Table 6.3 CONDITION ON METEOROLOGICAL DATA COLLECTION

NDEX	······					1991								Street-				11.	'1992					
t a maintanana	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCΥ	NOV	080	JAN	FŒ	MAR	APA	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
101		•			. *							•	. :				•		•					
102		•	•	•	٠	•	•	•	•	•		٠	1 • 1	•	•	•	•	•	•	•	•		•	
103	•	٠	٠	•	٠	•	•	٠		٠	•.	•	1 .			• .	•	100		•	•			
104	٠	٠.	•	•	٠	1	• •	14	•	•	•	•		•.	•	. •				•				
105	* • .	• • •	•	٠.	٠	. •	• '	•		٠	٠	•		•	•	٠	•		•		•			
106	•	. •	•	• •	•	•	٠	•	٠	٠	•	•.	,	٠	• • •	•	•	•	• .	•		٠		
107	•	•	•	• .	•	. •	•	٠.	•	. •	•	•		•	•	•	•	•	• .	•	•			
108	•	.*	•	•	•	٠	•	÷ •	•	•	٠	•		•.	•	٠	•	• •	•	•	. •			
201	•	. •	•	٠	•	•	•	•	•	•	٠	•	1 .	•	•.	•	• •	•	• .	•	•.			
202	•	٠	•	•	•	•	. • .	•	•	•	. •	. *		•	•	•	•	•	•		•			
203	•	•	•	•		* * *	•	. *	: :	•	•		L ' '	•	•	•			•	•		1.5		
204	•	•	•	•	•	• ,	٠	•	•	•	•	•.	٠,	•.	•	•	•		•	•	• • •	. :		
205	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•						
206		•	•	. •	•	•	•	•	•	•	•	•	٠,	•	٠		• 	•		•	•			
207	•	•	•	•	•	•	•	•	•	•	٠	•	1	• • •	. •	•		•		•	•			
208	•	•	•	•	•	•	•	•	•				ı	. •	. •	•	•	•	•	•	•			
209	•	•	•	•	•	٠	٠	•	*	•	٠	•	٠,	•	•	•	•	•	• '	•	•			
210	•	•	•	٠	. •	•	•	•	•	•	•	•	٠,	•	•	•	•	• •	•	• 4. *	•			
211	•	•	•	•	•		. •	NA	NA	. •		· 1	<b>.</b> . •	•	•	•	•	•		. •	•			:
212	•	•	•	•		•	•	·: • .	•	•.	•	•	•	•		•	• .		•	•	. •			
214		•	•	•	•	•	• .	•	•	•	٠	•	•	•		٠	٠		. •	•				
215	•	•		•	•	•	•	•	•	•	٠	• ;	•	•	. •	•	٠	•	•	•	•			
217		•	•	•		•	•	•	•	•	•	٠ ١	•	•	•	•	•		•	•	•	- 1		
218		•	•	•	•	•	•	•	•	•	•	٠ ١	· •	•	•	•	•	•	•		•	:		
219	•	•	•/	•	•	•		•	•	•	•	• !	•	•	•	•	•	•		•	. •			
301		3/26		5/21		8/7		10/1	12/2	12/2	9/21	1			9/21		9/21	9/21	÷ .					
302	4/7	4/7		7/29		8/29		11/1	11/11		6/6	3/10		4/5			7/14	7/26		10/12				
303	4/6		4/6	5/17		7/9	8/8	9/6	10/1	12/5	12/5	3/10,1	3/10	3/10	4/6	5/4	6/6	7/10	4/10	9/7	10/18			
304		3/26	4/21	5/30		7/29		:	11/1	12/3	1/6	4/1	4/1	4/1	4/28	7/21	7/21	7/21	9/7					
305		4/11	4/11		6/16	8/11		11/1	11/1	1 1/1	2/18				5/10			8/18		9/22				71
306		4/11	5/9	5/30		8/7			11/1		1/6	2/21 I	3/22	3/22								<u>.</u>		
307	6/16		4/9		6/10	8/7		9/16	5/3	11/2	12/1	3/26	4/5	3/13	4/9	5/11	6/22	7/12	8/30	9/21	10/18			
308	3/27		6/19		6/19	8/1		10/7	11/1	11/1	12/9	2/3			5/1	6/23	6/23	7/6	8/18	10/1	'			
309	3/17		4/3	6/4	7/10	8/1		11/1					2/29		1/0			1/2		1/10	1			:
310					6/21	7/22	10/2	9/24					2/24							-1.		:		
311			ON IS C							11/1		1/9			4/5	5/10		7/6						
312		5/14		5/14	8/7	8/7	9/17	1.5	.12/1	12/1	12/1		3/13					7/8				1		
313		3/26	4/11	5/16	6/10				10/9	11/1	12/1	1/9			4/12			7/12			10/18		٠.	
401	2/2!		5/9	5/9		7/15						1/12					6/12	100			1 2	1.1		
402		3/17		5/9	6/9								2/5											
403			4/16					2.1			100		3/15	3/15	4/8	5/4					. :			:
404	7/9		7/9	7/9	7/9		10/9		3/4	3/4	3/4	3/4						7/29	9/7					
406			11/1					2/6				2/6				5/7	6/7	7/6						
407													6/24					7/21			10/20			
408	4/2												2/27											
409			11/1		7/4	8/1						100	7/13									. '		
410			4/10			7/7			10/1				2/21								10/14			
411	3/26		5/2	6/10		8/1						1/26 1					8/26							
412												2/13 1					7/2							
413													3/15					9/7						
414		2/24	0116	0/16	0/16	0/10	11/1	11/1	11/1	11/1	4/5	AIE I	4.48	415	5/27	E/27	0110	8/18	0110	10/24	10101			

Table 6.3 CONDITION ON METEOROLOGICAL DATA COLLECTION

DEX		:				1991													1992					
	JAN	FEB	MAA	APR	MAY	JUN	JUL	AUG	SEP	OCT	NON	DEC	JAN	F88	HAM	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DE
115	5/3(	5/30	5/30	5/30	7/4	7/28	10/9	10/9	11/3	6/3	6/3	2/27 1	2/27	4/26	4/26	6/14	7/14	8/30	9/25	9/25			-	
116	3/17	3/17	5/13	5/13	7/4	7/4							2/4	-					8/4					
117	2/24	3/26	4/18	5/26	7/4	8/1		17					2/27								10/29			
118	5/1		5/1	7/4	7/4			11/2		100			2/27											
119		11/1	100			- 1			T				2/27				7/27							
501	2/24	3/28	4/24			8/1		10/9	1.												10/29			
02		4/18				400		1		1.0		2/13 [					7/18			10/29				
04	3/28	3/26	4/21	6/22	7/10								2/21		- 1									
05		4/7		7/4				11/2													10/29			
507			A	1									2/13						8/18					
508	2/11		5/9		. * *																10/19			
609				4.			100													1 :	10/29			
10				11:		8/18							2/27						31.10	51.13	10160			
511	1			1.7		8/11			100				3/15						10/11	10/11		٠.		
12						7/28		2.3				1	. 1					1						
			1										2/21				3.0		- 1					:
513		3/15	- 1	4.5	6/10	-							2/13											
14		3/15		4.4									2/18								10/14			
15		3/21		8/23		8/23							3/23				6/25							
01	2/5		4/3	5/8	6/9	7/5						6/27 1					6/15							
04	•	3/19	4/8	5/30	7/5		8/12	9/5				4/1 1		5/15		5/8			8/10					
05	2/7	3/7	4/8	5/8	6/9	7/15		9/5		11/2	12/9	4/18 [	3/8	3/9	4/6	517	6/15	7/10	8/9	9/7	10/15			
06	2/11	3/12	6/14	6/14	6/14		9/13	10/2	•	4/6	4/1	4/6	4/6	4/6	4/6	5/12	6/19	7/4	8/18					
07	2/11	5/1	4/3	7/9	6/9	7/7	8/12	10/2	10/2	11/2	12/1	4/15 I	2/17						•					
08	6/9	6/9	6/9	6/9	6/9	6/9	6/9	6/9	6/9	6/9	6/9		10/20				10/20	10/20	10/20	9/8	10/20			
09	4/9	4/9	4/3	5/11	6/12	7/15	8/25	10/2	10/1	11/2	•	. 1	•	•	•	5/15	6/15	7/24	8/30	9/16				
10	6/9	6/9	6/9	6/9	6/9	6/9	6/9	6/9	6/9	6/9	6/9	6/9 1	6/9	6/9	4/20			9/7	9/4	10/15				
12			7/9	7/9	•	•	•	• •	٠. •		•	1			7/26	7/26	7/26	7/28						
13	2/15	417	4/7	5/30	7/7	7/7	8/23	9/25	11/2	11/2	4/6	4/6 1	4/6	4/6	4/6	7/20	7/20	8/18	8/18					
14	2/7	3/8	4/7	5/8	6/5	7/8	8/12	9/6	10/1	11/2	12/6	4/18 1	3/9	3/9	4/6	5/18	6/15	7/12	8/10	9/7	10/12			
15	2/178	<b>31</b> R	4/12	5/30	6/12	7/29	9/6	9/6	11/2	4/18	4/15	4/6 I	5/5	5/19	5/19	5/19	7/12	7/12	7/12	8/18	9/21			
16	4/3	4/3	7/18	7/18	7/18	8/21	8/21	9/12	1/27	1/27	1/27	1/27 1	5/19	4/6	5/19	5/19	6/12	7/26	9/30					
19	2/24		4/3	5/8	6/9	7/8		: "					10/20							9/30	10/12			
20	2/11		4/10	5/8	6/9	7/8						4/1 I	4.5				6/15							
21	2/14		4/4	5/8	6/4	7/8		9/13				1/27 1	4/6	4/6			7/12							
22			4/7	5/13	6/14	7/8						4/1 1	4/6				7/20							
22 01		3/11		5/8	6/9	7/8						4/1 I	4/6				6/15				10/12			
	en.						0/14	a, 10	1011								10/15							
02			STATIO			710	0/42	0/40	10/0	4/1		4/1 I	4/6	5/4										
03		1.0										4/1		4/6			6/15			9/11	10715			
04													2/17						0/15	. HII				
05						9.101							3/23						•	-	10/21			
30													3/9											
07													4/18											
80	•	3/12	4/15	6/12									4/6	4/6		5/10	6/15	7/20	8/16	9/14	10/20			
10	3/22	3/22	4/7	5/17	•	•		•	•	•		4/1 L												
15	3/27	4/7	7/5	7/4	7/21	7/21	9/25	9/25	10/2	10/3	4/1	4/1 I	3/9	3/15	5/19	5/29								
16								4.7					3/9				6/15	7/12	8/17				•	
21													2/14							9/11	10/12			
22								1.					2/17											
23								9/17																

Table 6.3 CONDITION ON METEOROLOGICAL DATA COLLECTION

NDEX						1991														1992		-			
	JAN	FED	MAR	APR	MAY	JUN	JUL	ALX	SEP	OCT	NOV	DEC		JAN	ft.s	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	080
726					. *		4.4	100										6/15				10/12		٠	
727			4/15	1.4												5/17	5/17	6/15	7/20	8/19	9/4	10/12			
728		3/25				8/4	8/12	9/25	10/1	11/2				5/5	5/5				3400						
801	7/8		- '	7/8	0.88	7/8		0.00	10/2	4 5 10	3/5	3/5			3/5	6/15		6/15		8/10	917	10/15			
802 804	2/5	3/10	4/8 4/2	5/8 5/5	0.67	7/15		9/22 9/5	10/2				1.	3/9					•						
805	2/5		4/4	5/8	1.5			9/4			12/1					4/6	5/4	6/15	7/6	8/5	9/7		٠		
808		12/1	4.5	12/1	11 1	12/1		12/1									9/11	1.5	5000	9/11					
807	2/11		0.8	5/8		7/21			1.5				Ι.,	4/6	4/6	4/8	5/8	6/15	7/13	8/16	9/11	10/15			-
808	2/3	м	5/8	5/8	0.43	7/8	8/12	M	10/1	M	12/2	4/1	i,	3/5	- 1	4/6	· .	6/15	7/15	8/16	9/7	10/20			
809	2/2(	3/10	4/21	5/17	0.5	7/15	8/28	9/25	10/1	11/2	12/3	:	1	3/5	3/16	4/6	5/8	6/15	7/12	8/9	8/11	10/14			
810	2/7	3/10	4/11	5/8	1.2	7/5	8/12	9/6	10/1	11/2	12/5	4/1	i,	4/1	4/6	4/26	5/18	6/15	7/12	4/23	9/16	10/15			
811	5/31	5/31	5/31	5/31			STATI	,i	CLOSE				1.		4/6	4/6	5/18	6/15	7/14	8/7	9/11	10/12			
813	2/11	3/8	4/22	5/30	1.5	7/7	8/12	9/10	10/2	11/2	12/2	4/1	,1	4/6	5/5	4/6	5/18	6/15	7/20	0/18	9/4	10/20			
814	2/10	3/7	4/8	5/7	1.2	7/7	8/13	9/10	10/1	11/2	12/5	4/1	١,	3/9	5/8	5/11	5/8	6/15	7/21	8/5	9/9				
815	8/1£	8/18	8/18	8/18	0.44	8/18	8/18	10/1	10/1	11/1	12/2	4/1	1.	3/15	3/15	7/26	6/15		7/26			10/15			
816	2/7	3/8	4/8	5/8	0.5	7/8	8/12	9/10		1.0	12/9		į		3/9	113.		6/15	111		100	10/22			
817	2/5	3/8	4/4	5/8	0.67		8/12				12/1				4/6		5/4		7/12			10/12	•		
818	2/5	3/8	4/3	5/13	0.67		8/4	9/5						2/17	1.5		5/4	191	7/21			10/12			
820		3/12		7/8	0.88	7/15	8/21	9/16	10/2	•	12/1	4/1		2/17	* .			9/16	120						
821	5/8	5/8		• .	• :	•	•	•	•	• .				3/21			7/5			9/11					
823		8/23				7/21				11/2				2/17				4/23			:	1.5			
. 824	2/13	3/8	4/4	5/17	1.2	: 7/7	8/12	9/10	16/1	11/2	12/8	4/1		3/3	3/3	4/1	5/18	6/10	//12	8/12	B/ 1 1	10/13			
825					. !						4014			:		4.10		C14 E	:	0112		10/15			
826		3/19		5/8		7/15									4/6		5/18	100				10/15	٠.		
827			4/12		0.67	.8/21	9/21				12/1			A .	410 A	4/ 1 /	η, 12 Α	77 13 A	,,,,,	67 10	3,,	10/13			
902	۸.	Α.	A .	A	Α.	Α	Α.	A .	Α .	A	A		1	A	A	Α	P	A	Ä	ъ.					
903		۸.	A	P P	A	A A	. A A	A	A A	A A	A		,	Ā	A	A.	Р	Â	P	•					
904 905	A	A	A	P	À	A	Ā	Â	A	A	A	A		A	A	A	٩	A	Α.	P					
906	Â	A	A	Α.	A	A	A	Ā	A	Α.	Ä	Ā	i	A	A	Ä	Α	A	A						:
907	A	A	A	р	A	A	Α.	 A	A	Α.	A	A	i	A.	A	A	P	A	A	'A	P				
909			•••	•				•					ř												
910	Α	А	Α	P	A	A	A	A	A	Α	A	A	i	A	A	: A	Þ	A	Α	P					
911	A	Ä	A	A	Α.		A	A	A	Α	Α.	Α	ı	Α.			A	Α	A						
912	A		A	р		Α.	A	A	A	À	A	Α	1	Α	<b>A</b> .	A	P								
914													1												
915	A	А	Α.	P	A	A	Α	Α	Α -	Α	Α	A	1	Α	Α	Α	P	A	A	P					
916													1												
917	A	. A	Α .	Α	A								ŧ										*		
918	A :	Α	Α	Р	Α	Α	Α	Α	Α	Α	Α	A	ı	Α	A	Α	ρ	Α	A	A	P				
919	Α.	A	- A	Р	A	Α	A	Α	Α	Α	Α	A	ı	Α	Α	Α	P	A	A	Р		•			
920	Α	A	А	ρ	Α	Α	Α	Α	A	Α	A	A	ī	Α,	A	Α	P	٨	A	A	P.				•
921	A	A	A	Р	А	Α	A	A	A	A	Α	A	1	A	Α.	A	P	A	Α	, <b>A</b>	P				
922	Α	A	Α	Α	A	A	A	A	Α	A	A	Ä	1	Α	A	Α	A	A	A						
1001	. A	A	A	P.	A	A	Α	A	A	Α	Α	Α	1	A	A	A	P	· A	A	A	P				
1002	A	A	Α	P	٨	A	Α	A	A	A	A	A	1					P	A	P					
1003	A	A	Α.	P	Α	A	Α	A	A	Α	A	A	1,	A	Α	A	P		A	P					
1004	A	A	Α	P	Α	Α .	A	٨	A	Α	Α	A	4,	A,	A	A	P	A	A	P					
1005	A	A	A	Р	Α	Α	Α	Α	A	Α	Α	A	1	A	A	۸	P	A	A	þ					
1006	٨	A	Α	p	Α	A	Α	Α	A	Α	Α	Α	ŧ	A	Α	A	P	Α	A	Р					

Table 6.3 CONDITION ON METEOROLOGICAL DATA COLLECTION

NOEX						1991				-									1992					e <del>ndrikelen</del> tus m
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	RAM	APR	MAY	JUN	JUL	AUG	882	oct	NOV	060
	**********																**********				-		-	···
007	Α	Α	Α.	P	A	Α.	A	Α	A	A	A	Α	I A	Α	Α	P	Α	Α	A	P				
009	A	Α	Α	P	Α.	A	A	Α	A	Α	Α	Α	A.	Α	Α	P	Α	Α	Α	Α	Α	Α	P	
010																								
011												i	٠.											
012												!												
013												I												
014																								
015	Α	A	,A	P	Α	Α	A	A	A	Α	A,	A 1	A	A	Α	Р	ρ							
016	Α	A	A	þ	A	A	Α,	A	A	Α,	A	A I	A	Α	Α	Р	Α	Α	P					
017	Α	A	Α	Р	A	A	A	A	Α	A	٨	A I	A	A	A	P	Α	Α	P					
018	Α	Α	A	P	Α	Α	Α	Α	Α	Α	Α	A	A.	A	Α	P	A	A	P					
019												. [												
020	Α	A	A	P	A	Α	,A	Α	A	A	A	A i	A	A	A	P	P							
021												1												
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027	A	A	A	P	A	A	Α	A	A.	Α	A	A I	A	Α	A	P	P							
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036	A	A	A		Α	Α		A	A-	Α -	Α	A I		Α										
37												1												
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Table 6.3 CONDITION ON METEOROLOGICAL DATA COLLECTION

	JÁN	FFT	MAFI	APR	MAV	,N IN	31 11	ÀUG	SCD.	OCT.	NY.	רפי	JAN	FEB	1/40	APR	MAY	JUN	1992 JUL	AUG	E(-1)	CCT		
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02	Α	A	Α	P	Α	A	Α	Α	Α	Α	A	A I	Α.,	Α	Α	P	Α	Α	Ρ			:		
03	A	Á	A	A	A	. A	·A	Α	A	A	A	A	I A	A	A	A	A	Α	A	A		-		
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9	A	Α	Α	p	A	A	A	Α	A	A	A	A		A	A	P	A	Α	P					
10	A	A	A	p	A	A	A	A	A	A	A	A 1		A	Á	p.	A	A	A	. р				
11	A	A	A	Ā	A	A	A	A	A	A	A	A		A	A	A	A	A	A					
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15	А	A	Α	·р	А	Α	Α	A	Α	A	А	A I		A.	A	Р	A	Α .	. A	· A	P			
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21	Α .	A	Α.	P	Α.	Α.	Α.	Α.	Α .	Α .	Α.	A 1		Α	Α .	A. P	Α .	A	P	Р				
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Table 6.3 CONDITION ON METEOROLOGICAL DATA COLLECTION

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	JAN	ÆÐ	MAR	APR	MAY	JUN	JUL	AUG	SEP	oc⊤	NOV	DEC		JAN	FEB	MAR	APR	MAY	JUN	JUL.	AUG	SEP	OCT	NOV	DEC
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421	-	•	•	-	•	• .	•	•	-	-	-	-	•		-		-								

LEGEND A / B A: MONTH

B: DAY

DATA HAVE BEEN COLLECTED

SINCE EASTERN REGIONAL OFFICE BEGAN TO RECORD AFTER AUGUST, 1992, NO RECORD BEFORE AUGUST.

SOURCE: REGISTOR AT EACH REDIONAL OFFICES

TABLE 6.4 CONDITION OF HYDROLOGICAL DATA COLLECTION AT REGIONAL OFFICE

ST.NO. REG								******	VFLORE								· · · · · · · · · · · · · · · · · · ·							******	·
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420 C																		P	٨		Р				
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446.3 C	•	•	•			•		•			•			٠.	i										
446.8 C	•	. •	. •	•		•	•	•		•	•			٠	1										
447 C	•	•	•	. •		•	•.	•		•	٠	•	•	+	- (										
447.4 C	•	•	•	•		٠	٠	•		•	•	•	•	•	ŀ										
447.9 C	•	. •	•	•		•	•	•		•	٠	• •	•	٠	1										
448 C	•	•	•	•		•	•	•		•	•	. •	•	•	1	•									
449.9 C	•	•		•		•	٠	•		•	•	•	•	•	ŀ		P	A	A	A	₽.				
449.95 C	•	•	•	•		•	•	•		•	•	•	•	•	1			P	· A	A	P				
450 C	•	•	•	•		•	•	•		•	•	•	• •	•	- 1			P	A	A	· P				
460 C				•		•	•	•		•	•	•		•	1			P	A	A .	P				
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536.2 C												:		Ĭ	'										
548 C												•			'										
550.1 C																									
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610 C				•				٠,				• :	,	D	:	A									
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620 C						•											Р	A	, P	-	•				
625 C			• .									. •					•	,,	Р	٨	A	Р			
627.5 C														Р	i		A		P	.,		•			
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629.1 C		٠		•						,					1.					Р	A	Р			
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647 C		٠	•			-	,			•					į		P	٨	A	р				٠	
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600.1 E	٠	•	•	•		•	•	•	•		•	٠	•		1	•	•	•	•	1.5	•				
601.8 E	٠	٠	•	•		•	•	٠	•		•	•	٠	•	1	•	•	-	-	٠	•	•	٠		
601.9 E	•	• .	•	•		•	•	٠			•	•		•	- 1	•	•	•	•	٠	•	•			
602 E	•	•	•	٠		•		•				•	•	•	ı			•					•		
602.5 E	•	•	•			•	•	•	•			•			1	•	•	•				•	•		
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604.5 E	٠		•								•				t			•						•	•
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TABLE 6.4 CONDITION OF HYDROLOGICAL DATA COLLECTION AT REGIONAL OFFICE

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640 E	•					•						•			•								
665 E	•		٠	•	•	•			•	•	•				-								
688.4 E	•	•	•	•			•		•	•	•	•	,				•						
668.5 E	•	•	•	•	•	٠	٠	•	•	٠	•		,	•	•	٠		•	•				
670 E	•	•	•	•	•	•	•	•	٠	•	•	•	ı	• •	•	•	•	•	•	٠			
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681 E	•	•	•	•	•	٠	•	• .	•	•	•	•	. 1	•	•	•	•	•	•	•	•	•	
684 E		•	•	•	•	•	•	•	•	•	•	•	ı	•	•	•	•	•	•	•	•	•	
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691 E									•	•				•	•			•	•	•	•	•	
695 E	٠.		٠.				-	•															
728 E	•	•		٠.			•		•				ŀ										
730 E		•	•		•								1										
738 E		•	•			•		-	•	•			ı		•		•		•				
795 E	•	٠	•	٠	•	٠	•	•	•			• .	1		٠	•	٠						
799 E	•	•	•	•	•	•	•	٠	•	•		•	1	•	٠	•		٠,	-	•		•	
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120 F	•	•	•	•	٠	•	•	•	•	• .		•	1	•	• •	•	•	•	•	•	-		
150 F							•			٠.			ı										
69.8 F	•	***	• .	• .	٠	•	. •	•	٠	•	•	•		•	•	•	•	•	•	•	•	•	
90.5 F	•	٠	• • •	•	•	•	٠	•	٠	•	•	•	i	•	٠	٠	•	•	•	•	٠	•	
240 F	•	•	•	•	•	•	•	•	٠	•	• .	•	F	•	•	•		.•	•	•	•	•	
250 F	•	•	•	•		•	٠	•	•	•	•	•	1	. •	•	•	•	•	•	•	•	•	
251 F	•	1.67		•	•	•	•	•	•	•	•	•	1	•	•	٠	•	•	٠	•	•	•	
255 F	•	•		•	•	•	•	•	•	•	•	•	1	•	•	•	•	•	•	•	•	•	
59.2 F	•	•	•	•	•		•	•		•	•	•	ŀ	•	•	•	•	•	•	•	•		
260 F 262 F		· ·			:		·	•		•						•	•	•	•	•	•	•	
280 F															Ċ			•			•	•	
285 F		•		•													•	•	•	•	•	•	
200 F										•	•	-		•	•	•		-	•	•		•	
205 M	4/12	12.8	a 4/26	7/4	7/4	7/29	10/7	10/7	1/31	1/31	1/31	1/3 i	ī	4/15	[4/15	7/12	7/12	7/12	7/31	6/23	9/24		
206 M			4/29		7/4	8/7	9/18	-	12/3			1/20		3/9	4/1		5/29	7/12			10/11	l	
208 M				7/29									1			5/13					10/1		
209 M				7/29	1			100						2/27									
210 M												2/5		2/27					7/27				
215 M 220 M				7/16					100					3/10							9/22		
225 M				6/19										4/11							10/1	. *	
230 M				5/27										3/25			3121	7/8			9/21		
241 M				5/22										2/24			5/20			A/30			٠
245 M				7/16										3/22									
265 M				7/9																		10/29	
267 M				7/7										7/10									
69.5 M				5/15					11											100		10/18	
		-,,	0,13	.,	4.12			-,.,					•	4,73		7.7	27.17	V/ 5		0110	-/-!	(4) (0	
	9117	3/26	4/14	5/10	714	7/10	9/22	9/24	11/11	12/4	1/12	1/28		3/15	3/16	4/22	6/22	8/22	7/10	£122	9/21		
270 M 284 M		3/26		5/19								1.5	,			4/22 4/19						10/29	

TABLE 6.4 CONDITION OF HYDROLOGICAL DATA COLLECTION AT REGIONAL OFFICE

ST.NO. FIEG.	<del></del> ,			· · · · · · · · · · · · · · · · · · ·						OBSE	TAVR	ON DAT	E								•	
		·	·	to Part of Participans	1	9	9	.1									1	9	9	2		
	 J	F	М	Α	М	J	J	A	8	0	N	D		J	F	М	۸	м	J	J	A	s c
287 M	4/11	7/16	7/16		10/5	10/6	10/6	10/6	2112	2/12	2162	0113		E / 2 1	5/21	5.001	£ (0.1	F.0.4	4100			
288 M	٠.	5/1		8/7		8/7	8/29	10/9					. 1	2/24					7/24		0/24	10/29
289.5 M	3/26	3/26	4/21	5/26	7/4	7/29	8/29	10/9					,	2/21	3/27						9/30	
89.99 M	7/7	7/7	7/7	7/7	7/7	1,1719	11/19	10/10	3/17	3/17	3/17	3/17									10/13	
290 M	4/2	5/27	5/27	5/27	7/16	7/16	10/10	1/19	1/19	1/19	1/19	1/19,	- 1	5/14	5/14	5/14	5/14	7/22	7/22	8/18	9/21	10/18
292 M	2/24	4/12	4/18	5/21		7/29	18/22	9/22	11/11	11/24	12/20	2/13	1	2/27	2/32	8/19	3/22	6/23	7/27	8/23		64.5
327 M	3/8	4/16	4/26	5/26	715	8/1	8/29	9/26	11/11	11/21	12/25	1/26	i	2/27	3/25	8/29	3/25	7/2	8/23	8/30	10/11	10/29
330 M	3/8	4/12	4/26	5/26	7/4	8/1	8/29	10/11	11/11	11/29	1/3	1/3 1	i	2/27	3/29	8/28	6/7	6/29	7/27	8/30	9/30	10/29
333 M	4/8		4/23	6/10	871	8/8	9/22	11/11	11/21	12/20	12/24	2/18	1	4/20	4/20	5/13	5/27	7/2	8/17	10/11	10/11	200
339.5 M		4/7	5/1	6/4	7/4	8/7	9/16	10/9	11/12	3/17	1/3	2/3	1	2/21	4/2	4/2B	5/25	6/23	7/26	8/23	9/30	10/29
350 M		4/1		11/19		8/1	9/16	10/9					1	2/27						8/30		10/20
350.5 M 360 M	4/8	4/8		5/21							12/24				3/22						9/21	
385.2 M	4/8 2/13	4/5	7/6	11/19				2/13												9/21	9/21	10/29
303.2 III	2,113	770	,,,,	,,,	2113	2113	£113	2713	2/13	2/13	2/13	2113		6/7	6//	:	5//	8/20	8/20			
387.4 W									19/5	12/5	1/5	212		3130	2100		£ 100	£10.0	:	0.04	10/10	10/00
387.5 W							R125	9/27			- :			3/1		5/26		1.5		9/24		10/22
387,8 W											2/21					:			7/27		10/1	4 **
390 W						4/26	8/26	9/23							3/30				9/2	9/2	10/22	10123
403 W						•		9/23							3/2			6/29			10/22	
404.6 W								12/28							3/20			,	•	9/2	9/24	
404.7 W						•					1/10		ı	3/6	4/22		6/7	9/2	9/2		•	
406.5 W	•		٠				8/22	9/23	10/24	11/20	12/22	1/21	ı	2/17	3/20	4/22	5/22			9/2	9/23	10/22
409,5 W	•	-		•		•	8/26	9/25	19/31	11/20	1/5	1/10	t	2/24	3/26	4/22		6/18	9/2	9/23	10/22	
410 W	•	•	•		•		8/22	9/23	10/25	11/27	12/22	.1/21	1	3/6	3/20	5/22	5/22	•	* '	9/2	9/23	10/22
414 W	•	•	•.	•	9/18	8/12	10/14	10/14	•	•	•	•	1	• .	5/8	5/8	9/24	9/24	9/24	9/24	10/1	
415 W	•	•	٠	•	• :	•	•	10/14	1/5	1/5	1/5	1/10	1	5/13	5/13	5/13	8/17	8/17	8/17	•	•	
416.2 W	•	•	•	•	8/13	8/13	10/14	10/14	1/7	1/7	1/7		1	•	4/21	4/21	8/17	•	9/24	10/11	10/11	
417 W	•	•	•	•	•	•	6/25	9/23	10/28	11/27	1/6	1/21	1	3/6	3/24	\$125	•	6/29	•.		10/1	
419.1 W	•	•	•		•	•	8/4	10/28	•	11/27	1/9	1/28	ł	2/17	•	4/21	5/22	7/2	10/1	10/22		
428 W	•	•	•	•	•	•	8/26	9/19	11/24	11/24	•	1/23	1	2/13	3/30	4/21	5/14	6/18	•	•	9/17	10/22
430 W	•	.*	•	•	•	•	8/22						1									
438 W	•	•	•	•	•	.:	11/29	9/23	10/24	11/21	1/20	1/20	1	•		4/22	5/20	6/21	8/18	8/18	9/2	
439.3 W		•	•	•				10/28			12/26		1	* .	•					9/2		1 P
439.4 W	•	•	•	•	•	11/29		11/24	11/24	11/24	2/12		- 1			5/8	71.7			9/23	'	
439.7 W	•	•		•	•		8/19		• .	•	•	1/19	1.	2/13		4/22				9/17	10/22	
440 W			,		•	8/5		9/29	2/12	2/12				3/6		5/8		9/23		3.		
441 W 445 W			9/25	11/29	31/29	11/29					2/11		-		5/8	5/8			9/23			
445.3 W							0/21	9/23	11/21	11/21		1/21		3/30		5/8	6/19		7/27	¥12	10/1	
IT											2/12		•	5/8	5/8	5/8		7/2	7/21		1	-

SOURCE: REGISTER AT EACH REGIONAL OFFICES

LEGENO

V, 60L	. Incolored to the allowed of the			
CVB	the state of the s			
F	FAR WESTERN REGIONAL OFFICE	Α	ALL DATA HAVE BEEN COLLECTED	A/B
М	MID WESTERN REGIONAL OFFICE	P	PART OF DATA HAVE BEEN COLLECTED	HTYOM: A
W	WESTERN REGIONAL OFFICE	0	STATION WAS INSTALLED	B : DAY
c	CENTRAL REGIONAL OFFICE	С	STATION WAS CLOSED	
Ε	EASTERN REGIONAL OFFICE		DATA HAVE BEEN COLLECTED	•

Table 6.5 SUMMARY OF NECESSARY DAYS FOR DATA COLLECTION

REGION DATA JAN	DATA	JAN	FEB	FEB MAR APR MAY JUN	APR	MAY	JUN	JUL	JUL AUG	SEP	SEP OCT NOV DEC MEAN	NOV	DEC	MEAN
Western	Нуфго	77	22	40	21	43	26*		31 26	23	55	38	45	33
:	Meteo	49	49	41	42	£	30	31	30	31	41	36	**96	43
Mid Western Hydro	n Hydro	57	8	32	43	48	\$ <del>5</del>	53	49	89	\$	40	32	84
	Meteo 65	65	61	56	43	45	41	47	49	53	52	52 55	\$2\$	52
Source Note *	Source: Register of data collection at each Regional Office in 1991 and 1992 Note *: There is data that have not arrived at Regional Office	r of date data th	a collectiat have	tion at ea	ich Reg ved at R	ional Of	fice in 1 Office	991 an	1 1992		(See J	(See Table 6.4)	· •	

\*\*: The staff for register of date went to field and it was impossible to record date on time.

Table 6.6 SUMMARY OF NECESSARY MONTHS FOR DATA COLLECTION

Region	Data	Item		Nec	essary Mo	nths For I	Data Collec	ction		
			One	Two	Three	Four	Five	Six	More	Total
	<del></del>		Month	Months	Months	Months	Months	Months		
Western	Hydro	Number								
	• •	of sample	140	45	18	- 11	. 4	0 .	. 2	220
		Rate	64%	20%	8%	5%	2%	0%	1%	100%
		Total	64%	84%	92%	97%	99%	99%	100%	-
							• •			
•	Meteo	Number						1		
		of sample	460	34	16	51	11	9	29	610
		Rate	75%	6%	3%	8%	2%	1%	5%	100%
		Total	75%	81%	84%	92%	94%	95%	100%	-
			,*		:					
	Sub Total	Number of sample	600	79	34	60	15	0	21	920
	Total	Rate				62		9	31	830
			72%	10%	4%	7%	2%	1%	4%	100%
r: .a		Total	72%	82%	86%	93%	95%	96%	100%	- '
⁄Iid-	TY-	XT						1	- "	
Vestern	Hyaro	Number of sample	191	80	36	23	- 15	8	11	364
		Rate	53%	22%	10%	6%	4%	2%	3%	100%
		Total	53%	75%	85%	91%	95%	97%	100%	10070
		TOTAL	3370	1370	0.570	9170	9370	9170	100%	<del>*</del>
	Meteo	Number	•				ŧ			
	WICK	of sample	203	179	66	25	16	7	21	517
		Rate	39%	35%	13%	5%	3%	1%	4%	100%
		Total	39%	74%	87%	92%	95%	96%	100%	10070
					07.0	:	7570	7070	100%	
	sub	Number						4.1		
	Total	of sample	394	259	102	. 48	31	17	32	881
		Rate	45%	29%	12%	5%		2%	3%	100%
	:	Total	45%	74%	86%	91%	95%	97%	100%	:
rand	Total	Number				. :				
		of sample	994	338	136	110	46	26	63	1711
		Rate	58%	20%	8%	6%	3%	1%	4%	100%
		Total	58%	78%	86%	92%	95%	96%	100%	_

Source: Register at each Regional Office.

(See Table 6.4)

Table 6.7 STATIONS THAT CONDITION OF DATA COLLECTION WERE NOT GOOD

Data	Region	Station	Distance to	Remarks	
		Number	Post Office		
Hydro	Mid Western	215	near	mountain area	
		265	15km	mountain area	
	٠.	267	15km	mountain area	
		287	12km	plane area	
		290			
		360	10km	plane area	
		385.2	near	plane area	
	Western	439.4	near	mountain area	
Meteo	Mid Western	301	50km	mountain area	: .
7.4.		404	near	mountain area	•
		406	near	mountain area	
		409	near	plane area	•
	•	412	near	plane area	
		509	near	plane area	
		510	near	plane area	
		515	near	plane area	
	Western	608	near	mountain area	
	***************************************	610	near	mountain area	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		612	near	mountain area	
* *.		801	near 5km	mountain area	
		806			
			15km	mountain area	
i		815	near	near from a highway	
		820	5km	mountain area	
		823	10km	mountain area	

Note: The condition of data collection was investigated in 1991 and 1992

Table 6.8 ACTUAL DATA COLLECTION METHODS IN WESTERN REGION

					1.11	-		•	
Station	Million of the company of the complete of the company of the compa	Number	of Samples	any an' ao amin'ny faritr'i Ao ao ao amin'ny faritr'i Ao	Rate		(%)		Remarks
Index	Post	Staff	Observer	Total	Post	Staff	Observer	Total	_
440	3	10	0	13	23	77	0	100	
414	. 3	1	0	4	75	25	0	100	
416.2	12	1	0	13	92	8	0	100	
439.7	5	0	6	11	45	0	55	100	
445	10	1	3	14	71	7	22	100	
430	0	0	1	· 1	0	0	100	100	**
410	13	0	0	13	100	0	0	100	
406.5	14	0	0	14	100	0	.0	100	
387.5	10	2	1	13	77	15	8	100	
409.5	13	0	0	13	100	0	0	100	· ·
404.6	8	3	2	13	62	23	15	100	
403	13	0	1	14	93	0	7	100	•
417	11	2	0	13	85	15	0	100	. "
439.3	12	0	0	12	100	0	0	100	
390	8	3	2	13	62	23	15	100	
428	0	0	12	12	0	0	100	100	
419.1	4	0	0	4	100	0	0	100	
438	4	0	8	12	33	0	67	100	
404.7	10	0	0	10	100	0	0	100	
387.4	9	2	1	12	75	17	8	100	
387.8	9	1	0	10	90	10	0	100	
415	8	3	0	11	73	27	0	100	
439.4	0	10	5	15	0	67	33	100	
441	1	5	3	9	11	56	33	100	
445.3	2	5	2	9	22	56	22	100	
419.1	5	0	2	9	71	0	29	100	
414	1	8	0	9	11	89	0	100	
Total	188	57	49	294	64	. 19	17		

Source: Register for data collection recorded in 1991 and 1992 by the Mid-Western Region.

TABLE 6.9 CONDITION ON DATA PROCESSING IN DATA BASE

ST.NO.	REC	1	VΑ	TE	R	LΕ	٧E	L				N	ME/	١M	)A	LY	W	\TE	R			RA	TIN	G T	ABI	LE				М	EΑ	N.I	IAC	LY	DIS	- :	
		. [	)A	ſΑ	E١	<b>NT</b> F	łΥ					Ł	E۷	EL	СA	LCI	JL	AT#	NC			DA.	TΑ	ENT	RY					C	НΑ	RG	EE	ST	ΜA	TIC	N
		. (	5	86	87	8	8 8	9.9	0	91	92	. 8	5 8	6 8	7 (	8 8	9 9	90	911	92	******	85	86	87 1	88 8	9 9	90 9	1 9	2	88	8	68	78	88	9 9	0 9	1 9
420 \$	c					n	n			n						, p																					
446.2	C		ا ۱	۳. غ	Þ	ъ Р	ь Б			P A.		N	. P		' F				P A											A							
446.3	c	F				b ,	A			A.		р	-			•	•																				
446.8 \$	c	,			P	A	P			p		Α		P									•							Α	ρ						
447 \$	c:	A	. ,	4	Р	Α	ρ	P	,	p		Α	A	P		F	, ,	,	<b>,</b>		,				•					Α	A	р	Α	р	þ		
447.4	С		ı	3	P	P	ρ	A		4			P	р	F	· F	,	. ,	Ą																		
447.9	С		F	3	P	Р	Α	ρ	, (	Þ			P	р	F	A	F	, ,	•																		
448 \$	C	P	. 1	•	P	P	P	Α		4		Α	P	ρ	F	F	,		A.		•	•	•							Α	P						
449.9	C	A							,	4		Α						1	١.																		
449,95	C																				:																
450 \$	C.		. /			þ			' /			Α									•	•	•	-						A			A				
460 \$	C	A				A	P	P				A									•	•	•	•						Α	A	Α	Α				
465 \$	C	A			A	A	A	P	-			A										' . 								A		_					
470 \$ 505 \$	C C	A			A P	A P	A	P			,	A	P	A P						,		•	•							A	P	A	A				•
507	c	A	_		Þ	P	Р	Λ				A	P				-													А	^	Р	۲	. ^	A	, P	Р
510	· C	A			•	p	Р	P				A			þ		-																				
511	Ĉ.		F		Р	P	P	A	-				Р																								
520	c	. А										Α																					٠				
530	C .	A	F	•		P	P	A	. #	١.		Α	Р		p	Р	٨																				
536.2 \$	C,	A	F	•	Р	Р	P	A		1		Α	Р	P	P	Р	A	A	i.		•	٠								Α							
548	С							P	•	1							ρ	A																			
550.1	C	P	F		P	P		P				Р	P	P	P		P	•			•	٠	•							þ	P						
589 \$	С	P	f	•	P	A	A	P	F	, t	•	P	P	P	A	A	P	F	þ	1	•	•	•							A							
592	C					þ	A	P							Р	A	₽	-																			
610 \$	C	A				P	A	P				Α	P	P	P	A	P				•	٠	٠	•	•	•			-	A	ρ	P	P		þ		
612	C		F		P	P	P	Α.	F				Р.	P	P	P	A	P		,	•	•	•	•	٠			-		Α	A	Р	A	A	A	A	Р
620 <b>\$</b> 625	C	A			P P	A P	A	A	A			A. A	A	P	A	A	A	A								•	•	·									
627.5	C	A			г Р	r P	P	Ā	A		ı	Α	A	Ь	P	P	^	Ā													A A	ь	6	0	A		ъ
629	C		ρ.		P	, P	P	p	P				Р	, P	P	Р	p	P												^		•	'		^	^	r
629.1	c ·	Α	. A	. 1	P	P	P	P	P			Α	A	P	P	þ	Р	Р			,	٠								. А	A	P	р	Р	ρ.	p	
630 \$	С	A	Α	. (	P	Р	Α	Р	N	ı		Α	Α	Р	Р	A	P	N	,   .					٠	٠	۵				Α	A	ρ	p	A	P		
640 \$	C	A	Α		Ą	N		· p	P			· A	A	A	N		р	p			•	.*		٠						Α	A	A					
647 \$	C	A	Α	1	P	Р	Α	P	Α			Α	A	P	P	A	P	, A			•	•								Α	A.	Р					
650 \$	C	٨	P	1	P	Ρ	Α	р	Ρ			Α	P	P	P	A	P	P			•									Α							
652 \$	C	A	Α	1	4	P	P	P	P			A	A	A	Ρ	Ρ	P	₽			•	•	٠	٠	٠	•				Α	A	A	P	p	P		
660 \$	C	A	A	,	2	P	Ρ.	p	N			Α	A	P	P	P	þ	N			٠	٠	٠	•	•					Α	A	P	P	p		N	
			**																																		
598	E		•	•	•	•	•	A	•						P	P		₽																			
599	E		•					•	Α.	•					p	P	P	A	P												•						
00.05	E			•										F	P	P		P	P				_														
600.1 <b>\$</b> 601.8	E.	Α	Α.	,		Μ Δ		A	А	•		P	A P	A	A	P	Α	A			•	٠	•	•	•	•				P	A	A	A				
801.9	E :	A	À	. *	•	^						A	A	^	м	r						٠														-	
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602.5	E	A	•	A		A	•		A			Α	Р	Α		Р	P	P						•								•				A	
604	E	•	•									Р	P	Р																						-	
604.5 \$	E	A	Α	/	١,	A	A	•	*	٠		Α	Α	Α	A	Α	p	A			٠	٠	٠	٠	•	٠	٠			A .	A	р	Α			A	
808	₽ .		٠					٠	Α				Ρ					A									-							:		A	
685	E	•	٠	•									Р	Р	Р							•					•										

TABLE 6.9 CONDITION ON DATA PROCESSING IN DATA BASE

ST.NO.	PIG	G.	D	٩T	ΑE	ŅŢ	PΥ	,		9	1 92		LE	Ē٧٤	EL (	CA	LCI	JL	ATIC 90 8	N	2	. [	TAC	FINC FAE	ENT	ΉY		90 e	)18	2	C	ж	RG	EE	ST		TЮ	N 1 92
-										rouma.c	********	Personal Paris					1.0	***			-				*****		rous			-		-		CHARLES FOR		ALPEAN		=
668.4	E		A	:	•				•					A	P	ļ	3																			٠	٠.	
668.6 670 <b>\$</b>			A	Α - Α	٠					Α			N A	A	Р	F	,		A																			
680 \$	E		A							. ^.			A	Р	P					•								•									^	
681	E		•	Α									^	A	p								÷								^				:		j.	
684	E		•	•	٠								P	P	þ																							
686.7	E			٠										Р	P																	÷						
689	E			٠										p																					٠.		-	
690 \$	E		A	A	•	. A	ı			A	٠		A	A	Р	A	i	:	A			٠	•	•	٠			-			A	A					A	
691	E			٠	•									P	P				- '																		٠.	
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795 \$	Ε		þ	٠	٠	٠				*	•		Ρ	P	P	P	,		Р		٠	•						-			P	•	٠.				P	
799	E				•	•	•	•							P	P	b																				1	
																																1						
120	F		A	A	Р	Ρ	. /	ķ	•	*			A	A	P	P	, A	P	P			•	-	-	-						Α	A	P	P				
150	F						•										p																		:			
169.0	F		•	•	•	A	F	١.	•	•			Þ	P	Р	A	A	P	•													:						
190.5	F		Ρ	Р	A	•	٠		A	٠			p	þ	A	þ	P	A	P			•									P	þ	- 1,		:			
240 \$	F		A	A	P	A	•		•	•			٨	Р	þ	P	Р	Р	P			•	â	•	•	•	•				A	A	P	A				
250 \$	F		A	A	A	Α.	A	ì	۸	•			Α	A	A	A		A	. P	N		*	•	-	•	•	*	•	•		A	A	Α			N		
251	F						٠									P	_	_	•																			
255 259.2	r F	٠	Α.		•	A			A				A P	·A P	P	A		A																	٠.			
260 \$	F		Á	Α	A	A			A A	÷			•	Ţ.,	•	A			P P												:_							
262 \$	F		A	A	Α.	A			A				A A	A	A	A		A	P			•		•	•			:			A A	A	A	A				
280 \$	F		Α.	A	Α.	A							A	A	•	P	P	P	P											¢	A	A	Α	Α				
285	F.		A	•	A.	A	А		A				A	p	A	A	-	A			٠.										^	•		^				
																		•	•																			
205	M		A	Α	•	Α	٠		•	•	•		Α	À	Р	Α	р	Р	Р	Р																		
206	М		٨	A	A	Α	Α	ı	Α.	Α	•		A	Α	Α	Α	Α	A	A	P			•	•	•	٠	•											
208	M		•	•	•	•	A		A	•			P	P	P	Р	A	A	P			.*	٠	٠	٠	٠	•											
209	М			•	٠	٠	•		•								P	P					٠.					٠								:		
210	M		A	٠	٠	Α	•		•	*	•		A	P	P	A	P	P	ρ	P									+ -			: "						
215	М		A	A	•	A	٨		•				A	A	P	A	A	P											*.									
220	M		A	A	A	A	•		•	•	•		A	A	A	A	P	p	Р	P							- "					i						
225	М	,	A	A	A	A	A	١.	A	A	•		A	A	A	Α	Α	A	Α	P		٠	•	•	•	•	•				Α	A	Α	A				
230	М	4	A	A	٠.	•	•		•	•			A	A	þ	P	P	P	P			•	•	•	٠	•	•	٠										
241	М	4	A '	A	A	A	A		•	*	•		A	A	A	A	P	Α	P	P		•	*	٠	٠	•	٠	•					A	P			:	
245	М	. 4	۸	A	A	A	A		A	•			A	A	A	A	A	A	P			•	٠	٠	٠	•	٠				A	A	A	A				
285	M	4	A.	Α.	•	A	A		A	•	•		Α_	Α.	P	A	Р	٨	P	P		٠	•	•	•	•	٠											
267	M	٠	•	A	٨	-	•		A •	•	•		P	Α	P	P	P	A	P	Ρ		٠	•	•	٠	•	•	٠		•								
269.5	M		A	*					•						•	,	P	P	-			_	_				_					2						
270 <b>\$</b> 284	M M		P4.	۸.	Α.	Α.	A .						A	A P	Α.	Α.	A	ر ا	۲ خ	ń		٠		٠	٠	٠	٠				٨	A	A	A				
286 \$	M	_					٠	Ì					 Λ	P	P		r	۲	P D	۲.																		
287	M ·	,	•					·				•	Α	-	۲.	A	P	۳ n		۲			Ī	Ī	•	٠	•				'A		P	A				
288	M						Α.		•				Р.	Р	P	P	r A	P	r p	•																		
289.5	M		,	A		A	A							A	P	A	P	P	P	Р																		
289.99	M			•			~	,	•					^		^	F	Р	٦	٢																		
																		r																				

TABLE 6.9 CONDITION ON DATA PROCESSING IN DATA BASE

ST.NO.	PIEG.	W	Αĭ	ER	LE	VE	L				N	ΙEΑ	NI	Al	LY	W	ΑT	ER	١.	ĺ	٦A	TIN	Ġ T	AB	LE				٨	1E/	N I	DAI	LY	DIS-	
		D.	AT/	A E	NT	RY					L	E۷	EL	CA	LO	UL.	ΑT	Ю	Ń	1	)A	ΪΑI	ENT	RY	,				C	ΗA	RG	EE	ST	MATI	ON
		88	5 6	6 8	7 8	8 8	9	90	919	2	8	5 8	6 6	7 8	8	89	90	9	1 92		16	86	87 1	88	99 9	90 9	91	92	8	5 8	6 B	7 8	8 8	9 90	919
	***************************************	-						******		-veara									;		MEDICAL PARTY.	-	-	*****	*****		toDes	-	-	·	**************************************	-43/-	W.P.C	<b>7.10</b> 1715.1	
290	M	A	Α	٠	A	٠		٠.			A	A	Р	A	. 1	P	Р	- 1		•			•						A	A					
292	М					•	4	Α			٠				i	p	A																		
327	M	٠	*	•	Α	Α		A	• •		p	P	p	Α	i	٩	Á	Р	Р																
330 \$	М	Α	•	•:	A	A		A	• •		Α	P	P	Α	. 4	٨	Α.	p	P	•	•	•	•	•					A						
333	. M	Α	٠	•	A	A	•	•	• •		Α	P	р	A		Ą	Þ	þ	Р																
339.5 \$	M	A	•	A	A		•	• .	• •,		A	P	A	A		9	ρ	P	P	•	4	•	•	•					Α			Α			
350 \$	M	A	ŧ	*	A	Α		•	• •		A	Ρ	p	Α	. 1	)	P	p	þ	. •	•	•	•	•					Α						
350.5	M	•	٠	٠	٠	Α	. 1	A	•		р	P	p	P	,	4	A	Р	P										-						
360 \$	M	A	•	•	A	Α	. /	A	•		A	P	þ	A	. /	١.	A	P		•	•	•	•	•	•	٠			A						
385.2	M					•	1	A	•						F	•	A	p																	
387.4	W	A	A	٨	Ą	Α	. /	A .	A P		Α	A	A	A	1	١.	A	Α	Р		٠	•	٠	•	•	•									
387.5	W	A	Α	Α	A	Α	. #	A ,	A P		A	A	A	A		١.	A	A	P	. •	•	٠	•	•	•	•									
387.8	W	٨	A	Α	A	Α	1	A i	b b		A,	. A	A	A	,	١, ١	٨	P	P																
390 \$	₩	A	A	A	A	A	1	A, A	P		Α	A	À	Α	A	١,	Α, .	Α	P	•	٠	•	٠	٠	٠	٠									
403	W	Α	Α	Α	A	A	1	A /	A P		٨	A	A	A	A	t i	Á	Α	P	•	•	•	•	•	•	•									
404.6	W	Α	A	Α	A	Α	-	A ' A	A P		A	A	A	A	A	١,	A	A	P		•			•	•	. •				Р			P		
404.7	W	Α	A	Α	A	Α	1	<b>4</b> . <i>i</i>	P		A	A	A	Α	A	١,	Ą	A			•	•	٠	•	•	•			A	Α	Α	P	P		
408.5	W	A	A	Α	٨	A	ř	۸ ۱	A P		A	A	A	A	A		A	A	Р				٠	•	٠	•							P		
409.5	W	Ą	A	A	A	Α	P	۱ ۾ ۱	P		A	A	A	A	A	. /	A i	Α	Р	•	•	•	. •	•	•	•									
410 \$	W	Α	A	٨	A	Α	A	١ /	P		A	A	A	A	A		A	A	P	•	٠	•	•	•	•	•			Р	P	P	P	þ	Α	
414	W						.0	) /	P																										
415 \$	W	A	A	A	Ā	Α	A	. 7	P		A	A	A	A	A	. /	Ą	Р	P	٠	•	. •	•	,	٠				Р	P	P	P	Α		
418.2	W	A	A	Α	Α	A	A	\ F	Р		A,	A	A	A	A		٩	þ	P																
417	<b>W</b> .	A	A	Α	A	Α					٨	A	A	A	A	. #	۹ .	A	P	٠	٠	•	•	•	•	•									
419.1	W						A																												
428	W	A	A	A	A	Α	A		Р		A	A	A	A	٨	, ,	١,	A	P	•	٠	٠	•	•	٠										
430 \$	W							١. (			Ą	A	A	A	A	. #	ł			-									Р						
438		Α			A	Α	Α		Р		A	A	A	A	Α	. /	١.	A	P																
439.3		A					Α		Р		A	A	A	A	A			A	Р	٠															
439.4		A		A			A				Ą			A		A																			
439.7 \$		A	A	Α	A	A	٨		P		A <sub>.</sub>	A	A	A	A	P	1	Р	Р																
440 \$		A	A			A	P	, \			A	A	A	A	Α	F	-		P	•	•	•	•	•	•	•			Ά	P					
441		A	A	A	A	A	A		Р		A	A	A	Α	A	A	. 1	P	P																
445 \$	W	۸٠	٨	A	Á	A	A	A	P		A	A	A	A	Α	A	. /	A	P	•	٠	•	•	•	•	•	٠	٠.	A	Р	N		•		
445.3	W.	Ą	A	Α	٨	A	A	. A	P		A	A	A	A	A	A									٠	•									

NOTE These informations were collected at each Regional Offices and Central Office from Oct. to Nov. 1992.

## REG.

		TACHEOTERATECICAL	U	STATION WAS INSTALLED,
1	M	MID WESTERN REGION	¢	STAION WAS CLOSED.
,	И.	WESTERN REGION	Α	ALL DATA WERE COMPLETED.
	<b>C</b> -	CONTRAL REGION	P	PART OF DATA WERE COMPLETED.
1	Ë	EASTERN REGION	•	DATA WERE COMPLETED. BAT NOT SURE IF ALL DATA WERE COMPLETED.
	\$	PRIOLITY HYDROLIC STATION		EVEN IF RATING TABLE HAS NOT ENTERED, DISCHARGE VALUES HAVE BEEN CALCULATED.

Table 6.10 YEARS OF STAFF GAUGE READING RECORD ENTERED INTO COMPUTER

Region	Condition			· · · · · ·	Year	est are related to the best of the			Total	Rate
·	of Entry	1985	1986	1987	1988	1989	1990	1991		(%)
Eastern	All data	6	7	3	4	1	1	5	27	43
	Part of data	3	2	6	2	1	1	1	16	25
	None of data	0	0	0	3	7	7	3	20	32
:	Total	9	9	9	9	9	9	9	63	100
Central	All data	18	11	6	7	9	5	7	63	47
	Part of data	1	8	13	11	9	14	10	66	50
	None of data	0	0	0	1*	1	0	2*	4	3
•	Total	19	19	19	19	19	19	19	133	100
		. •		4	•					
Western	All data	7	7	7	7	7	7	3	45	92
	Part of data	0	0	0	0	0	0	2	. 2	4
	None of data	0	0	0	0	0	0	2	2	4
	Total	7	7	7	7	7	7	7	49	100
Mid Western	All data	6	1	2	6	3	2	0	20	48
,	Part of data	0	5	4	0	3	4	4	20	48
	None of data	0	0	0	0	0	0	2	2	4
•	Total	6	6	6	6	6	6	6	42	100
					•					
Far Western	All data	5	4	4	3	<u>',</u> 1	3	0 -	20	57
	Part of data	0	. 1	1	2	4	2	5	15	43
	None of data	0	0	0	0	0	0	0	0	0
	Total	5	. 5	5	5	5	5	5	35	100
All	All data	42	30	22	27	21	18:	15	175	54
	Part of data	4	16	24	15	17	21	22	119	37
	None of data	0	0	0	4	8	7	9	28	9
	Total	46	46	46	46	46	46	46	322	100

Source:

Table 6.9

TABLE 6.11 DISCHARGE MEASUREMENT RECORD IN THE MODEL BASIN

STATION NAME:		TATOPANI	STATION NUMBER:	·	403.5
NUMBER DATE		GAUGE HEIGHT (m)	DISCHARGE (m/S)	AREA (m2)	VELOCITY (m/S)
1 21/06/91		2.02	85.51	29.18	2.93
TO ANY THE CONTROL OF	<del>)</del>			CONTROL CONTRO	
STATION NAME:		KALLERI	STATION NUMBER:		406
NUMBER DATE		GAUGE HEIGHT (m)	DISCHARGE (m/S)	AREA (m2)	VELOCITY (m/S)
1 29/06/92		1.86	148.83	72.61	2.05
2 30/06/92		2.07	174.27	81.19	2.15
3 30/06/92		1.99	162.42	80.14	2.03
4 10/08/92		3.87	247.63	186.29	1.33
5 11/08/92		3.81	170.22	180.01	0.95
6 20/10/92		1.57	98.98	66.50	1.49
STATION NAME:		SETIBENI	STATION NUMBER:		410
NUMBER DATE		GAUGE HEIGHT	DISCHARGE	AREA	VELOCITY
		(m)	( m/S )	(m2)	(m/S)
1 25/06/92		2.62	274.17	151.20	1.81
2 26/06/92		2.65	276.89	152.78	1.81
STATION NAME:		CHUNTAHA	STATION NUMBER:		595
NUMBER DATE		GAUGE HEIGHT	DISCHARGE	AREA	VELOCITY
A. (1)		(m)	( m/S )	(m2)	(m/S)
1 17/04/92	4	1.90	1.04	3.04	0.34
2 18/04/92	.:	1.89	1.30	4.45	0.29
3 19/04/92		1.97	1.38	4.03	0.34
4 20/04/92		1.99	1.65	5.14	0.32
5 21/04/92	•	2.00	2.06	5.96	0.35
6 09/06/92	1	1.82	1.07	4.35	0.25
7 09/06/92		1.83	1.07	4.40	0.24
8 21/06/92	٠	1.81	0.76	3.44	0.22
9 05/07/92		1.94	1.82	5.48	0.33
10 05/07/92		1.94	1.94	5.98	0.32
11 31/10/92		2.08	6.04	12.03	0.46
12 31/10/92		2.08	5.79	12.93	0.44

Table 6.12 NUMBER OF DISCHARGE MEASUREMENT RECORD IN DATA BASE

STATION						Anr	FR								i		I
I		T				OBSERV						~~~~~~~	TOTAL		MINI		REM
NUMBER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991		RAGE	MUM	MUL.	ARKS
240	5	6	4	4	9	7	10	14	12	5	6	1	83	7	14	1	
250	. 5	5	.4	4	5	7	7	8	6	5	5	1	62			. i	
260	5	6	4	4	6	5	13	10	8	5	7	1	74	6		1	*
262	4	6	3	3	3	4	6	. 9	8	3	6	1	56	5		1	
280	8	6	5	4	21	10	7	34	9	15	0	1	120	10	34	0	\$
270	4	6	5	5	5	7	11	17	16	10	8	0	94	. 8	17	. 0	•
286	7	6	3	8	. 2	3	6	17	18	11	4	1	- 86	. 1	18	1	
330	9	9	3	8	. 7	2	9	14	12	8	3	0	84	.7	14	. 0	
339.5	5	12	3	8	2	2	- 8	9	6	15	3	0	73	6	15	0	•
350	9	6	3	. 8	- 5	7	8	20	16	14	8	2	106	9	20	2	
360	2	8	5	. 9	9	3	13	16	23	5	1	. 2	102	. 9	23	2	
390	2	3	• 1	2	. 1	1	9	7	4	6	, <b>7</b> .	5	48	. 4	9	. 1	
410	2	2	3	0	2	4	10	. 5	11	9	9 .	4	61	5	11	0	
415	2	2	3	1	2	4	. 7	4	10	6	5	4	50	4	10	1	
430	5	1	3	0	1	0	. 0	0	5	6	5	0	26	2	6	. 0	
439.7	0	0	0	0	0	0	0	o.	0	. 0	9	3	12	1	9	0	
440	1	2	3	0	3	2	10	5	. 12	5	9	3	55	5	. 12	0	1.0
445	0	0	0	0	0	1	0	6	15	17	8	3	50	4	17	. 0	
420	- 1	2	1	1	0	0	3	. 2	3	2	1	1	17	. 1	3	0	
446.8	10	18	1	5	3.	5	5	0	4	3	5	3	52	4	10	. 0	
447	9	7	1	5	. 1	3	3	2	0	.3	. 7	3	44	4	9	. 0	
448	3	3	1	1	1	3	4	1	4	4	4	3	32	3	4	1	
450	1	10	1	0	0	1	5	3	4	0	2	5	32	3	10	. 0	*
460	2	2	0	0	1	3	5	3	5	2	4	2	29	2	5	0	
465	1	2	. 1	1	1	4	4	2	4	0	4	1	25	2	. 4	0	
470	2	2	1,	1	. 1	3	5	3	6	1	4	4	33	3	6	1,	
505	2	2	2	2	. 1	2	6	. 9	2	2	4	5	39	. 3	9	1	
536.2	2	2	0	0	2	. 0	3	2	3	1	. 4	1	20	2	4	0	1 4 1
589	3	2	1	2	29	0	1	9	. 4	2	5	2	60	5	29	0	•
610	4	4	.0	3	2	2	6	5	0	5	5	7	43	4	. 7	0	
620	6	6	1	3	0	0	2	4	3	3	5	5	38	3	6	0	
630	4	3	1	2	4	0	5	4	3	2	. 5	4	37	- 3	5	. 0	*
: 640 647	3	,0 5	2	2	1	0	1	2	2	0	5	1	19	2	5	0	
650	4		2	4	3	2	. 9	. 8	0	3	6	8	54	5	9	0	
652	3 2	3 3	2	3	3	2	8	3	2	3	4	5.	41	3	8	2	1
660	3	3	1	2	2	0	0	1	3	1		2	22	2	. 5	0	
600.1	. 0	0	0	1 0	2	0	4	0	1	.0	2	0	: 16	1	4	0	
604.5	0	0	1	3	0 5	0 3	6	12	7	. 0	6	2	33	3	12	0	1 - 1
670	0				_		10	22	. 11	3	6	32	96	. 8	32	0	
680	0	0.	. 0	4 0	3	0	8	9	7	4	5	4	46	4	9	0	• •
690	8	22	25	4	· 5	2	6			0	6	0	120	0	3	0	•
695	1	9	23 11	2	2	0	0	20 0	11 - 6	3	3 1	11	120	10	25	2	
728	0	. 0	1	12	7	1	ģ	11	8	. 3	3	0	32	3 6	11 12	0	
730	1	0	4	3	5	2	8	7	5.	3	2	11 11	66 51			0	
795	2	. 4	4	1	0	1	13	12	9	3	. 2	31	51 82	4 7	11 31	0	*
AVERAGE	3	4	3	3	4	2	6	8	7	. 4	5	4	53	4	12	0	

NOTE The stations listed above are priority hydrolometric stations.

The investigation date is November 1992.

LEGEND \*: station for flood forecasting project

\$: station for Chisapani Multi-pourpose Project

SOURCE: Data Base

Table 6.13 SUMMARY OF THE CONDITION FOR RATING TABLE ENTRY

Retion	Item			Obse	rvation \	Year			Total	Average
***		1985	1986	1987	1988	1989	1990	1991		
Eastern	Number of Month	8	6	6	6	4	3	2	35	5
·	Rate (%)	89	67	97	67	44	33	22	-	56
Central	Number of Month	18	16	12	10	7	6	2	71	10
	Rate (%)	95	84	63	52	37	. 32	11	-	- 53
Western	Number of Month	5	5	5	5	5	5	4	34	5
	Rate (%)	71	71	71	71	71	71	67	-	70
										-
Mid Western	Number of Month	6	6	6	6	6	4	1	35	5
	Rate (%)	100	100	100	100	100	67	17		83
						•				•
Far Western	Number of Month	4	4	2	3	3	3	1	20	3
	Rate (%)	80	80	40	60	60	60	20		57

## Note:

The number of months means that the months which rating curve is exist. The number includes the rating curve under checking. The object stations for above number is priority stations only the total priority stations under each Regional offices are as follows.

Eastern : 9
Central : 19
Western : 7 (one of the station was closed in 1991.)
Mid Western : 6
Far Western : 5

Source: Data Base at the Central Office

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Tabis
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(25, NOV. 1992)

YEAR 60616263646566 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92		a	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
NAME OF SITE	ASARA GHAT BANGA NEAR BELGON JAMU CHISAPANI SHYALPANI-SITA PALI BAGASOTI GAON SINDHANIA SETI BINI SHISA GHAT BIMAL NAGAR GOPLING GHAT ARUGHAT BETRAWATI NARAYAN GHAT CHOVAR	SWITTHEL LUKEKHANI PANDHERA DOBHAN KARMAIYA-MANGALPUR UWA GAON MULGHAT KOSHI MAINACHULI	A P A: ALL DATA ENTERED P: PART OF DATA ENTERED N: NOT AVAILABLE
NAME OF RIVER	KARNALI RIVER SETI RIVER BHERI RIVER KARNALI RIVER SARDA KHOLA RAPTI RIVER RAPTI RIVER RAPTI RIVER RAPTI RIVER MARSYANGH SETI RIVER MARSYANGH MARS	' ' ' ' '	Number of Station
ST. ON.	240 270 270 280 280 280 350 350 410 430 430 439.8 445 445 445 445 445 445 445 445 445 44	570 589 590 600.1 690 695 795	2

Table 6.15 SEDIMENT TRANSPORTATION DATA PROCESSING IN 1992

YEAR 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89		0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOURCE : INVENTORY IN DATA BASE AT THE CENTRAL OFFICE
	ASARA GHAT BANGA NEAR BELGON CHISAPANI SHYALPANI-SITA PALI BAGASOTI GAON SINDHANIA SETI BINI SHISA GHAT BETRAWATI NARAYAN GHAT CHOVAR LUKEKHANI UWA GAON MULGHAT KOSHI	∢ ₾	A:ALL DATA ENTERED P:PART OF DATA ENTER N:NOT AVAILABLE
ST.ON. NAMEOFRIVER NAMEOFSITE	KARNALI RIVER SETI RIVER KARNALI RIVER SARDA KHOLA RAPTI RIVER KALI GANDAKI SETI RIVER TRISULI NARAYANI LOTHAR KHOLA BAGMATI RIVER ARUN RIVER TAMUR RIVER SAPTA KANKAI MAI	Number of Station	LEGEND
ST. ON.	240 260 280 280 350 350 444 447 4470 470 570 690 690 695	Numb	

Table 6.16 SCHEDULE ON THE FIRST TRAINING

Date	Time	Schedule
March		
15 (Sun):	11:00 - 11:10	Outline of this Training
Introduction	11:10 - 11:15	Introduction of Study Team
	11:15 - 11:30	Introduction of Trainees
	11:30 - 12:40	Introduction of Training Schedule
	12:40 - 13:40	Introduction of this Project
	13:40 - 14:00	Present data processing condition
	14:00 - 15:00	Discussion on data processing
16 (Mon):	11:00 - 11:20	General
Outline of the Model	11:20 - 11:30	Schedule
System	11:30 - 12:00	Organization & Roles
adding to the 1-2 december 1	12:00 - 12:10	Gauging station
•	12:10 - 12:15	General data flow
	12:15 - 12:30	Frame of this system
	12:30 - 13:30	Operation
	13:30 - 14:00	Management
	14:00 - 14:10	Training
. "	14:10 - 15:00	Forms
	15:00 - 16:00	Break
·	16:00 - 17:00	Examination
17 (Tue):	11:00 - 12:00	General
	12:00 - 13:00	Making Rating Curve
Outline of Rating Curve	13:00 - 15:00	
	15:00 - 16:00	Sample Break
	16:00 - 17:00	Examination
10 (3) . 3) . 11-0 1-	10.00 - 17.00	
18 (Wed): Holiday		Free
19 (Thu);	11:00 - 15:00	Making rating curve using the actual observed value
Training on Rating Curve	15:00 - 16:00	Break
	16:00 - 17:00	Examination
20 (Fri):	11:00 - 11:30	Condition and Broblams on the Existing Observation Custom
Outline of Observation	11:30 - 11:50	Condition and Problems on the Existing Observation System Model Observation System
Oddine of Observation	11:50 - 12:00	Break
	12:00 - 12:30	Operation of Instruments
	12:30 - 12:50	
	12:50 - 13:00	Our Long-Term Programme Break
•	13:00 - 13:30	Observation Method (Discharge measurement, etc.)
	13:30 - 14:00	Discussion and Question
. :	14:00 - 15:00	Break
	15:00 - 16:00	<del></del>
21 (Cat). Halidan	15100 10.00	
21 (Sat): Holiday	:	Free
22 (Sun);	11:00 - 11:10	Frame of Computer
Introduction of Computer	11:10 - 11:20	on & Off
	11:20 - 11:30	Key Board
	11:30 - 11:40	System Prompt
	11:40 - 12:00	Software
•	12:00 - 12:10	Files
•	12:10 - 12:30	Director
•	12:30 - 12:40	Frame of Command
	12:40 - 15:00	MS-DOS Command
	15:00 - 16:00	Break
	16:00 - 17:00	Examination
23 (Mon):	11:00 - 12:00	Meteorological data base
Introduction of Data Base	12:00 - 15:00	Hydrological data base
WINDAMSHOU OF DRING DIGGE		11) aronogroup and trave

Table 6.17 SCHEDULE ON THE SECOND TRAINING

Date	Training Items
June 3 (Wed)	Orientation and MS-DOS*
4 (Thu)	MS-DOS*
5 (Fri)	MS-DOS*
6 (Sat)	Holiday
7 (Sun)	MS-DOS*
8 (Mon)	LOTUS 1-2-3*
9 (Tue)	LOTUS 1-2-3 & Installation Programme
10 (Wed)	LOTUS 1-2-3 & Outline of Observation
11 (Thu)	LOTUS 1-2-3 & Outline of Observation
12 (Fri)	Vaccine Program

Note: \* The training on MS-DOS and Lotus 1-2-3 will be held as follows:
- From 11:00 to 12:00 Lecture
- From 12:00 to 13:00 Practice
- From 13:00 to 14:00 Lunch time
- From 14:00 to 16:00 Other training or free practice

Table 6.18 SCHEDULE ON THE THIRD TRAINING

	Date	Time	Training Items
Dec.	6 (Sun)	11:00 - 12:00 12:00 - 15:00	Orientation Present Manual for Model System
•	7 (Mon)	11:00 - 14:00 14:00 - 15:00	New Manual Examination
· : :	8 (Tue)	11:00 - 12:00 12:00 - 14:00 14:00 - 15:00	Making of Table by Lotus 1-2-3 Making of Graph by Lotus 1-2-3 Printing of Graph
	9 (Wed)	11:00 - 14:00 14:00 - 15:00	Data Processing (1) Examination
	10 (Thu)	11:00 - 14:00 14:00 - 15:00	Data Processing (2) Examination
	11 (Fri)	11:00 - 14:00 14:00 - 15:00	Data Checking (1) Examination
	12 (Sat)		Holiday
	13 (Sun)	11:00 - 14:00 14:00 - 15:00	Data Checking (2) Examination
• •	14 (Mon)	11:00 - 13:00	Basic Analysis
			n e

Table 7.1 RIVER BASIN AREA

	Name of River Basin	Basin Area (sq.km)	Percentage o Basin Area within Nepa
I.	MAHAKALI RIVER	5,317	34%
II.	SOUTHERN BORDER RIVER GROUP NO. 1	3,811	100%
III.	KARNALI RIVER	(43,227)	100%
	1. HUMLA KARNALI	5.527	65%
	2. MUGU KARNALI	6,155	100%
	3. SINJATILA	3,252	100%
	4. SETI WEST	7,103	100%
	5. BHERI	13,867	100%
	6. KARNALI MAIN (OTHERS)	7,323	100%
IV.	BABAI RIVER	3,252	100%
V	WOUTHERN BORDER RIVER GROUP NO. 2	948	100%
VI.	RAPTI (WEST) RIVER	6,215	100%
VII.	SOUTHERN BORDER RIVER GROUP NO. 3	4,849	100%
VIII.	NARAYANI/GANDAKI RIVER	(31,726)	
7 1111	1. TRISULI	3,622	57%
	2. BUDHI	3,621	73%
	3. MARSHANGDI	4,819	100%
	4. SETI (GANDAKI)	2,843	100%
	5. KALI GANDAKI	11,573	100%
	6. RAPTI (GANDAKI)	2,993	100%
•	7. NARAYANI/GANDAKI MAIN (OTHERS)	2,255	
IX.	SOUTHERN BORDER RIVER GROUP NO. 4	3,502	100%
X	BAGMATI RIVER	3,681	100%
XI.	SOUTHERN BORDER RIVER GROUP NO. 5	3,013	100%
XII.	KAMALA RIVER SYSTEM	1,786	100%
XIII.	SOUTHERN BORDER RIVER GROUP NO. 6	1,896	100%
SVI.	SUN KOSHI.SAPTA KOSHI RIVER	(27,863)	
· <u>- ·</u>	1. BHOTE KOSHI	240	10%
	2. TAMA KOSHI	2,714	76%
	3. DUDH KOSHI	4,030	100%
	4. ARUN	5,248	15%
	5. TAMAR/TAMUR	6,125	100%
	6. SUN KOSHI MAIN (OTHERS)	9,506	100%
XV.	SOUTHERN BORDER RIVER GROUP NO. 7	3,462	100%
XVI	KANKAI RIVER	1,317	100%
SVII.	SOUTHERN BORDER RIVER GROUP NO. 8	1,316	100%
	TOTAL	147,181	

Table 7.2 BASIN OFFICE AND BRANCH OFFICE SITE

Basin Office Site		River Basin to be Managed	Branch Office Site
1. Nepalgunj	I.	Mahakali River	1. Bangga
	II.	Southern Border River Group No. 1	2. Chainpur
	III.	Karnali River	3. Simikot
	IV.	Babai River	4. Jumla
	V.	Southern Border River Group No. 2	5. Musikot
	VI.	Rapti River	
	VII.	Southern Border River Group No. 3	
2. Pokhora	VIII.	Narayani River	1. Jomson
3. Kathmandu	IX.	Southern Border River Group No. 4	1. Simara
	X.	Bagmati River	
	XI.	Southern Border River Group No. 5	
4. Biratnagar	XII.	Kamala River	1. Okhaldhumga
	XIII.	Southern Border River Group No. 6	2. Khandbari
	XIV.	Sunkoshi River	3. Taplejun
	XV.	Southern Border River Group No. 7	
	XVI.	Kankai River	
	XVII.	Southern Border River Group No. 8	

Table 7.3

NUMBER OF OBSERVATION STATION IN CHARGE OF BASIN OFFICE (Alternative Plan: Basin Office)

Total	4			147,181	10	38	79	110	09	017	470
Eastern	Biratnagar	1. Okhaldhung 2. Khandbari 3. Taplejung	Kamala Kankai Sun Koshi	37,640	3	12	15	30	14	103	117
Central	Kathmandu	1. Simra	Bagmati	10,196		2	3	9	9	37	43
Western	Pokhara	1. Jomson	Narayani	31,726		Ţ	16	28	19	95	29
Far Western	Napalganj	<ol> <li>Bangga</li> <li>Chainpur</li> <li>Simikot</li> <li>Jumla</li> <li>Musikot</li> </ol>	Mahakari Karnali Babai West Rapti	67,619	5	13	28	47	21	175	196
Basin Office	Location of Office	Branch Office	Main Basin	Basin Area (km2)	Basic Station	Primary Station	Secondary Section	Total	Recording Station	Non-recording Station	Total
Ba	3	Brz	Ma			netric ion	Hydroi Stat		noi	cipitat Station	arq ;

Note:

→: by vehicle ( ): Road head in consideration of road condition in 2005. Distance (km): distance through main foot path. Required days for walking (15 km/day by walk)

CONDITION OF ACCESS TO REMOTE STATIONS FROM BRANCH OFFICE Table 7.5

Passer, 1200-0		THE RESERVE THE PARTY AND ADDRESS OF THE PARTY		િ	<u> </u>	Γ.	<u> </u>	ତ			Π	£		Π	<u> </u>	15	Γ	-
Eastern	Birutnagar	1. Okhaldhung 2. Khandbari 3. Taplejung	Okhaldung	Sun Koshi/Ahrkapur (665)	20 km	2	Okhaldung	Dudh Koshi/Jubin (New 16)	40 km	03	Biratnagar(→Sabra)	Pakhribvas (1304)	10 km		Okharung	Khumjung (1217)	70 km	and the second s
Central	Kathmandu	1. Simra	Kathmandu	Bagmati/Khokana (550.05)	1 km		Kathmandu	Bagmati/Sundarijal (505)	S km		Kathmandu(→Banepa)	Hariharpurgadhi Valley (1117)	30 km	2	Kathmandu(→Dhulikhel)	Kallimati (New 2161)	45 km	e de la company of the second second second
Western	Pokhara	1. Jomson	Pokhara(→Gorkha)	Budhi Gandaki Lukuwa (New 10)	60 km	4	Pokkaro(→Besisshahar)	Marsyangdi/Baje (New 11)	35 km	3	Pokhara(→Dhadin)	Arughat (1002)	20 km	2	Pokhara(→Dhadin)	Ligau (New 2124)	80 km	*** <b>9</b> ***
Far Western	Nepalganj	<ol> <li>Bangga</li> <li>Chainpur</li> <li>Simikot</li> <li>Jumla</li> <li>Musikot</li> </ol>	Jumla	Humla Kamali/Thuldada (240)	75 km	5	Musikot	Thuli-beri/Juphal (New 6)	70 km.	\$	Jumula	Dunai (0312)	75 km	5	Jumla	Kuwangau (New 2021)	110 km	<b>8</b>
Basin Office	Location of Office	Branch Office		ority tion Station	oirq	Required Days *3		dar	ල ල කි Distance (km)		du	ordi ation Station	Rec		Starting Place	cord tion Station	u-re	Z Required Days

→: by vehicle Note:

<sup>():</sup> Road head in consideration of road condition in 2005. Distance (km): distance through main foot path. Required days for walking (15 km/day by walk)

<sup>÷;</sup> 

## Table 7.6 EVALUATION OF ORGANIZATION (1/2)

å	Work	Organization and Roles Central Basi Office Office	Roles Basin Office	Branch	Outline of the cases	Advantage	Disadvantage
<u> </u>	Data Collection	0			DHM will consist of only Central Office.	Since every resources such as manpower and	It will be difficult to maintain all stations well
	Data Entry	0			Central Office will carry out every works.	computer equipments will be concentrated to one	because of big number of stations. If error will
	Date Processing	0				place, it will save resources and is efficiency.	be found, it will be difficult to investigate the
	Data Management	0	:				causes,
<del></del>	Data Collection	×	.0		DHM will consist of Central Office and Basin	Since every resources for data management will be	
7	Data Entry	0	×		Office. Basin Office will collect data. Central	concentrated at one place, it will save resources	errors, because all data will be processed and
	Date Processing	0	×		Office will enter, process and manage data.	for them and is efficiency.	checked far from Stations and Statis for inspection. It will be also difficult to instruct
	Data Management	0	×				local staffs and observers.
	Data Collection	×	0		DHM will consist of Central Office and Basin	Since all data will be collected, entered and	The responsibility for data check will not be
ຕ 	Data Entry	×	0		Office. Basin Office will collect and enter data.	checked at one place, it will be easy to investigate	clear because the data will be processed at the
Ωī	Date Processing	0	×		Central Office will process and manage data.	the cause of error and instruct staffs for inspection	different place where they will be collected and entered. The data checking work will be late.
	Data Management	0	×			and observers.	because of transfer of data.
	Data Collection	×	0		DHM will consist of Central Office and Basin	Since data will be collected, entered and processed	Since data will be processed at Basin Offices,
4	Data Entry	×	0		Office. Basin Office will collect, enter and	at same place, it will be easy to investigate cause	much experienced staffs and resources will be
	Date Processing	×	0		process data. Central Office will manage data.	of error and instruct staffs for inspection and	necessary. It will difficult to cope with urgent
	Data Management	0	×			observers. The responsibility will be also clear.	information without Branch Office.
	Data Collection	×	ℴ	٥	DHM will consist of Central Office, Basin Office	In case that urgent information such as damaged	The responsibility for data checking will not be
<u>ب</u>	Data Entry	×	0	×	and Branch Office. Branch Office will collect	or troubled station will be get, Branch Office will	clear, because the place for data entry and
<del></del>	Date Processing	0	×	×	data. Basin Office will collect and enter data.	cope with early.	processing will not same.
	Data Management	0	×	×	Central Office will process and manage data.		
	Data Collection	×	∇	∇	DHM will consist of Central Office, Basin Office	Branch Office will be able to cope with urgent	The running cost for Branch Office will be
9	Data Entry	×	0	×	and Branch Office. Branch Office will collect	information such as damaged or troubled stations.	charged.
	Date Processing	×	0	×	data. Basin Office will collect, enter and process	because data will be processed at one place and	
	Data Management	0	×	×	data. Central Office will manage data.	Branch Office will be established.	
:	Data Collection	×	∇	∇	DHM will consist of Central Office, Basin Office	It will be easy to check or investigate error,	Since the electric condition will not be good, it
7	Data Entry	×	ಶ	∇	and Branch Office. Branch Office will collect	because Branch Office will be established stations	will be difficult to operate computer regularly.
	Date Processing	×	0	×	and process data. Central Office will manage	and the data will be entered and checked near from Much resources will be necessary. It will take	Much resources will be necessary. It will take
	Data Management	0	×	×		stations.	much time to enter and transfer data.

Table 7.6 EVALUATION OF ORGANIZATION (2/2)

				7				m				v				2		-		4			T				<u> </u>	'n	: .	:	]
	Evaluation		It will be difficult to get reliable data because big	number of stations will be managed by one place. In	case of trouble, it will difficult to cope with. It will	be difficult to investigate error cause, too.	Once, DHM processed data with this case. But	DHM changed this mode because much backlogs	remained at Central Office. It will be also difficult to	investigate error cause	DHM should process data completely at same place	because of reliable data. The responsibility for data	check will not be clear.		DHM processes as with this style at present. The		evaluated. But it will be difficult to manage stations	in Northern part of Nepal.	The responsibility will no clear for data check. It will	be difficult to investigate error cause.			It will be able to manage, investigate error cause and	cope with trouble better than other cases even if the	station will be in Northern and remote area in Nepal.	The responsibility for data check will be clear.	It will be difficult to process data regularly at Branch	Office. It will take much time to enter and transfer	data. This case will be costly.		Note: Running cost is not include of Central Office.
Number of Staffs	Data A Hangement	Allangonican		O.				6				10				18				10				82				18			g cost is not in
Number	Observation	COSCIATION		26				26	:			26				- 26				\$				56				99			fote : Rumin
	Total	TOTO		76,700	: 1			76,700				88,700				180,400				88,400				180,400				249,400			Z
uipment	Cost	(000)	67,000	2,700	1,000	6,000	67,000	2,700	1,000	6,000	72,000	5,400	5,000	6,000	140,000	5,400	5,000	30,000	72,000	5,400	2,000	6,000	140,000	5,400	2,000	30,000	190,000	14,400	15,000	30,000	
Computer Equipment	Nimber	TAMES OF	δ.	m	F.	1	δ	ო		П	10	•	ζ,		18	9	S	5	10	9	'n		18	9	'n	5	28	16	15	S	
Ö	Fanimment	The state of the s	Computer	Printer	Digitizer	Plotter	Computer	Printer	Digitizer	Plotter	Computer	Printer	Digitizer	Plotter	Computer	Printer	Digitizer	Plotter	Computer	Printer	Digitizer	Plotter	Computer	Printer	Digitizer	Plotter	Computer	Printer	Digitizer	Plotter	
	Condition of Access	Of Hances		See	Table 7.4							See	Table 7.4											86	Table 7.5	L					, r
ion	Running Cost	The Tributant			f							NRs/Year	2,528,000		:		:							NRs./Year	3,310,400						carry out this work no such roles
Organization	Number of Offices		1	No Basin Office and	Branch Office								Basin Office 4	-										Basin Office 4	Branch Office 10				:		Legend O :
	Case							7				m					4			'n				9				<u></u>			

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Table 7.7 OUTLINE OF COLLECTED MATERIAL

			N N	Number of Data	pata			
Land, Sample of Information to	Coservanon	Style	O	Collection	_  -	Collection	Processing	Remarks
be Collected	Method	of Data	Max.	Min.	Ave.	Frequency	Frequency	
1. Precipitation • daily	ज्याकी विकादिक	paper form	12	12	12	monthly	monthly	Observe once per day
• continuons	automatical	chart						· Number depends on paper. Processing frequency depends on inspection schedule
	automatical	nam card			- 1 2			· Number depends on capacity and recording frequency. Collection and processing
1								frequency depend on inspection schedule.
• real time	telemeter	digital sign					real time	· Number, collection frequency and processing frequency depend on inspection
								schedule.
2. Water Level • daily	Staff gauge	paper form	12	22	12	monthly	monthly	Observed once per day.
· continuous	automatical	chart				.*		<ul> <li>Number depends on paper. Processing frequency depends on inspection schedule.</li> </ul>
	automatical	ram card						· Number depends on capacity and recording frequency. Collection and processing
	:			:				frequency depend on inspection schedule.
· real time	telemeter	telemeter		<del></del> -	•			<ul> <li>Number, collection frequency and processing frequency depend on inspection</li> </ul>
								schedule.
3. Discharge	current meter	paper form	36	9	9		monthly	<ul> <li>The number of discharge measurement depends of kind of stations, river condition</li> </ul>
	float	рарст голп					monthly	and number of floods.
	slope-area	paper form			`.		monthly	Basic Station : bi-weekly discharge, flood
	tracer	sample					monthly	Primary Station : ten times per year
						·		Secondary Station : minimum six times per year
4. Suspended Sediment	sample	sample				•	monthly	Collection frequency depends on season. Number depends on flow condition
			,	•				
5. Kiverbed Material	sample	sample	p=1	<del></del>	<del></del> -	yearly	yearly	
6. Water Quality	sample	sample	365	365	365	every day	monthly	
	sample	paper form	365	365	365	ल्पन्तर वेबर	monthly	
7. Report on Station Inspection	inspection	paper form	4	944	4	every three	every three	
				<del></del>		month	month	
8. Cross Section Survey	survey	paper form		-	<del></del>		yearly	
9. Emergency Information	<b>!</b> ·	proude la conce	l	t	ı		1	

Table 7.8 WAY OF DATA COLLECTION

Collection Way	Post	Manpower	Wireless	Telemeter	Telephone
1. Outline of method	Observer sends data by register mail	Staff or observer carries data by	Observer sends data with wireless   Telemeter system sends data	Telemeter system sends data	Observer sends data with telephone
	once a month	themselves	every day	automatically every day	every day
2. Correctness	Because of duplicate of data at station, Data can be collected without loss.	Data can be collected without loss.	Sometimes mistakes occurs. The	Because of lightning, this system	Sometimes hearing and recording
	data can be recovered if they are lost	This way is the most correct way.   condition of communication with	condition of communication with	sometimes fails to send data.	mistakes occurs.
			wireless is not good especially in day time.		
3. Operation	If the post office is near from	If traffic condition is not good,	The condition of communication	Well trained staffs are necessary	it is not difficult to operate.
	observer's house, this way is easy to	this way is not easy.	is not good especially in day time.		But it is difficult to get telephone
	operate. If it is far from post office, it		It is not easy for observers to	Purchase of spare parts is not easy especially in remote area in Nepal.	especially in remote area in Nepal.
	is not so easy to send data every		operate and maintain wireless. In	in Nepal	
·	month.		remote area, oil must be supplied		
		_	for wireless.		
4. Collection period	about one week	It depends on traffic condition and within one day	within one day	real time	within one day
		distance to stations.			
5. Charge	Eight Nepal Rupees per mail	It depends on place	wireless system: US\$2,500/set	This way is very costly	Average NRs, 6/min.
			oil: 100 NRs./month		
6. Evaluation	If the post office is near from	It is not easy to collect all data by	This way is not reliable to send	This way is most suitable to	This way is not reliable to transfer
	observer's house, this way is most	manpower. In case that the staffs	data. But, this way is suitable to	collect data early and get condition data. In case of emergency	data. In case of emergency
	suitable way for paper form, because	observe or inspect, it is most	send emergency information in	on observation. If there is no	information, this way is most
	of economical, efficiency, correctness suitable way. There is no way to		case of no telephone area.	observers, there is no way besides suitable to send information.	suitable to send information.
	and easy operation. In case of	collect sample beside this one.		telemeter. This way is also useful	
	sample, chart or ram card, this way is			to monitor stations. But telemeter	in et aleks kirjer
	not possibly to collect data safely.			system is costly to establish and	Sheata mus
				maintain.	

Table 7.9 SUMMARY OF DATA ENTRY WAY

	S			•			:																						
C	Kemarks				For basic station	For basic station				:	For basic station	For basic station			For basic station	For basic station											-		
Date: Mathod	Enuly Memod	Keyboard	Digitizer	Reader	Automatically	Automatically		Kevhoard	Digitizer	Reader	Automatically	Automatically	Keyboard	Reader	Automatically	Automatically	Keyboard	Keyboard	Keyboard		Keyboard	Keyboard	Keyboard	Keyboard	neyboard	Keyboard	Keyboard	Keyboard	Keyboard
Observation Mathod	CUSCI VALIDII INICIIIOLI	Manual	Automatical gauge	Data logger	Telemeter system	l elemeter system		Manual	Automatical gauge	Data logger system	Telemeter system	Telemeter system	Automatical gauge	Data logger system	Telemeter system	Telemeter system	Float	current meter	SlopE-area		Depth integrated sampling	Point integrated sampling	Hydrometer method	Sieve	7	Kit	Laboratory	Inspection or phone	Survey
Recording Style	accounting orals	Paper form	Chart	Ram card	Wire	wireless		Paper form	Chart	Ram card	Wire	Wireless	Chart .	Kam card	Wire	Wireless	Paper form	Paper form	Paper form		Paper form	Paper form	Paper form	Paper form	Tapel John	Paper torm		Paper form	Paper form
Entry Data	may there	S	b. Continuous precipitation				Water Level	a. Daily water level					c. Exucine water tevel				Discharge			Sediment	a. Suspended sediment concentration		b. Famicie size analysis	c. Grain Size d. Percentage of void		water Quality		Information of Station	Cross Section Survey
		·					7										'n	<del>-</del>		4.					4	<u>.</u>		9	7.

## Table 7.10 DATA ITEMS FOR DATA BOOK

Data Book	Data Items
1. Common Item	<ul> <li>location map of stations</li> <li>code number for stations</li> <li>summary of station description</li> </ul>
2. Precipitation	<ul> <li>summary of precipitation condition in Nepal</li> <li>isohyetal map in Nepal</li> <li>continuous precipitation</li> <li>daily precipitation</li> <li>monthly precipitation</li> <li>annual precipitation</li> <li>hyetograph</li> </ul>
3. Discharge	summary of stream flow condition in Nepal     daily mean discharge     monthly mean discharge     annual discharge     hydrograph     flow duration curve     specific discharge
4. Sediment, Water Quality & Riverbed Material	<ul> <li>summary of sediment and water quality condition in Nepal</li> <li>daily suspended sediment concentration</li> <li>monthly suspended sediment concentration</li> <li>daily suspended sediment transportation</li> <li>monthly suspended sediment transportation</li> <li>annual sediment transportation</li> <li>grain curve</li> <li>specific gravity</li> <li>percent of void</li> <li>water quality index</li> </ul>

Table 7.11 STORING DATA (1/2)

Data	Style	Storing Frequency	Term to be stored	Remarks
A. Original Data				
1. Precipitation	+ :			
a. continuous precipitation	chart	yearly	forever	
w tomatone proteinmon	ram card	*		
	digital or analog sign	*		ľ
b. daily precipitation	paper form	yearly	forever	
2. Water Level				
a. continuous water level	chart	yearly	forever	
	ram card	*		
	digital or analog sign	*	<del></del>	
b. daily water level	paper form	yearly	forever	
3. Discharge	paper form	yearly	forever	
4. Sediment				
a. sediment concentration	paper form	yearly	forever	
b. particle size	paper form	yearly	forever	1
c. grain size	paper form	yearly	forever	
d. percentage of void	paper form	yearly	forever	
5. Water Quality	paper form	yearly	forever	
6. Station Description				
a. inventory	paper form	yearly	forever	
b. inspection sheet	paper form	yearly	forever	
c. others	paper form			
7. Cross Section Survey	paper form	yearly	forever	
8. Error Report	paper form	yearly	forever	
B. Processed Data	File			In Computer
1. Precipitation	£:1_		C	
a. continuous precipitation	file	yearly	forever	
b. daily precipitation	file	yearly	forever	
c. daily mean precipitation	file file	yearly	forever forever	
d. rainfall intensity e. isohyetal map	file	yearly	forever	
e. Isonyetai map	Tile	yearly	iorever	
2. Water Level	out.		•	
a. continuous water level	file	yearly	forever	
b. daily water level	file	yearly	forever	
c. daily mean water level	file	yearly	forever	
d. extreme water level	file	yearly	forever	
3. Discharge		1.1		·
a. discharge measurement	file	yearly	forever	•
<ul> <li>b. continuous discharge</li> </ul>	file	yearly	forever	
c. daily mean discharge	file	yearly	forever	
d. extreme discharge	file	yearly	forever	
4. Rating Table	file	yearly	forever	

STORING DATA (2/2) **Table 7.11** 

Data	Style	Storing Frequency	Term to be stored	Remarks
5. Sediment				
a. daily sediment concentration	file	yearly	forever	
b. daily sediment transport	file	yearly	forever	
c. extreme sediment transport	file	yearly	forever	
d. particle size	file	yearly	forever	
e. grain size	file	yearly	forever	
f. percentage of void	file		forever	
i. percentage of void	THE	yearly	IOIEVEI	
7. Water Quality	file	yearly	forever	ar i
3. Station Information	2.0			
a. station description	file	irregular	till updated	
b. data collection record	file	every day	till updated	
O. Cross Section	file	yearly	forever	
C. Data Book	book	yearly	forever	
D. Backup	Optical disk			
D. Dackup	Opucai disk			
l. Precipitation				
<ul> <li>a. continuous precipitation</li> </ul>	optical disk	**	forever	
b. daily precipitation	optical disk	**	forever	
2. Water Level				
a. continuous water level	optical disk	**	forever	
b. daily water level	optical disk	**	forever	
c. extreme water level	optical disk	**	forever	
3. Discharge		·		
a. discharge measurement	optical disk	**	forever	
_			1010101	
Rating Table	optical disk	**	forever	
5. Sediment				
a. sediment concentration	optical disk	**	forever	. 1.
b. particle size	optical disk	**	forever	, .
c. grain size	optical disk	**	forever	l ·
d. percentage of void	optical disk	**	forever	t ii
			1010101	
. Water Quality	optical disk	**	forever	
Station Information	:			
a. inventory	optical disk	**	forever	
b. inspection sheet	optical disk	**	forever	
. Cross Section Survey	optical disk	**	forever	
0. Error Report	optical disk	**	forever	
E. Output List	paper	**	forever	Service of the servic

-; These data will not be stored.

Note: \*: \*\*:

<sup>—;</sup> These data will not be stored. Note: —; These data will not be stored. It will depend on the field trip of staff
•The back up for original data will be made once a year.
•The back up for processed data will be made twice a year at the Central Office.
•The back up for processed data will be made every month at the Basin Office

Table 7.12 TRAINING ITEM

Trainee	Target		Trair	Training Item	
	108mv	Introduction	Observation	Data Processing	Analysis
Newly Employed Staff	Introduction on the DHM works	Outline of the DHM			
Field Assistant	Correct observation Necessity of according to the DHM hydrological and observation manual	Necessity of hydrological and meteorological data	Observation method The way to maintenance of gauge		
Junior Hydro- Meteorological Assistant	Correct observation including site inspection and data entry	Data processing in the DHM	Observation method Inspection of station	Basic knowledge on computer Data entry	
Senior Hydro- Meteorological Assistant	Correct data processing according to the DHM data processing manual	Data checking in the DHM General knowledge on meteorology and hydrology	Water quality	Data processing in the DHM according to the operation manual on data processing and data base software	
Engineer	Full responsibility on data quality	Management	Total knowledge on observation Planning of observation Network Calibration	Data checking in the DHM Maintenance of computer	Precipitation analysis Stream flow analysis

Table 7.13

REQUIRED NUMBER OF TECHNICIANS IN BASIN OFFICE (Alternative Plan: Basin Office)

Total	(36) (18 teams)			(3)	99
Basten Office	Branch Office	3.00	1.75	Kamala Koshi Kankai	(9)
Central Office	Kathrr- Simla andu (2) (2) (4) (4) (2 teams)	2.00	3.00	Bagmati (2)	9
Westem Basin Office	Musikot Pokkara Jomson  (2) (6) (2)  (8) (4 teams)	3.67 (2.75) *1 9.00	3.17	Gandaki (2)	(1)
Far Western Basin Office	Branch Office           Nepal         Bannga         Chainpur         Simikot         Jumla         Musikot           4         2         2         2         2         2           (14)         (7 teams)         (7 teams)         (2)         (2)         (2)	2.17	1.75	Mahakari         Kamali         Babai         W.         Tinau           2         2         2         2         2           10         10         2         2         2	(24)
Basin Office	Observation Unit	Number of Number of Primary Station Teams Number of Number of Teams	ordii ion jon	Basic Staff  Of Staff	Total Number of Staff

Note: Two extra staffs (1 team) are employed in each basin office.

\*1: Calculated value includes extra staff

Table 8.1 TRAINING ITEM FOR IMMEDIATE PROGRAMME (1/2)

		Training Item		T	raining H	our	
		Training from	N	F	J	S	E
1.		oduction					
	1.1	Outline of DHM	1				
	1.2	Observation of DHM	1	1			
		Data Processing in DHM	1		1		İ
		Data Checking in DHM	1			1	
	1.5	Analysis				,	1
		Sub-Total	4	i	1	1	1
2.	Obs	ervation					
	2.1	Precipitation					
		2.2.1 General	1	1	1		
		2.2.2 Observation Network			1		3
•		2.2.3 Manual Gauge		1	1		
		2.2.4 Recording Gauge (Weighting Type)		5	1		- 5
		2.2.5 Recording Gauge (Other Type)					
	2.2	Snowfali					1
	2.3	Rainfall					
		2.3.1 Radar					5
		2.3.2 Satellite					1
	2.4	Snow cover			1	ļ	
	2.5	Evaluation			1		
	2.6	Water Level	1			.	
		2.6.1 General	1	1	1		
		2.6.2 Observation Network		·		-	3
		2.6.3 Manual Gauge		1	1		-
		2.6.4 Recording Gauge (Float Type)		5	1		
		2.6.5 Recording Gauge (Other Type)				j	5
-	2.7	Discharge Measurement					. –
		2.7.1 General	1	1	1		
		2.7.2 Current Meter		5	5		
		2.7.3 Float					5
		2.7.4 Other Way			l		5
	2.8	Sediment			[		_
		2.8.1 General	1				-
		2.8.2 Selection of site	] [				2
		2.8.3 Suspended-Sediment		İ	. [		_
		2.8.3.1 Sampling		1	1	ľ	
		2.8.3.2 Sediment Concentration		.	_	5	j
		2.8.3.3 Suspended-Sediment Discharge		.		-	2
_		Sub-Total	4	21	14	5	37

TRAINING ITEM FOR IMMEDIATE PROGRAMME (2/2) Table 8.1

		The Late Control of the Control of t		Tr	aining H	our	
		Training Item	N	F	J	S	E
3.	Data	Processing					
	3.1	Computer					
		3.1.1 General Knowledge on Computer			1	-1	
		3.1.2 General Knowledge on Software			1	: .1 .	
		3.1.3 Data Base Software				15	
		3.1.4 Application Software				30	30
	32	Procedure		Ì			50
	J.L	3.2.1 General				1	<u> </u>
:						1	1
		3.2.2 Preliminary Data Checking	1			1	, 1
		3.2.3 Data Entry				1	
		3.2.4 Determination of Rating Curve			1 1	5	5
		3.2.5 Estimation of Discharge				1	1.
		3.2.6 Data Processing Checking					5
		3.2.7 Overall Checking		100			15
		3.2.8 Final Checking			1	:	1
		3.2.9 Deal with Error				1000	1
		3.2.10 Emergency Case		1		1	. 1
		Sub-Total	0	1	3	57	60
4.	Dagi	c Knowledge	Ü	1	,	"	. 00
7.		<del></del>					
		Meteorology				5	
		Statistics in Hydrology Analysis				5	İ
	4.3	Precipitation				5	
		Hydrograph		}		5	
	4.5	Hydrologic Losses				5	
	4.6	Stream Flow				5	·
		Sub-Total				30	
5.	Ana	lysis	}				
	5.1	General	1	<u> </u>			1
	5.2	Precipitation					
		5.2.1 Mean Area Precipitation			100	İ	5
		5.2.2 Depth-Area-Duration Analysis			ŀ		5
		5.2.3 Probable Maximum Precipitation					5
		5.2.4 Rainfall Frequency					5
		5.2.5 Rainfall Intensities					Ī
	~ ^	•					5
	5.3					ļ ·	
		5.3.1 Low Flow Analysis				İ	15
		5.3.2 Flood Frequency	:			l	15
		5.3.3 Runoff Relations with Rainfall					15
		Sub-Total					71
6.	Mar	agement					
	6.1	· · ·		1	1	1	1
		How to Instruct Observer		-		. 1	
•		Management on System		1		1	.5
	_0,5			1	1	2	7
		Sub-Total		1	1.	·	
		Grand Total	8	24	19	95	176

N : Newly employed staff F : Field assistant Note

: Junior hydro-meteological assistant: Senior hydro-meteological assistant: Engineer S E

Table 8.2 TOTAL NUMBER OF REQUIRED ENGINEERING STAFFS (1/2)

	Office	Remarks	Number of staff
1. (	Central Office		
1.1	Evaluation Division	Chief	1
1.2	Data Management Division	Chief	i
	· · · · · · · · · · · · · · · · · · ·	Staff	2
1.2.1	Management Section	Juli	~ .
1.2.1.1	Progress Control Unit	1	1 ,
1.2.1.2	Quality Control Unit	Chief	1
1.2.1.2	Quanty Connor Out		1
		Data Processing Staff	4
	Tala a	Observation	1
	Laboratory	Chief	1
:		Sediment	2
	***	Water Quality	2
:	Workshop	Chief	1
	. :	Observation Equipment	4
	<u> </u>	Computer Maintenance	2
	Sub-Total (1.2.1)		19
1.2.2	Data Arrangement Section	Chief	1
1.2.2.1	Data Storing Unit	Chief	1
		Data Arrangement	2
		Maintenance of Software	1
1.2.2.2	Data Dissemination Unit	•	4
1.2.2.2	Data Dissemination Ont	Staff ·	2
	Sub-Total (1.2.2)		10
	Sub-Total (1)		33
2. B	asin Office		
2.1	Far Western Basin Office	Chief	. 1
a	Data Arrangement Unit	Data Entry	1
		Data Processing	2
ь	Observation Unit	, and a rootstang	4
c	Laboratory Unit		2
d	Workshop Unit		3
	Sub-Total (2.1)		13
2.2	Western Basin Office	Chief	1
a	Data Arrangement Unit	Data Entry	1
		Data Processing	2
b	Observation Unit		6
c	Laboratory Unit		2
d	Workshop Unit		2
•	Sub-Total (2.2)		14
2.3	Central Basin Office	Chief	1
a	Data Arrangement Unit	Data Entry	1
		Data Processing	2
b	Observation Unit	17 mar 1000ssnig	2
c	Laboratory Unit		0
d	Workshop Unit		0
<u> </u>			<del>-</del>
	Sub-Total (2.3)	Clic	6
2.4	Eastern Basin Office	Chief	1
а	Data Arrangement Unit	Data Entry	1
		Data Processing	2
ь	Observation Unit		4
С	Laboratory Unit		2
d·	Workshop Unit		2
	Sub-Total (2.4)		12

Table 8.2 TOTAL NUMBER OF REQUIRED ENGINEERING STAFFS (2/2)

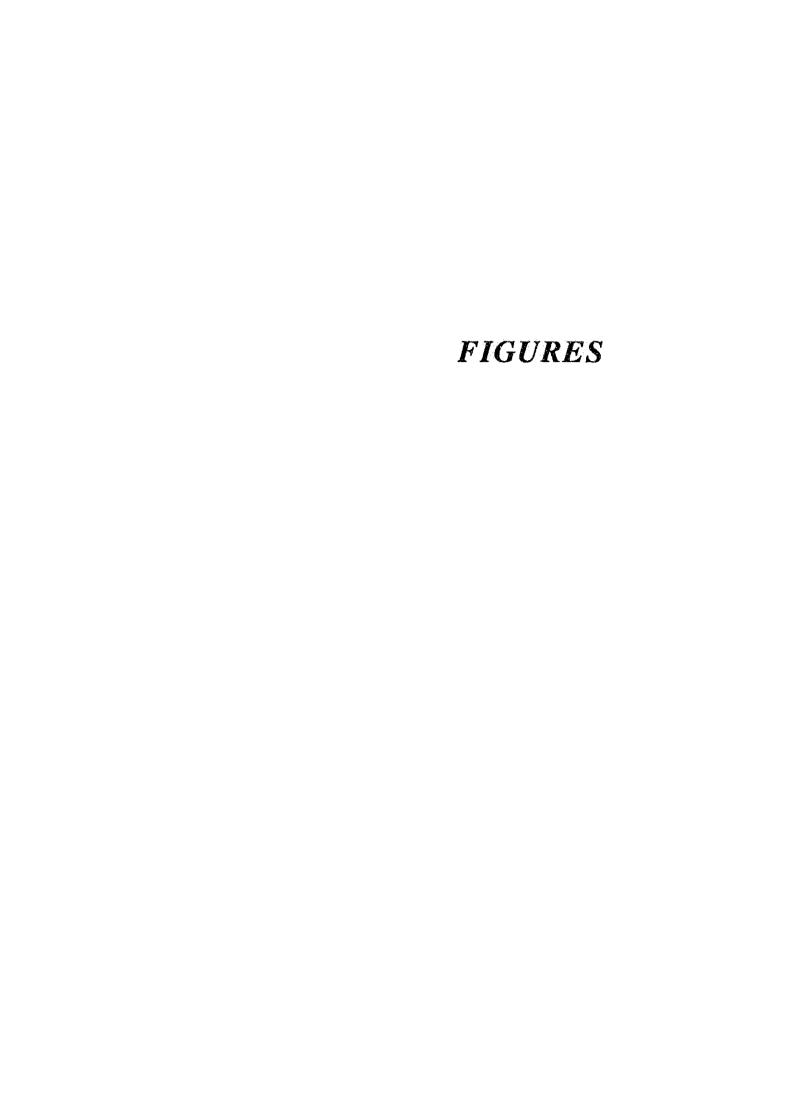
	Office				Remarks			Numbe	r of staff
3.	Branch office						************		***********
3.1	Bannga		l					1	2
3.2	Chainpur		1						2
3.3	Simikot					*		1	2
3.4	Jumla	•						1	2
3.5	Musikot								2
3.6	Jomson							1	2
3.7	Simla								2
3.8	Okhalding								2
3.9	Khadbari	·							2
3.10	Taplejung								2
	Sub-Total (3)							2	0
4	Basic Station								
4.1	Mahakali								2
4.2	Kamali	÷							2
4.3	Babai	·							2
4.4	West Rapti						•		2
4.5	Tamur	.						:	2
4.6	Gandaki								2
4.7	Bagmati	•						1	2
4.8	Kamara	·				4		le e	2
4.9	Koshi								2
4.10	Kankai								2
·	Sub-Total (4)			<del></del>	······································			2	0
5	Synoptic Station								
5.1	Dandeldhura						:	4	2
5.2	Dhangadhi	į					**		2
5.3	Dipayal							] - :	2
5.4	Surkhet	į						: : :	2
5.5	Jumla	-		-					1
5.6	Ghorai	•							2
5.7	Bhairhawa	]						i	2
5.8	Pokhara								2
5.9	Simla	1				•			1
5.10	Kathmandu	. [						1	2 .
5.11	Okhaldhunga							1	1
5.12	Dhankuta	l					· · · · · ·		2
5.13	Biratnagar	l							2
5.14	Taplejung								l .
	Sub-Total (5)							20	)
	Grand-Total	. 1						131	2 .

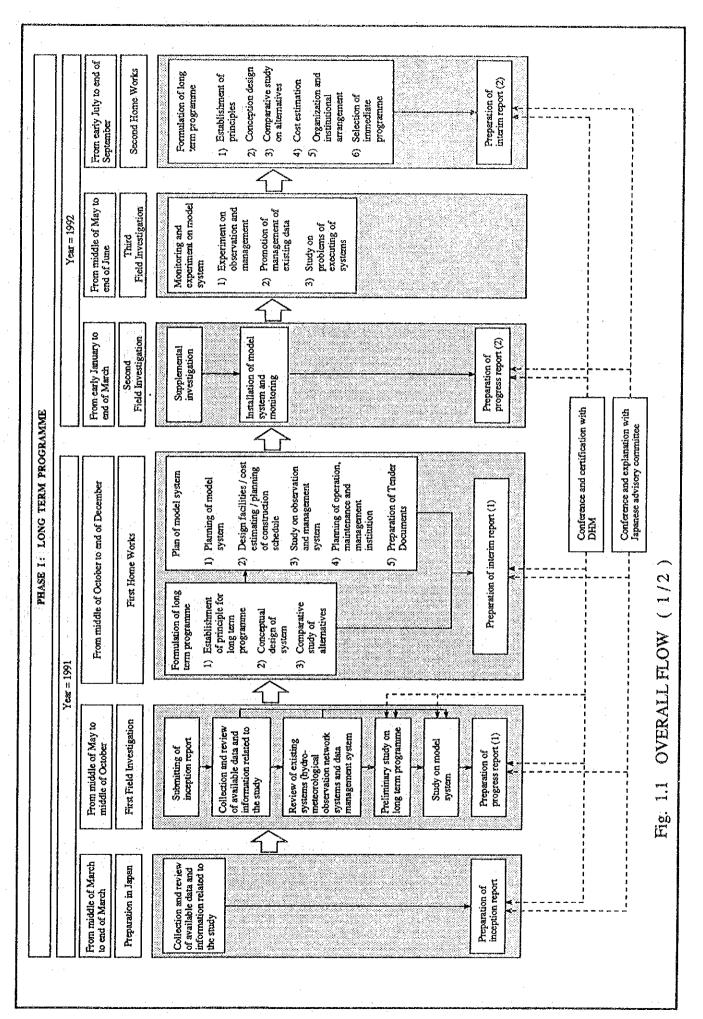
Table 10.1 EQUIPMENT FOR THIS PLAN

EQUIPMENT AND MANPOWE					STST				ONDS			T===			IAD ST		T	722	GPAN
	-	SYSTEM	1993	1994	1995	TOTA	11996	1997	1998	1999	5000	TOTA	2001	5005	2003	2004	13002	TOTA	(TOTA
1. Computer System	+		<del> </del>			<b> </b> -					·····				├	<del> </del>		<del> </del>	-
(1) Design and Programming		<del> </del>	ļ. ——	<del> </del>	<b> </b>	<del> </del>	<del> </del>		<del> </del>			<del></del>				+		<del> </del> -	
Basic Design	MM		3		·	3						0			1			0	·
Detail Design	MM			3		3						0				2	<u> </u>	2	
Programming (Foreigner)	WM			5	5	10					· · · · · · · · · · · · · · · · · · ·	. 0	· · · · ·		1	4		4	
Programming (Local staff)				25	26	50						0						0	5
System Test	M/M			- 1	1	1						0						0	
(2) Computer Instrument																			
Computer ( 1GB )				1		1						0						0	L
Computer ( 300 M8 )				L	4	. 4						0			<u> </u>	ļ		0	
Computer ( 100 MB )			<b> </b>	4	1	5						0				4	ļ	4	
Computer ( 40 MB )		6			<i></i>	0	L					0				ļ		0	
Printer	<u> </u>	6	Į	ļ	. 1	1	ļ					0				ļ		0	
Digitizer	4		<b>!</b>	1	4	5	ļ					0			ļ			٥	
X - Y plotter	<b></b>		ļ	!	- 1	5						0			<b> </b>	<u> </u>		0	
Optical disk device				:: 1	. 4							0			┞——	<b>├</b>	<u> </u>	0	
Optical system	<del>  </del>				<u> </u>	0					1	1		<u> </u>		<u> </u>	<u> </u>	0	
Photo copy machine	╄				5	5 5	ļ					. 0			<del>-</del>		<u> </u>	0	
UPS				1	4		ļ				·	0					<u> </u>	0	ļ
Co-processer Stavilizer and Spike suppo	J	6		7	11	18	<b>-</b>					0		<del></del> -		ļ	ļ <u>-</u>	0	2
Buffer	19561	- 0		4	· 11	18						0			<b> </b>	4		0	
Paper	Case	<del></del>	<b></b>	10		10	<del>  </del>	<del>  </del>				0		<del></del>		1		1	1
Floppy disk	Box		<b></b>	10	<del></del>	10					—	0				5	<del>                                     </del>	5	
Optical disk	1			2		2						0	$\vdash$			-		0	
ink ribbon			[	10		10							$\dashv$			- 5		5	1
Cable for LAN	m		<b>├</b> ─┤	380	20	400						— <u>ŏ</u>				400		400	
Terminater				2		2						0				8	-	8	1
Ruter	1					0	i			-		0			٠.	5		5	
Modern						0						Ð				5		5	
Reapster	1				3	3						0		1.1		- 1		. 0	. ;
LAN board				5	. 2	: 7					- 1	0				8		. 8	1
(3) Software				[															
Operation system				5	. 5	10						. 0				4		4	1.
DBMS for server machine			·	1	. 4	- 5						0						0	
DBMS for cliant machine				5	2	7			•			0				8		. 8	11
LAN	11			1		1				1		0				1		4	
Graphical software	11			6	10	16						0				4		4	20
Vaccine				1	- 1 1	1						0				5		5	
Word perfect	1					0						0				5		- 5	
Other software		6	111	5	5	10						0		- '-		4		4	14
(4) Furniture and Installation																			
Alr conditioner				. 7	. 7	14						0						0	10
Furniture	iot				. 5	5					}	0						0	
(5) Staff training	MM	- , -			- 5	5	— <del> </del>			-+		0				5		5	
Foreign expert	INS/EA				3					+									1(
2. Training Center																			
(1) Computer Instrument														<del>-</del>			-1		
Computer ( 120 MB )	1	1				- 0				$\dashv$		0	-					- 0	
Computer ( 100 MB )	+			-+	4	- 4				-+	<del>1</del>	- 0		-		-+			
Printer	1	1				ō				_		0							
Digitizer	-					ĭ						ŏ					-+	- 6	1
X - Y plotter												ő						ő	
Optical disk device		1				0						0						0	
Optical system						ō						ō						0	-
Photo copy machine			- : -		1	1					1	0						. 0	1
UPS			·			0						ō				- 1		o	C
Co-processer			~	-	1	1						0	i					ō	: 1
Stavilizer and Spike suppe	16881	1			7	7						0						o	7
Buller						0						0						0	(
Cable for LAN					100	100		T				0						0	.100
Terminater					2	2						0						0	2
LAN board					4	4						. 0					$\Box$	0	- 4
(2) Software	$\Box$										]					$\Box$			
Operation system	لنا			.	- 5	5					]	0						0	
DBMS for server machine				l	1	1						0				1		0	1
DBMS for cliant machine					4	4						0						0	
LAN	L[	l			1	. 1								I					
Graphical software					5	- 5						0						0	
Vaccine	$\sqcup$				. 1	. 1						0	1					0	
Word perfect					4	4						0						0	4
Other software		. 1			5	5						0						0	
(3) Furniture and installation	<b> </b>																		
Air conditioner					1	- 1					<u> </u>	0	٠					0	
Furniture	iot	I			1	. 1				$\perp$		0			1			0	1
								- 1	1			- 1							

Table 10.2 DIRECT COST

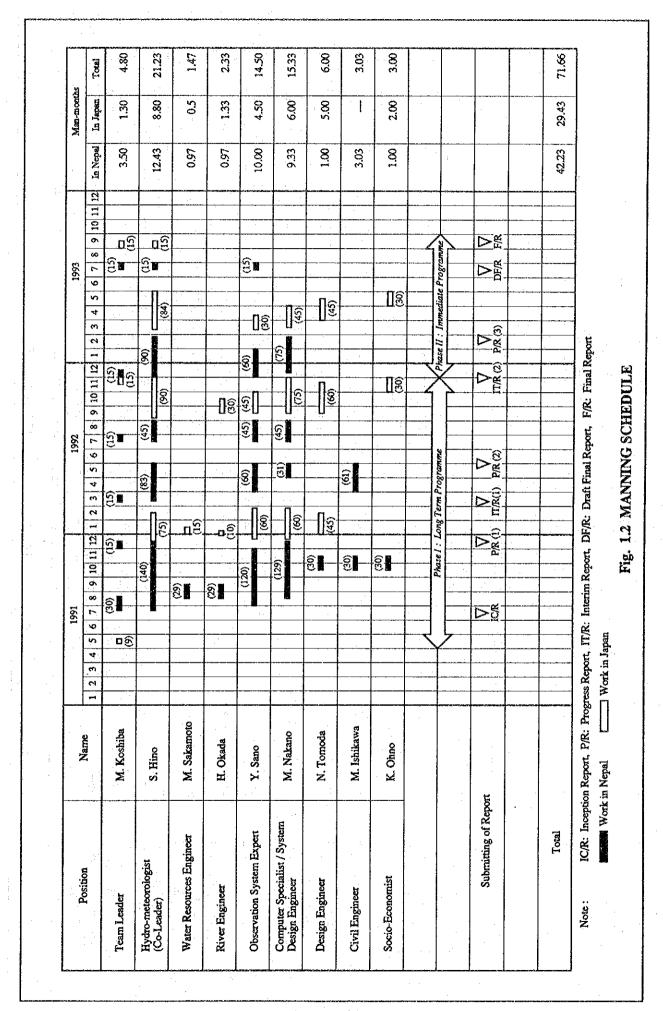
								DIRECT		( NRs. 1	000 )	·						
EOUPHENT AND MANPOWER	COST	1993		RST STA	GE TOTAL	1996		1998	AGE 1999	2000	TOTAL	2001		2003		2005	TOTAL	GPWND TOTAL
		T																
Computer System     Design and Programming		l	<del></del>						<b></b>		<del> </del> -			ļ	<b></b>			<del> </del>
Basic Design	1,043					. 0										0	0	
Detail Design Programming ( Foreign Expert)	1,043					0		0	0									
Programming ( Local Expert )	100			2,500	5,000	ő												
System Test	1,043	0 400		1,043	1,043	0					8							
SUB-TOTAL	ļ	3,129	10,844	0,/30	22,731	<u>v</u>	- 0		1	<u>°</u>	1	0		0	6.258	0	6,258	28,989
(2) Computer Instrument																		
Computer ( 1GB ) Computer ( 300 MB )	1,084 514	0			1,084	0	0	- 0				0				0		1.08
Computer ( 100 MB )	324	0	1,295		1,620	0	0	0	0	0	0	0	0	0		0	1,296	
Computer ( 40 MB ) Printer	165				42	0										0		
Digitizer	77				385	0												I
X - Y plotter	299	0	299	299	598	0	0	0	0	0	0	0	0	0	0	0	0	598
Optical disk device Optical system	1,533				1,020	0							0					
Photo copy machine	115	0	0		575	ő	0						ō					
UPS	58				290	0	0	. 0		0			0					
Co-processer Stavilizer and Spike suppersee	77				308 90	0	0						0					
Buller	58	0	0	232	232	0		0	0	0	0	0	0	0	0	0	0	232
Paper Floppy disk		0			10	0	0		0	. 0			0			0		
Optical disk	8	0	16	. 0	16	0	0	0	0	Ò	Q	0	0			0		
Ink ribbon Cable for LAN per meter	1	0	10	0	10	0	Ó	0	0	0	0	0	0	0	5	0	5	15
Cable for LAN per meter Terminater	2 1	0			800	0	0.0			0		0	0	0	800	0		1,600
Ruter	269	0	Ö	0	0	0	0	0	. 0	0	0	. 0	0	0	1,345	0	1,345	1,345
Modern Respeter	39 77	0			231	0	0	0		0			0	0	195	0		
LAN board	16	0	80	32	112	0	0	Ò	0	0	0	0	0		128	0		
SUG-TOTAL		0	3,951	5,550	9,501	0	0	0		1,533	1,533	0	0			0	3,808	14,842
(3) Software			<del> </del>				-				ļ				-			ļ
Operation system	12	. 0			120	0				0	: 0	. 0	0		48	0	48	165
DBMS for server machine DBMS for cliant machine	550 72	0			2,750 504	0	O O	0		0	0	0	0	0	576	0	576	
LAN	375	<del>ö</del>			376	0	0	0		0		0	0			. 0	1.504	1,080
Graphical softwere	42	0			672	Ó	0	. 0		0		0	0	0	168	0	168	840
Vaccine Word perfect	39	0			39 152	0	0	0	0	0		0	0	0	195	0	195	234 342
Other software	61	. 0	305	305	610	0	ŏ	ő	0	. 0		0	ŏ			ő		854
SUB-TOTAL		0	1,942	3,281	5,223	. 0	Ó	0	0	0	0	0	0	0	2,925	- 0	2,925	8,148
(4) Furniture and Installation																		
Air conditioner	50	0			700	0	0	0	0	0		0	0	0	0	0	0	700
Furniture SUB-TOTAL	100	0			1,200	0 0	0	0	0	0	0	0	- 0		0			500 1,200
			000	USU	1,200	<u>v</u>	Ť			<u>"</u>		Y		Ů	ŭ			1,200
(5) Staff treining Foreign expert	1,043	0	0	5,215	* 015													
SUB-TOTAL	1,043	0			5,215 5,215	0	0	0	0	0	0	0	0	0		- 0	5,215 5,215	10,430
									- ','									
SUB-TOTAL		3,129	17.087	23,654	43.870	0	. 0	0	0	1,533	1,533	- 0	0		18,206		18,206	63,609
			•			_ 1									70,200	Ť		V0,000
2. Training Center (1) Computer Instrument																		
Computer ( 120 MB )	324	0	0		- 0	0	0	- 0	- 0	- 0	0	0	0	0	0	0	0	0
Computer ( 100 MB )	324	0			1,296	0	0	0	0	0	0	0	. 0	0	0	0	0	1,296
Printer Digitizer	42 77	0	. 0		77	0	0	0	0	0	0	0	- 0	0	0	0	0	77
X - Y plotter	299	0	0	299	299	0	0	0	0	0	0	0	0	0	0	- 0	0	299
Optical disk device Optical system	1,533	0			0	0	. 0	0	0	0	0	0	0	0	. 0	0	0	0
Photo copy machine	1,533	. 0	0		115	0	0	0	0	0	0	- 0	0	0	0	0	0	115
UPS	58	0	. 0	0	. 0	9	0	0	0	0	0	0	0	.0	0	ö	0	0
Co-processer Stavilizer and Spike suppersser	77	0	0		77 35	0	0	0	0	0	0	0	0	0	. 0	0	0	77
Buller	5.8	0	0	0	0	0	0	0	0	. 0	0	0	- 0	Ö	. 0	0		35 0
Cable for LAN Terminater	2	0			200	0	0	0	0	0	0	0	0	0	0	9	0	200
LAN board	16	9	0		64	0	0	0	- 0	0	0	0	0	0	0	0	0	. 64
SUB-TOTAL		ó			2,165	ō	o	ō	ō	0	0	ő	0	0	Ö	ő	0	2,165
(2) Software														-				
Operation system	12	0	0	60	60	0	С		.0	- 0	0	0		- 0	o	0	0	60
DBMS for server machine DBMS for client machine	319	0	0		319	0	0	0	0	0	0	0	0	0	0	0	0	319
LAN	72 376	0	0	286 376	268 376	0	0	0	0	0	0	0		0	0	0	0	288 376
Graphical software	42	0	0	210	210	. 0	0	0	0	0	0	Ö	0	0	0	0	0	210
Vaccine Word perfect	39	0	0	39	39	0	0	0	0	0	C O	0	0	0	0	0	0	39 0
	61	0	0	305	305	0	0	ő	0	0	0	0	0	0	0	0	0	305
Other software		0	0		1,597	0	. 0	0	Ó	0	ó	0	. 0	ŏ	ő	0	. 0	1,597
SUB-TOTAL								$\dashv$										
														- 1				
SUB-TOTAL  (3) Ferniture and Instellation  Air conditioner	50	0	0	50	50	0	0	0	0	0	0	0	0	. 0	. 0	0	ō	50
SUB-TOTAL  (3) Furniture and Instellation Air conditioner Furniture	50 100	0	. 0	100	100	0	0	0	0	0	0	. 0	0	0	0	Ó	0	100
SUB-TOTAL  3) Furniture and Instellation Air conditioner Furniture SUB-TOTAL				100														
SUB-TOTAL  (3) Furniture and Instellation Air conditioner Furniture		0	. 0	100	100	0	0	0	0	0	0	. 0	0	0	0	Ó	0	100
SUB-TOTAL  3) Furniture and Instellation Air conditioner Furniture SUB-TOTAL		0	0	100 150 3,912	100 150 3,912	0	0	0	0	0	0	0	0	0	0	0	0	100 150

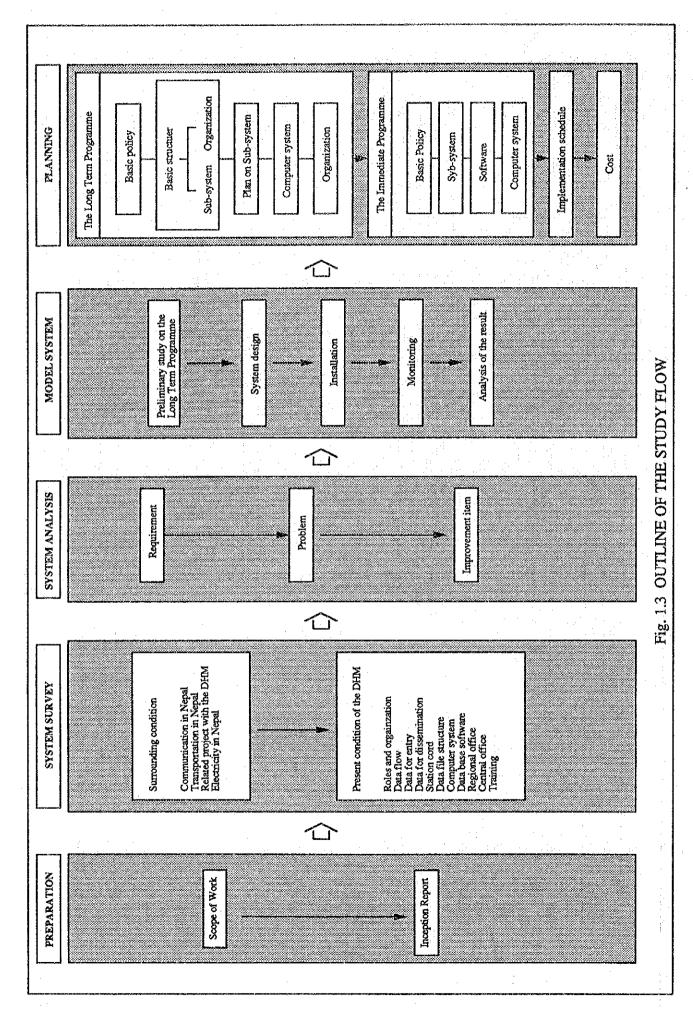




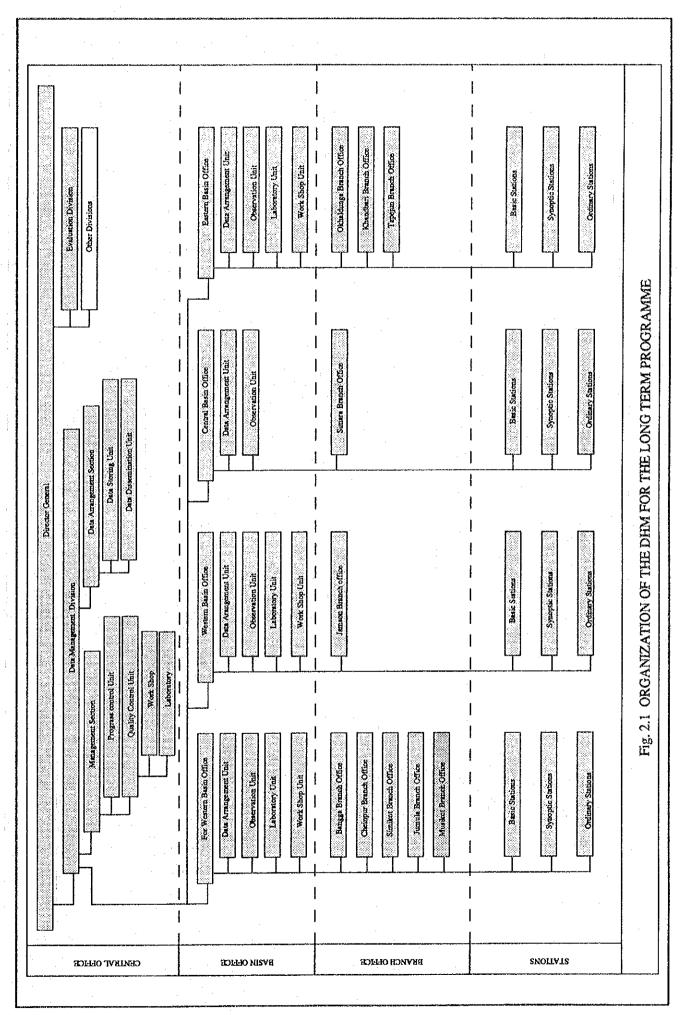
FF - 1

FF - 2





FF - 4



FF - 5

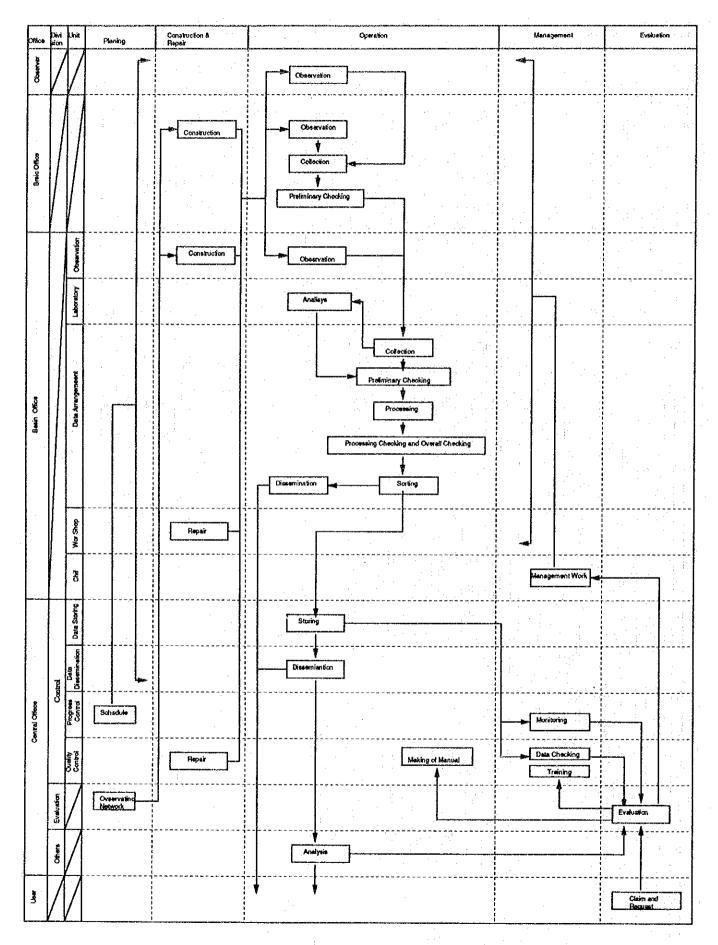
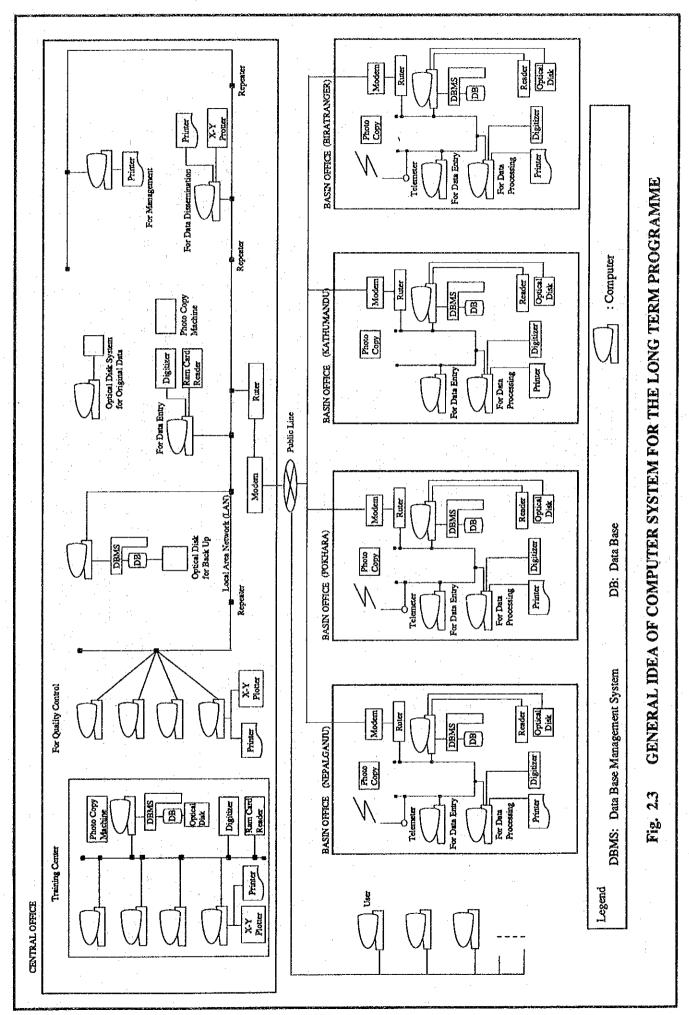
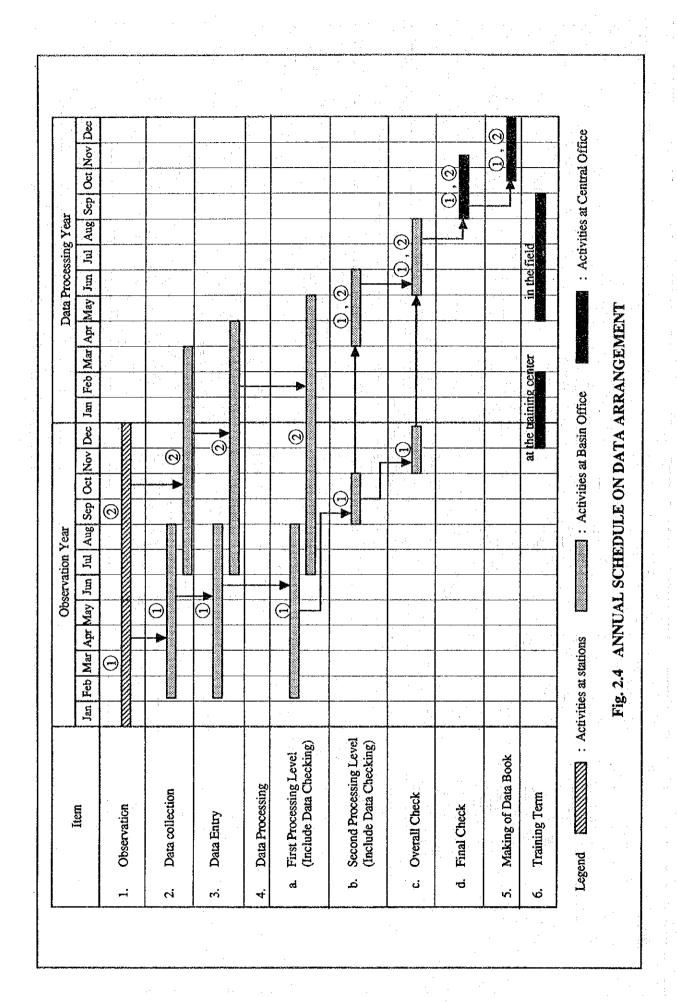


Fig. 2.2 ROLES OF EACH OFFICES IN THE DHM



FF - 7



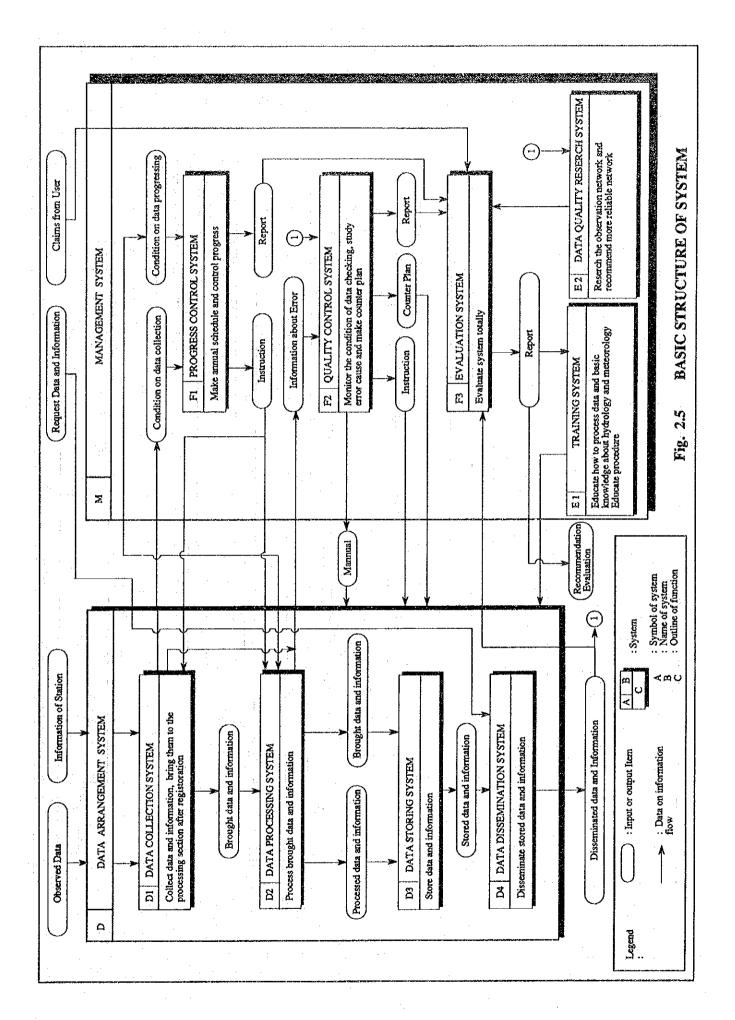
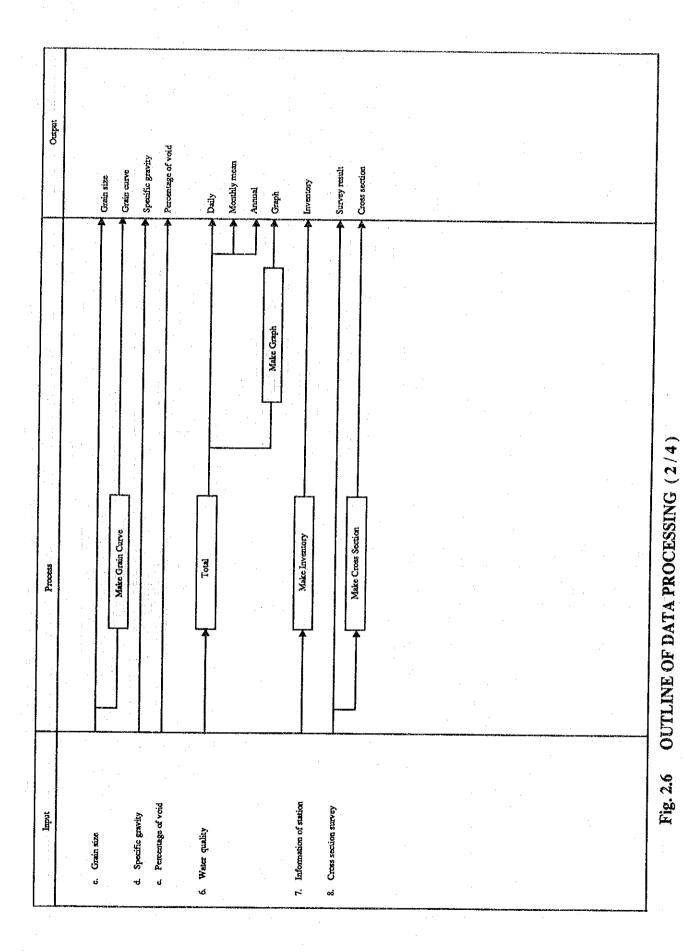
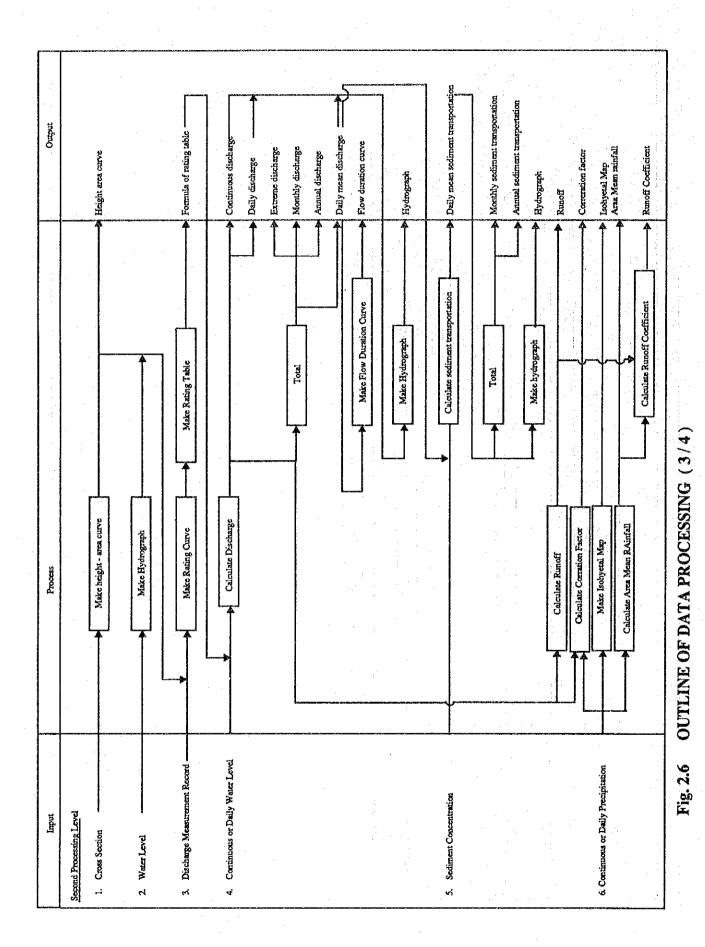


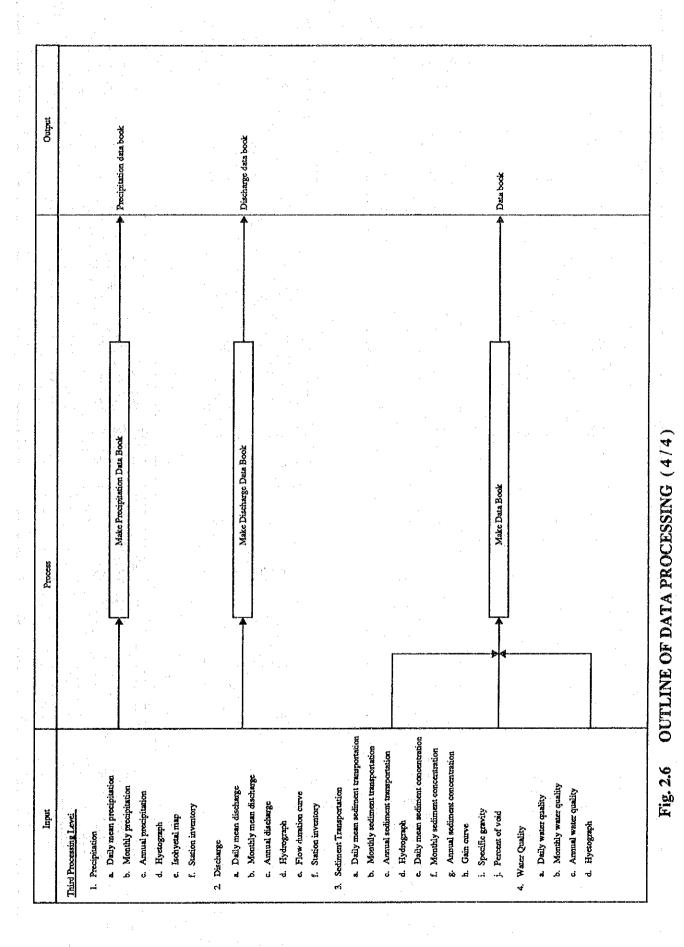
Fig. 2.6 OUTLINE OF DATA PROCESSING (1/4)



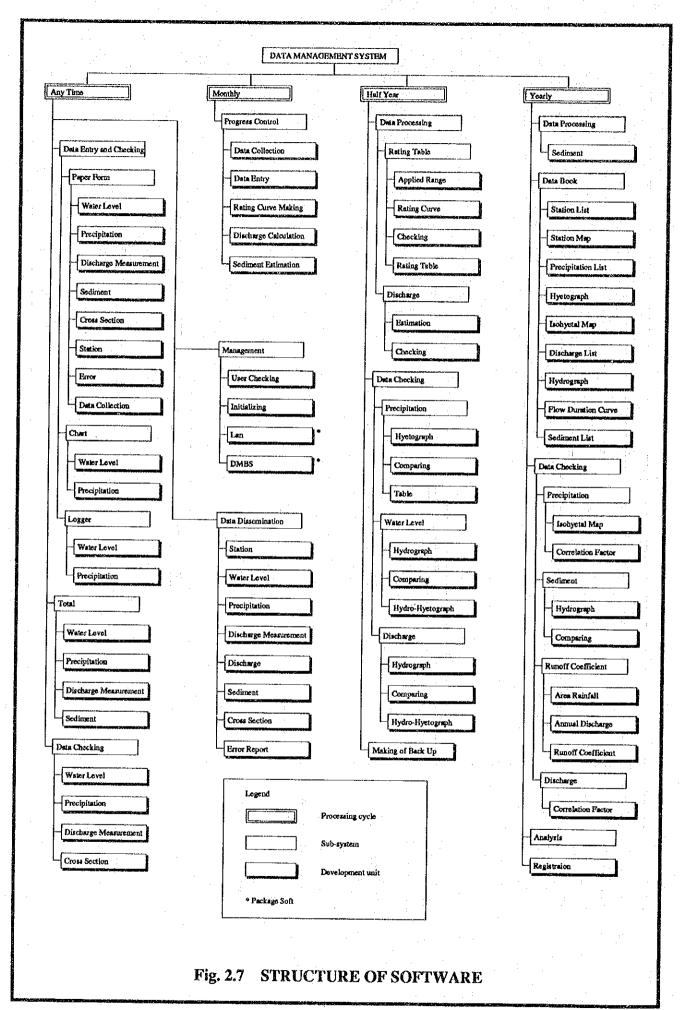
FF - 11



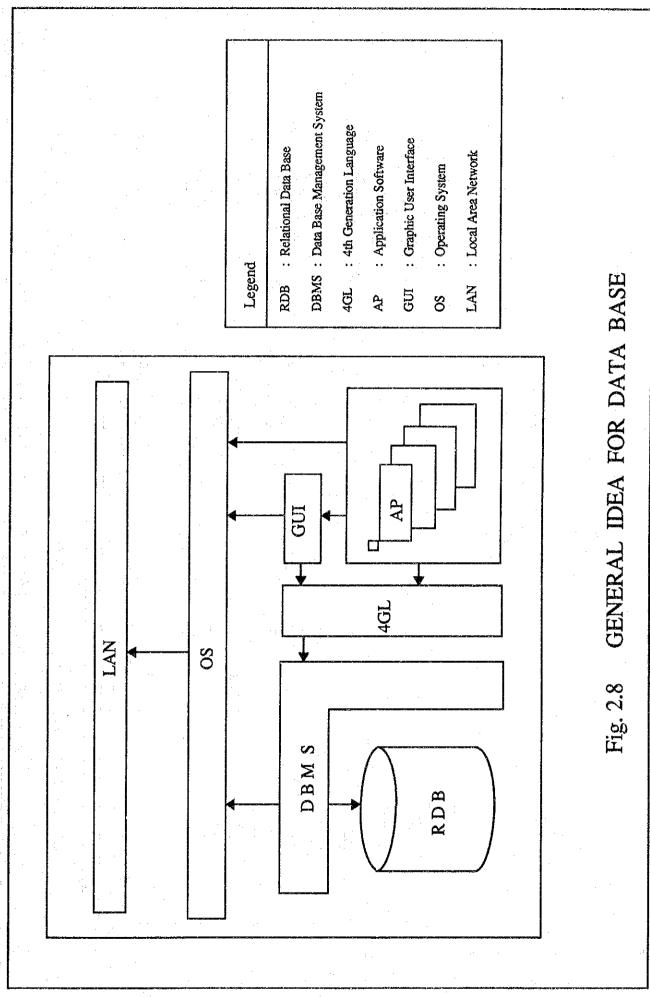
FF - 12



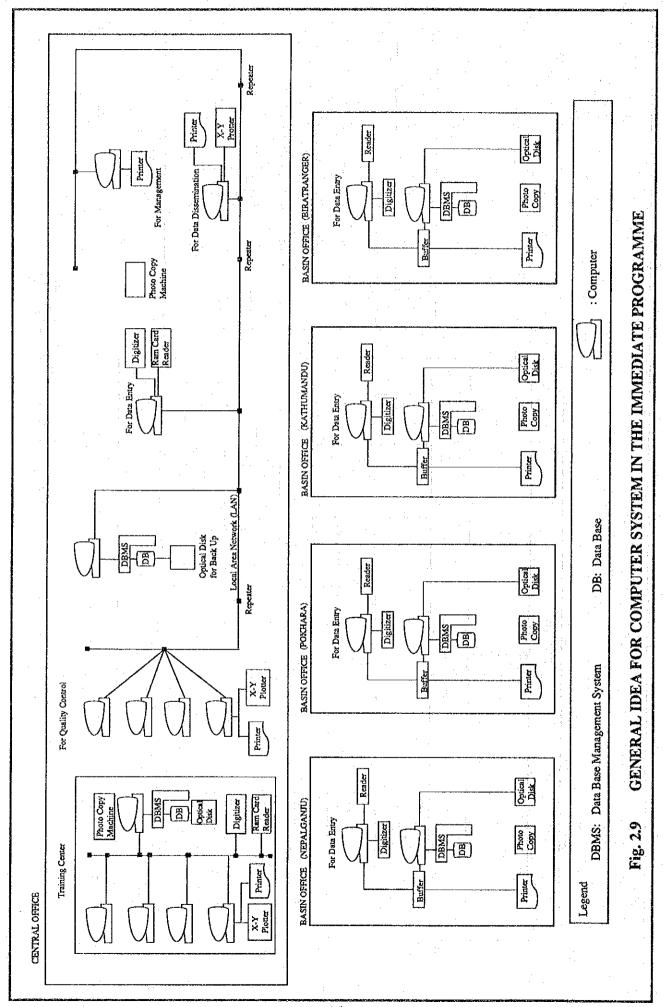
FF - 13



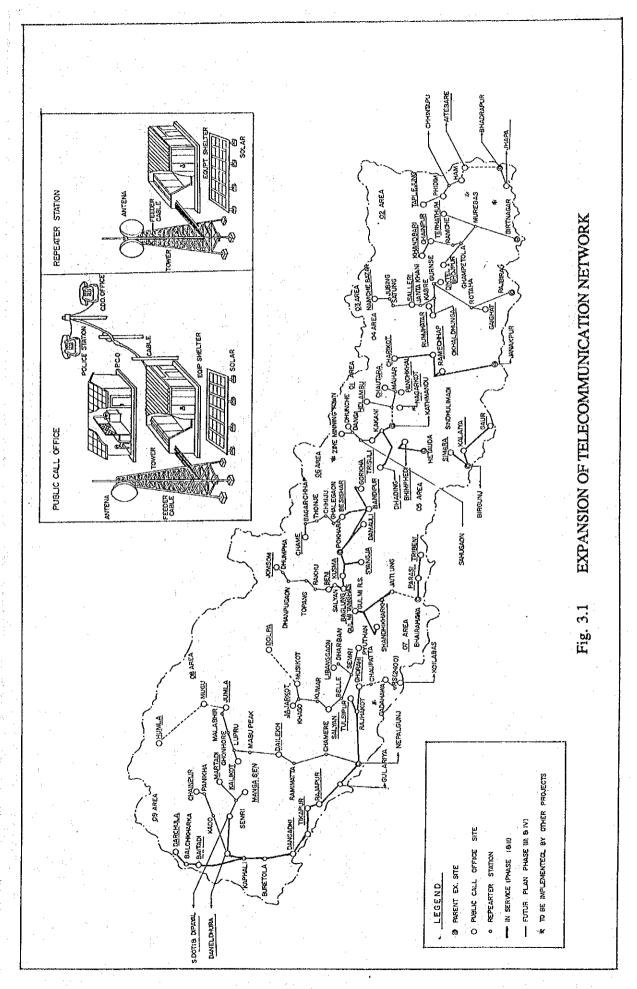
FF - 14



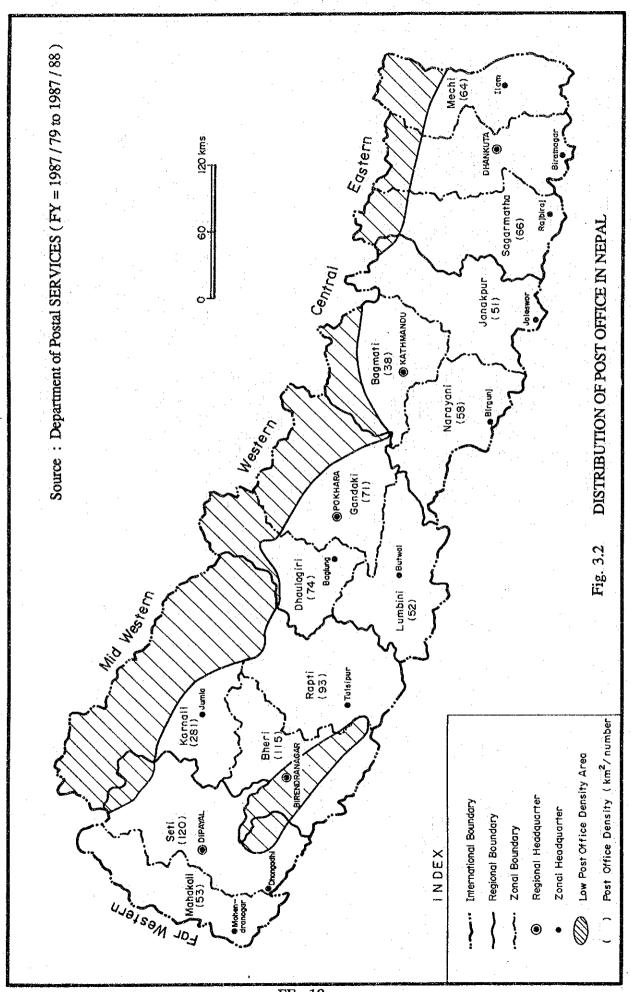
FF - 15



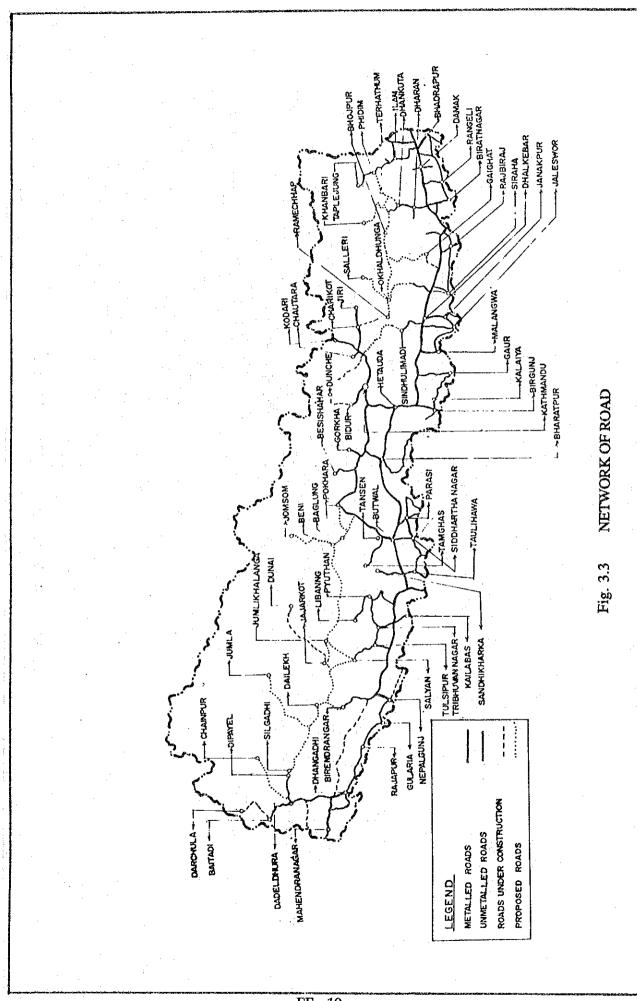
FF - 16



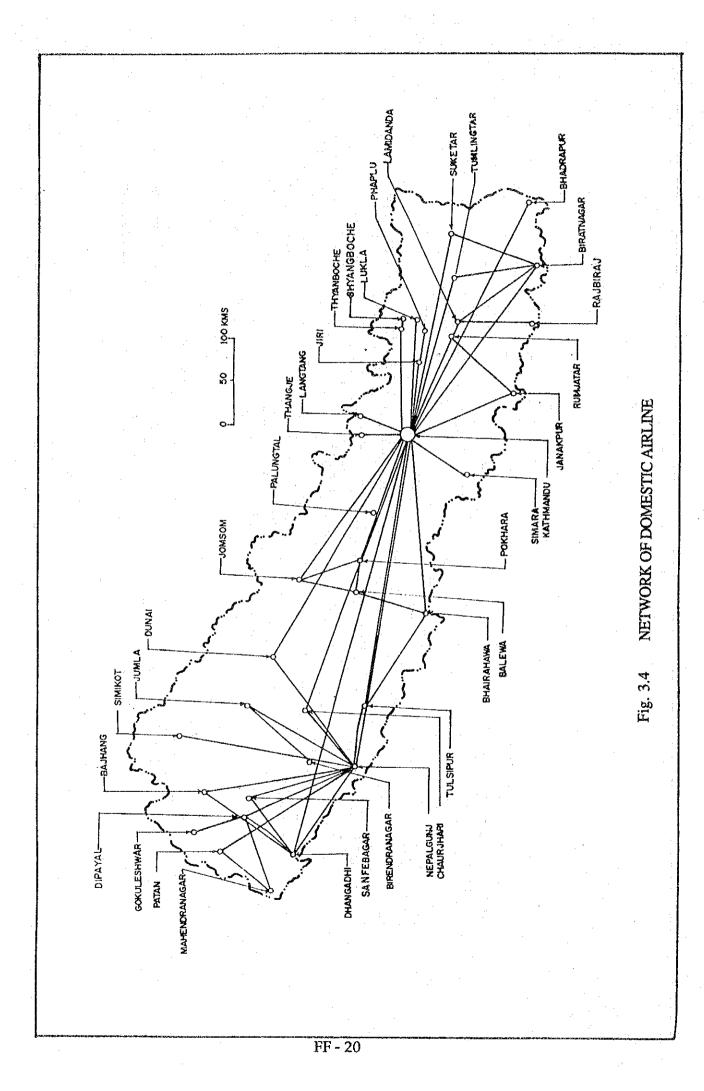
FF - 17

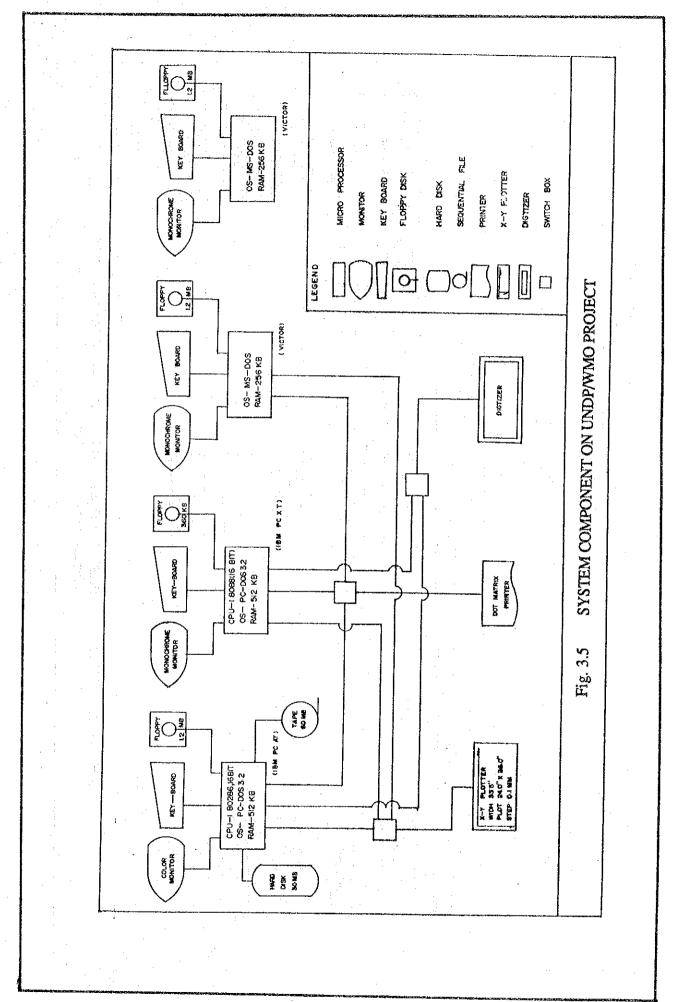


FF - 18

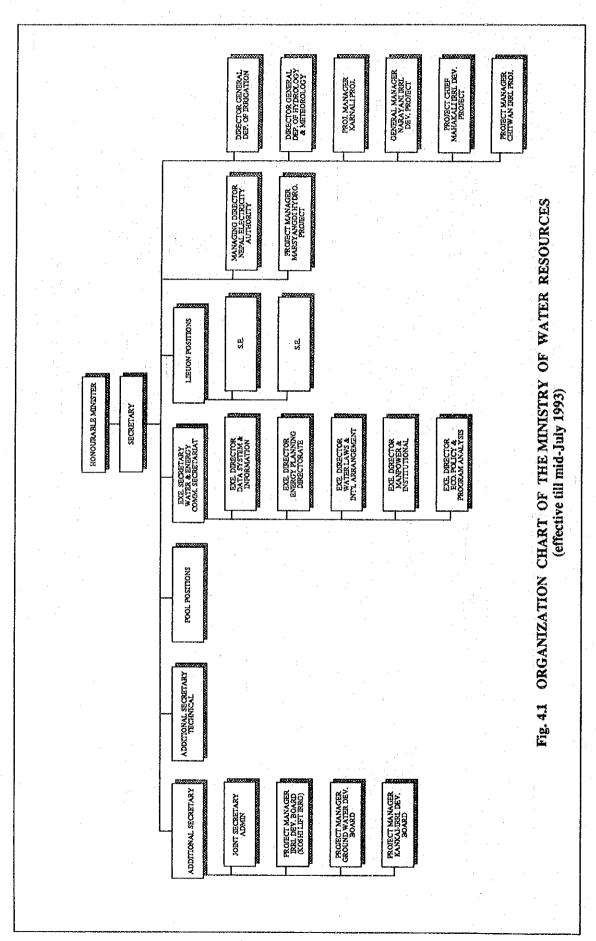


FF - 19

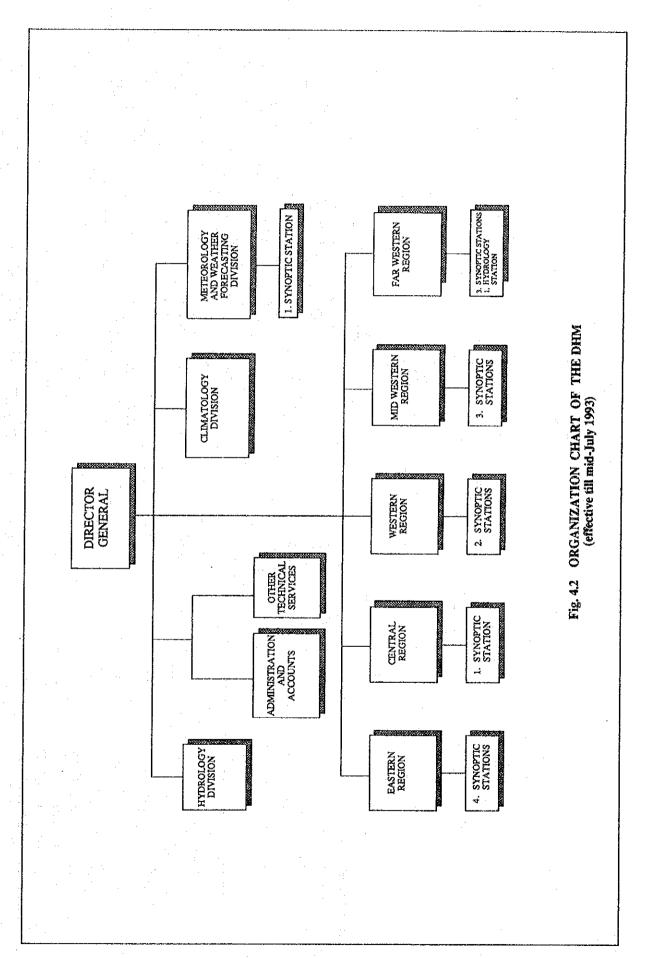


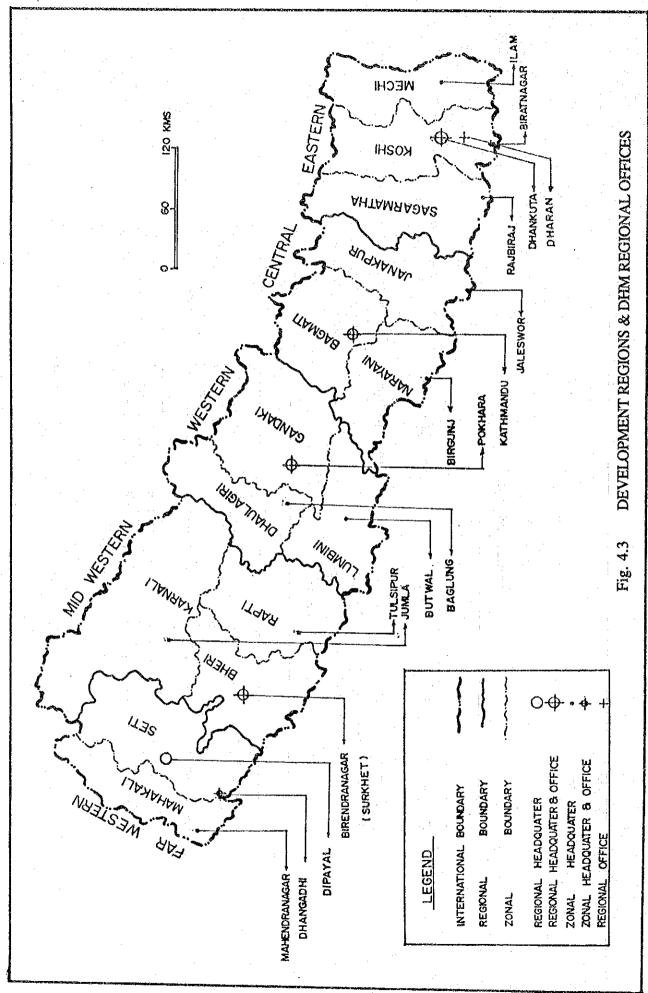


FF - 21

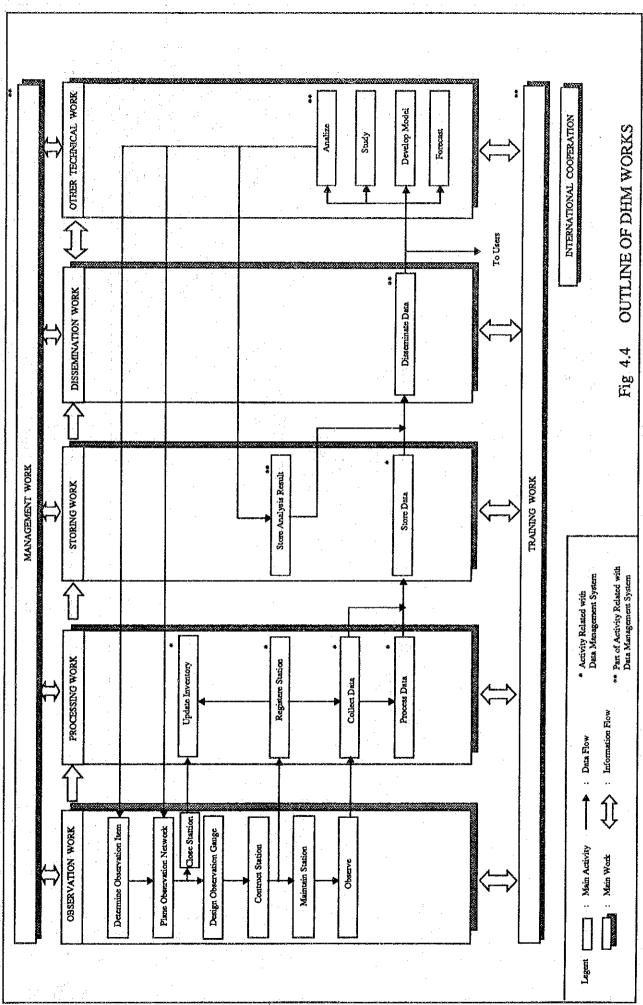


FF - 22

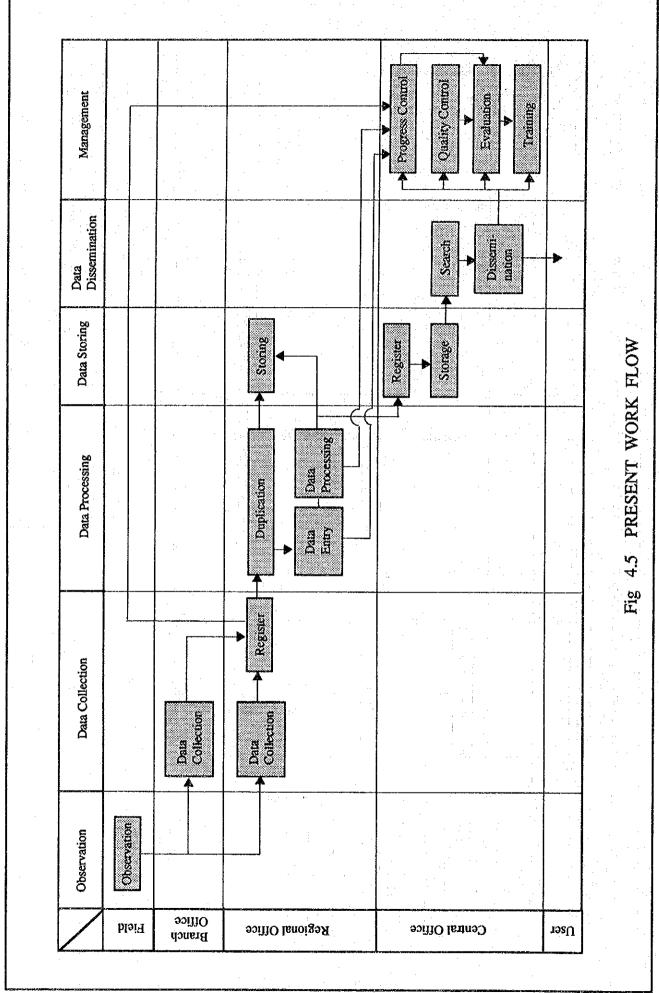




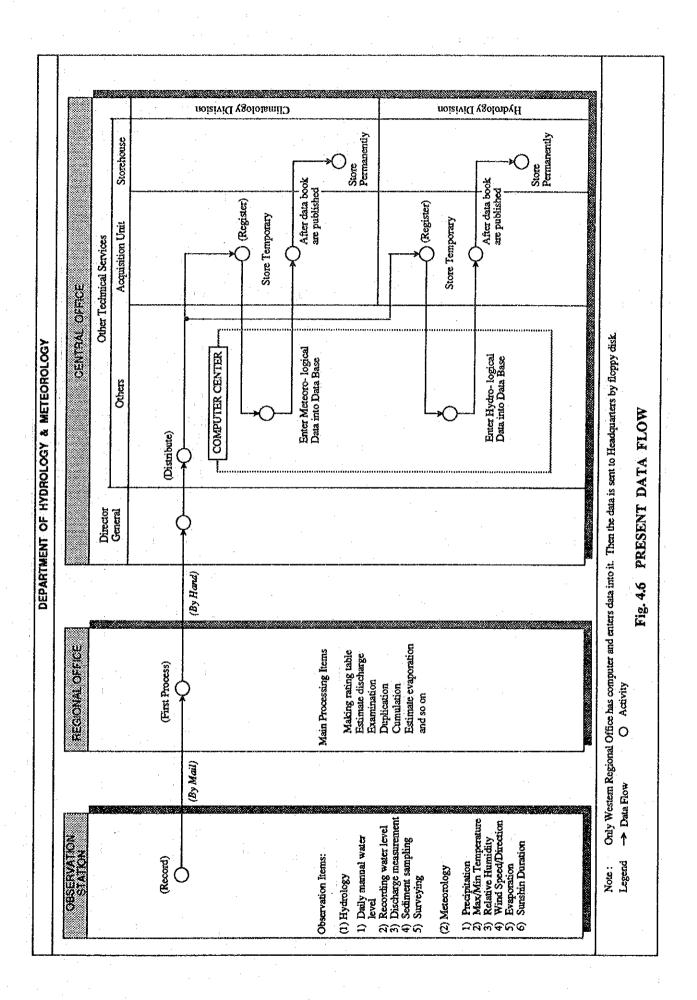
FF - 24



FF - 25



FF - 26



BASE	IBM PS/2 30	IBM PS/2 30	( 80286 (16 BIT)	512 KB	NO AA MB	FOR DATA ENTRY			
TEORÒLOGICAL DATA	IBM PS/2 30	IBM PS/2 30	80286 (16 BIT)	512 KB	ON ON GN	Ā			
HEADQUARTERS	. IBM PS/2 80	IBM PS/2 80	j 80386 (32 BIT)	89 W	43 MB	\₫.		JTER SYSTEM	
DHM DATA BASE	IBM PCXT	, IBM PC XT	8088 (16 BIT)	512 KB	.0 MB	FOR ANALYSIS		PRESENT COMPUTER SYSTEM	
HYDROLOGICAL	O O O MBI	IBM PC AT	i 80286 (16 BIT)	512 X	32 MB	DAT	2.	TER RECORDER FIG. 4.7	
WESTERN REGIONAL OFFICE	is we will be a second of the	IBM PC XT	i 8088 (16 BIT)	256 KB	3O MB	ATZ		PRINTER COMPUTER	
тем	SYSTEM	COMPUTER		AUTA =	L -HARD	FUNCTION	LEGEND		

