/04/89										383.0	5								1.1			
1 2								357.9 155.0			513.0	5				1.4				1.1			
	12/05/89				750.8							- 3 - 5			te î.		÷.,						
3	17/05/39							635.6		1 A A	690.0					1. A 2				1.1			
4 : =	22/05/99							1019.0			1036.0	5		. 1					·				
5	01/06/89							875.0			936.0	5				<u>.</u> .	÷. *	11					
6	03/06/89			1.1	903.5			183.2				5.		. 5				1			1 I I		
Į.	06/05/89			1 A A	929.1					-		5				1	•				· .	с ¹	
3	09/06/89				871.6			136.1			765.0			÷.,	÷.,			÷ .4	÷ 1,		1.1	·	
) .								1125.0			1090.0	5				•					$(A_{i})_{i\in I}$		
) :	15/06/89							1240.4			1294.0	5		· · · · .								1	
	18/06/89				958.5			913.7			1000.0	5				•			. 1				.5
2	24/05/89				828.5			987.3			1060.0	5	1.55	· · · ·									
5	04/07/39							1145.2			1270.0	5	1									· . (
4.	20/04/89				753.5			982.6			730.0											· .	
5 -	12/04/91				732.0			514.7		-1	522.0		1.1.1	i.			÷.,		1 - L	1.1		1	
5	03/06/91				305.1			331.3		-5	934.0	5	÷	e sti				1.1					
1	17/05/91			115.0	1025.5	2.01	5.85	2057.6	÷	4	2145.0	5	1 - E.	· . ·		· .;			11 -	÷.,	•	с. 1919 г.	
3	27/06/91													· •	-		. 1		÷.,				
}	14/07/91							1699.0			1900.0		- 1 j.									· ·	
)	. 24/07/91							3252.0			3322.0	5						1 1 1	;				
l	96/08/91							4021.0			4042.0	5			÷ 1								
2	31/10/91							576.0			715.0				-		÷.,			•			
3	10/07/92				768.5			862.0			1054.0	-5											
	15/07/92							1643.)			1900.0	5		-									
;	24/07/92							2943.)			3335,0	5										•	
5	28/07/92							2417.1			2744.0	5		Ŷ.			•	۰.				с. 1917 г. – К	
}	30/07/92							2295.0	1.1		2912.0	. 5					1			÷ .			• •
2	05/08/92							3268.0			4084.0	5					•	÷.,			·	÷	
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)	18/08/92							3939.0	·		4620.0	5	$(t-y_{i})^{*}$	Y	1.2			. ·	5			:	
Ι.	09/09/92							2847.0			3335.0	5			- L.	1.1	÷						1
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Staff Gauge Recorde: Cable Way Sed, Sampler

Drainage area [so. km.]: 4110 Start of record: 01/05/ End of record:

01/0:/67

MEAN	DÀILY I	DISCHARGES	{cunec}
	YEAR	1993	

	*									1 A 1 A 1			
	bey	Jan.	feb.	Kar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
· * .	1	36.5	30.5	28.5	26.5	74.0	126	380	635	482	276	90.8	48.(
	2	37.2	30.5	28.5	26.5	96.2	124	352	1160	428	276	89.6	51.0
	- 3 3	34.4	30.5	27.5	26.0	106	110	264	533	480	256	87.2	48.0
	٤	55.1	30.5	28.9	27.0	D 107	122	276	872	· 492	235	86.0	48.0
	ç,	34 4	30.0	27.0	27.5	116	130	262	961	630	235	84.8	47.2
8	č	34.4	30.0	27.5	28.0	113	128	264	988	645	223	82.4	48.0
		36.5	30.5	27.0	29,5	93.4	142	262	179	468	216	81.2	47.2
	5	35.8	31.0	27.0	28.5	116	142	316	808	448	206	78.8	47.2
	Q	33.7	32.0	27.5	34,4	97.6	140	341	970	468	202	76.4	45.6
	10	34.4	32.5	27.5	29.0	78.8	114	416	1850	464	196	75.2	44.8
	11	35.1	32.0	27.0	31.5	75.8	1?2	392	779	460	192	74.0	- 44.0
•	- 12	35.8	32.5	27.0	29.5	66.0	150	420	682	424	184	12.8	44.0
	5	34.4	32.0	27.0	32.0	62.0	170	355	635	368	176	12.8	43.2
	1.	33.0	31.0	27.5	31.5	59,0	180	556	612	404	172	71.6	42.4
	·)	32.5	31.0	27.5	33.7	59,0	170	528	635	372	164	72.8	42.4
	16	32.5	32.0	27.5	35.8	67.0	188	536	645	388	160	71.6	. 42.4
:	17 - 1	33.0	32.0	27.5	39.3	83.6	208	630	730	396	158	70.4	40.8
	31	32.5	32.0	27.5	37.2	93.4	216	460	620	344	154	69.2	40.8
	19	32.0	32.0	26.5	34.4	71.6	254	492	744	308	144	67.0	30.8
· .	26	31.5	30.5	24.5	39.3	63.0	200	44	665	316	140	64.0	40.8
	21	31.Ò	29.0	25.5	37.2	59.0	185	. 396	712	283	128	62.0	39.3
	22	31.0	28.5	25.5	40.0	62.0	198	452	620	372	119	53.0	3 8. 6
. :	23	31.0	28.0	29.0	60.0	63.0	223	372	572	380	117	49 0	31.9
2	24	31.0	28.5	26.5	50.0	87.2	304	380	556	416	116	47.2	37.9
	25	31.5	28.5	26.5	45.4	86.0	312	480	682	620	113	47.2	37.9
	26 6 6	31.0	29.0	29.5	44.8	92.0	258	472	552	428	109	47.2	36.5
	27	31.5	29.0	25.5	45.6	107	320	472	468	376	103	47.2	36.5
	- 28	31.5	28.5	28.0	58.0	82.4	273	832	520	360	100	46.4	36.5
	29	31.5	1997 - 19	28.0	72.8	84.8	294	- 712	472	324	99.0	46.4	35.8
· .	- 30	31.0		27.5	65.0	96.2	260	718	468	294	94.8	45.6	35.8
÷	21	31.5		27.0		97.6		572	468		92.0	· · ·	35.1
÷.	. Þ	33.2	30.5	27.2	38.2	84.5	192	445	728	422	166	67.7	42.2
	hax.	37.2	32.5	29.5	72.6	116	320	832	1850	645	276	90.8	51.0
1. 1	Min.	31.0	28.0	24.5	26.0	59.0	116	262	458	285	92.0	45.6	35.1
	r:	21.6	18.0	17.7	24.1	55.1	:2:	291	474	741	100	42.7	27.4
	1/s/sq km		7.42	6,62	9.30	20.1	46.8	199	177	265 103	108 40,5	16.5	10.2
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N.N.S. - NEPAL, DISM AVDROLOGY SECTION

Page no - 7

Date: 30 Oct. 1995

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Accordingly, it is recommended that DHM data be used for hydrologic design on the Trishuli - Devignat Hydropower Upgrading Project.

2.4 LONG TERM FLOW CHARACTERISTICS

The long term flow characteristics of prime interest in the evaluation of energy output at a hydroelectric plant are :

- mean annual flow
 - mean monthly flows
 - daily flow duration curve

2.4.1 Mean Annual and Mean Monthly Flows

Mean monthly and mean annual flows for Trishuli river at Betrawati were estimated from a nineteen year period of record from DHM as shown in Table 2.3.

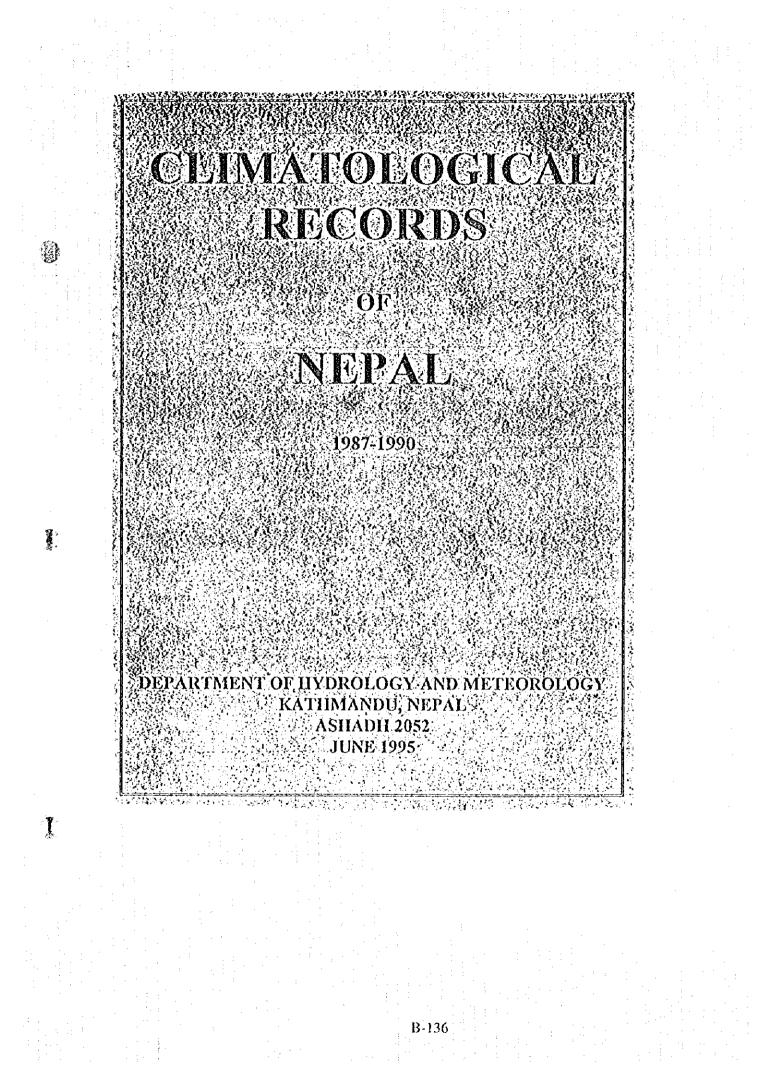
TABLE 7.1

HEAN MONTHLY AND YEARLY DISCHANGES - FOR TRISHULT RIVER AT BETRAVATI

IYEAR I JAN I FEB U KAR I APRIL NAY I JUN I JUL I AUG I SEP I DEF I NOV I DEC IYEAR I ------1987 147.41 38.81 35.81 41.21 63.71137.81429.81510.81328.8199.81 66.91 40.21 156.91 1988 137.71 32.11 31.81 38.71 64.91220.81486.81479.81201681178.81 75.81 51.81 164.81 1989 148.51 35.51 33.21 38.11 62.31133.81398.81451.81335.81126.81 67.71 47.41 148.31 1978 36.7: 31.9: 29.9: 40.5: 65.3:162.0:460.0:512.0:290.0:152.0: 03.6: 57.9: 162.1: 1971 (15.8) 30.6) 36.6; 46.5; 65.1; 48.8; 440.8; 549.8; 326.8; 154.8; 81.5; 54.8; 183.3; 11872 142.91 37.31 38.91 47.91101.81133.01431.01473.81203.01106.01 62.51 43.01 152.81 11973 137.3; 36.8; 40.2; 68.4; 46.6;366.0;510.0;663.8;525.0;280.0;180.8; 65.7; 233.7; 11974 (58.81 39.71 38.21 53.81 82.21288.81546.81648.8(396.81186.81 88.41 68.61 199.61 11975 151.21 46.21 44.21 68.21 91.61264.81540.81561.81516.81222.81110.81 69.01 216.51 1976 149.31 41.91 48.31 46.61 05.21287.01367.01407.01372.01165.01 99.01 65.51 169.41 []977 [48.1] 46.51 49.8] 54.91 77.01492.8[591.8]689.8[368.8]164.8[94.8] 6J.7[197.2] 11970 (46.6) 44.11 45.41 57.41151.8(335.8)528.8(625.8)332.8(215.8)188.81 78.11 213.9 11979 151.31 43551 43.91 52.41 91.91105.81460.81594.81208.81137.85 Q3.81 55.61 167.51 11988 143.51 48.21 48.41 59.41 69.61276.81663.81676.81 39.81162.81 91.61 56.91 216.41 1981-142.51 36.41 37.21 58.81 85.81298.81714.81619.81369.8148.81 87.11 56.81 212.11 (1987-143.0) 3918) 56181-74.41.81.41212.01487.81596.81393.81178.8177.51 54.11188.61 11983 [48.1] 34/8] 36.31 38.51 69.9[161.8]377.8[586.8]430.8[288.8] 94.91 80.41 172.8] 119R4 (46.6) 33.4) 34.7) 35.5)107.6)290.8)615.8(517.#(417.8)117.6) 69.5) 46.9) 196.8) 11985 135.61 33.81 41.91 46.31 54.61156.81486.81432.81369.81286.81 91.21 69.11 169.11 1 AVG :44.81 38.41 39.61 (49.3) 83.81226.61498.7:548.41360.8165.41 85.81 57.81 (84.9) 1 \$10 15.851 4.461 6.43118.78121.92173.58196.18174.38171.86145.31113.691 8.881 25.261 1 CV2 11.47111.6616.25128.00126.41132.47119.28113.56119.31127.39115.95113.031 (3.67) 1 MAX 151.31 NB.51 SA.81 74161151 01366.81714.01670.01525,81708.01110.81 78.11 233.71 : MIN 135.61 31.91 79.91 34.51 54.61133.01367.01432.01200.01486.01 67.51 43.01 140.31

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1987

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LAT .: 27° 48' X LONG.: 85° 15' E ELEV.: 2064 m. am

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YEAR

LONG.: 35- 10' E ELEV.: 1003 m. ambi

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: NUVAKOT : 1004 : NUVAKOT LOCATION INDEX NO. DISTRICT

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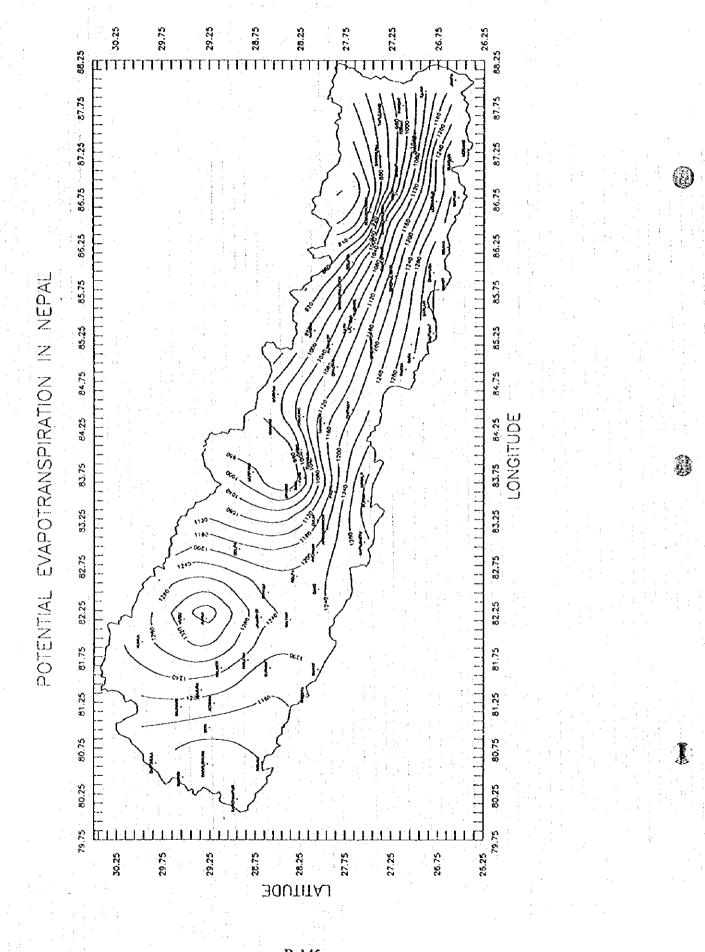
LAT ..: 27" 55' X LONG.: 85" 10' E ELEV.: 1003 m. mmst

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Missing number of days : a=1.

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LAT 27° 4.8' N LONG 25° 15' E ELEV.: 2004 m. emst	f rainy days 0 25.0 50.0 10 20 20 10 20 20 10 20 20 10 br>10 20 10 2	5 0 0 0 1 -2 1 0 0 2 -2 1 0 0 8 9 4 0 0	10 4 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	43 33 12
LAT LOK	PRECIPITATION Maximum Number in 24 hrs. 1.0 z 2 2 0ate 1.0 9 9 24 / 14 9 4	93 19 / 27 10 5 61 31 / 8 2 7 94 65 / 18 20 16 72 / 23 25 5 82 80 / 14 28 8	66 98 7 59 11 28 40 11 21 7 48 40 11 21 7 48 40 11 21 7 5 3 1 1 1	24 98/ AUG 161 73
8	ATIVE VAPOUR 1011Y X PRESSURE mb 1005erved at 1 15 17:45 08:45 17:45 1 NST NST NST 10.2 9.5 10.2 9.5	74 73 105 97 93 69 71 133 127 61 80 81 162 16.0 194 85 87 202 203 679 89 91 206 205 682	86 91 20.5 20.5 766 88 91 19.7 19.4 348 75 88 15.0 16.2 66 62 79 11.1 13.9 3 63 69 9.0 10.0 3	76 81 14.6 14.8 2994
	Kumber of Max. Min. 0 Min. 0 40*. 40*. 40*. 0 50 0 0 0 .5 0 0 0		29.0 5.3 0 5.3 0 0 24.4 13.2 0 0 0 8 24.2 33.4 0 0 0 8 24.2 38.4 0 0 0 1 22.2 28.5 0 0 0 1 19.1 24.5 0 0 0 0	0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
LOCATION : KAKANI INDEX NO. : 1007 DISTRICT : NUVAKOT	AIR TEMPERATURE C Month Nean Absolution Max Min. Deily Max. Jan 15.9 5.6 10.8 18.6 2 FEB 14.3 4.8 9.6 10 2 2	MAR 16.1 6.4 11.3 APR 20.4 10.9 15.7 MAY 21.2 13.7 17.5 JUN 23.0 16.3 19.3	AUG 22.5 16.5 19.5 SEP 21.8 15.4 18.6 OCT 20.6 11.2 15.9 NOV 19.5 9.1 14.3 DEC 16.1 5.7 10.9	11.0 15.2 r of days :
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