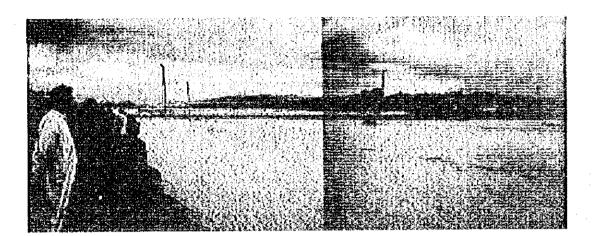
Annex B Meteorology and Hydrology



ANNEX B

METEOROLOGY AND HYDROLOGY

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ANNEX B METEOROLOGY AND HYDROLOGY

B.1 METEOROLOGY

B.1.1 Climate Data

The climatic data pertaining to rainfall, temperature, humidity and wind velocity are available at the several meteorological stations observed by the Department of Meteorological Services, Government of Pakistan. The records of Surface Water Hydrology Project (SWHP) undertaken by WAPDA are also available, besides old precipitation data observed by U.K. Meteorological Office in the colonial age. Available climatic stations and their data regarding the Study Area are shown in Fig.B.1.1 and Table B.1.1.

The meteorological factors of Quetta atation as a most common values in the Study Area are shown in Table B.1.2, and monthly rainfall data of other major stations concerning the Study Area are showen in Table B.1.3 to B.1.7.

B.1.2 Correlation Relation of Rainfall with Distance

There are limited available records of rainfall in the Study Area. Sometimes some rainfall sequence should be estimated using existing rainfall record in other meteorological stations in consideration with correlation relation between subjected site and the refereed station. Correlation relation of rainfall is influenced by distance. Relation between correlation coefficient of daily rainfall and distance was studied using actual daily rainfall sequence of 11 meteorological sites concerning the Study Area. Result of the study is shown in Table B.1.8 Fig.B.1.2 and Fig.B.1.3.

According to the result, it can be judged that little correlation relation is recognized when it is far from more than 100 km. Generally speaking, significant correlation relation of rainfall seems to be identified in the distance of less than 50 km, while other topographical influence suffers from lowering of the correlation coefficient.

B.1.3 Probability Analysis of Short Term Duration Rainfall

Despite of scarce amount of rainfall, short termed rainfall with high intensity curses particularly in summer season. There are a few meteorological stations in which hourly rainfall record is available. Table B.1.9 shows actual rainfall record in short duration of Killi Kotwal and Bandat Jungle stations. The difference of rainfall pattern between both seasons in typical compared in Fig. B.1.4.

Provable rainfall intensity within the Study Area were analyzed using each duration rainfall records at Killi Kotwal Station as follows: According to the result of analysis, significant difference in the provable rainfall intensity between both seasons were recognized.

Return perio	od .	Rainfall Duration												
•		μ	3hr		6hr		12	2h r	. 2	24hr				
	Winter	Summer	Winter Summer		Winter Summer		Winter	Summer	Winter Summer					
2 Years	8.5	15.5	4.5	8.3	3.1	4.3	2.1	2.5	1.2	1.3				
5 Years	- 13.1	20.9	5.9	12.2	4.1	6.1	3.1	4.3	1.8	2.4				
10 Years	- 16.1	24.5	6.9	14.8	4.8	7.4	3.7	5.5	2.2	3.1				
20 Years		28.0	· 7.8	17.3	5.4	8.6	4.4	6.6	2.5	3.7				
30 Years	20.6	30.0	8.3	18.7	5.8	9.3	4.7	7.2	2.7	4.1				
50 Years	22.7	32.5	9.0	20.5	6.2	10.1	5.2	8.0	3.0	4.6				
100 Years	25.5	35.8	9.8	22.9	6.9	11.3	5.8	9.1	3.4	5.3				
200 Years	28.3	39.2	10.7	25.4	7.5	12.5	6.4	10.2	3.7	5.9				

Provable analysis above were using records of the Killi Kotowal Station.

B.1.4 Typical Analysis for Recharge to Groundwater

Actual groundwater recharge is difficult to accurately estimate due to no uniformity of hydrogeologic condition in the area and topographic condition etc. However, amount of groundwater recharge ought to be sheared within amount of rainfall as well as actual evaporation and surface runoff. Though actual groundwater recharge is difficult to directly estimate, other rainfall apportionment of evaporation and surface runoff can be estimated through simple water economy calculation considering soil moisture history. Simple soil layer model having certain capacity of water was conceived. Soil moisture was calculated inputting infiltration which is rainfall subtracting surface runoff, outputting actual evaporation on the soil. Table B.1.10 shows daily water economy analysis applying typical conditions. General water economy in the Study Area by seasons are summarized in following table.

-	Components	Winter	Summer	through year
	Runoff*	5 - 8%	10 - 15 %	5 - 10 %
	Evaporation**	60 - 70 %	80 - 90 %	60 - 70 %
 	Recharge**	20 - 35 %	0-5%	20 - 35 %
	Raiofall	100 %	100 %	100 %

* :Runoff factor is an estimation using runoff records of Chapper Lift Station. ** :These figures were derived through the analysis.

B.2 WATER QUALITY

Some water quality study reports state that almost all water is good for drinking and irrigation use in the area. Exceptionally a bacillus contamination was reported in the tapped water at Quetta urban area, and possible salinity in some limited areas. The deep groundwater itself is commonly no problem in its quality.

Water quality in the Study area was tested to confirm its suitability for irrigation and drinking purposes. The water quality test was done for the 100 samples collected from tubewells, shallow wells, karezes, spring, etc. at the beneficial areas of the 10 existing and 13 proposed dams. The 14 test items are listed below.

General information: Temperature, pH

Salinity:

Electric Conductivity (EC), Total Dissolved Solid (TDS), Sodium Adsorption Ration (SAR)

Contamination and others: Chemical Oxygen Demand (COD), Biochemical Oxygen Demand (BOD) Cl-, NO2-, NO3-, NH4+ Suspended Solid (SS) E.coli., Common Bacillus

All results of the test are shown in Table B.2.1. The most important characteristic in water, salinity are summarized by site and water source in the following table, even though there are variances in data.

Results	of	Water	Quality	Test	(Salinity)
---------	----	-------	---------	------	------------

DAD	Number of	TDS	EC	SAR	Class**
	Samples	(ppm)	(µS)	(%)	(Average)
Existing DADs	an na an an Anna an Ann				
Khora Manda	4	935	1,446	12.0	C3S2
Marium	4	103	193	4.1	C1S1
Bostan	3	480	761	7.4	C3S1
Khushab	4	513	810	10.6	C3S2
Tirkha	3	760	1,183	10.5	C3S2
Amach	3	190	325	2.5	C2S1
Kad Koca I	3	150	265	4.5	C2S1
Gomad	= 4	1,857	2,833	22.4	C4S4
Laghnigir	- 4	503	795	3.7	C3S1
Sarbund*					
Proposed DADs					
Brewary	5	486	770	2.1	C3S1
Ghutai Shela	5	1,050	1,619	4.6	C3S1
Wali Dad	5	262	433	2.1	C2S1
Dara	5	328	533	7.7	C2S1
Murgi Kotal	5	356	575	12.3	C2S2
Kach	5	212	358	4.8	C2S1
Jigda	5	390	626	8.7	C2S2
Sanzali	5	618	969	9.1	C3S2
Arambi	- 5	184	316	. 1.1	C2S1
Sakhol	5	712	1,110	3.1	C3S1
Mangi	9	573	902	5.4	C3S1
Kad Kocha II	5	192	328	2.4	C2S1
Iskalkoo	5	208	352	2.1	C2S1
By Water Source			· · ·		
Tubewell	64	452	719	6.2	C2S1
Shallow Well	16	623	977	5.6	C3S1
Karez	7	319	518	7.2	C2S1
Spring	9	732	1.141	8.2	C3S2
Piped Water	4	551	868	6.2	C3S1

Note*: Included in Mangi area.

Note**: Refer to Fig. B.3.1.

Source: JICA Study Team

The values of TDS can classify water into 4 classes of low (< 500 ppm), medium (500 - 1,500 ppm), high (1,500 - 2,500 ppm) and very high (> 2,500 ppm). Almost all water in the test are low to medium salinity class in line with this standard. High salinity is observed in only 3 samples from shallow wells at Quetta urban area and very high in a sample of spring water at Gorpad area.

Regarding water salinity specially for irrigation use, another classification of water was done based on the combination of EC and SAR, as shown in Fig. B.2.1. About 70 % of the samples are in the classes of C1S1 (low salinity and low sodium) and C2S1 (medium salinity and low sodium). In the are of Gorpad, very high salinity and alkali hazard may occur on the crop growth when the water is used for irrigation. In the other areas proper selection and management of crops can avoid from such hazard. The other chemical and biological data show that almost all water can be used for both irrigation and drinking purposes.

In conclusion, the water quality in the area is suitable or possible for drinking and irrigation purposes. Salinity and alkali hazered is only a problem in irrigation use at the limited sites.

Table B.I.1 Rainfall Stations and Their Mean Monthly Rainfall Concerning the Study

Station	Ођ.	Elev. (feet)	Duration	Lat.	Long.	Jon.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
(Quetta District)			····															
Beleli	UK	-	1891 - 1946	30-15'	66-57'	45.0	43.4	35.6	17.5	4.1	2.8	5.8	5.6	0.5	2.3	5.6	25.9	193.8
Dirgi	UK	-	1891 - 1937	30-19	67-31'	36.6	47.2	37.1	19.6	8.6	8.9	25.7	17.0	4.8	4.6	5.1	23.6	238.3
Kach **	SU	6,350	1891 -	30-26	67-18	51.1	53.1	49.8	21.3	7.4	3.8	13.5	7.4	1.3	1.8	6.4	26.4	244.3
Killi Kotwal*,**	SW	5,700	1970-	30-15'	67-01'	44.4	38.9	56.4	17.8	4.3	4.1	8.4	12.7	0.8	0.0	2.5	23.1	221.2
Mangi	UK	-	1891 - 1937	30-21	67-30'	34.0	48.0	42.4	-16.5	6.9	6.4	17.3	9.9	3.0	3.6	4.8	22.1	213.0
Mud Gorge	ŲΚ	- '	1891 - 1908	30-23'	67-24	45.5	46.2	55.1	18.5	10.7	7.4	9.7	6.9	1.3	2.0	8.4	22.9	240.8
Quetfa**	PM	5,253	1891 -	30-15'	66-53'	49.8	49.5	40.4	21.1	9.4	4.3	11.2	7.4	1.0	2.8	6.1	28.2	230.1
Sariao	SU	5,640	1900 -	30-06'	66-59'	36.6	32.0	35.1	15.5	4.8	3.3	9.9	8.4	0.8	- 1.3	3.3	17.8	168.7
Urak	UK		1914 - 1946	30-16	67-11'	58.2	62.5	50.5	27.9	14.7	7.4	31.0	16.0	3.0	4.3	5.8	35.3	312.4
Wali Tangi *	SW	9,000			67-15	4						23.1	24.9	3.0	0.3	5.1	34.2	283.5
; (Qila Abudullah Disu	rict)																	
Chaman	ΟT	_ ÷	1893 -	30-56	66-27	52.6	46.5	38.1	18.3	3.0	0.5	3.0	. 1.0	0.5	3.0	5.3	32.5	211.8
Gulistan	ŪΚ	. '	1891 - 1949	1.1.1	· · ·			34.3		1.8	0.5	4.1	0.8	0.3			27.9	181.4
Qila Abdullah**	SU		1891 -		66-37					3.0		3.6		2.3	2.3			227.1
Shela Bagh	UK	• `	1892 - 1948					76.7				6.4				-	48.5	337.1
(Pishin District)																		
Bandat Jungle**	sw	L,500	1969.	30.00	67-25	480	ናስ ዩ	57.9	170	4.8	19	216	18.8	1.5	0.8	56	21.3	258.3
Barshore	UK	•	1909 - 1921						i.	5.6		7.1	7.6			11.4	:	285.5
Bund K. Khan	SU	-	1909 -		66-58					· 4.3				1.1			32.0	229.4
Bostan	UK	•	1891 - 1950	·								- 5.6 - 6.1		0.5	2.3			208.1
		÷																
Fullers Camp	UK		1891 - 1907					67.3				8.1						269.1
Khanai	UK		1891 - 1946									6.1						195.
Kuchlak	UK		1891 - 1950					36.6				- 7.1	2.8	1.3				191.0
Pishin**	UK		1891 - 1950				-	45.7				4.8	-	0.5	3.0			238.
Sabura	UK		1913 - 1919								-		29.2		1 A A		21.6	282
Saranan	UK		1895 - 1950		6.1.1			35.3								- 7.1		193.
Shebo	UK		1930 - 1946						· ·								28.7	213.5
Siran Tangi	SW	-	1961-		67-12				1.1		3.6			· · ·		4.6	-	258.0
Surkhab h/w	UK	•	1930 - 1946		1			36,1								2.8	î E	249.2
Syad Hamid	UK	t	1891 - 1915		×											- 11.4		210.8
Tor Morga h/w	UK		1930 - 1946					40.1									29.7	242.
Yaru Karez	UK	•	1891 - 1946	30-31	66-57	42.2	40.1	35.3	16.8	4.6	0.8	4.6	3.3	0.0	1.8	4.3	29.7	186.2
(Mastung District)		11												÷.,	· ·			De de
Abigum	ŲΚ	· · • ·	1896 - 1946	29-49	67-21'	22.1	23.1	16.8	6.9				20.1	3.3		2.0	9.7	133.9
Hirok	UK	-	1891 - 1946	29-56	67-14	64.3	75.2	20.6	18.3	1.0	15.0	39.4	29.0	8.4	2.8	6.6	22.8	309.9
Kanak	UK	- :	1906 - 1950	29-58	66-46	32.3	36.6	22.9	10.4	3.6	2.0	8.9	9.1	0.8	1.8	2.8	18.8	: 152.1
Kirda Gəp	UK	-	1906 - 1946	29-44	66-27	41.7	43.7	23.1	9.9	1.8	0.8	8.6	3.8	0.8	1.8	2.8	24.4	162
Kolpur	UK		1891 - 1950	29-54	67-08	45.5	37.3	31.5	11.7	4.3	3.8	19.3	13.0	2.8	2.8	4.1	20.8	196.0
Mach **	SU	3,200	1892 -	29-52	67-20	32.8	32.5	25.1	10.9	6.6	5.6	32.5	32.5	7.6	1.3	2.3	15.0	207.0
Mastung Road++	PM	-	1906 - 1960	29-51	66-50	37.1	42.4	22.9	11.2	3.0	2.0	- 4.1	2.8	0.8	1.8	3.6	17.5	151.
Mastung	ŪK		1911 - 1950								3.6						23.9	191.3
Shaikhwasil	' UK	- '	1907 - 1950	29-52	66-34'	58.9	43.2	24.4	12.7								34.8	190.5
Spezand	, SU	5,850	1901 -		67-00								4.3				17.2	
(Kalat District)	· .	:				1								N				
Kalat **	PM	6,617	1891 -	29-02	66-35	39.1	37.1	28.4	11.9	4.8	4.1	18.5	10.7	2.5	2.0	5.8	18.0	190.3
Mangochar	UK		1912 - 1950														19.8	136.5
Surab	SU	5,700	1925 -	28-30	66-15													
	Ob.		ring Agencies															
	·		Pakistan Mete															
and the second second	. :÷		Surface Wate						WAPE)A, no	w beir	ng tak	n ove	r by B'	WR			
			Same as above															
			Old colonial r															

OT -- Other agency

• : Hourly rainfall data are available. ••: Climatological data are available.

Table	B.1.2	Meteorological	Factors	of Quetta Station

Name of station: (Quetta			Observ	ed year:	1891 -	1995 (\	ary dep	end up	on facto	rs)			
Items	Unit	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Precipitation	mm	49.8	49.5	40.4	21.1	9.4	4.3	11.2	7,4	1.0	2.8	6.1	28.2	230.1
Temperature														
Monthly Max.	C°	10.8	12.9	18.7	24.8	30.4	35.3	35.9	34.8			19.2	13.3	24.4
Monthly Mean	<u> </u>	3.7	6.0	11.1	16.6	21.0	25.6	27.9	26.4	21.2	14.7	9.2	5.1	15.7
Monthly Min.	C'	-3.4	-0.9	3.4	8.3	11.5	15.9	19.9	17.9	10.9	3.8	-0.9	-3.2	6.9
Bright Sunshine	Hrs	221.6	208.5	232.6	272.5	334.2	325.6	313.5	312.5	294.4	307.2	278.2	238.7	278.3
Solar Radiation	MJ/M	12.0	14.3	17.0	20.9	24.4	26.3	25.2	24.1	22.5	19.7	16.3	12.0	19.5
Wind Mean Speed	Knots	3.0	3.5	3.9	4.0	3.8	4.4	5.3	3.8	2.8	2.2	2.5	2.2	3.4
Relative humidity	%	50.0	50.0	43.0	35.0	27.0	21.0	26.0	24.0	22.0	24.0	29.0	43.0	33.0
Pan Evaporation	mm	116.0	138.0	183.0	240.0	265.0	297.0	427.0	384.0	250.0	150.0	121.0	109.0	223.3

Mean Monthly Rainfall of Quetta Station

			1.1.1					etta Sta				(Unit:n	
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1891													
	38.0	34.0	33.0	75.0	5.0	0.0	3.0	0.0	0.0	0.0	1.0	19.0	210.0
1946									· · ·				
	- `i		· •							<u>`</u>			
1947	·												
1	80.2	114.8	35.2	24.8	33.5	29.8	38.1	28.1	0.7	11.7	29.8	54.9	481.5
1960				·									
1961	19.1	36.3	11.2	73.2	2.3	4.8	10.9	1.3	0.0	- 0.0	8.6	33.5	201.2
1962	0.5	7.6	78.0	59.7	5.3	0.0	2.5	0.0	0.0	0.0	0.0	7.9	161.5
1963	0.0	30.0	23.1	41.9	39.9	0.0	0.0	0.0	0.0	0.0	7.1	9.4	151.4
1964	85.9	П.7	38.1	28.2	0.3	0.0	7.4	0.0	0.0	0.0	0.0	7.1	178.7
1965	49.0	15.0	17.3	T18.9	J .0	0.0	2.5	0.0	0.0	0.0	25.4	38.4	266.5
1966	1.8	-52.6	10.2	38.9	0.0	O.O	25.1	0.0	0.0	10.4	0.0	0.0	139.0
1967	71	82.8	63.2	36.1	0.5	0.0	3.0	2.5	0.0	0.0		-44.7	244.2
1968	67.6	77.2	11.9	71	16.3	0.0	3.0	0.0	0.0	0.0	0.0	42.9	226.0
1969	18.5	22.1	6.1	34.5	18.0	0.0	23.1	0.0	0.0	0.0	1.8	13.7	137.8
1970	96.0	15.2	33.5	2.0	0 .0	<u>0.0</u>	1.5	15,5	-7.6		0.0	7.1	178.4
1971	7.4	21.8	16.0	0.0	<u> </u>	0.0	0.0	0.0	0.0	0.0	0.0	15.7	62.2
1972	87.6	22.4	52.3	-44.7	2.6	2.5	<u>1.3</u>	0.0	0 .0	0.0		40.9	254.3
1973	82.8	18.0	97	0.8	<u> </u>	0.0	38.1	0.0	0.0	Ŏ.Ŏ	0.0	56.9	207.6
1974	69.6	120.3	-0.0	2.8	0.0	0.0	0,0	0.0	0.0	Ŏ.0		17.9	210.6
	107.0	45.2	46.9	7.1	0.0	0.0	7.3	28.0	1.0	0.0	0.0	18.6	232.3
1975	78.2	74.4	136.8	24.0	2.0	0.0	0.0		0.0	0.0		5.8	274.2
1976	31.2			24.0	16.0		48.1	[4.0	0.0	0.0	25.2	8.6	239.6
1977	91.5	60	. 06	10.4	10.0	19.2	40.1		0.0	0.0	23.1	10.5	317.5
1978	68.0	58.3	18.2	16.5	0.0	0.0	121.8	1.1	0.0	0.0	0.0	68.1	348.9
1979	70.8	90.2	112.3	7.5	0.0	0.0	0.0	0.0		24.8		3.6	244.8
1980	69.9	30.0		2.7	0.0	5.2	0.0	0.0	0.0		13.1		347.5
1981	111.9	105.1	63.5	0.0	17.0	0.0	2.0	0.0	0.0	13.0 68.8	0.0	35.0 162.0	949.8
1982	178.0	189.2		30.4	23.0	0.0	0.0	50.0	0.0		16.0		
1983	61.0	61.0		148.0	29.0	0.0	22.0	173.0	0.0	0.0	0.0	71.2	633.3 143.2
1984	58.2	19,4	40.5	5.8	0.0	0.0	0.0	1.3	0.0	0.0	0.0	18.0	
1985	54.6	0.0	78.0	88.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.7	257.1
1986	4.2	102.8	45.8	0.0	0.0	0.0	1.0	66.0	0.0	0.0	19.6	.4.5	243.9
1987	18.4	30.2	93.1	2.0	5.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	155.8
1988	29.6	14.8		0.0	0.0	0.0	59.5	0.0	0.0	0.0	0.0	34.0	259.0
1989	46.7	30.4	86.2	13.0	0.0	0.6	1.2	0.6	0.0	0.0	13.0	51.4	243.1
1990	137.1	79.5	40.8	2.8	0.0	0.0	0.0	1.6	0.0	0.0	1.0	50.4	313.2
1991	76.6	41.7	104.8	38.0	21.8	0.0	0.0	0.0	7.6	0.0		16.8	315.7
1992	46.0	53.6	32.2	89.2	13.2	0.0	0.0	15.4	0.0	12.2	0.0	48.4	310.2
1993	110.0	28.9	51.9	12.1	4.1	2.1	0.5	0.0	0.0	0.0	0.0	0.0	209.6
1994	20.6	47.1	26.6	8.3	19.7	0.0	67.6	6.2	78.8	0.0	0,4	21.1	296.4
1995	23.5	45.5	35.5	32.3	0.0	0.0	25.7	0.0	0.0	1.2	0.0	128.9	292.6
Meam	49.8			21.1	9.4	4.3	11.2	7.4		2.8	6.1	28.2	230.1

												(Unit:n	1m)
Year	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oci.	Nov.	Dec,	Annual
1961	-	-	_	-			-	-	_	-	-	•	-
1962	-	•	-	-	-	-	-	-		-	-	•	-
1963	-	-	-	-	-	-		-	-	•		-	-
1964	-	-		-	-			-	-	•	-	-	-
1965	2	-	-	-	•		-	-	-	-	- '	-	-
1966	_	-	•	-	-	-	. .	-	-	-	•	•	-
1967	-	-	· <u>-</u> `	-		.				-	-	<u>_</u> `	-
1968	· · ·	-	-	·	-		-	-	-	-	<u>.</u>	-	-
1969	· _	-	-	-	-		-	-	•	-	-	-	-
1970	-	-	-	-		-	-	-	0.0	0.0	6.1	0.0	-
1971	19.8	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	63.8
1972	46.7	74.9	24.9	33.3	0.0	51.8	0.0	0.0	0.0	0.0	14.0	41.7	287.3
1973	14.0	6.9	7.4	0.0	0.0	3.6	35.6	0.0	0.0	0.0	-	-	-
1974	-	-	4.3	8.1	0.0	0.0	0.0	1.0	0.0	0.0	32.3	22.1	
1975	103.1	14.0	25.7	16.3	0.0	0.0	69.9	0.0	0.0	0.0	9.7	25.9	264.4
1976	39.6	88.1	63.8	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	39.6	240.5
1977	20.6	1.3	19.6	0.0	4.6	84.6	0.0	0.0	0.0	19.3	12.7	15.2	177.8
1978	54.9	15.7	6.4	0.0	0.0	104.4	0.0	2.5	0.0	0.0	0.0	15.7	199.6
1979	69.3	78.0	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	73.2	241.6
1980	56.4	43.9	22.6	0.0	0.0	40.4	0.0	0.0	0.0	21.1	26.2	-	-
1981	-	-	-	- :			-	-	-	-		-	-
1982	60.7	102.1	128.0	4.3	15.0	0.0	0.0	24.4	0.0	29.0	17.3	80.3	461.0
1983	36.8	4.6	56.4	59.4	24.1	0.0	1.3	39.9	0.0	0.0	0.0	41.9	264.4
1984	27.7	9.1	27.4	8.9	0.0	20.3	0.0	0.0	0.0	0.0	0.0	39.4	132.8
1985	34.8	0.0	2.3	46.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.3	118.1
1986	14.7	43.9	68.1	0.0	0.0	0.0	0.8	86.6	0.0	0.0	20.3	10.4	244.9
1987	22.1	85.3	90.2	3.3	14.0	12.7	0.0	22.4	0.0	0.8	0.0	0.0	250.7
1988	14.5	13.7	95.3	12.2	0.0	0.0	5.8	0.5	0.0	0.0	0.0	20.1	162.1
1989	33.3	24.6	90.4	5.3	2.5	8.4	52.8	0.0	0.0	0.0	9.9	41.9	269.2
1990	125.2	130.3	40.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.3	335.0
1991	78.2	72.4	100.8	50.0	15.2	0.0	0.0	0.0	14.0	0.0	8.9	29.0	368.6
1992	-	-		• •••	-	-	-	-	-		-	· · · ·	-
1993	20.1	26.7	34.3	18.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	103.9
1994			-	-	-	-	-	-	-				-
1995		•	-		-, ,	-		-	-	 -	-	-	
Meam	44.6	42.7	43.8	12.8	3.6	16.2	7.9	8.4	0.6	3.2	7.9	29.7	232.5

Table B.1.3 Monthly Rainfall of Killi Kotwal Station

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			,		· ·							(Unit:n	un)
Year	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	•	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	•.	-	-	•	•	-		-	-
1964	-	-	-	-	-	-	- :	•	-	•	-	~	-
1965		-	+	-	-	-	-	-	-	.	•	· -	-
1966	-	-	-	-	-	-	•	-	-	-	-	-	-
1967	-	-	-	-	-	-		•	-	. •	-		-
1968		-	•		-	-		-	· •	-	•	-	•
1969	-	-	•	. .	-	-	-	-	-	-	-	-	-
1970	-	-	•	-	•	-	-	•	-	-	-	-	-
1971		-	-	-	-	-	-	-	-	-	-		-
1972	103.6	39.4	116.8	38.1	0.0	0.0	0.0	0.0	0.0	1.3	0.0	82.6	381.8
1973	78.7	25.4	12.7	10.2	0.0	0.0	105.4	- ·		0.0	•		-
1974	-	-	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	20.8	-
1975	31.8	33.0	20.3	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	7.6	102.9
1976	26.7	59.7	44.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	132.1
1977	25.4	0.0	0.0	0.0	-	17.8	6.4	0.0	0.0	0.0	5.1	1.3	-
1978	31.8	38.1	2.5	0.0	0.0	0.0	36.8	6.4	0.0	0.0	5.1	0.0	120.7
1979	14.0	55.9	45.7	6.4	0.0	0.0	0.0	0.0	0.0	1.3	0.0	82.6	205.7
1980	45.7	81.3	116.1	0.0	0.0	15.2	0.0	0.0	0.0	10.2	14.0	5.1	287.5
1981		-		-	-	-	-	-		•	-	-	-
1982	76.2	177.8	232.2	8.9	59.9	0.0	0.0	33.0	0.0	27.9	0.0	44.7	660.7
1983	33.0	39.4	44.5	55.9	35.6	0.0	20.3	72.4	0.0	0.0	0.0	45.7	346.7
1984	19.6	14.0	12.7	2.5	0.0	0.0	22.9	12.7	0.0	0.0	0.0	29.7	114.0
1985	30.5	0.0	11.4	71.1	0.0	0.0	15.2	10.2	0.0	0.0	0.0	21.8	160.3
1986	2.5	88.9	66.0	0.0	0.0	0.0	12.7	26.9	0.0	0.0	0.0	5.1	202.2
1987	17.8	46.2	89.4	16.5	12.7	12.7	0.0	2.5	0.0	0.8	0.0	0.0	198.6
1988	16.5	15.2	59.7	33.0	0.0	0.0	2.5	12.7	0.0	0.0	0.0	63.5	203.2
1989	119.4	35.6	91.4	2.5	12.7	2.5	25.4	0.0	0.0	0.0	12.7	34.3	336.6
1990	97.8	83.8	43.2	3.8	0.0	0.0	0.0	2.5	0.0	0.0	0.0	55.9	287.0
1991	73.7	124.5	110.5	45.7	10.2	0.0	0.0	0.0	0.0	0.0	17.8	8.9	391.2
1992	-	•	κ.	•	-	 	· · · · · · · · · · · · · · · · · · ·	-	•	-	: . . , .	•	•
1993	65.3	6.4	63.5	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.4
1994	-	-	•	-	-	•	-			-	_1 · ·	-	
1995	-	• · · ·	•		-		-	-		•		-	-
Meam	47.9	50.8	59.2	15.5	6.9	2.4	12.4	10.0	0.0	2.1	2.9	26.9	251.8

Table B.1.4 Monthly Rainfall of Spezand Station

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Year	lar	Ech	Mar.	4.0-	Мау	Jun.	Jul.	Aug.	Sep.	Oci,	Nov.	(Unit:n Dec.	Annua
	Jan.	Feb.	Mar.	Apr.	мау	<u> </u>	Jul.	Aug.	<u>sep</u> .		NOV.	Dec.	Annua
1961			······	·····		-		•					
1962		-	⁻			•••••				-			
1963	••••••	-	-	·····		•	12.2					-	
1964			-			8.9	13.2	-			 t 5	10.4	145 0
1965	15.5	14.2	24.1	65.8	0.0	0.0	0.0	0.0	0.0	0.0	1.5	24.6	145.
1966	5.1	53.3	2.5	41.9	0.0	5.1	14.5	0.0	0.0	7.6	0.0	0.0	130.0
1967	0.0	104.1	85.9	33.5	0.0	0.0	0.0	0.0	0.0	0.0	10.2	27.9	261.0
1968	53.3	-	5.1	0.0	7.9	0.0	2.8	0.0	0.0	0.0	0.0	53.3	
1969	52.1	22.9	17.8	15.2		0.0	25.4	0.0	0.0	0.0	2.5	5.1	171.
1970	27.9	17.8	45.7	0.0	10.2	0.0	2.5	2.5	0.0	0.0	0.0	0.0	106.1
1971		•	-	•	•	-	-	-	-	-	-	-	
1972	48.3	53.3	85.1	22.9	7.6	15.2	12.7	0.0	0.0	0.0	5.1	17.8	268.0
1973	20.3	33.0	52.1	0.0	0.0	0.0	48.3	0.0	0.0	0.0	0.0	2.5	156.1
1974	33.0	10.2	0.0	7.1	0.0	0.0		0.0	3.3	0.0	0.0	15.2	68.
1975	195.6	58.4	66.0	2.5	0.0	0.0		66.0	0.0	0.0	17.8	12.7	419.
1976	45.7	104.1	391.2	61.0	0.0	25.4	15.2	0.0	15.2	28.7	8.9	36.1	731.
1977	61.2	55.9	0.0	0.0	5.1	29.5	45.7	30.5	0.0	0.0	1.8	1.3	230.
1978	7.6	= 1.3	3.3	2.5	0.0	30.5	86.4	10.2	0.0	0.0	0.0	1.8	143.
1979	19.6	57.2	37.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	130.
1980	8.9	6.9	16.3	0.0	0.0	3.3	0.0	0.0	0.0	8.4	1.5	1.0	46.
1981	•	-		• • •	•	•	•	-	· · ·		-		-
1982	21.1	48.3	54.6	24.4	13.5	0.0	7.9	68.6	0.0	49.5	0.0	57.7	345.
1983	18.0	12.2	38.9	36.8	6.4	0.0	14.7	57.7	0.0	0.0	0.0	0.0	184.
1984	12.7	: 19.6	31.5	0.0	0.0	0.0	17.8	29.2	0.0	0.0	3.6	63.8	178.
1985	23.4	0.0	17.8	38.6	t	••••••••••••••••••••••••••••••••••••••	39.4	15.2	0.0	0.0	0.0	76.2	210.
1986	17.8	86.4	127.0	12.7	0.0		43.2	124.0	0.0	0.0	2.5	5.1	418.
1987	55.9	68.8	53.6	0.0	·····	22.9	0.0	17.8	0.0	0.8	0.0	0.0	265.
1988	71.1	86.4	160.0	22.9			61.0	0.0	0.0	0.0	0.0	17.8	i
1989	87.9		274.6	18.3			·	10.2	0.0	0.0	35.6	151.6	
1990					-	-							-
1991	163.3	83.6	49.3	59.7	10.9		0.0	0.0	14.2	0.0	16.3	41.9	439.
1992		-				-			-		-		
1993				•									
1994									·				
1995	<u>-</u>			· ····	 							-	
· · · • · · · · · · · · · · · · · · · ·	44.4	46.1	68.3	19.6	5.7	<u>،</u>	- 20 4	18.0		1			269.
Meam	44.4	40.1	00.3	19.0	1 3.1	6.0	20.6	[[0.0	1.4	4.0	4.5	25.4	209.

Table B.1.5 Monthly Rainfall of Siran Tangi Station

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul	Aug.	Sep.	Oct.	Nov.	Dec.	Annua
1961	-		-	 -	-	•	-	-			-		
1962	-	-	-	•	•	•	-						-
1963		-		•		•			-		•		•
1964		-	-	• :	-		•	ii	•		•	-	•••
1965		-	-		- :	•	-	-				-	
1966	•			 	•			-				······································	
1967	-	······································			•	×	•	·		· · · ·		 -	
1968	-					-	 -	•					••••••••••••••••••••••••••••••••••••••
1969		•	-		-		······	• •			•	⁻	
1970							 •			·	·	 	
1971		•	-	•			•	-					
1972	-					•							······································
1973				•					·	• • •	÷		• • • • • • • • •
1974		•i		······		••••••••••••••••••••••••••••••••••••••				····			
1975		iiiiiiii				•	.					· _	 :
1976										••••••••••••••••••••••••••••••••••••••			
1977	·					·		•					
1978			- 1	·····	· · · · · · · · · · · · · · · · · · ·								
1979		•••••••••••••••••••••••••••••••••••••••			•	<u>-</u>	· · ·						·
1980		· · · · ÷ ·							·			<u>-</u>	
1981		• • • •											 •
1982													
1983		•••••••											
1984	<u> </u>							·			· · · · · · · · · · · · · · · · · · ·		
1985											·		
1986		···											
1987	_`			·									
1988							9.9	11.7		0.0	0.0	26.4	
1989	39.9	30.2	148.1		· · · · · · · · · · ·	0.0	5.8	0.0	0.0	0.0	0.0	52.6	
1990	150.9	109.2	→ - · · · · · · · · · · · · · · · · · ·	23.9	0.0	0.0	0.0			· • · · · • · · · · ·	0.0	70.1	370.3
1991	270.0	127.5			0.0	0.0	0.0	0.0	14.2	0.0	16.3	13.2	641.9
	210.0	· · · · · · · · · · · · · · · · · · ·			0.0	0.0		0.0		0.0	10.5		0.41.
1992 1993	105.7	- 15.2	22.2	- 18.0	- 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	172.3
1993			33.3					0.0		0.0			114.1
1994	-	• 1			• :						•		
	141.6	70.5	90.3	26.2	· · · · · · · · · · · · · · · · · · ·		3.1	2.3	2.8	0.0	3.3	32.5	394.8
Meam	141.0	10.3	90.3	26.3	0.0	0.0		2.3	2.0	0.0	3.3	34.3	374.0

Table B.1.6 Monthly Rainfall of K.K.Bund Station

1961 - <th></th> <th>r</th> <th></th> <th></th> <th>r • • • • • • •</th> <th>r</th> <th></th> <th></th> <th>·</th> <th></th> <th></th> <th>·</th> <th>(Unit:n</th> <th>im)</th>		r			r • • • • • • •	r			·			·	(Unit:n	im)
1962 . <th>Year</th> <th>Jan.</th> <th>Feb.</th> <th>Mar.</th> <th>Apr.</th> <th>Мау</th> <th>Jun.</th> <th>Ĵul.</th> <th>Aug.</th> <th>Sep.</th> <th>Oct.</th> <th>Nov.</th> <th>Dec.</th> <th>Annual</th>	Year	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Ĵul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1961	•		-	•	-	-	•	-	-		-	-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1962	-	<u> </u>	-	-	-	•		-	-	-	-	-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1963	-	-		-		-	-	-		-	-	-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1964	-	• •	-	-	-	-	-	•	-		-	-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1965	-	-	•	-	-	~	-	-	-		-	-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1966		-		-	-	-	-	-	-	-	-	-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1967	-	-	-	•	-	-	-	-	· -	•	-	-	•
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1968	-	-	-	•	-	-	-	-	-	-	-	-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1969	-	_	-	-	-	-	-	-	-	-	-	-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1970	-	-	-		-	-	-	-	-	-	-	-	· •
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1971	-		-	-	-	-	-	-	-	-		-	•
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1972	-	-		-		-		-	•	-	-	-	·
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1973	-	-	-	•		-	-	- 1	-	-	-		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1974	-	-	-		-	-	-	• ·	-	· · · · · · · · · · · · · · · · · · ·	-	-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1975	-		-	-		· •		+	-	-	-		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1976	-	-, :	-							·			•
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1977			-	-	·	-		•	 -	• ·	· -		· •
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1978		•	-	•	-	-		-	+		•		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1979	-	•.		•	-	-		•		• . ` .	-		•
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1980			(• •	•		•				-			
1983 -	1981		-	- :	•		•					-	-	· .
1983 -	1982		-	-	· -		i	••••	-·		••••••••••••••••••••••••••••••••••••••		-	
1984 -	The second second second	-		-	· · · · · · · · · · · ·	<u> </u>	-							•
1985 -				-	•		•			-			· · · · · · · · · · · · · · · · · · ·	•
1986 -	· · · · · · · · · · · · · · · · · ·			-					•		•••			······································
1987 -			-		•	•			•	• • • •	····	·		
1988 - - - - 0.0 0.0 0.0 0.0 82.0 1989 29.7 22.9 175.5 - 0.0 4.1 0.0 0.0 0.0 0.0 31.8 1990 118.9 130.0 22.9 4.3 2.0 0.0 0.0 0.0 0.0 0.0 63.0 1991 135.6 89.4 117.3 20.3 0.0 0.0 0.0 0.0 0.0 3.6 23.9 1992 -	- · · · · · · · · · · · · · · · · · · ·			-				 - :	•					
1989 29.7 22.9 175.5 - 0.0 4.1 0.0 0.0 0.0 31.8 1990 118.9 130.0 22.9 4.3 2.0 0.0 0.0 0.0 0.0 0.0 63.0 1991 135.6 89.4 117.3 20.3 0.0 0.0 0.0 0.0 0.0 3.6 23.9 1992 -	·						 -	0.0	0.0	0.0	0.0	0.0	82.0	-
1990 118.9 130.0 22.9 4.3 2.0 0.0 0.0 0.0 0.0 0.0 63.0 1991 135.6 89.4 117.3 20.3 0.0 0.0 0.0 0.0 0.0 3.6 23.9 1992 -		29.7				••••••••••••••••••••••••••••••••••••••		•••••	•		· • • • • • •			
1991 135.6 89.4 117.3 20.3 0.0 0.0 0.0 0.0 0.0 3.6 23.9 1992 -	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · ·			2.0		· · · · · · · · · · · · · · · · · · ·				·····		341.1
1992 -			i in a second de la seconda de la second	··· ·						· · · · · · · · · · · · · · · · · · ·				390.1
1993	· · · · · · · · · · · · · · ·			на на 1 999. 1991 - 1997.	-		-			• • • • • • • • • • • • • • • • • • • •		· · ·		
1994	1		· · · · · · · · · ·			••••••				······				
	. ••• ••• ••• ••• •••							·····	· -··• ·					
	1995		·	_	· · · · · · · · · · · · · · · · ·					··			· · · · · · · · · ·	
	: · · · · · · · · · · · · · · · · · · ·	94 7	80.8	105.2		· · · · · · · · · · · · · · · · · · ·	0.0	1.0				•	-	365.6

Table B.1.7 Monthly Rainfall of Qila Abdullah Station

Table B.1.8 Correlation of Daily Rainfall in Each Meteorological Station

QilaAbdulla BundKKhan						110011	Can lac	1. Summing	e herende		3
BundKKhan	1.00						•				
	0.57	1.00		· · ·	 - -						
Bandatiung	0.39	0.49	1.00								
Kach	0.34	0.34	0.57	00.1		:					
KillaKotowi	0.73	0.62	0.46	0.37	1.00	•				-	
Mach	0.26	0.36	0.08	0.12	0.24	1.00		•			
Sariab	0.53	0.56	0.41	0.38	0.77	0.33	1.00		ı		
SiranTangi	0.24	0.24	0.45	0.17	0.23	0.19	0.21	1.00			
Spezand	0.66	0.66	0.40	0.40	0.78	0.35	0.77	0.14	1.00		
Surab	0.02	0.00	0.03	0.00	0.01	0.02	0.07	0.00	0.0	1.00	
WaliTangi	0.78	0.66	0.46	0.38	0.92	0.30	0.74	0.23	0.80	0.02	1.00
`	QilaAbdulla BundKKhan		Bandatiung	Kach 1	KillaKotowl	Mach	Sariab	SiranTangi	Spezand	Surab	WaliTangi
QilaAbdulla	0	. *							-		
BundKKhan	34	0			:		• •			÷.	
BandatJung	78	45	0			-	· · ·				
Kach	02	38	13	0		· .	·	-			
KillaKotowi	65	46	\$	30	0 0	•					
Mach	114	33	99	19	20	0					
Sariab	78	3	57	47	18	39	0	•			
SiranTangi	8	36	50	80	23	57	4				
Spezand	16	11	99 9	57	31	32	13		0		
Surab	251	248	242	234	207	181	188	227	178	0	
WaliTanoi	62	52	29	21	20	41	30	- <u>1</u>	33	214	C

B - 13

Table B.1.9

Rainfall Records in Short Term Duration

	KILLI	OTWAL	Station									(mm)
Year	T 11	nour	21	iour	3	hour	6 h	our	·	nour	the set of	nour
	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer
1970												
1971	5.3											
1972	7.6											
1973	4.1											
1974	8.1									1.0		
1975	9.7	/ 19.1	13.2	: 33.5	13.	5 34.3	20.6	36.1	21.8	44.7	25.7	44.7
1976												
1977						:						
1978						1						
1979												
1980		1.1.1	÷									
1981]				· .		1.1					
1982	∦ 7.1	1 14.5	13.7	20.8	18.	8 20.8	31.0	21.8	49.0	22.9	56.4	22.9
1983						1					1	
1984					1							
1985												
1986	19.	3 14.7	20.3	3 28.7	20.	3 35.8	20.3	49.0	20.3	69.9	20.6	81.5
1987	13.1			22.4	14.	7 22.4	17.8	22.4	23.6	22,4	30.5	22.4
1988	7.		10.2	2 0.0	16.	5 0.0	25.7	0.0	32.8	0.0	38.1	. 0.0
1989	6.			2 31.8	12.	7 31.8	15.2	2 31.8	22.6	31.8	35.1	. 31.8
1990	8.) 0.0	17.	8 0.0	22.1	0.0	36.8	0.0	41.9	0.0
1991	11.				14	0 7.6	20.3	10.2	38.6	14.0	40.6	6 14.0
1992												$= \frac{1}{2} \sum_{i=1}^{n-1} \frac{1}{2} \sum_{i=1}^{n$
1993		4					· ·					í.
1994						1. A.				÷		4. A A
1995						12						1.1.1.2

BANDAT JUNGLE Station

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· · · · · · · · · · · · · · · · · · ·	BANDAT JUNG		·····	·····	101	
Year	1 hour	2 hour	3 hour	6 hour	12 hour	24 hour
	Winter Summer	Wipter Summer	Winter Summer	Winter Summer	Winter Summer	Winter Summer
1969	0.0 21.1					
1970	5.1 16.3		5			
1971	4.3 0.0) 5.6 0.0	7.1 0.0			
1972	0.0 0.0	0.0 0.0	0.0 0.0			
1973	9.4 24.1	9.7 24.9	11.2 26.4	19.1 38.1	21.8 38.1	27.7 38.1
1974	7.1 2.5	7.6 3.8	9.1 3.8	12.2 3.8	24.4 3.8	
1975	6.1 4.1	7.9 61	7.9 7.1	10.2 11.2	11.7 13.2	20.1 13.2
1976			the second second	i ·		
1977	· · ·		: :			
1978						
1979			and the second sec			
1980						
1981				· .		
1982	7.1 11.2	2 11.7 16.5	15.7 18.5	27.9 20.3	41.1 26.9	48.0 27.9
1983				14 A.		1
1984						
1985	the second secon			· ·		1 A. A. A. A.
1986	7.1 12.7	8.9 14.7	11.7 15.0	18.8 15.5	21.6 31.5	22.1 37.6
1987	2.3 6.1					
1988	0.0 0.0					
1989	4.8 1.8					1
1990	3.0 2.5					2 1
1991	5.8 0.0					
1992						0.0
1993						
1994	· · ·		·			
1995	-			1		
1993	<u> </u>		L	I	1	1

anuary 1988	-					10																			<u> </u>				
5.00		0.00		1 00		9 30	0.00	1 200	8 0:0	4						13 16 00 0.00								0.00	25 0 00	a aa	5.04	0.20	305 4
ha (man)		0.00	000	0 00	013	0.00	0.00	0.00	0:00	0.00	0.00	000	0.30	0.00	00 00	50 (0.30 50 (0.50	0.00	0.00	0-36-0 6-6 0	00, 018 00, 114	9 000 1 000	0.00	0.00	00000 000000	0.00	6.33	483	0.00	290 4
२ सन्दर हिश्रोड २ सुरुष (त.m.)																													
vigenztanan) ≫itan come M	0.06 :	99 2	7.97 3	16 96 3	4 36 2	8.34 3	26 33 2	25 32 2	4.30 2	1) 29 2	22 23 2	1 26 3	1025	91314	1 22 17. 1 01 - 1 1	20 16 15 01 - 1 64	101	44165 402	N 19-12 1 61 - 8	13 54.) DI 11	4 15/6 4 10/	1 61	101	101	101	101	1.01	1.61	100
roal ET		0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u>¢00</u>	0.00	0.96	000	0.00	0.10	000	20. DX	0.00	0.00	0.20_0	<u>30_0 (</u>	0 0 00	9.20	<u>0 00</u>	<u>0 00 j</u>	0.00	0.00	0.99	0.00	6.00
7AY 1981						<u>-</u> -									14	U_10		18	30	5	2 72	21	24	24	. 24	r	26	_22	
sinfa))		0 00	8 00 B	0.00	0.00	0 00	0.00	8.00	A 04	A 54	n an	0.00	0.00	5 U - 1	nn e	aa > 5a	0.00	6:00	600 0	00 10 3	6 0 00	000	0.00	0.00	0.00	6 (K)	0.00	0.00	
i (men) secs. Rain							A 10.	A 0.4	A 00	A 00	0.00	A ^A	0.00	3 10 1	ann A.	00 015 00 23	0.00	800	bha e	30 81	5 0 90	0.00	0.0	0.00	0.00		V 00	4r - 70	
																									2.20	2.28	2.28	228 6:00	
niten criet. 1 maat€T	2.32	10.95	9.58	1 22	6 85	5.43	4.13	2 74	134	0.01	0.00	0:00	6.00	1.02	000 Q	00 Le: 00 EX	1 0 20	0-00 8-50	000-0 000-0	00 80 40 60	4 631 7 337	2.45	4.06	1.11	134	1.4	0.00 0.00	¢00	
1990 ET		0-30	0:0	0.50	0.00	. 9.20	<u>q 90</u>	0.00	0 20	0.00	0.00	a)0	6.70	0.00	0.00.0	<u>00 00</u>	0.00	0.00	010 0	00 0	0 0 30	010	0.00	େ ଉହି	9.30	0.00	Q 90	930_	
aich, 1988												-			- <u></u>					N2	<u></u>							••	- <u></u>
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ν (π.».)																00 00													
z eve Bain Vapola (mm)	1																												
	6.00															.56 0.9 05 0.5													
icud ET Ichrist		0 00	0.00	0.90	000	0.00	0.0	000	0.00	0 00	0.00	0 00	6.10	0:00	0 20 0	00 00	\$ 10	8.90	0.20	00 [°] ¢	<u>20 0 29</u>	0:00	0.09	0.00	0.00	000	0.00	9.00	0:00
5:1,1988						<u> </u>				-				<u> </u>						×					3	÷		29	10
<u>อากรีม</u> ไ		000	1 0 00	- 9 0-00	000	0.00	6 30	7 0:00	0 00	0.00	6.00	6.55	0.00	0.00	0.00 0	15 T	0.00	0.00	100 1	00 8	ին թինն	8-00	0 00	0 D0	0.00	0.00	0.00	0.60	3.05
u (თ.a.)		5 00	0.00	0 00	0.00	0.00	0.00	0.00	000	0.00	000	0.00	0.00	0.00	0.000 0.000	00 00	0.00 0.810	0.00 0.55	0.00 0	00 00 100 0	00 0 00 10 0 00	600 600	000	0.00	0:00 0:00	0.00	0.00	0-00 0-00	2 80
ынық Райя чароц (пла)																													
∂ ज्ञः ः⊂द1	0.00	6.90	0.00	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0 00 4 00	0.00	0.00	000 0 600 0	00 00	6 900 6 810	0.30 0.00	0.00 1)00 00 306 0	00 000 00 000	0.00	0.00	6.00	0.00	0.00	0.00	0.00	240
สายค์ 63 <u>ระทิต 63</u>		0 90 0 90	400 000	00 u 00 2	900 900	e 30 0 20	1000 1000	0 00 0 00	e 00 0 00	0.00	000	0.00	0.00	0.00	0 00 C	00 00	00.00	000	0.00	00 0	00 00	0.00	0.00	0 00	Q 3Q	0.0	D 00	Q.0K)	0.00
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apere Rain		0 00	0.00	0 00	00.0	8 00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	600	000 0 <00 4	100 00 103 10	0 0000 0 100	6.00	0-00-0 5-90-0	900 19 1.90 19	30 0-00 90 1-50	9 10 060 9 5 961	5.00	5 90	5 90	3.75	2 40	- 2 2 2 1	3 90
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Die Leure) Exerce Rain	-	C 90	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	000	0.00	0.00	0.00	0.00 0	909 QI 509 QI	0.000	F 10 DQ - 10 GA	0:00	0,00 0 6.00 7	20 00	n 800	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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initer com Lanual ES	0.94	0.00	0.06	0.00	8 00	0.00	1000	0.00	000	0.00	0.00	8.00	0.00	0.00 0.00	0.00	9 90 9 6 00 8	0.000	0.00	0.00	000 C	00 00	0 000	0.30	0.00	0.00	6:0	0.00	0:0	0.0
lechar ar	<u> </u>	0.00	0.00	0.00	6 00	9.00	0.00	0.00	9.00	0.00	0.00	0.00	0.20	6.20	0.00	0.00	12 Q X	0.00	0.00	0.20	<u>00 00</u>	0.00	0.00	.030.	<u>d 90</u>	Q.)8	<u>. p. 90</u>	<u>a no</u>	8 10
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Du (nun) Euxere ≭ain		6.00	6.00	0.00	0.00	0.00	000	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	000 0	50 0000 NG 6000	0.000	6.00	000 0 000 0	00 BJ 00 BD	0 0000 0 0000	0.00	0.00	0.00	0.00	0.00	0.00	0.10
Soil in Cont Actual ET	0.00	0.00	0.00	0.00	0.00	0.00	000	0.00	0.00	0.00	0.00	0.00	000	600	000	0.00 0	00 800 00 800	0 (0 30) 0 (0 0)	0.00	eju u ede d	00 00	0 0 00	0.00	0.00	0.00	0.0	0:0	0:00	0.00
lobine		0 00	0.00	0.00	0.00	0.00	2. 0.70	0.00	0.00	0.00	0.00	0.20	0.00	000	0.00	0.00.0	ng god	0.00	030	<u>0 00 0</u>	09 60	0.00	0.00	0.00	0.00	0:0	0.00	0.20	0.00
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		6 00	0.00	0.00	6.00	000	3 0 30	0.00	0.00	0 00	000	0.00	0.00	000	0.00	000 U 000 D	20 0 X	0.00	900 8100	808 V 616 - 4	00 00	0 000 6 800	0.30	6.50	0.30	0.00	100	0.00	6.90
Euro e Raia		_	6 90	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0:00	0.00	0 00 D	00 000 10 00	0.00	0.00	0.59 0 600 0	100 100 100 100	0 990 0 800	0.0	600	0.00	0.00	1000	- 0. WO	0.00
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Esi-ci e Raia Eviqore (mm) Solt in ovel Autori E E	0.0	0.00	0.90 0.00 0.00	7 6 6 6 6																									
Essen e Raia Evigote (mm) Solt an over Autual E T Recharge	0-0	0.00	0.00 0.00	L 9 99					_	1	B AG		b 0.0		0.00	15			0.10	C 00 I	30 8.	с рл		800	0.1	6.00	U.N	- 29	<u>- 10</u>
Etsel e Raia Evapor (mm) Seitan evet Autori ET <u>Berbarae</u> <u>Necolarites, 15</u> Irom	0-0	000	0.00							.			0.00		0.50	0.00 0	60 B.M	1 6 36	0.00	0.00 1	1XC 10-1		1 9 9 1	000					
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Table B.1.10 Typical Analysis for Groundwater Recharge (4/5)

Table B.1.10

Typical Analysis for Groundwater Recharge (5/5)

	TU	UNC							y y	л	ai.	A	Цą	ii ya	212	11	UI.	U	IU		uv	rau		n	uu	119	irg	e	(Ð	13)			
January, 139	2	1	2							. ,	10		12	U.	1	13	10	1?	16	19	20		-12	23	24	21	k	_ 1)		24			
Reinfall Die (mm)																														0:00 -0:00			
Excess Rain ETo (man)		0.00	010	0.00	0 00	341	2342	120	000	0.00	# 45	1230	0.00	Q 90	0.00	37.48	627	0.00	0.00	0.00	0 OD	0.00	0.30	6 35	000	000	0.00	000	0.00	0 00 1 69	0.00	000	98.45
5-til m even	ja (10	28.99	27 97	26.96	25.94	2134	30.00	30.00	28.99	27 97	30 00	30-36	78 99	2797	26 96	30.00	30 30	24 99	2197	26 96	15.94	14 93 .	23 92	22.90	21.17.2	2017	6 8 91	1865	17.83	16 \$2	2,5 BO	14.79	
Actual ET Bolharae																														0.00			
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<u>Fabran, 199;</u> Jerm	3		1	,	4	\$,		,	30	0	. 17	12	. 14		16	17	11	19	20	21	22	22	24	24	26	27	26	.*	N	31	
Ratofall Dia (mm)		0.00	0 00	0.00				0.00	0.30	0.00	0.00	0.00	0.00	¢ 90	000	0.00	0.08	0.00	0 00	0.00	0 00	0.00	6 00	0.00	5.08	24.59	6 30	0.00	0.98	\$ 00	0.10	0 .00	110
Ea, esa Rain		0:00	0.00	0.00	0.00	0.00	0.00	0.00	0 00	0.00	0 00	00	0.00	\$-00	000	0.00	0.00	0.00	00.0	0.00	000	0 00	0.00	0.00	4.78	:0 :9	0.30	0.00	0.30	0.00			25.67
ETo (mm) Soit an cool	14.79	224	2.24	2.28	2.24	228	220	128	3 38	2.28	2.28	224	2.28	2.26	2.28	2.6	2.28	224	228	220	224	2.26	2:0	2.20	328	2.29	2.24 10 µ1	2.8	2.28	226			66.1
Arrest ET	44.CF	1 37	1 37	137	1.37	132	1.37	1 37	1 37	3 37	1.37	111	0.00	0.00	000	0.00	0 00	0.00	ē 90	0.00	0.00	0.00	0.00	6.00	1.37	1.32	3 37	3 37	1.37	2 37			23:50
<u>Roberto</u>		0.00	0.30	0.00	0.00	0.00	0.00	0.00	6 00	<u>¢ 60</u>	0.00	¢.0¢	<u>. 0</u> ,9	0.00	9.90	2.10	0 00	0.00	000	0.00	0.30	B 00	0:4	600	0.00	0.30	6.25	9.00	0:00	0.00			41 (#)
Ma:ch. 1993					,			. <u></u>																									
<u>ltem</u> Ruiafali		6 00	0.00	6 86	0 00	0.00	0.00		0.00		0.00		171		0.00							0.00		000	8:00		<u>26</u> 0 00		000	000		0.00	.4.24
Dis (m.m.)		6 00	8 00	0.18	6 00	¢ 00	Q 00	0 90	9.00	0.00	0 00	80	013	0-30	Q 00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0:00	000	ð 00 B	0.00	0.00	0.00	0.00	0.00	010	247
Ex. ees Rain hTo (mm)																														000 341			
Since	16 86																													0.00			
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April 1993		Ĺ.									10				34	15	16	17	U.	19)	1	_ 11	27	24	74		p				. 4	
Rainfall Dis (mm)		0.00	8.00	00¢	800	0.00	0.00	0.00	0.00	0.00	0.00	800	0.00	132)	4.63	0.00	0.96	900	0.00	0.00	0.00	¢ 00	000	000	0.00	0.00 0.00	0.00	000	0.00	0 00 0 00	0.00	0.00	(# 03 # 44
Et. ess Rain		0 90	0.00	0.00	0.00	0 00	0.00	0.30	0.00	0.00	0.90	600	0.00	1115	4.44	0.00	0.00	0:00	0.00	0.00	0.00	000	0.00	0.00	0 00	0.00	0.00	0.00	0.90	0.30	0.00		1659
E'Ee (mm) Soit in cont	0.00																													4,74			142.2
A-rual ET		0:00	600	0.00	0.00	0 00	0.00	0.00	0.00	0.00	0.00	e co	0.00	255	284	244	214	254	2 37	0 00	0.00	000	0.00	0.00	000	000	0.00	0 00	0.00	0 90	00 0		16.59
Bahres		0.00	0.00	0.00	8.00	0 00	9.00	0.00	0.00	0.00	0.00	<u>603</u>	9.00	000	D DO	0.00	0 00	0.00	6 :20	0.00	100	0.00	0.00	0.00	ê DQ	6.99	0.00	0.00	0.00	0.00	0.00		6.00
May.1992							···						<u> </u>							<u>.</u>													
<u>Reinfoll</u>		0 00	0.00	0.00	0:00	0 00	0.00	0 00	00.0	0 20	<u>96</u> 0.00	11 9-30	0.00	9.00	34 8 Da	<u>. 15</u> 0 00	0 D0	0.00	0.00	19 0 00	20	21 0:00	00 00		24 0 00	25	26 0 00	27	28 0 00	29 0.00	0.00		0.00
Dis (gan)		0.90	0 00	0.00	0.00	0.00	0.00	0.00	000	0.00	0.00	6.00	0.00	0.00	0.00	800	8 D0	0.00	0 (30	0.00	4.00	0.00	0.00	0:00	0.00	00.9	0.00	0.00	0.00	ð 90	6 00	5 20	8.00
Excen Rola ETo (mm)																														000 \$90			
Still as court	0.00	0.00	000	0.00	0.00	6 00	0.00	0.00	0.00	0.00	0.00	8.00	Ø 06	0.00	0 O O	0.00	0 00	0.00	0.00	0.00	0.00	0.00	0 00	0.30	6.00	0.00	0.00	0.00	0.00	0.00	00.0	0.01	
Actual ET																														0 00 0 0 0			
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<u>_hrs_1993</u>]≃m			. 2	-)		3		1	. 1		10			B		19	16	, L	38	19	20	21	-11	25	- 21		. 26	17		. 29	10		
Rainfall				0.00		4.83		0.00	0.00	000	0 00	0.00	0C 0	6.00	000	0.00	0.00	0.00	0 00	0.00	0.00	0.00	6 XB	0.30	Ð 00 🚯	0.00	000	00 9	0 00	4.99	0:00	0.00	141
Dis (ann) Es41 Rain		0 99	0.00	0 00	-0,00	4.34	0.00	0.00	0.00	0.00	0.00	6 00	0.00	0.00	600	6 00	8 00	4.00	0 00	00 0	0.00	0:00	0.00	0.00	0.00	0.00	0.00	0 O 0	0.06	8-00 8-50	0.00	1	0 18 3 3 4
ETo (mm)		7 80	7.00	1 00	7.00	2.90	7.00	1 00	Ť.00	7.00	7.00	7.00	2 00	2 OG 🕈	2.00	3 90	7.00	100	2.00	7 00	7.00	7 60	7.00	7.00	2 00	100	7.00	1 00	7 00	1 00	7.00	:	100
Soil ra cust. Actual ET	0.00																													8-00 8-00			434
Reneue		0.00	9.00	Ø.90	0.00	0.00	_0.00	000	007	0.00	0.00	0.00	6 00	0 00	000	9 90	<u>6 00</u>	0.00	0.00	0.00	0 00	0.00	0.00	0.00	Q 00	0 30	000	0 00	0.00	0 00	0.00	<u> </u>	0.20
JUN 1993																															- N		
Jern Rainfell				0.00		<u>. 9</u> 650	0.00	0.90	0.00	9. 100 -		<u>)1</u> 090	0.00							19 8 an		21 0.30			24				<u>24</u>		94 0.10		6-30
Du (mm)		0.00	0.00	0.00	C 00	0 00	0.00	0.30	0.00	0.00	0.00	0 QU	0.00	0 XQ	0 DO	0.0	0.02	0.90	90.9	8 GO	0 00	0.00	O.DC	0.00	6 06 1	0.00	0.00	6 00	i an	6 90	0.00	0.00	0.00
Elicess Rola ETo (mm)																														0.00 7.34			
Shilm and	0.00	0.00	0.00	ê 00	0.00	0.00	0.00	0.00	0.00	0 00	0.00	0.00	0.00	0.00	0:00	0 00	6 30	8.00	0.00	0 00	0.00	0.00	0:00	0 00	00-0	0.00	0.00	6.00	0.00	0.00	0.00	0.00	
Actual ET																														0 00 0 00			
Boby et	·	- ¥.92	¢ çu		1.00	, ,	- ¥¥	- 853	<u></u>	3.97	V.09	:	4.44	4 14	• •	<u>v vg</u>	<u></u>		<u></u>				×.,	<u> </u>	<u>4.4</u>	<u> </u>	<u></u>		9.47	<u>- 2 20</u>			<u></u>
August 1993 Len		,				-					10	- <u>-</u>	. 15	19	1		16	- 12 -			<u> </u>	<u>.</u> n.			74	- 14	24	37					
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Soit in gent. Actual ET	0.00						0.00			0.00							000 000	0.00			0-30 0-50	0-00 0-00				0.00		0.00	0.00	0-00 0-00	6 00 6 30	16-00 16-00	0.10
Recharge																														0.50			
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Excess Rain		0.00	9.00	0.00	6 90	0.00	6 00	0.00	0.90	0.00	0.00	0.00	0 D0	0.00	0 00	000	0.10	0 00	0 D0	0.00	010	009	0.00	0.30	0 () ()	00.9	00 ¢	000	0 OC 0	0.00	0.00		0:00
Ella (cum) Soli en cont	0.00	0.00	0,00	0.06	0.00	000	0.0	0:00	ð.00	0:0	0.00	0.00	0 O Ø	0 00	000	8.00	0.00	000	0.00	\$ 06 Ş	0:00	0.00	0.00	9 90	000	0.00	000	£ 30	0.00	479 000	00.9		(23.7
Actual ET	-																													0.00 0.00			6 00 6 00
Fortx ze			.v.sv	<u>y .</u>	4.00	4.0	9.00		¥ 00	VUV	•.w	<u>y 14</u>	<u>4.99</u>		x 9.	<u></u>			<u>y y)</u>	<u>v v</u>	4.00	<u></u>	<u></u>	4792		4 <i>9</i> 9	<u></u>	<u>w</u> (80)	<u>e 04</u>	0.00			0.00
October, 1993	<u>></u>	1		,						; <u>.</u>	14		**		14	24	,,,		14	1P		34	,,	,,,	رە	74							
Reinfalb		0.00	400				6.00	0.30		0.00	6.06	0.00	8 00	8.90	ê 00	8.00	000	0.00	0.00	0.0	0 DQ	0.00	0.00	0 00	8 no	0 X 0	¢ 00	8 (0)	0 (11)	0.00	6.00	0.90	0.00
Dis (m.n.) Enveys Ruin																														0:00 0:00			
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Neventer 15	31		<u>.</u> .											_																			l e
lta		1	1		4			1			10	. 11	14	Ú.	14	15	14	p.		19	n	- 21	21			25	.*	27		71	,10		
Rainfað Die (sem)																														0.00 0.00			600 600
En en Reis		0.00	8 90	6.00	6 90	0.00	0.00	0.90	0.00	è 00	0.00	0.00	00 Ø	0.00	0.00	D (10	00 Ø	0:00	00-0	8 30	0 00	00 Ø	C 90	0-90	0.00	0.00	0:00	0.00	6 20	0:00	6.00		0.00
ETa (mun) Soites cont	0.00																													2.44			742
Actual ET		0.00	0.00	0.00	0.00	0.00	000	0 30	0 00	0.00	Ð 06	Q 20	0.00	000	0.00	00 G	0.00	0.00	00 0	0.00	0 00	0-30	0.00	0:00	ene i	000	0 30	0.30	0.00	0.00	£ 00		0.00
Records		<u>v;0</u>	00.00	<u>x v</u>	<u>_0 00</u>	<u>v</u> 59	9.20	_0.02.		¥.00	192	<u>, 100</u>	÷ 00	U:Q	<u>v 90</u>	0.00	9.0	000	009	<u>u (00</u>	<u>9 30</u>	. <u>939</u>	.L.S	1.22.		<u>. 9</u>	0.00	0.00	0.0	0 ci	0:00	· · · -	<u>0 (4)</u>
December 15	93					<u>-</u> -			<u> </u>		:											<u> </u>								<u>-</u>			
ltan Rainfail		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000	0.00	0 OC	0.00	ê 30	6 DQ	0.00	0:0	0 00	000	0.00	8-30	21 0:00	000	0:00	0.00	0.00	6.09	0.00	- 34 - 00 6	0:0	000	0 20	6.00
Dis (mm) Excess Rain		0.00	0.00	600	000	0 00	6 00	0.95	0.00	600	0.00	0.90	0.0	0.00	0 DQ	0.00	000	9 90	ê D0	000	000	00.4	0.0	0.30	0.00	0.0	0.00	0.00	0.0	0-30 0-30	£ 50	0.00	ώ D()
E'To (mon)		1 63	163	163	1.63	16)	163	163	163	10	163	1 63	10	63	163	10	1.63	10	1 63	1.63	163	16)	163	63	163	163	163	1.63	143	163	143	1.63	
Solidic St. Actual ET	0:00	0:00	0.00	¢.00	0.00	000	6.0	0.00	000	6.00	0.00	00-0	6.0	0.30	6.00	0.00	0.30	0.00	ê 00 Q	0.00	4 39	e jo –	690	0:00	0.00	0.00	0.00	6 30	8.00	0-00 0:00	0.00	à nn -	
Ichen_		0.00	6.36								0.00	1.00.	¢20.	0.30																0:00 <u>0:00</u>			
		<u>. X</u> 4	£1					aer				dar in gi	214						+		÷	1.1										- neter r	
•	<u>Raia </u> 1753					48	0.5	- 63	6.9		Raie 1901								11.7.05	-1.19.E	_H12 =	ETOXO											
	100.1	. 11.	.71	<u>F1</u>			104				<u>101</u>																						

Table B.2.1 Results of Water Quality Test

District	Dem	Water Source* :	рH	æ	ħ6	SAA	500	000	Cl-	NO2.	N03-	NH4+	E Çok	Common Bacilus	\$\$	Temp
Queta	Wali Dad 1	Te		(µS) 250	(Ppm) 140	_(<u>\)</u> 2 26	(ppm) 0.8	(22m) 1.8	(ppm) 30.5	(ppm) 0.00	(£Pm) 15.31	(ppm) 0.55		Nil	(PPm) 70.0	C 19.5
	Wali Dad 2	TW	7.3	641	400	1.64	2.4	4.1	30 5	0 00	16.41	1.01	92	N.4	60.0	20 0
	Wali Dad-3 Wali Dad-4		7.2	280	160	2.07	1.9	3.7	20 2	0 00 0.00	14.88	0.62	[81 [61	Nil Nil	70 0 60 0	20.0
	Wali Dad-5 Barewary-1	PP SP	72	295	170	1.55	1.9	<u> </u>	20.5	0.00	29.97	0.39	151	Nil Nil	65 0 140 0	24 0 20 0
	Berewery-2	PP	7.2	219	120	0 54	1.1	05	10.3	0.00	24.50	0.31	181	Nil	65 Q	20 5
	Berewery-3 Berewery-4	PP SW	7.6	204	110	0 37 6 53	1.2 1.P	<u> </u>	299.1	0.91	16.41	0.39	9 161	Nil Nil	65 O 75 O	195
	Barewery-S Ghulai Shela-1	TW TY/	7.5	355	210	1.84	1.5	1.3	23.7 45.7	6.09	24.06	0.19	10 151	Nil Nil	65.0 80.0	19.5 19.0
	Ghulal She's-2	PP	73	912	590	2.11	2.4	4 2	34.0	1.52	31.72	0 23	5	Nil	90 0	20 4
	Ghulai Shea 3 Ghulai Shea 4	-TN SW	7.2	3064	2010	1.39	2.0	6.5 59	288.9	0.00	24.06 23.19	0.47 0.16	<u> </u>	Nil Nil	10.0 35.0	19.0 20.0
	Ghulal Shela-S Dara-1	TW TW	7.2	310		5.65	1.5	1.9	27.2	0.00	22.75	0.47	460	Nil Nil	60.0 75.0	22.0
	Dara-2	TW	7.6	1198	770	10.96	3.0	2.4	60.9	0.93	14 22	9.66	2	. Nit	15.0	27.0
	Dara-9 Dara-4	TW TW	7.3	189	100	7,45	1.7	1.9	54 2 47.5	0.00	23.41	0.47	5 10	Nil	35 O 30 O	27.0
	Dara-5 Kach-1	<u>TW</u>	7.2	265	150		15	0.9	23.7	183	24.06	0.58	- 6 161	Nil · · · · · · · · · · · · · · · · · · ·	40.0	27.0
	Kach-2	TW	7.4	370	220	8 36	1.1	0.5	23.7	0.00	20.78	9,43	100	Ne	35.0	28 0
	Kach-3 j Kach-4 j	TW	7.3	189	100	0.76 6.60	2 9	2 5	17.0	1.52 2.43	22.97	0.58 0.58	480	<u>Nil</u>	25 0 35 0	30 C 26 O
	(ach-5 Murgi Kotal-1	<u>TW</u>	73	445	270	7 06	1 6	0.6	30.5	3.04	24.50	0.54	5	Nol Nol	30.0	22.0
	Murgi Kotal-2 Murgi Kelal-3	SW	7.3	1273	820	16.35	0 9	28	\$1.0	0.00	12.03	0.43	161	Nit	25.0	19.0
	Murgi Kolsl-4 f	TW	7.3 7.2	325	240 190	8.74	1.4	1.0	54 2 30 5	1.22	15.59 9,84	0.43	160	NHNH	40.0	22.0
	Murgi Kotal-5 Khora Manda-1		7.2	430	250	12 22	1.8	0.5	49.7	0.91	9.84 13.13	0.58	54 151	<u>Nil</u> Nil	20 0	21.0
	Chora Manda 2 Chora Manda 3	172 TW	73	808	510	8 30	17	33	30.5	2 43	14.22	0 35	54	Nil	30.0	30.0
	Khora Manda 4	TW	7.3	2281	1490	9.06	1.2	5.3	336.4	1.83	10.94	0.47	460	Nil Nil	40.0	28 0
	Marium-1 Marium-2	SW	7.3	235	70	3.27 5.68		06	<u>8.5</u> 23.7	1 22	15.31	0.39	161	<u>Nił</u> Nił	40.0	15 Q 15 5
	Marium-3 Marium-4	5/V 5/V	7.3	235	130	1.82	1.3	0.4	7.3 8 5	1.63	14.22	0.35	161	Nd	35 0	15.0
Pistin	Sanzati 1	T/Y	7.4	608	510	7.60	0.9	1.7	57.7	2.74	27.34	0.43	54	Nð Nð	45.0	15 5 24 0
	Sanzali-2 Sanzali-3	TW TW	72	716 641	450	4.82	0.8	2.6	68 0	1.98	20.13	0.51	161 21	<u>Nil</u>	25.0 45 0	23.0
	Sanzali-4 Sanzali-5	Tel TW	7.4	1522	720	11.82	1.0	2.8	85 Q	1.83 2.43	20.78	0.47	1	Nil Nil	25.0 15.0	22 O
	Tickto-1	TNY	7.9	837	5 30	11.52	1.1	36	115.7	2.45	22.97	0.47	5	Nit	70 0	29.0
	Tirkha-2 Tirkha-3	TN TN	7.4	1875	1220	7.49	22	\$ 2 2 7	265 2	1.98	29.53	0.58	22 54	Nit Nit	65.0 15.0	26.0
	Bostan-1 Bostan-2	WT WT	7.1	219	120	5.09	25	0.9	30.8 61.2	1.40	22.97	0.51	2	Nit Nil	45.0	19 D
	Boslan 3	T/I TW	7.3	\$27	590	10 68	0.6	3.0	78.2	2.13	26.25	0.58	92		30 0	19.0
l	Khushab-1 Khushab-2	K2	7 7	1122	720	3 70	0.9	2.4	71.2	2.43	15.31 16.19	0.39	161 35	Nil	45 0	17.0
	Khushab-3 Khushab-4	RZ TW	7.3	837	280	25.60	0.8	2.9	54 2	3.65	14.22	0.27	181	- <u>Nil</u>	55.0 35.0	17.0
	Jigda-1 Jigda-2	SM SM	7.6	566	350	8.71	1.6	10	37.2	1.22	16.41	0 66	161	Níl	65.0	19.0
	liges-3	TW	7.5	716	450	1 27	0 9	1.0	54.5	0.91	15.31	0.54	161	NI NI	50.0 60.0	10.5
	Jigda 4 Jigda 5	TW . TW	7.4	430	300	1.35	2.8	1.7	<u>37.5</u> 51.9	9.04 2.13	17.50	0.31	92	NH	60 0	19.0
O Abdulah J		SP TW	72	280	160	0.76	- 1.9	2 2	10 3 30 5	0.00	29.53	0.31	460	N:)	\$5.0	16.0
	Arambi-3	SW	72	295	170	0.94	2 2	2.4	13.5	0.00	14.22	0.62	460	<u>. 1. Nol</u> Nol	95.0 95.0	19 0 15 0
	Arambi-4 Atambi-5	TW KZ	72	265	150	1 25	2.0	1.6	10.3	0.00	22.97	0.74	<u>Nil</u>	<u>N0</u>	100.0	16.5
	Sakhol 1 Sakhol 2	TW KZ	7 2	731 370	460	6.11	12	27	71.2	0.76	17.94	0.47	163	Nil	65 0	27.0
	Sekhol-3 Sekhol-4	SAV SAV	7.3	1378	990	2 29	1.4	37	152 9	3 65	12.03	0 27	3	N/	55.0	27.0
	Sakhol 5	SW	75	1303	040 1150	2 39	2.0	3.8 4.2	132.4	0.00	9.84	0.23	54 480	NH NH	130.0	27.0
	Amach-1 Amach-2	KZ TW	7.3	280	160	1.63	1.6	20	20.2	1.62	20.78	0.39	460	N-I N-I	30 0 60 0	18 0
	Amach-3 Mangi-1	TW TW	72	265	 680	1 24	1.5	3.1	23 7	0.91	25.16	0.54	181	Nil	70.0	18.0
	Mangl-2	T₩	7.4	957	610	5 63	1.2	22	77.9 01.5	2.13	14 22	0.74	161	Nd	45.0 45.0	25.0 23.0
	Mangi-3 Mangi-4	TW TW	72	1273	620 660	3 36	1.6	3.1	122.2	0 61	11.81 16.41	0.62	161	Net Net	55 Q 30 Q	55 Q
	Mangi-5 Mangi-6	TW TW	7 2	204	110	7 20	1.4	0.8	125.7	1 22	\$0.94	0.43	460	Nð	25.0	22 0
	Mangi-7	TW	7.2	1107	710	4.46	1.8	2	74.7	1.07	17.50	0 21 0 66	161	<u>Nit</u> N:t	25 0 50 0	21.0
	Mangi-8 Mangi-9	TW TW	7.4	748 716	470	6.13	1.9		122 2	2.13	16.41	0.74	161	Nil.	65 Q 15 Q	22 D 21 5
	Kad Kocha II-1 Kad Kocha II-2	TW TW	72	235	130	1 95	20	1.3	23 7 23 7	0.01	12 03	0.62	3	Nil Nil	15.0 30 0	21 0
	Kad Kocha II-3 Kad Kocha II-4	TA	7.2	581	350	6 00	0 9	1.7	57.7	1 52	15.31	0.43	161	Nit	30.0	50 0
	Kao Kocha II-5	TW TW		265 295	150	1 32	<u>1.6</u> 2.5	12	27.0 37.2	0.00	10.94	0.58	161		30 D 30 D	21.0 21.0
	Kad Kocha 1-1 Kad Kocha 1-2	Tw Tw	72	250	140	4 25	19 1.8	0.0	23.7 37.2	2.13	9 84	0.43	161	NU	20 0 45 0	22.0
	Kad Kocha 1-3	TW SP	7.3	265	150	1.70	1.3	0.4	30 5	2.74	15.31	0.47	22	- N0	25 D	21.0
	lska koo-1 Iska koo-2	SN	7.3	280 430	160 260	0 83	1.6	20	20 2 44 2	1 52	20.78 17.06	0.39	460		30.0 60.0	15.0 16.0
	lska'koo-3 lsha'koo-4	SP SN	72	265	150	1.04	1.5	31	23.7	0.01	25.16	0.54	151	Nil	70.0	15.0
	S41 100-5	SP SP		385	230	1.54	1.4	3 3	30.5	0 00	17.06	0.93	143	Nil Nil	14 0 60 0	16 0 15 0
	Gorpad 1 Gorpad 2	SP	73	4765	3140 1470	51 20 12.14	0.6	<u>6.1</u> 1.1	669.5 285.4	0.00	11.38	0.97	11	L NIL Nil	59.0 105.0	28.0
	Gorpad-3 Laghmgir-1	SP TW	7 2	1484	350	3.82	1.6	5.5 1.4	197.2	0.00	16.63	0 89	10 5	Nd	50 Q	25 0
1	Leghingir-2	TW TW	7.7	1047	670	2.63	1.8	0 5	71.2	6.09	16.41	0.74	161	N# N#	45 0 35 0	18.5
	Leghingir-3 Leghingir-4	TW	7.6	882 686	430	2.64	1.5	20	11 2	0.01	13.13	0.53	- 161 -	<u>N9</u>	35.0	20 0 19 0

Notes: TW+Tobewell, SW+Shaflow walk, KZ = Karez, SP+Spring, PP+Pipe

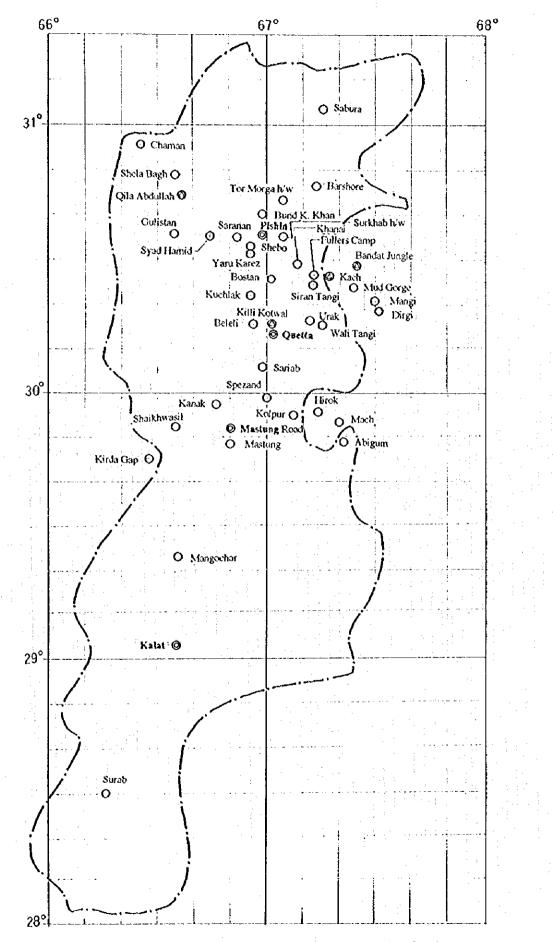
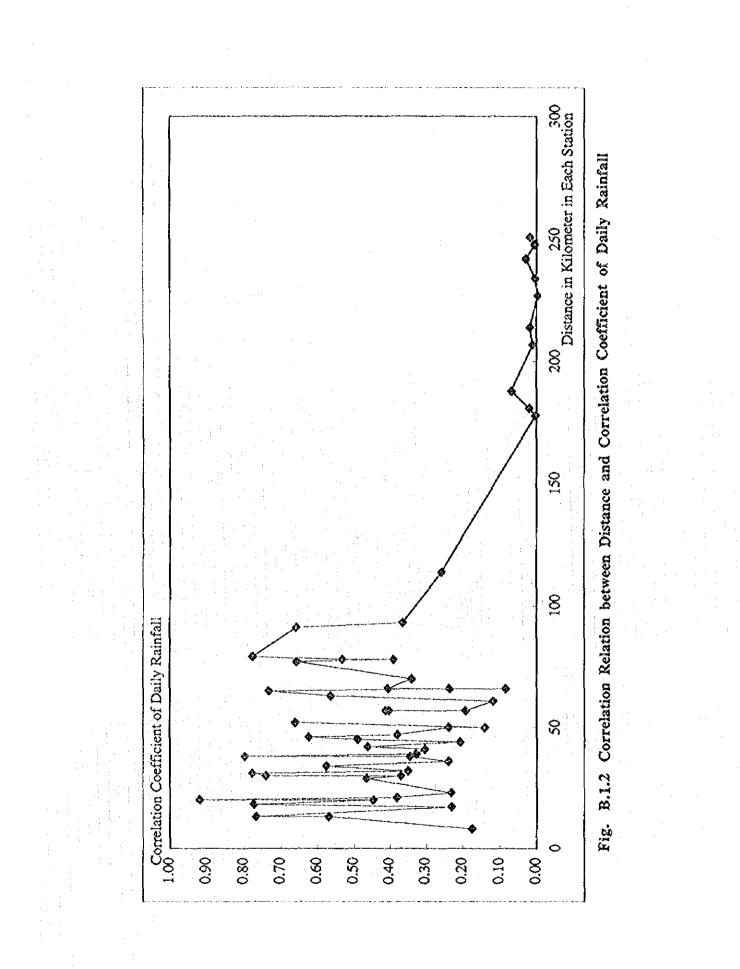


Fig. B.1.1 Climatic Stations Concerned in the Study Area



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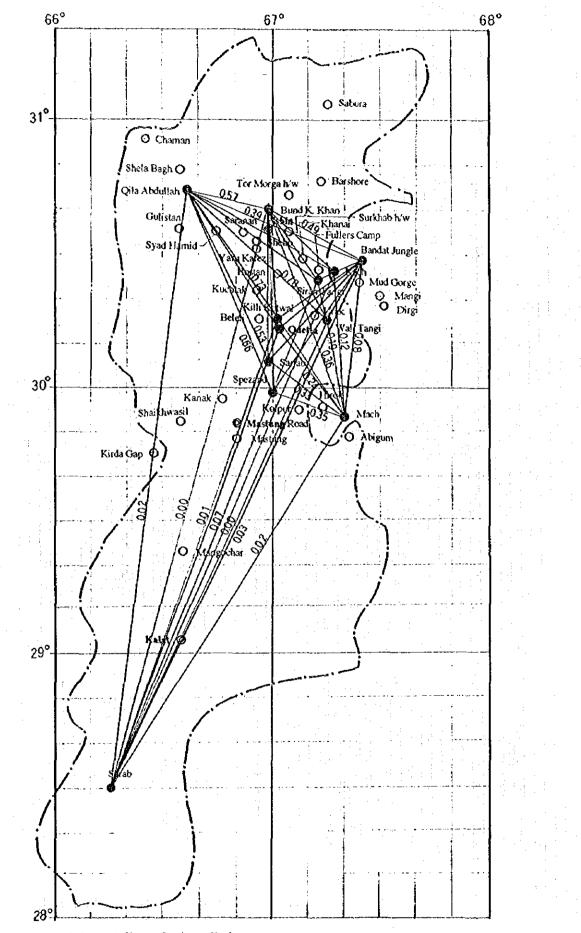


Fig. B.1.3 Correlation Relation among Ralated Stations

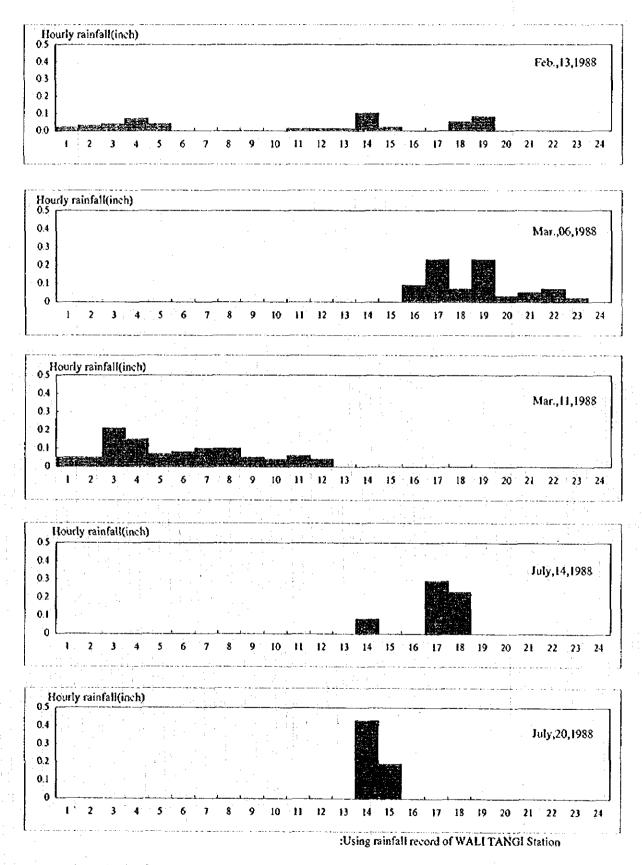


Fig. B.1.4 Comparison between Typical Winter Rainfall and Summer Rainfall

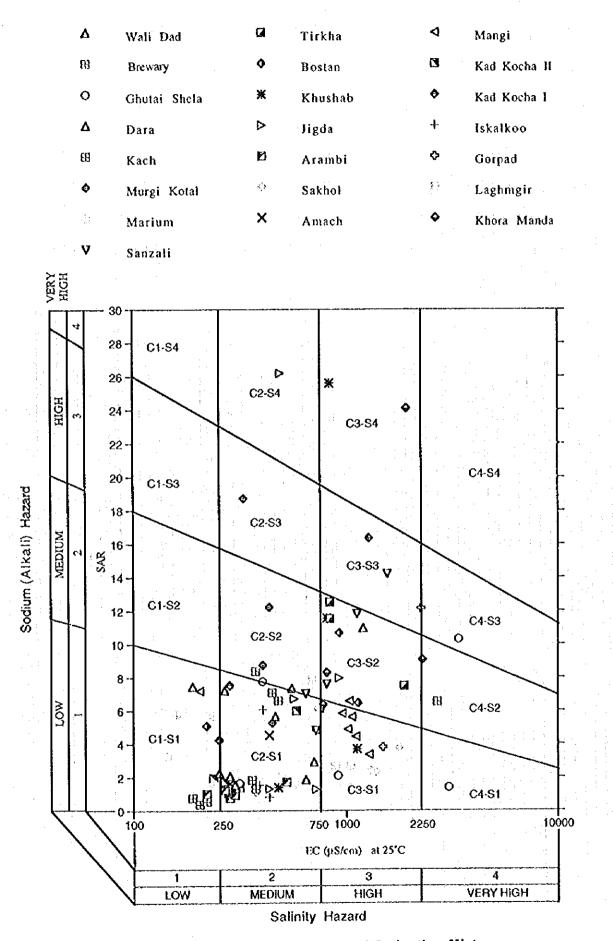


Fig. B.2.1 Classification of Irrigation Water