TR- 150.

HYDROLOGICAL YEAR BOOK MALAPRABHA SUB-BASIN 1988-89

NATIONAL INSTITUTE OF HYDROLOGY
JAL VIGYAN BHAVAN
ROORKEE-247 667 (UP)
INDIA

PREFACE

The water resources play a key role in the development of a country. These projects need careful planning and after their completion the planning of a water resources projects require adequate reliable hydrological and hydrometeorological data. The rainfall data is being published by India Meteorological Department and other organisations on regular basis and the stream flow data is published by Central Water Commission and State Irrigation Department. But the planning of a project needs much more hydrological information which is not generally available. The hydrological year books are suppose to provide all the necessary possible information required for the purpose in a particular sub-basin.

The Hydrlogical Year Book for Malaprabha sub-basin of Krishna Basin contains description of river basin, present status of water resources development, existing net work of hydrological stations and their salient features. A number of maps have been included in this publication which include Index map, Contour map, Location of Raingauge and Gauge discharge sites, Location of Ground water observation wells, Soil and land use maps, Normal Isohyetal map and Drought prone area map.The cross-section of the site has also been included. The monthly rainfall and ten daily flow data for the gauging sites have been presented from the start of the observation to 1989. Since this publication relates to the hydrological year 1988-1989, the hourly and daily rainfall data, Vapour pressure, wind, temperature, pan evaporation data for the observation site, daily gauge and discharge data for the measuring sites and the monthly data of ground water levels of the observation wells, for the year 1988-1989, have been included. Some relevant information for the Malaprabha reservoir is also provided.

Earlier the Institute has prepared a hydrological Year Book for Hemavathy sub-basin which was appreciated by different organisations and Government of Karnataka in particular. This has encouraged the Institute to bring out a Hydrological Year Book for the Malaprabha sub-basin, one of the catchments taken up for representative basin studies by the NIH Hard Rock Regional Centre at Belgaum.

For preparation of this publication, the data supplied by Water Resources Development Organisation, Karnataka and information available in NWDA report, and from various organisations for making available the necessary data for including in this publication.

This Hydrological Year Book was prepared by Sh. Surendra kumar, Sc.`B´, Sh. Mathewkutty Jose, SRA, Sh. B.K.Purandara, SRA, Sh. N. Varatharajan, RA, Sh.U.V.N.Rao, RA, and Sh. M.K. Sharma,RA under the guidance of Sh. K.S. Ramasastri, Sc.`E´ and Head of the Hard Rock Regional Centre, Belgaum.

SATISH CHANDRA
DIRECTOR

CONTENTS

12 GROUND WATER LEVELS (monthly)

78 -79

District : Belgaum

(a)	Belgaum	----1986-89
(b)	Desur	----1986-89
(c)	Suttagatti	----1986-89
(d)	Bailhongal	----1986-89
(e)	M.K.Hubli	----1986-89
(f)	Hulikatti	----1986-89
(g)	Khanapur	----1986-89
(h)	Bidi	----1986-89
(i)	Gunji	----1986-89
(j)	Belwadi	----1986-89
(k)	Muncli	----1986-89
(l)	Saundatti	----1986-89
(j)	Ramdurg	----1986-89

80

District : Bijapur

(a)	Badami	----1974-89
(b)	Hungund	----1972-89

81

District : Dharwad

(a)	Dharwad	----1986-89
(b)	Hubli	----1986-89
(c)	Tadas	----1986-89
(d)	Shiggaon	----1986-89
(e)	Annigere	----1986-89
(f)	Gadag	----1986-89
(g)	Ron	----1986-89

1.0 INTRODUCTIRON :

The first and foremost requisite for the planning of water resources development is accurate data of stream flow, or in other words, the surface runoff for a considerable period of time so as to determine the extent and pattern of the available supply of water. The supplimentary data like hydrometeorological data forms the basis for reliable planning and their importance cannot be ignored. There are various agencies engaged in taking measurement of quantity and quality of water flowing in a basin. These data are recorded and archieved in different forms ranging from manuscripts to magnetic tapes. The data available is found in scattered form. Therefore, there is a need to compile the data and publish it in a form which is convenient for carrying out further hydrological analysis. Keeping this objective in view, a hydrological year book for Malaprabha sub basin in the Krishna basin for the year 1988-89 is prepared on the lines of Hydrological Year Book for Hemavathy, published by National Institute Of Hydrology.

In this Hydrological Year Book prepared by the Regional Centre of National Institute of Hydrology at Belgaum, necessary information regarding soil, climatic condition, land use pattern, drought prone area etc., have been provided. It includes maps showing raingauge, streamgauge sites and others. This report also contains certain statistical details besides the hydrological data.

2.0 THE RIVER AND THE CATCHMENT :

The Malaprabha river is one of the main tributaries of the river Krishna. It has its source in the Western Ghats at an altitude of 792 m about 36 km south west of Belgaum district in Karnataka state. It travels a distance of 306 km. in Belgaum and Dharwar districts before joining river Krishna at Kapil Sangam.

The stream Bennihalla and Harinalla are important tributaries of this river. The average slope of the river is 0.99m/km. The area drained by this river from its origin to its cenfluence with Krishna is 11,549 sq. Km. The shape of the sub-basin is triangular in general. The terrain is flat to gently undulating except for a few hillocks and valleys.

The sub-basin has a wide range of temperature variations. Excluding hill stations, the temperature varies between 6.7 ^{o}C to 41.7 ^{o}C. In general the climate of the sub-basin is dry except in monsoon months. The mean relative humidity is high during the south-west monsoon season and comparatively low during the non-monsoon period.

The sub-basin is covered by different types of soils namely medium black soil, deep black soil, mixed red and black soils. In these soils, a variety of crops like jowar, wheat, millets, cotton, groundnut, paddy, tobacco, maize, sugarcane etc. are grown. The total culturable area is about 11.3% of the total area. A vast area of the sub-basin is under forest cover.

SALIENT FEATURES

Sub-Basin : Malaprabha

Basin : Krishna

River

1. Origin : Westerm Ghats at an altitude of 792 m. about 35 km south-west of Belgaum district in Karnataka state.

2. Length : (a) Total : 306 km.
(b) Direction : Initally east and then north-east
(c) Slope : 0.99 m/km

3. Tributaries : Bennihalla and Harinalla

4. State/Districts (through which the river flows)
: Karnataka state
Belgaum, Bijapur, Dharwad and Raichur districts.

5. Confluence : With river Krishna at Kapil Sangam.

Basin

1. Location : In the Karnataka State

2. Toposheet reference : 48 I, 48 M

3. Shape : Triangular

4. Catchment area : 11,549 sq. km.

5. Soil : (a) Deep black soils (29%)
(b) Medium black soils (12%)
(c) Red sandy soils (20%)
(d) Mixed red and black soils (35%)
(e) Red Loamy soils (4%)

6. Average Elevation : Varies from 482 m to 792 m. above MSL.

3.0 DEFINITION OF TERMS :

Discharge	: The volume of water and sediment past a section per unit time. The discharge values are presented in cumecs.
Stage	: The water level expressed in meters at the gauging site.
Rainfall Depth	: The amount of water received over the catchment as rainfall and is expressed as depth.
ORG	: Ordinary raingauge station for measuring Daily Rainfall received between 8.30 am of previous day to 8.30 am of the current day.
SRRG	: Self-recording raingauge.It makes continuous recording
CUMECS	: Cubic Metres per second.

4.0 WATER RESOURCES DEVELOPMENT :

The major storage scheme in the Malaprabha sub-basin is Malaprabha Dam, Fig.2. the details of which are given as below:

(a) Malaprabha Dam:

It is a composite dam of 154.53 m length and 40.23 m height at Naviluteerth in Saundatti Taluka of Belgaum district. It has the gross capacity of 1068 MCM at FRL 633.83 m. The catchment area upto the dam site is 2564 sq. km. with the yield of 1205 MCM.

(b) Malaprabha Right Bank Canal:

Malaprabha Right Bank Canal is 138 kms. in length and has a major branch canal viz Naragund Branch Canal of 42 kms. in length. This canal takes off from the head regulator and runs through the Yallamma Hills through a 4.8 km. long tunnel. The canal crosses Tuprinalla (at km 29) and Bennihalla (at km 69) through aquaducts. It has two branches Alur East and West in km 112. This has a command area of 1,31,827 acres in Navalgund, Nargund and Ron Taluks of Dharwad District.

(c) Malaprabha Left Bank Canal:

Malaprabha left Bank canal is 169 kms in length with Yeragatti L.I. scheme by lifting of water at km.9 of canal. This canal takes off from the main dam on the left flank, piercing through the left side hill range through a tunnel of 1408 m long. The canal further crosses hill ranges near Katakal (Km 28 to 31) and Mudakavi (km 65 to 69) through tunnels. The command area of 53,134 acres lies in Saundatti and Ramdurg Taluks of Belgaum district, a Chronically drought affected area.

(d) Kolchi Right Bank Canal:

The canal takes off from right bank of kolachi weir near Ramdurg Kolchi Right Bank canal is 64 kms in length and irrigates 8004 ha. (20,000 acres) of land in Ramdurg, Badami, Nargund and Ron talukas.

(e) Lift Irrigation Schemes:

Eight numbers of Foreshore Lift Irrigation schemes are taken up to provide irrigation facilities to the displaced persons rehabilitated along the foreshore of the reservoir.

5 0 NETWORK OF HYDROMETEOROLOGICAL STATIONS :

Water Resources Development Organisation (WRDO), Karnataka is maintaining three Hydrometeorological Observatories in the sub basin. These are Khanapur, Santibestwad and Malaprabha dam site. Besides these, there are three observatories nereby this sub basin, namely, at Belgaum, Haveri and Hungund. Meteorological parameters like rainfall, temperature, evaporation, relative humidity, wind velocity, vapour pressure, soil temperature and soil moisture are observed at these hydrometeorological stations. They are given in table and shown in map. Twenty six raingauge stations are in operation in and around the sub basin and these are maintained by WRDO and other Agencies like National Institute of Hydrology. The list of raingauge stations is given in table and shown in map.

5.1 LIST OF HYDROMETEOROLOGICAL STATIONS :

Sl.No	Name of the station	Location Lat(N)	Lon(E)	Elevation m above msl	Agency
1.	Khanapur	15° 38′	74° 31′	668.00	WRDO
2.	Naviluteerth (Dam)	15° 49′	75° 07′	697.38	ID,K
3.	Santibestwad	15° 46′	74° 24′	762.00	WRDO
4.	Belgaum	15° 51′	74° 37′	747.40	IMD
5.	Hungund	16° 04′	76° 03′	570.20	WRDO
6.	Dharwad	15° 27′	75° 00′	755.90	WRDO

5.2 LIST OF RAINGAUGE STATIONS

RAINFALL STATIONS SRRG

Sl.No	NAME OF THE STATION	LOCATION		ELEVATION	
		LAT	LONG		
1.	BELGAUM	15° 51′	74° 37′	747.40	IMD
2.	NAVILUTEERTH	15° 49′	75° 07	697.38	WRDO
3.	SANTIBASTWAD	15° 46′	74° 24′	762.00	-do-
4.	KHANAPUR	15° 38′	74° 31′	668.00	-do-

ORG

Sl.No.	NAME OF THE STATION	LOCATION		ELEVATION	
		LAT	LON		
1.	ASOGA	15° 36′	74° 29′	670.56	WRDO
2.	BAILAHONGAL	15° 48′	74° 51′	666.56	-do-
3.	BELWADI	15° 43′	74° 55′	690.90	-do-
4.	BIDI	15° 34′	74° 39′	664.00	-do-
5.	DESUR	15° 45′	74° 30′	750.00	-do-
6.	JAMBOTI	15° 36′	74° 29′	868.00	NIH
7.	KANKUMBI	15° 22′	74° 22′	762.00	WRDO
8.	KATAKOL	16° 00′	75° 08′	640.00	-do-
9.	KHANAPUR	15° 38′	74° 31′	668.00	-do-
10.	M.K.HUBLI	15° 44′	74° 42′	658.00	-do-
11.	NAVILUTEERTH	15° 49′	75° 07′	697.38	-do-
12.	RAMDURG	16° 45′	75° 15′	556.93	-do-
13.	SOUNDATTI	15° 47′	75° 05′	658.80	-do-
14.	SUTAGATTI	15° 33′	74° 32′	803.80	-do-
15.	YARAGATTI	15° 57′	74° 02′	685.80	-do-
16.	BADAMI	15° 55′	75° 41′	503.65	-do-
17.	BAGALKOT	16° 04′	75° 12′	518.80	-do-
18.	BEVUR	16° 54′	76° 12′	585.20	-do-
19.	GUDUR	15° 57′	75° 50′	554.73	-do-
20.	GULEDAGUDDA	16° 03′	75° 48′	543.00	-do-
21.	HUNGUND	16° 04′	76° 03′	570.20	-do-
22.	KUDALASANGAM	16° 12′	76° 05′	449.90	-do-

6.0 NETWORK OF HYDROLOGICAL STATIONS

There are three gauge discharge sites on river Malaprabha. The sites are being maintained by Water Resources Development Organisation. Two of the gauge sites at Santhebestwad and Bidi have recently been closed and the remaining at Khanapur is in operation. A brief description of these sites is given below:

6.1 MALAPRABHA AT KHANAPUR

Name of the site	:	Khanapur
Status	:	Gauge discharge
River system	:	Krishna
Main river	:	Malaprabha
State	:	Karnataka
District	:	Belgaum
Longitude	:	74° 31' 00"
Latitude	:	15° 38' 00"
Catchment area up to the site	:	326 sq. Km.
R.L. of the zero of the gauge	:	639.09 m
Date of start	:	June 1972
Data availability	:	June 1972 onwards

The site is situated near the bridge on Khanapur- Panaji National Highway no. 4A. The river course is meandering but at the site the river is straight and the velocity may be assumed to be uniform over a small stretch. Discharge measurements by current meter were commenced during 1972. The velocity measurements were taken at four places in each segment to account for the variation of velocity and depth along the span.

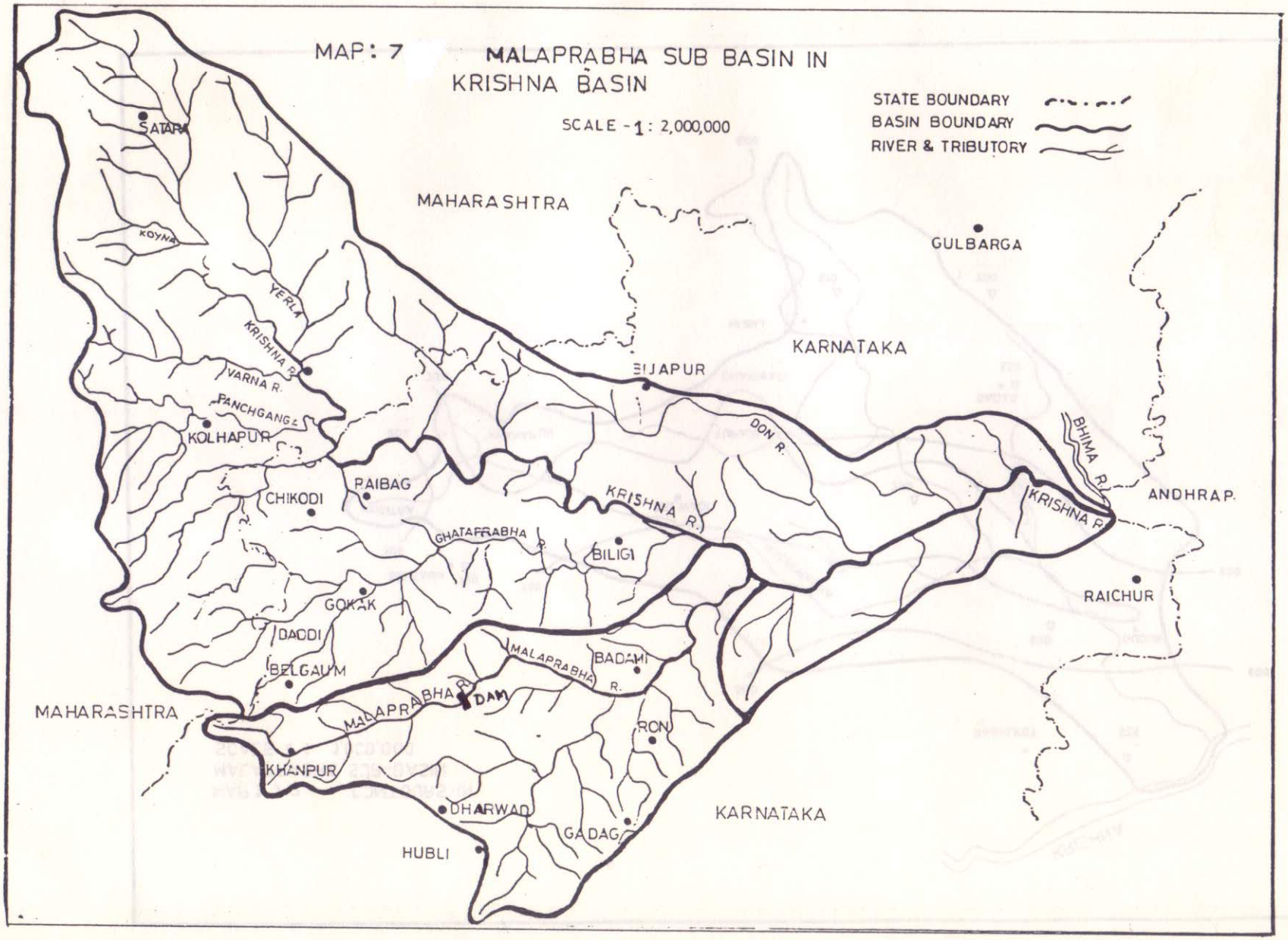
6.2 MALAPRABHA AT SANTHEBESTWAD

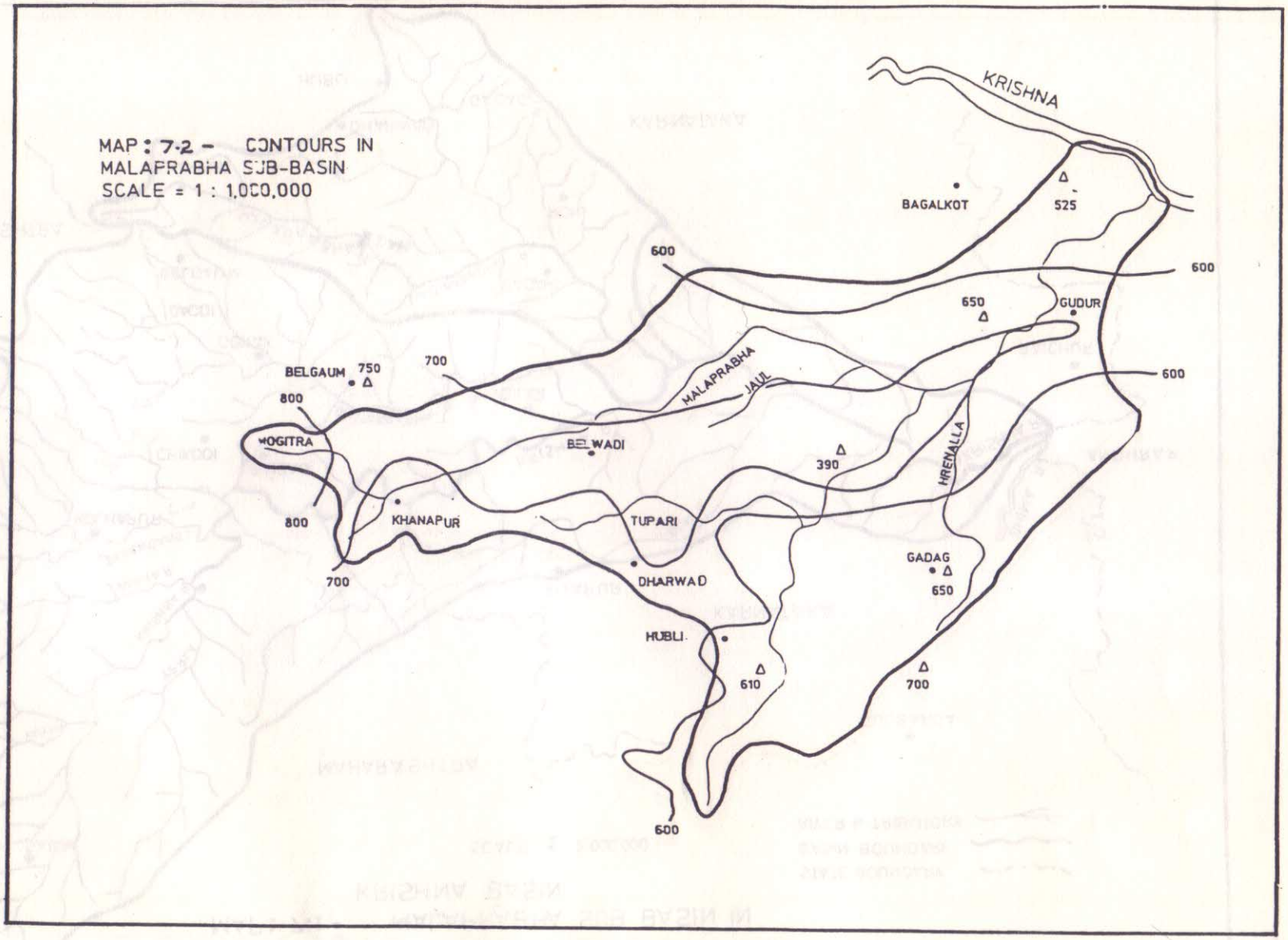
Name of the site	:	Santhebestwad
Status	:	Gauge discharge
River system	:	Krishna
River	:	Mogitra Nalla
State	:	Karnataka
District	:	Belgaum
Longitude	:	74° 27" 00"
Latitude	:	15° 46' 00"
Catchment area up to the site	:	37.24 sq. Km.
R.L. of zero of gauge	:	729.20 m
Date of start	:	July 1969
Data availability	:	July 1969 onwards

6.3 MALAPRABHA AT BIDI :

Name of the site	:	Bidi
Status	:	Gauge discharge
River system	:	Krishna
River	:	Satti Nalla
State	:	Karnataka
District	:	Belgaum
Longitude	:	74° 39' 00"
Latitude	:	15° 34' 00"
Catchment area upto the site	:	82.88 Sq.Km
R.L. of zero of gauge	:	?
Date of start	:	July 1979
Data avalaibility	:	July 1979 onwards

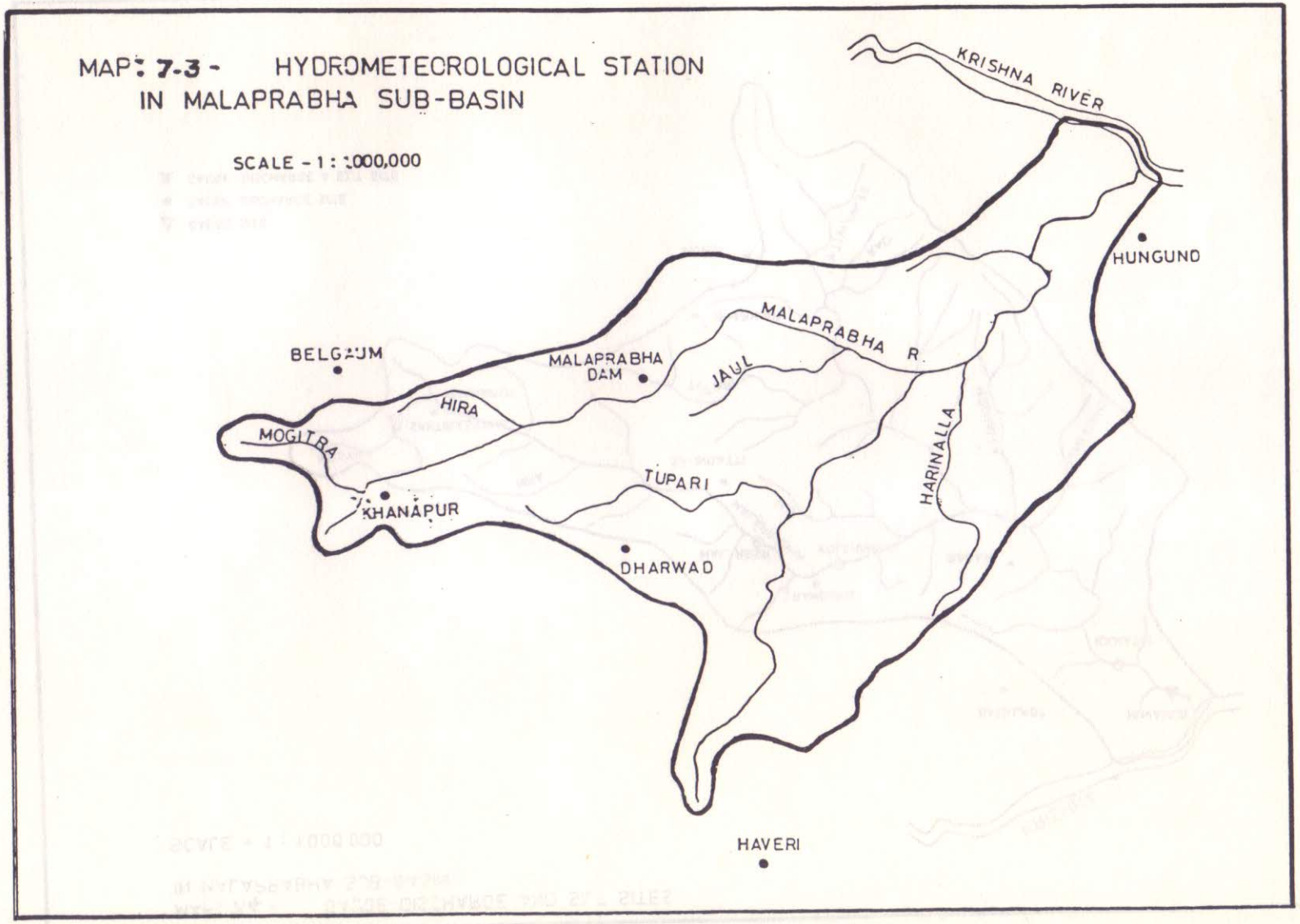
7.0 - MAPS


MAP: 7 MALAPRABHA SUB BASIN IN KRISHNA BASIN
SCALE - 1 : 2,000,000
STATE BOUNDARY
BASIN BOUNDARY
RIVER & TRIBUTORY
SATARA
MAHARASHTRA
KOYNA
YERLA
KRISHNA R.
VARNA R.
PANCHGANGA
KOLHAPUR
CHIKODI
PAIBAG
GULBARGA
KARNATAKA
BIJAPUR
DON R.
BHIMA R.
ANDHRA P.
KRISHNA R.
KRISHNA R.
GHATAPRABHA R.
BILIGI
RAICHUR
GOKAK
DADDI
BELGAUM
MALAPRABHA R.
BADAMI
MAHARASHTRA
MALAPRABHA R.
DAM
RON
KHANPUR
DHARWAD
KARNATAKA
GADAG
HUBLI


MAP : 7-2 - CONTOURS IN
MALAPRABHA SUB-BASIN
SCALE = 1 : 1,000,000
KRISHNA
BAGALKOT
525
600
600
650
GUDUR
600
BELGAUM
750
700
MALAPRABHA
JAUL
800
MOGITRA
BELWADI
390
HIRENALLA
800
KHANAPUR
TUPARI
700
DHARWAD
GADAG
650
HUBLI
610
700
600

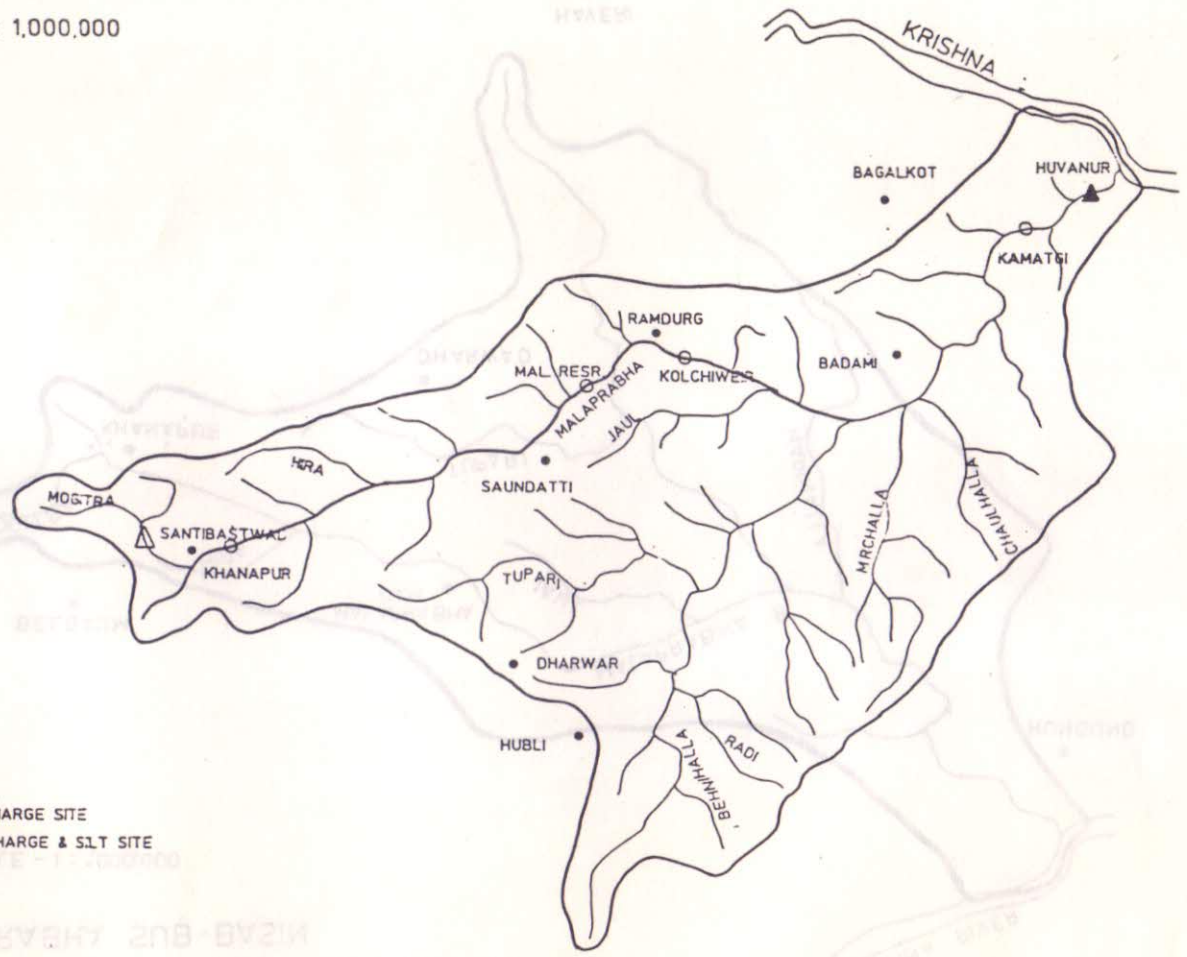
MAP : 7-3 - HYDROMETEOROLOGICAL STATION IN MALAPRABHA SUB-BASIN

SCALE - 1 : 1000,000

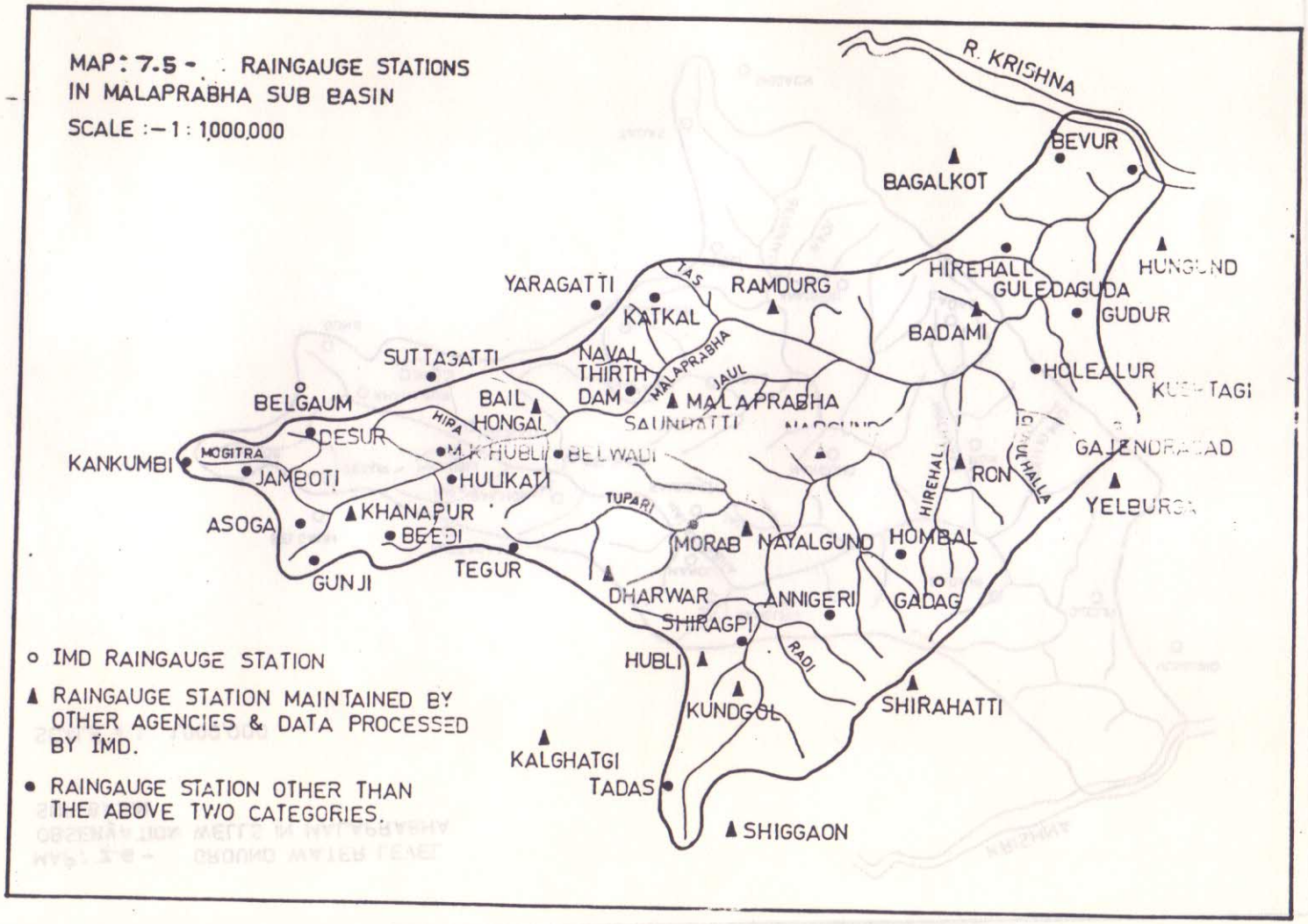


MAP: 7.4 - GAUGE-DISCHARGE AND SILT SITES
IN MALAPRABHA SUB-BASIN

SCALE = 1 : 1,000,000

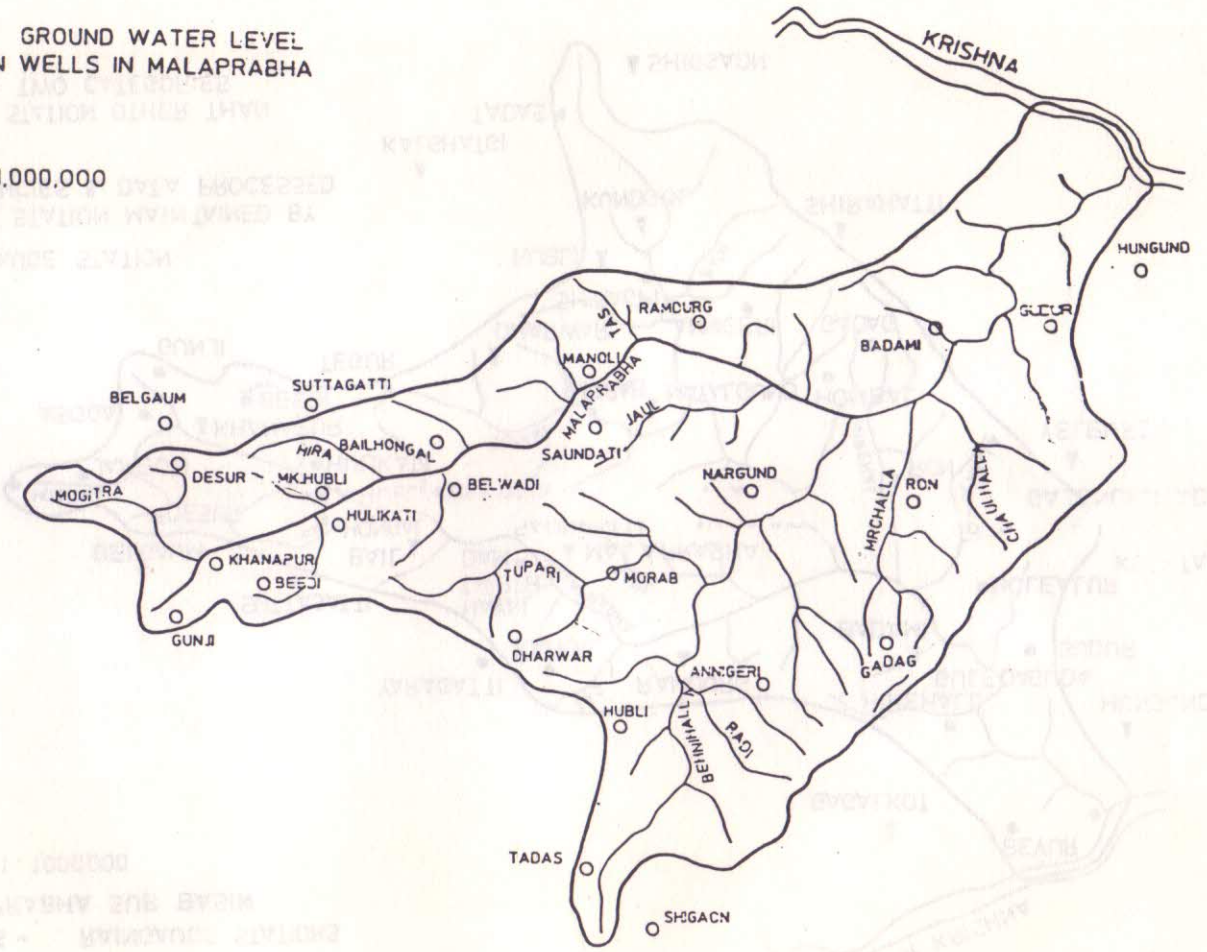


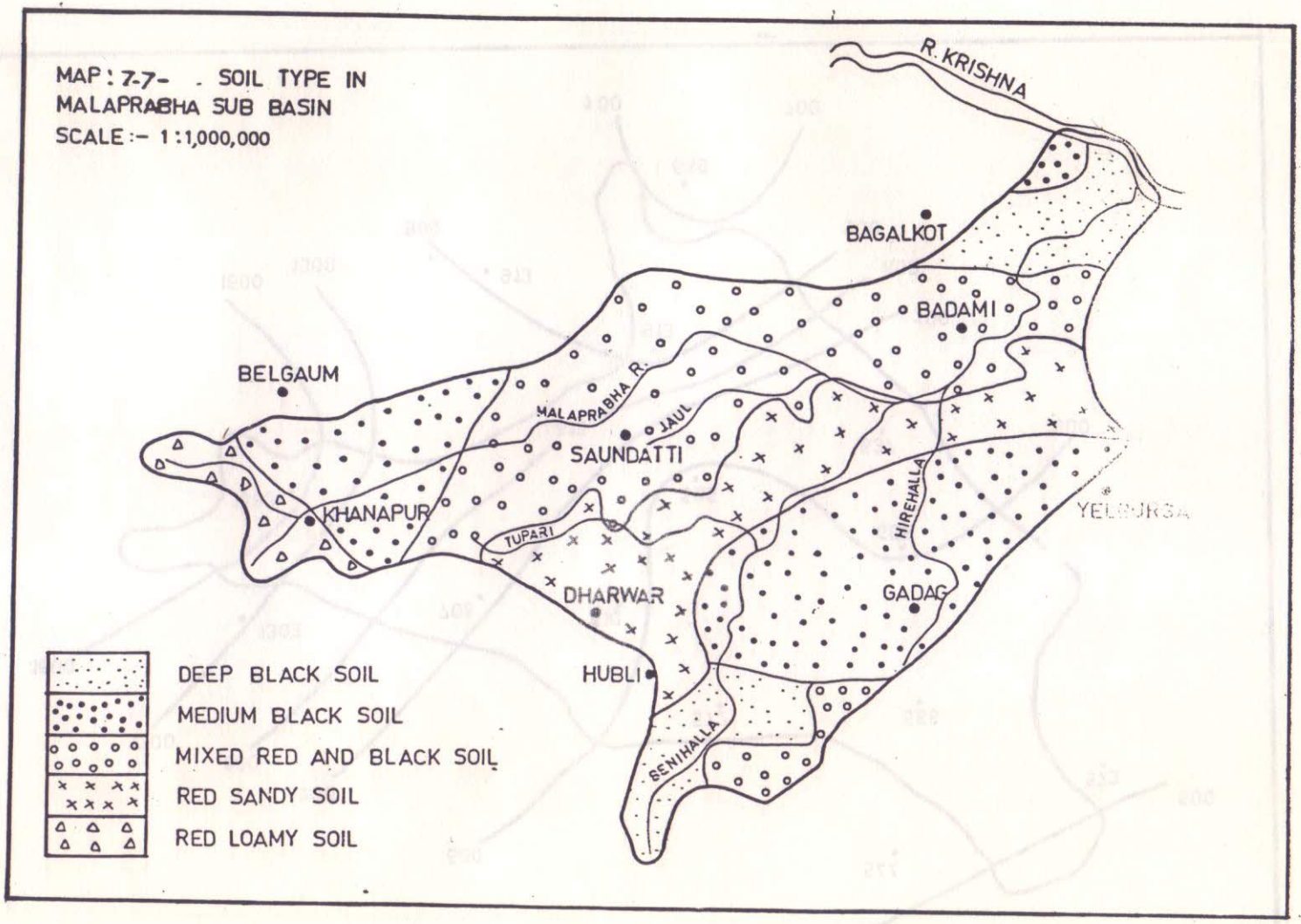
△ GAUGE SITE
● GAUGE DISCHARGE SITE
▲ GAUGE, DISCHARGE & SILT SITE

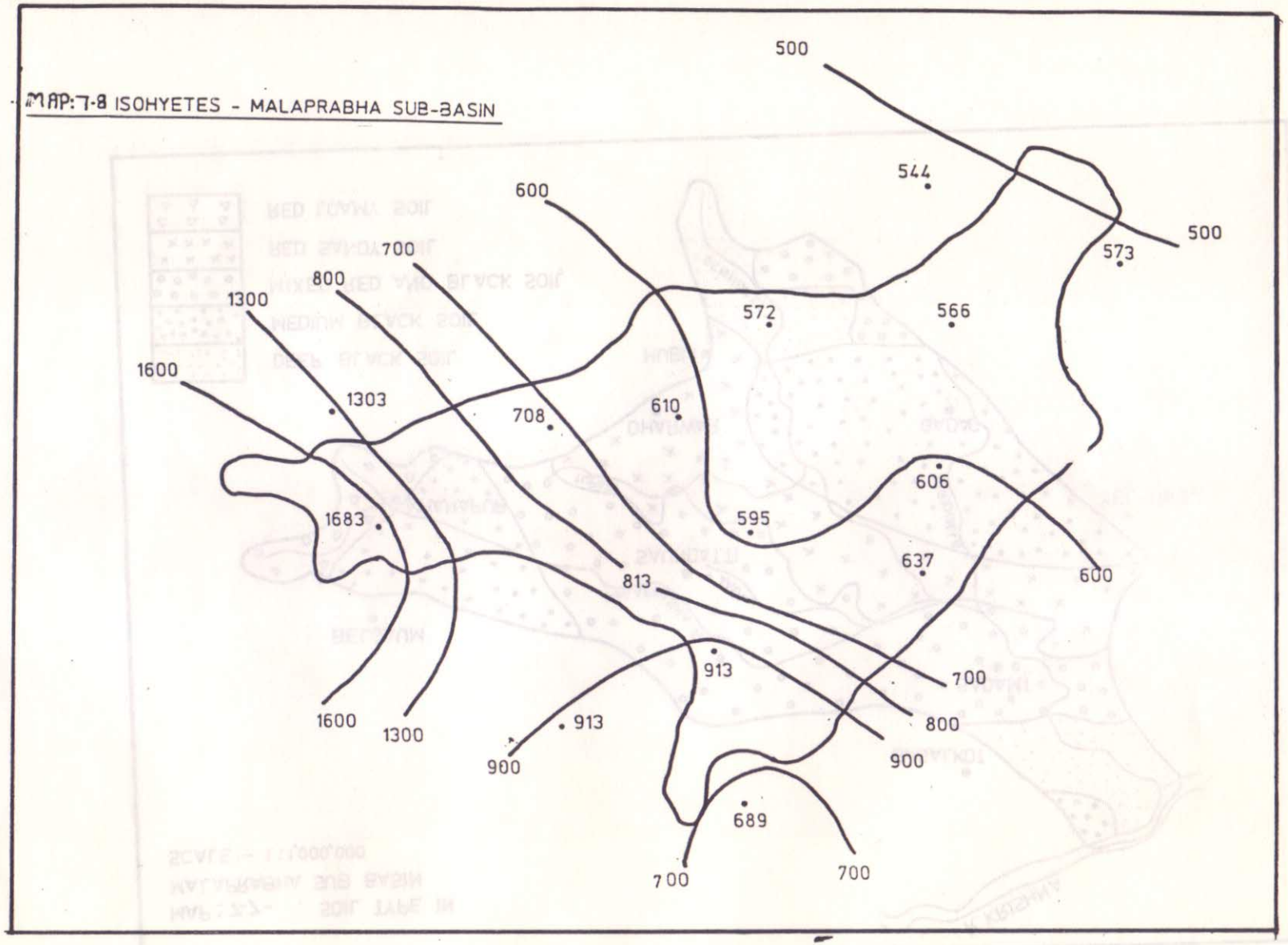

MAP : 7.5 - RAINGAUGE STATIONS
IN MALAPRABHA SUB BASIN
SCALE :— 1 : 1,000,000
R. KRISHNA
BEVUR
BAGALKOT
HUNGUND
HIREHALL
GULEDAGUDA
GUDUR
YARAGATTI
TAS
RAMDURG
KATKAL
BADAMI
SUTTAGATTI
NAVAL THIRTH
MALAPRABHA
JAUL
HOLEALUR
KUSHTAGI
BELGAUM
BAIL HONGAL
DAM
MALAPRABHA
HIRA
DESUR
M.K.HUBLI
BELWADI
GAJENDRAGAD
KANKUMBI
MOGITRA
JAMBOTI
HULIKATTI
RON
HIREHALL
GUDIHALLA
YELBURGA
TUPARI
KHANAPUR
ASOGA
BEEDI
MORAB
NAVALGUND
HOMBAL
GUNJI
TEGUR
DHARWAR
ANNIGERI
GADAG
SHIRAGPI
HUBLI
RADI
KUNDGOL
SHIRAHATTI
KALGHATGI
TADAS
SHIGGAON
o IMD RAINGAUGE STATION
▲ RAINGAUGE STATION MAINTAINED BY OTHER AGENCIES & DATA PROCESSED BY IMD.
• RAINGAUGE STATION OTHER THAN THE ABOVE TWO CATEGORIES.

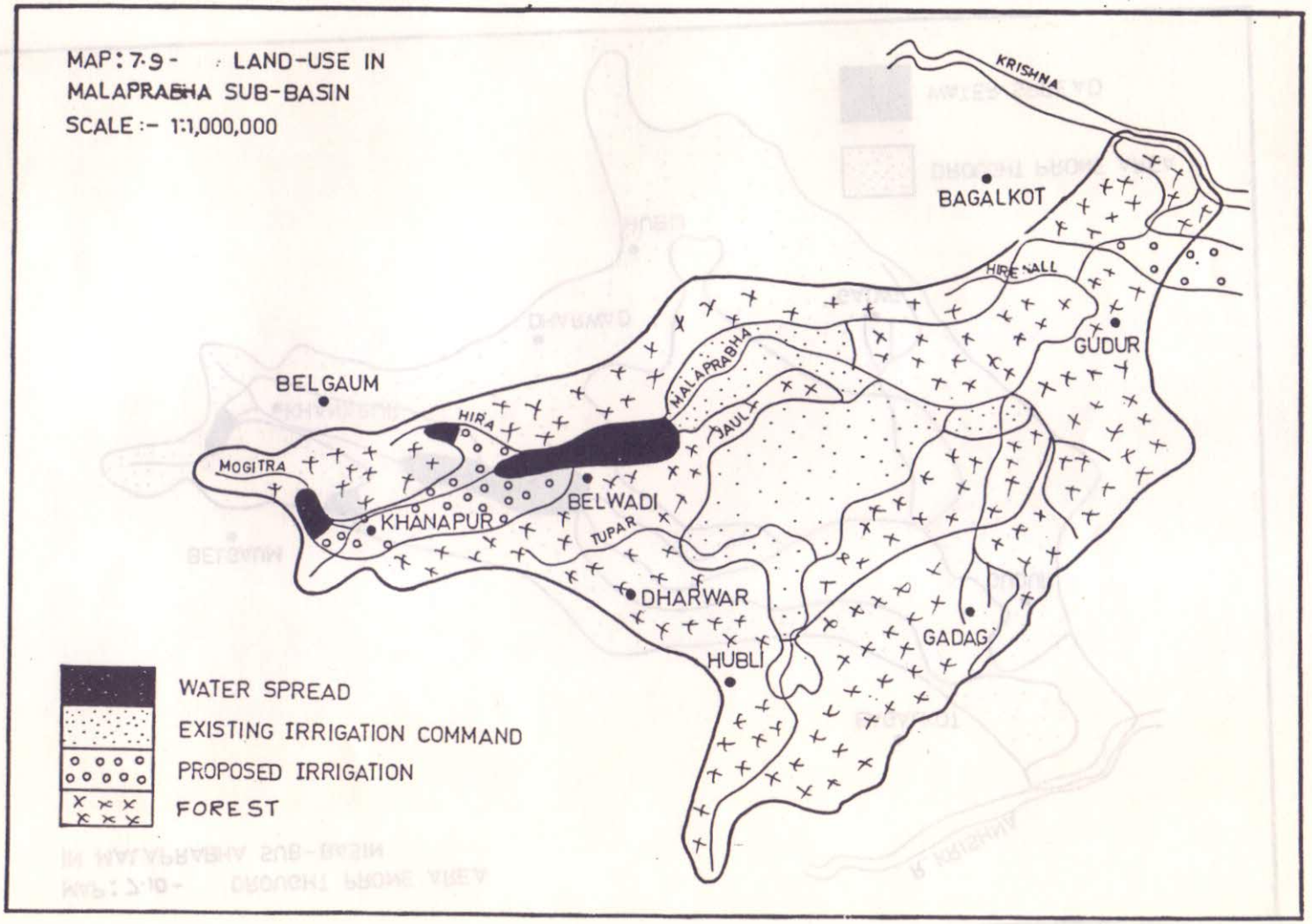
MAP : 7.6 - GROUND WATER LEVEL OBSERVATION WELLS IN MALAPRABHA SUP-BASIN.

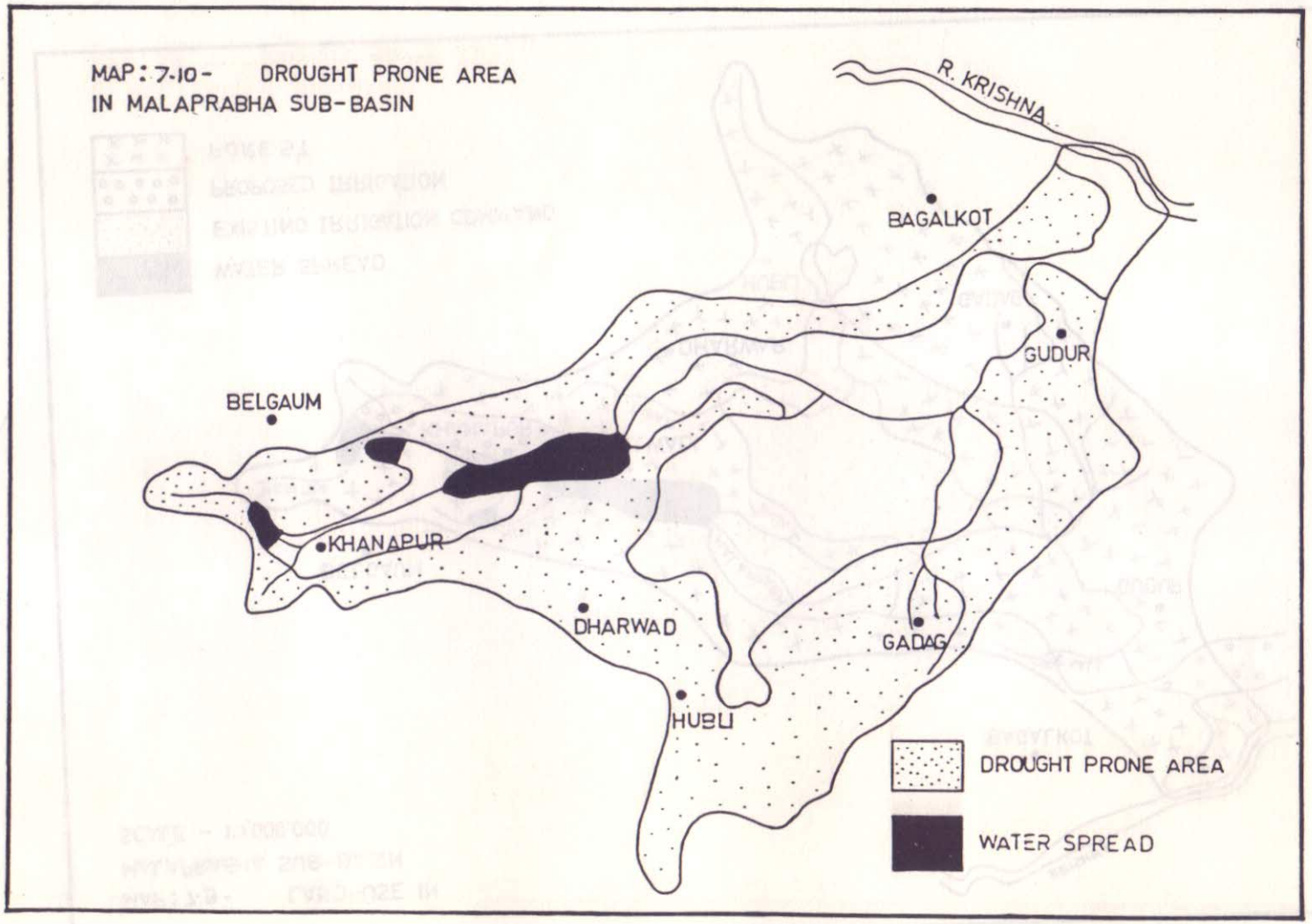
SCALE = 1 : 1,000,000



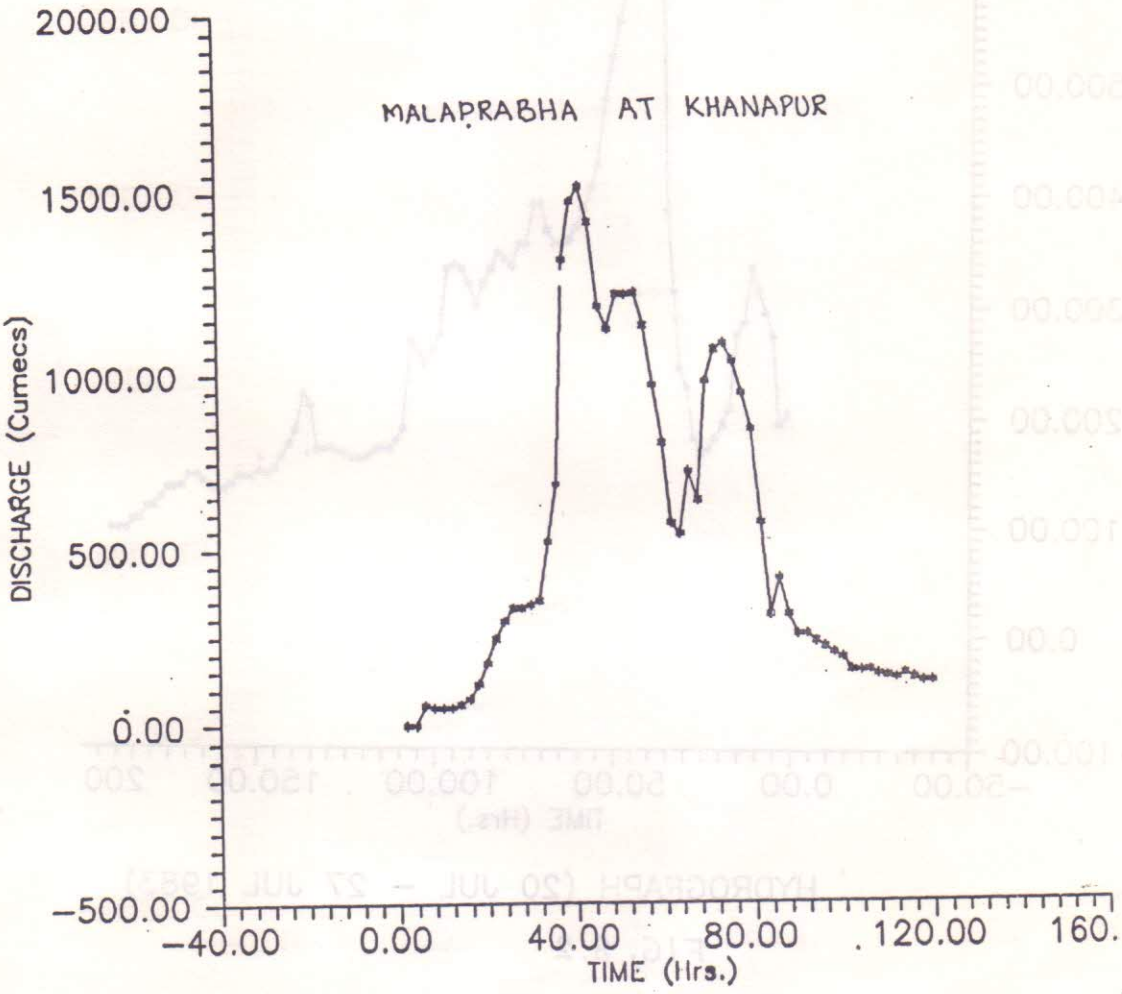

MAP : 7-7- . SOIL TYPE IN
MALAPRABHA SUB BASIN
SCALE :- 1 : 1,000,000
R. KRISHNA
BAGALKOT
BADAMI
BELGAUM
MALAPRABHA R.
JAUL
SAUNDATTI
KHANAPUR
TUPARI
HIREHALLA
YELBURGA
DHARWAR
GADAG
HUBLI
SENIHALLA
DEEP BLACK SOIL
MEDIUM BLACK SOIL
MIXED RED AND BLACK SOIL
RED SANDY SOIL
RED LOAMY SOIL


MAP:7-8 ISOHYETES - MALAPRABHA SUB-BASIN
500
544
600
500
573
700
800
1300
572
566
1600
1303
708
610
606
1683
595
637
600
813
913
700
1600
1300
913
800
900
900
689
700
700


MAP: 7-9 - LAND-USE IN
MALAPRABHA SUB-BASIN
SCALE :- 1:1,000,000
KRISHNA
BAGALKOT
HIRE NALL
GUDUR
MALAPRABHA
BELGAUM
HIRA
JAUL
MOGITRA
BELWADI
KHANAPUR
TUPAR
DHARWAR
GADAG
HUBLI
WATER SPREAD
EXISTING IRRIGATION COMMAND
PROPOSED IRRIGATION
FOREST

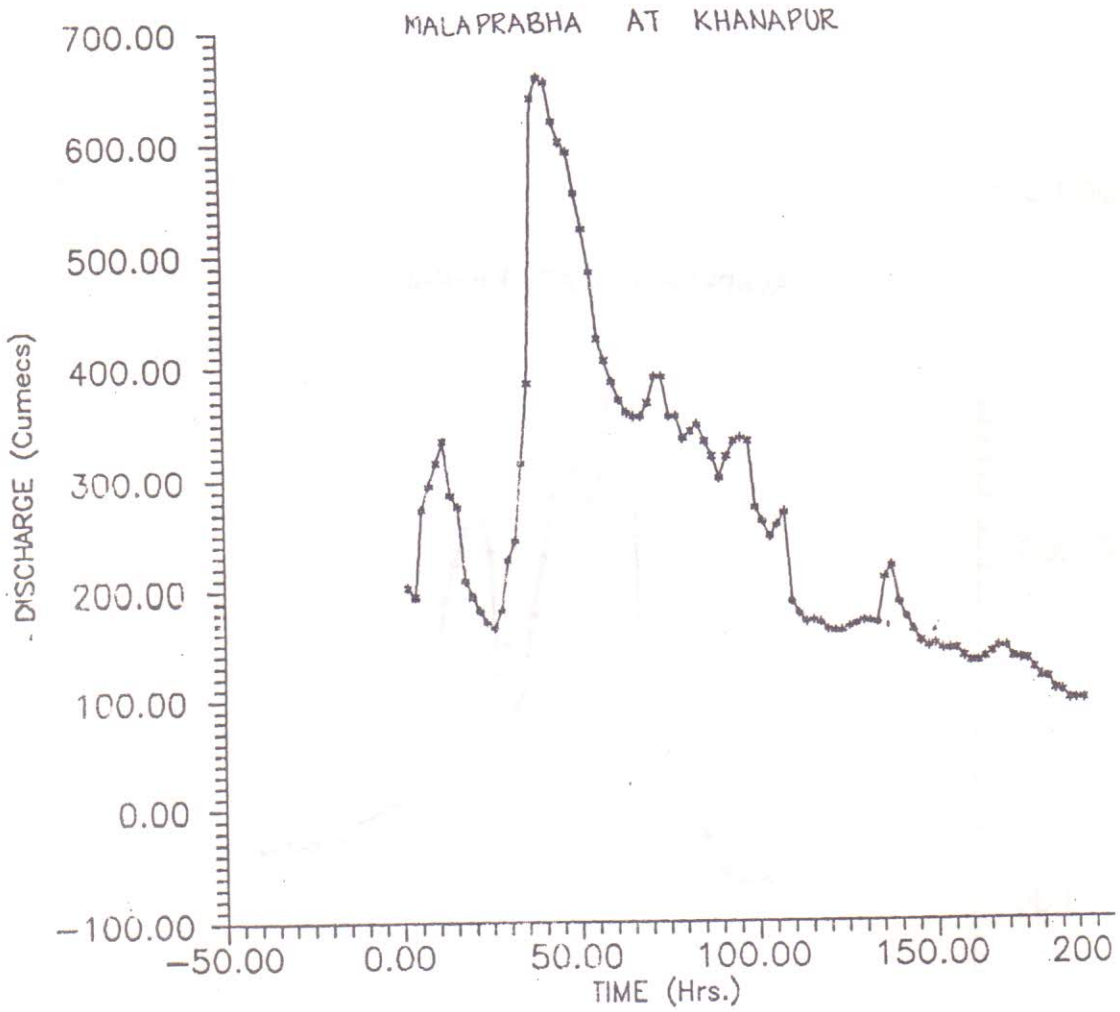

MAP : 7-10 - DROUGHT PRONE AREA
IN MALAPRABHA SUB-BASIN
R. KRISHNA
BAGALKOT
GUDUR
BELGAUM
KHANAPUR
DHARWAD
GADAG
HUBLI
DROUGHT PRONE AREA
WATER SPREAD

8.0 - FIGURES



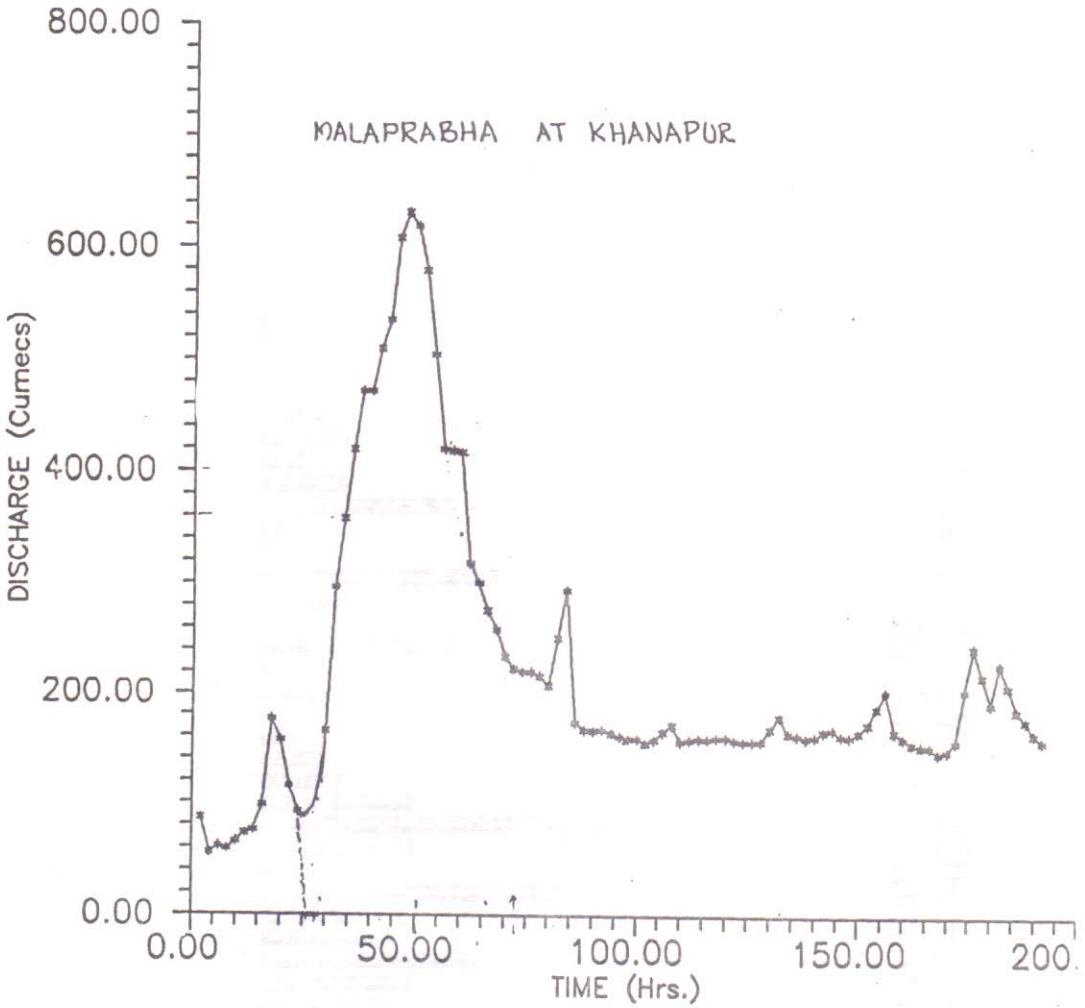
HYDROGRAPH (26 JUN – 30 JUN 1983)

FIG. 8.1



HYDROGRAPH (20 JUL – 27 JUL 1983)

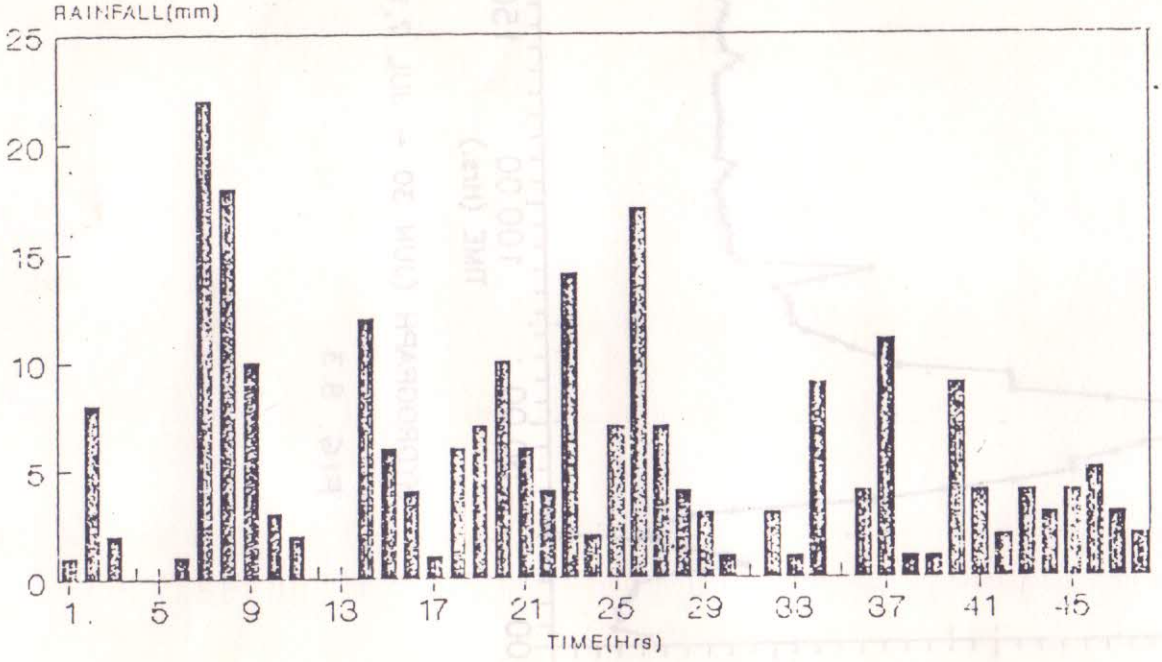
FIG. 8.2



HYDROGRAPH (JUN 30 – JUL 7,1984)

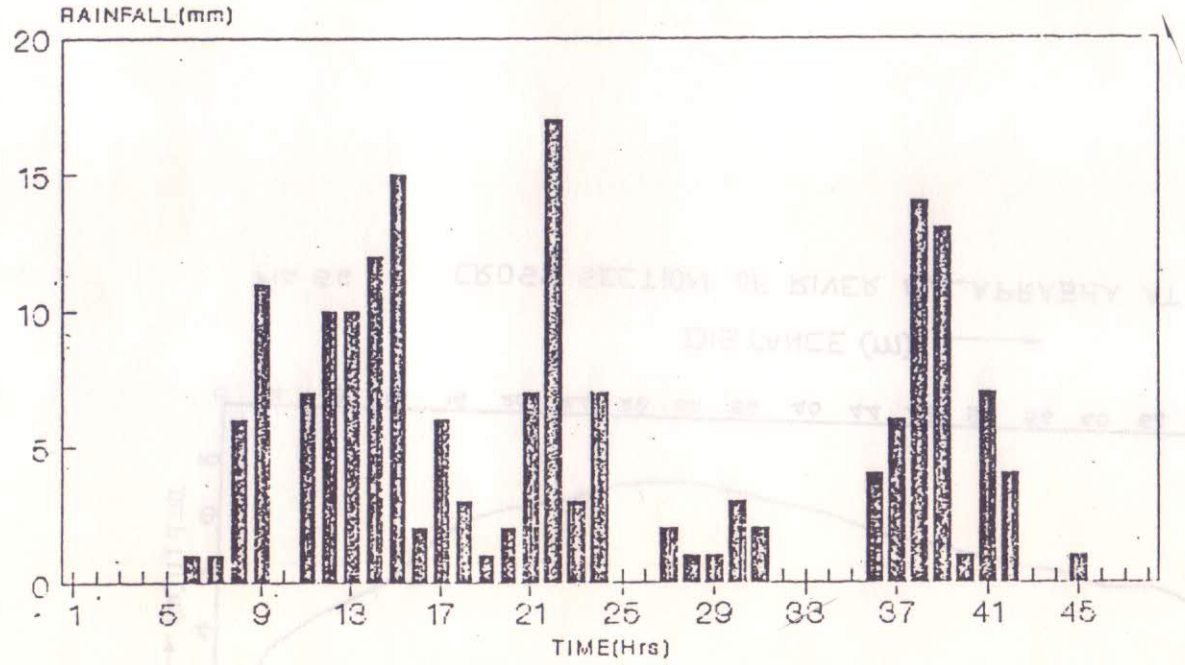
FIG. 8.3

FIG. 8.4 HISTOGRAM - HOURLY RAINFALL
KHANAPUR(MALAPRABHA)



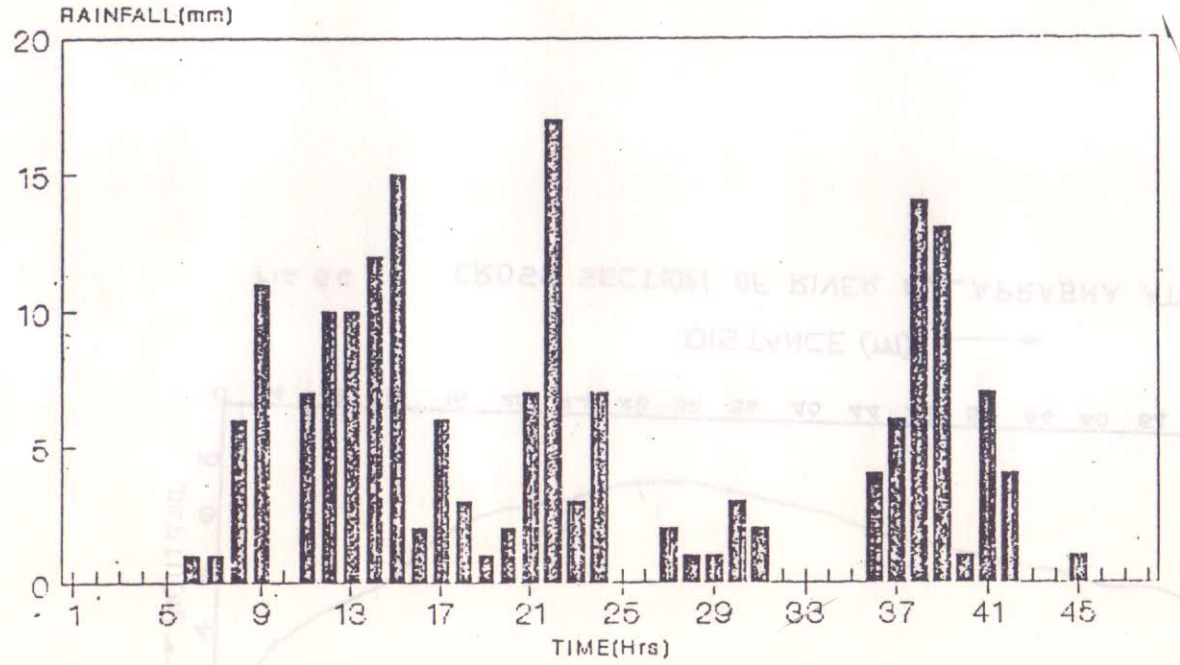
17-18, JULY,1988

FIG. 8.5 HISTOGRAM - HOURLY RAINFALL
SANTIBASTWAD(MALAPRABHA)



2-3, AUGUST,1986

FIG. 8.5 HISTOGRAM - HOURLY RAINFALL
SANTIBASTWAD(MALAPRABHA)



2-3, AUGUST,1986

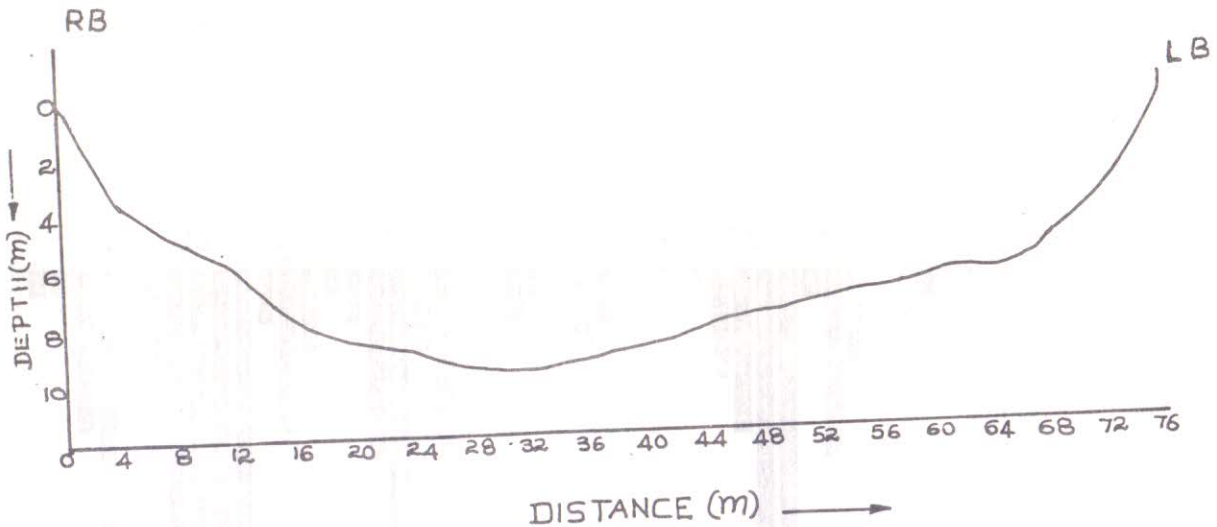


FIG. 8G CROSS SECTION OF RIVER MALAPRABHA AT KHANAPUR

9.1 ANNUAL PEAK INFLOW SERIES OF MALAPRABHA RESERVOIR

S.NO.	YEAR	DATES	MAXIMUM INFLOW (CUMECS)	REMARKS
1	1980-81	2-7-80	1096	
2	1981-82	11-7-81	1063	
3	1982-83	30-7-82	1265	
4	1983-84	16-8-83	767	
5	1984-85	3-7-84	808	MAX. FLOOD INFLOW
6	1985-86	3-8-85	549	
7	1986-87	9-8-86	364	
8	1987-88	10-7-87	306	
9	1988-89	5-8-88	839	
10	1989-90	25-7-89	743	

9.2 : 10 DAILY INFLOW(CUMEC) AND OUTFLOW(CUMEC) DATA

RIVER: MALAPRABHA STATION: MALAPRABHA RESERVOIR SITE

JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER	
INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW
YEAR:1980-81											
4.96	-0.99	5162.42	-0.99	2413.76	-0.99	678.52	-0.99	444.90	-0.99	33.41	-0.99
7.08	-0.99	966.95	-0.99	1385.73	-0.99	254.06	-0.99	110.77	-0.99	86.96	-0.99
633.47	-0.99	1038.23	-0.99	1027.48	-0.99	584.85	-0.99	103.10	-0.99	78.86	-0.99
YEAR:1981-82											
305.60	-0.99	3841.96	-0.99	1953.47	-0.99	695.94	-0.99	234.86	-0.99	47.48	-0.99
94.27	-0.99	1391.45	-0.99	2264.53	-0.99	856.60	-0.99	166.84	-0.99	137.87	-0.99
258.38	-0.99	857.45	-0.99	1146.68	-0.99	445.93	-0.99	139.83	-0.99	32.85	-0.99
YEAR:1982-83											
84.16	-0.99	137.08	-0.99	1427.84	-0.99	518.90	-0.99	121.20	-0.99	163.00	-0.99
73.00	-0.99	703.16	-0.99	3488.43	-0.99	263.34	-0.99	45.65	-0.99	8.35	-0.99
485.68	-0.99	2671.64	-0.99	1615.15	-0.99	372.33	-0.99	351.92	-0.99	6.08	-0.99
YEAR:1983-84											
18.83	-0.99	802.44	-0.99	1013.22	-0.99	314.82	-0.99	262.20	-0.99	126.12	-0.99
45.73	-0.99	557.53	-0.99	2982.22	-0.99	558.35	-0.99	71.60	-0.99	35.60	-0.99
4002.00	-0.99	2593.54	-0.99	851.68	-0.99	595.16	-0.99	206.30	-0.99	10.76	
YEAR:1984-85											
11.64	-0.99	2913.12	-0.99	810.34	-0.99	246.60	-0.99	671.44	-0.99	30.58	-0.99
531.08	-0.99	1744.56	-0.99	882.74	-0.99	407.42	-0.99	385.90	-0.99	28.32	-0.99
301.60	-0.99	1087.47	-0.99	648.60	-0.99	548.62	-0.99	120.83	-0.99	28.32	-0.99
YEAR:1985-86											
10.67	-0.99	497.69	-0.99	2133.74	-0.99	281.24	-0.99	518.22	-0.99	38.50	-0.99
75.20	-0.99	548.26	-0.99	1120.80	-0.99	201.18	-0.99	385.76	-0.99	14.16	-0.99
304.68	-0.99	753.98	-0.99	424.12	-0.99	125.98	-0.99	117.37	-0.99	7.36	
YEAR:1986-87											
99.08	-0.99	756.40	-0.99	1155.48	-0.99	221.72	-0.99	263.57	-0.99	134.25	-0.99
94.24	-0.99	926.15	-0.99	1565.40	-0.99	76.23	-0.99	72.26	-0.99	136.28	-0.99
728.42	-0.99	1328.90	-0.99	531.33	-0.99	298.94	-0.99	30.16	-0.99	34.57	-0.99
YEAR:1987-88											
7.84	9.77	881.18	9.63	258.47	362.84	262.32	566.60	586.97	34.46	42.19	438.62
9.48	9.63	543.85	63.34	136.34	236.24	423.33	667.25	182.00	71.44	72.68	587.75
86.40	9.48	383.00	450.94	605.49	25.37	315.50	148.72	150.62	246.97	125.16	304.68
YEAR:1988-89											
10.19	14.92	188.56	10.11	3587.15	282.91	366.76	89.70	491.26	95.03	14.16	661.70
28.46	12.71	2405.78	8.13	707.55	380.15	209.51	111.40	59.86	376.64	9.48	720.70
26.13	10.96	2132.86	24.24	626.10	450.83	1119.50	75.00	26.90	767.20	7.08	682.35

-0.99 INDICATES DATA ARE NOT AVAILABLE

9.1 ANNUAL PEAK INFLOW SERIES OF MALAPRABHA RESERVOIR

S.NO.	YEAR	DATES	MAXIMUM INFLOW (CUMECS)	REMARKS
1	1980-81	2-7-80	1096	
2	1981-82	11-7-81	1063	
3	1982-83	30-7-82	1265	
4	1983-84	16-8-83	767	
5	1984-85	3-7-84	808	MAX. FLOOD INFLOW
6	1985-86	3-8-85	549	
7	1986-87	9-8-86	364	
8	1987-88	10-7-87	306	
9	1988-89	5-8-88	839	
10	1989-90	25-7-89	743	

9.2 : 10 DAILY INFLOW(CUMEC) AND OUTFLOW(CUMEC) DATA

RIVER: MALAPRABHA STATION: MALAPRABHA RESERVOIR SITE

JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER	
INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW
YEAR:1980-81											
4.96	-0.99	5162.42	-0.99	2413.76	-0.99	678.52	-0.99	444.90	-0.99	33.41	-0.99
7.08	-0.99	966.95	-0.99	1385.73	-0.99	254.06	-0.99	110.77	-0.99	86.96	-0.99
633.47	-0.99	1038.23	-0.99	1027.48	-0.99	584.85	-0.99	103.10	-0.99	78.86	-0.99
YEAR:1981-82											
385.60	-0.99	3841.96	-0.99	1953.47	-0.99	695.94	-0.99	234.86	-0.99	47.48	-0.99
94.27	-0.99	1391.45	-0.99	2264.53	-0.99	856.60	-0.99	166.84	-0.99	137.87	-0.99
258.38	-0.99	857.45	-0.99	1146.68	-0.99	445.93	-0.99	139.83	-0.99	32.85	-0.99
YEAR:1982-83											
84.16	-0.99	137.08	-0.99	1427.84	-0.99	518.90	-0.99	121.20	-0.99	163.00	-0.99
73.00	-0.99	703.16	-0.99	3488.43	-0.99	263.34	-0.99	45.65	-0.99	8.35	-0.99
485.68	-0.99	2671.64	-0.99	1615.15	-0.99	372.33	-0.99	351.92	-0.99	6.08	-0.99
YEAR:1983-84											
18.83	-0.99	802.44	-0.99	1013.22	-0.99	314.82	-0.99	262.20	-0.99	126.12	-0.99
45.73	-0.99	557.53	-0.99	2982.22	-0.99	558.35	-0.99	71.60	-0.99	35.60	-0.99
4002.00	-0.99	2593.54	-0.99	851.68	-0.99	595.16	-0.99	206.30	-0.99	10.76	
YEAR:1984-85											
11.64	-0.99	2913.12	-0.99	810.34	-0.99	246.60	-0.99	671.44	-0.99	30.58	-0.99
531.08	-0.99	1744.56	-0.99	882.74	-0.99	407.42	-0.99	385.90	-0.99	28.32	-0.99
301.60	-0.99	1087.47	-0.99	648.60	-0.99	540.62	-0.99	120.83	-0.99	28.32	-0.99
YEAR:1985-86											
10.67	-0.99	497.69	-0.99	2133.74	-0.99	281.24	-0.99	518.22	-0.99	38.50	-0.99
75.20	-0.99	548.26	-0.99	1120.80	-0.99	201.18	-0.99	385.76	-0.99	14.16	-0.99
304.68	-0.99	753.98	-0.99	424.12	-0.99	125.98	-0.99	117.37	-0.99	7.36	
YEAR:1986-87											
99.08	-0.99	756.40	-0.99	1155.48	-0.99	221.72	-0.99	263.57	-0.99	134.25	-0.99
94.24	-0.99	926.15	-0.99	1565.40	-0.99	76.23	-0.99	72.26	-0.99	136.28	-0.99
728.42	-0.99	1320.90	-0.99	531.33	-0.99	298.94	-0.99	30.16	-0.99	34.57	-0.99
YEAR:1987-88											
7.84	9.77	881.18	9.63	258.47	362.84	262.32	566.60	586.97	34.46	42.19	438.62
9.48	9.63	543.85	63.34	136.34	236.24	423.33	667.25	182.00	71.44	72.68	587.75
86.40	9.48	383.00	450.94	605.49	25.37	315.50	148.72	150.62	246.97	125.16	304.68
YEAR:1988-89											
10.19	14.92	188.56	10.11	3587.15	282.91	366.76	89.70	491.26	95.03	14.16	661.70
28.46	12.71	2405.78	8.13	707.55	380.15	209.51	111.40	59.86	376.64	9.48	720.70
26.13	10.96	2132.86	24.24	626.10	450.83	1119.50	75.00	26.90	767.20	7.08	682.35

-0.99 INDICATES DATA ARE NOT AVAILABLE

9.2 (Contd...) 10 DAILY INFLOW(CUMEC) AND OUTFLOW(CUMEC) DATA

RIVER: MALPRABHA

DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY	
INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW	INFLOW	OUTFLOW
YEAR:1980-81											
28.48	-0.99	8.69	-0.99	2.75	-0.99	1.41	-0.99	10.87	-0.99	25.17	-0.99
20.00	-0.99	6.48	-0.99	1.64	-0.99	57.70	-0.99	2.32	-0.99	18.32	-0.99
15.18	-0.99	4.56	-0.99	1.13	-0.99	17.24	-0.99	9.57	-0.99	18.32	-0.99
YEAR:1981-82											
28.32	-0.99	7.08	-0.99	3.82	-0.99	2.26	-0.99	1.73	-0.99	3.26	-0.99
12.48	-0.99	7.08	-0.99	2.60	-0.99	2.15	-0.99	1.56	-0.99	15.78	-0.99
7.78	-0.99	5.80	-0.99	1.81	-0.99	2.18	-0.99	62.58	-0.99	91.88	-0.99
YEAR:1982-83											
5.66	-0.99	3.54	-0.99	2.83	-0.99	1.41	-0.99	1.41	-0.99	1.41	-0.99
5.66	-0.99	2.83	-0.99	2.83	-0.99	1.41	-0.99	1.41	-0.99	1.41	-0.99
6.23	-0.99	3.11	-0.99	1.84	-0.99	1.56	-0.99	1.41	-0.99	1.56	-0.99
YEAR:1983-84											
8.35	-0.99	12.35	-0.99	8.50	-0.99	7.08	-0.99	37.58	-0.99	23.08	-0.99
7.08	-0.99	9.91	-0.99	8.50	-0.99	7.08	-0.99	39.44	-0.99	18.12	-0.99
33.58	-0.99	10.62	-0.99	6.65	-0.99	39.33	-0.99	41.26	-0.99	6.23	-0.99
YEAR:1984-85											
22.65	-0.99	14.16	-0.99	14.16	-0.99	14.16	-0.99	29.10	-0.99	14.16	-0.99
15.00	-0.99	14.16	-0.99	14.16	-0.99	14.16	-0.99	7.08	-0.99	22.74	-0.99
15.57	-0.99	15.57	-0.99	11.33	-0.99	14.72	-0.99	42.08	-0.99	14.80	-0.99
YEAR:1985-86											
5.66	-0.99	2.83	-0.99	2.83	-0.99	2.83	-0.99	1.41	-0.99	1.41	-0.99
5.66	-0.99	2.83	-0.99	2.83	-0.99	2.83	-0.99	1.41	-0.99	1.41	-0.99
4.53	-0.99	3.11	-0.99	2.26	-0.99	1.69	-0.99	1.41	-0.99	38.20	-0.99
YEAR:1986-87											
21.52	-0.99	8.87	-0.99	4.96	-0.99	2.83	-0.99	1.42	-0.99	0.42	-0.99
15.85	-0.99	6.94	-0.99	2.83	-0.99	2.83	-0.99	1.42	-0.99	20.47	-0.99
9.90	-0.99	6.23	-0.99	2.26	-0.99	2.26	-0.99	1.56	-0.99	10.25	-0.99
YEAR:1987-88											
31.71	499.75	11.86	122.61	2.83	11.41	1.41	9.97	1.41	12.06	1.41	17.16
130.88	355.94	6.08	22.23	1.56	11.92	1.41	9.97	1.41	11.44	1.41	19.62
39.42	203.11	3.82	12.68	1.27	8.55	1.56	13.05	1.41	17.78	1.56	19.79
YEAR:1988-89											
5.69	696.70	5.66	666.50	5.66	706.47	5.66	537.00	5.66	198.40	11.27	76.90
5.66	666.46	5.66	607.50	5.66	640.69	5.66	141.33	5.66	182.00	13.65	61.30
6.22	563.08	6.23	754.58	4.53	534.45	6.23	331.80	60.74	174.57	3.96	12.83

-0.99 INDICATES DATA ARE NOT AVAILABLE

10.0 - METEOROLOGICAL DATA

10.1 DAILY RAINFALL DATA (mm)

(a) DISTRICT: BELGAUM

STATION: ASOGA YEAR: 1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	5.8	30.8	6.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	6.2	45.0	00.0	0.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	2.2	96.6	00.0	0.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	4.2	83.4	00.0	0.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	1.2	70.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	00.0	1.2	75.4	0.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	10.0	00.0	7.8	0.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	35.4
8	00.0	00.0	5.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	0.4	00.0	5.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	0.6	0.8	5.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	10.4	0.8	2.0	13.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	25.6	84.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	14.0	71.6	00.0	0.8	00.0	00.0	10.0	00.0	00.0	00.0	00.0	00.0
14	5.2	59.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	14.0	60.2	00.0	0.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	0.6	39.8	10.6	2.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	4.2	129.6	7.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	1.9	88.0	11.2	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
19	4.0	35.6	9.0	2.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	9.0
20	8.4	72.0	2.8	2.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	10.2	6.2	11.0	22.2	00.0	00.0	00.0	00.0	00.0	00.0	18.0	00.0
22	23.0	4.1	2.0	23.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	4.0	7.0	11.0	26.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
24	25.0	7.2	4.0	42.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	11.4	14.4	2.0	6.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	7.2	15.2	1.1	9.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	4.4	14.8	00.0	14.9	00.0	00.0	00.0	00.0	00.0	7.6	00.0	00.0
28	4.2	41.4	3.4	29.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
29	4.4	24.4	3.0	17.2	00.0	00.0	00.0	00.0		3.4	00.0	00.0
30	4.4	28.5	6.4	12.1	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		30.8	7.6		00.0		00.0	00.0		00.0		00.0
TOTAL	197.0	857.2	518.6	225.5	0.6	00.0	10.0	00.0	00.0	11.0	18.0	44.4
MEAN	6.0	27.7	16.7	7.5	00.0	00.0	0.3	00.0	00.0	0.4	0.6	1.4
MAX	25.6	129.6	96.6	26.5	0.6	00.0	10.0	00.0	00.0	7.5	18.0	35.4
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(b) DISTRICT: BELGAUM

STATION : BAILHONGAL YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	1.7	25.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	5.5	28.0	53.0	00.0	00.0	00.0	00.0	00.0	14.2	00.0
3	00.0	00.0	46.0	8.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	6.2	8.6	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	14.0	00.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	6.2	0.5	1.4	00.0	7.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	12.0	00.0	1.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
8	2.6	00.0	00.0	2.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	00.0	2.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	1.4	00.0	0.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	00.0	1.8	1.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	0.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	4.6	1.4	00.0	00.0	00.0	00.0	8.1	00.0	00.0	00.0	00.0	00.0
14	3.0	9.0	00.0	18.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	1.4	0.9	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	13.5	7.0	21.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	11.2	31.0	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	00.0	25.6	9.8	2.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	22.6
19	00.0	10.8	2.5	14.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
20	00.0	3.8	00.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	1.0	3.8	9.0	0.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	1.8	0.8	0.8	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	7.8	2.4	5.9	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
24	1.5	4.5	00.0	4.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	4.2	0.5	1.0	6.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	1.5	1.5	00.0	25.9	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	2.3	1.6	00.0	2.5	00.0	00.0	00.0	00.0	00.0	12.0	00.0	00.0
28	00.0	2.8	00.0	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
29	00.0	6.2	4.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
30	00.0	0.4	2.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		00.0	0.2		00.0		00.0	00.0		00.0		00.0
TOTAL	42.9	104.2	142.4	187.8	63.4	00.0	8.7	00.0	00.0	12.0	14.2	22.6
MEAN	1.4	3.4	4.6	6.3	2.0	00.0	0.3	00.0	00.0	0.4	0.5	0.7
MAX	12.0	25.6	46.0	28.0	53.0	00.0	8.1	00.0	00.0	12.0	14.2	22.6
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

DAILY RAINFALL DATA (mm)

DISTRICT: BELGAUM

STATION : BELWADI YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	4.0	2.6	4.2	6.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	3.6	2.0	5.4	00.0	00.0	00.0	00.0	00.0	00.0	10.0	00.0
3	00.0	00.0	22.0	5.0	11.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	11.0	4.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	5.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	3.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	13.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
8	00.0	00.0	00.0	0.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	00.0	2.2	5.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	00.0	3.0	18.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	13.8	00.0	00.0	1.6	00.0	00.0	0.7	00.0	00.0	00.0	00.0	00.0
14	1.2	9.2	00.0	3.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	0.2	1.2	00.0	0.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	5.6	00.0	20.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	7.0	16.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	00.0	16.6	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	18.0
19	00.0	8.2	00.0	3.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	42.0
20	00.0	8.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	4.6	0.8	1.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	11.6	00.0	1.8	1.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	00.0	1.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
24	2.4	1.0	00.0	12.8	00.0	00.0	00.0	00.0	00.0	16.4	00.0	00.0
25	00.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	1.8	1.4	00.0	66.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	1.4	0.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	00.0	3.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	11.0	00.0	00.0
29	00.0	2.8	11.4	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
30	00.0	00.0	13.8	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		0.6	1.6		00.0		00.0	00.0		00.0		00.0
TOTAL	48.4	84.0	97.2	152.5	17.0	00.0	0.7	00.0	00.0	27.4	10.0	60.0
MEAN	1.6	2.7	3.1	5.1	0.6	00.0	00.0	00.0	00.0	0.9	0.3	1.9
MAX	13.8	16.8	22.0	66.0	11.0	00.0	0.7	00.0	00.0	16.4	10.0	42.0
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA (mm)

(d) DISTRICT: BELGAUM.

STATION : BIDI YEAR: 1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	7.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	3.4	17.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	00.0	76.6	35.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	93.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	3.1	00.0
5	00.0	00.0	14.4	10.4	3.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	00.0	00.0	6.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
8	20.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	6.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	12.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	34.0	14.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
14	2.4	19.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	11.4	00.0
15	3.8	35.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	4.0	59.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	2.1
17	00.0	34.6	41.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	00.0	93.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	6.4
19	00.0	37.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
20	00.0	16.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	3.6	2.6	00.0	19.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	10.4	4.6	00.0	18.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	4.2	14.0	00.0	7.6	00.0	00.0	00.0	00.0	00.0	00.0	8.2	00.0
24	2.3	6.4	00.0	21.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	9.0	4.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	2.0	5.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	1.2	16.8	00.0	11.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	4.0	6.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
29	00.0	4.2	00.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
30	00.0	31.0	00.0	18.2	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		6.2	00.0		00.0		00.0	00.0		00.0		00.0
TOTAL	111.1	415.0	268.9	142.0	3.6	00.0	00.0	00.0	00.0	00.0	22.7	8.5
MEAN	3.7	13.4	8.7	4.7	0.1	00.0	00.0	00.0	00.0	00.0	0.7	0.3
MAX	34.0	93.4	93.6	35.6	3.6	00.0	00.0	00.0	00.0	00.0	11.4	6.4
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA (mm)

(e) DISTRICT: BELGAUM

STATION : DESUR YEAR:1988-89

MONTH / DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	2.0	13.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	4.0	17.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	3.0	85.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	5.0	65.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	48.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	00.0	00.0	17.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
8	00.0	00.0	16.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	5.0	00.0	2.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	4.0	00.0	2.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	00.0	1.0	56.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	2.0	38.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	00.0	19.0	8.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
14	00.0	60.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	00.0	16.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	78.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	66.0	14.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	00.0	65.0	3.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
19	00.0	72.0	6.9	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
20	00.0	35.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	4.0	15.0	1.0	40.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	7.0	8.0	20.0	15.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	2.0	45.0	1.0	19.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
24	11.0	19.0	2.0	13.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	15.0	16.0	1.0	35.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	18.0	6.0	00.0	12.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	11.0	13.0	1.0	13.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	2.0	20.0	00.0	9.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
29	1.0	20.0	4.0	3.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
30	6.0	15.0	00.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		5.0	00.0		00.0		00.0	00.0		00.0		00.0
TOTAL	36.0	607.0	335.6	253.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
MEAN	1.2	19.6	10.8	8.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
MAX	18.0	78.0	85.0	56.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA (mm)

(1) DISTRICT: BELGAUM

STATION: JAMBOTI YEAR: 1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	10.3	38.0	27.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	23.0	74.2	5.1	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	12.3	126.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	9.2	135.0	5.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	2.1	88.0	4.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	00.0	15.0	22.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	16.4
7	2.0	3.0	20.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	14.2
8	3.0	9.1	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	4.0	1.2	5.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	13.0	00.0	6.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	15.0	00.0	6.0	17.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	10.0	10.0	4.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	8.0	9.1	1.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
14	30.5	101.1	00.0	7.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	37.3	70.0	2.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	30.2	104.0	16.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	32.0	120.0	6.3	7.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	00.0	172.3	12.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
19	1.2	111.3	14.4	2.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
20	3.0	76.0	6.3	9.0	00.0	00.0	00.0	00.0	00.0	00.0	38.0	00.0
21	8.1	19.0	116.2	37.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	16.3	23.0	8.0	85.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	14.0	64.1	7.2	80.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
24	30.2	21.2	7.0	44.2	00.0	00.0	00.0	00.0	00.0	32.0	00.0	00.0
25	41.3	12.3	13.3	11.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	57.0	21.2	1.1	5.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	21.2	20.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	7.0	43.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
29	6.2	29.3	00.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
30	14.4	36.0	00.0	18.1	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		29.0	00.0		00.0		00.0	00.0		00.0		00.0
TOTAL	404.9	1177.1	639.2	416.8	2.0	00.0	00.0	00.0	00.0	32.0	38.0	43.6
MEAN	13.5	38.0	20.6	13.9	0.1	00.0	00.0	00.0	00.0	1.0	1.3	1.0
MAX	57.0	172.3	135.0	87.0	2.0	00.0	00.0	00.0	00.0	32.0	38.0	16.4
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA (mm)

(g) DISTRICT: BELGAUM

STATION : KANKUMBI YEAR: 1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	36.0	75.0	21.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	45.8	115.2	7.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	52.0	208.0	35.0	50.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	25.8	285.0	78.0	32.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	9.2	165.0	4.0	10.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	4.6	36.0	40.4	1.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	12.6
7	21.0	17.0	59.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	18.4
8	16.4	6.0	7:0	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	20.2	271.6	12.4	8.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	30.0	2.0	44.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	56.0	35.8	15.0	18.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	25.6	25.0	35.0	5.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	106.8	74.4	3.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
14	52.6	242.4	00.0	8.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	59.0	95.6	0.4	3.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	24.6	136.4	42.0	52.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	11.0	260.0	37.8	6.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	7.4	312.4	48.0	22.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	13.6
19	8.0	122.4	58.8	18.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
20	18.2	93.8	65.0	23.6	00.0	00.0	00.0	00.0	00.0	00.0	14.8	00.0
21	14.2	80.8	67.2	157.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	27.4	73.8	39.0	169.0	00.0	00.0	00.0	00.0	00.0	1.6	00.0	00.0
23	24.2	185.6	34.4	135.0	00.0	00.0	00.0	00.0	00.0	2.8	00.0	00.0
24	73.6	50.0	35.0	90.0	00.0	00.0	00.0	00.0	00.0	15.6	00.0	00.0
25	35.0	13.6	23.0	11.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	113.6	24.6	11.4	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	61.6	36.6	8.6	6.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	33.6	41.4	6.0	4.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
29	9.4	78.2	10.8	1.6	00.0	00.0	00.0	00.0		00.0	00.0	00.0
30	11.8	112.6	4.0	17.4	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		95.4	11.8		00.0		00.0	00.0		3.8		00.0
TOTAL	866.4	2447.6	1568.8	912.2	92.8	00.0	00.0	00.0	00.0	23.8	14.8	44.6
MEAN	28.9	79.0	50.6	30.4	3.0	00.0	00.0	00.0	00.0	0.8	0.5	1.4
MAX	113.6	312.4	285.0	169.0	50.2	00.0	00.0	00.0	00.0	15.6	14.8	18.4
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(h) DISTRICT: BELGAUM

STATION: KATAKOL YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	00.0	79.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	00.0	22.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	5.4	14.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	2.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	00.0	00.0	4.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	100.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
8	3.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	6.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	3.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	00.0	00.0	59.6	00.0	00.0	00.0	12.4	00.0	00.0	00.0	00.0	00.0
14	00.0	8.6	2.0	5.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	00.0	00.0	3.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	7.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	00.0	9.8	12.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	40.2
18	00.0	10.2	00.0	9.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	14.2
19	00.0	8.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
20	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
24	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	00.0	18.4	21.6	94.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	00.0	00.0	00.0	26.0	00.0	00.0	00.0	00.0	00.0	5.4	00.0	00.0
28	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	25.2	00.0	00.0
29	2.0	00.0	16.6	00.0	00.0	00.0	00.0	00.0		4.2	00.0	00.0
30	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		00.0	00.0		00.0		00.0	00.0		00.0		00.0
TOTAL	106.2	62.6	149.1	240.6	00.0	00.0	12.4	00.0	00.0	34.8	00.0	54.4
MEAN	3.5	2.0	4.8	8.0	00.0	00.0	0.4	00.0	00.0	1.1	00.0	1.8
MAX	100.6	18.4	59.6	94.0	00.0	00.0	12.4	00.0	00.0	25.2	00.0	40.2
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA (mm)

(i) DISTRICT : BELGAUM

STATION : KHANAPUR YEAR: 1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	0.4	44.2	13.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	4.2	33.0	0.2	0.8	00.0	00.0	00.0	00.0	00.0	2.5	00.0
3	00.0	4.6	114.8	0.4	6.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	1.8	87.2	2.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	1.6	65.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	0.5	3.4	12.6	1.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	0.8
7	1.8	1.8	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	23.6
8	5.7	0.5	1.7	1.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	2.6	00.0	2.3	0.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	1.6	00.0	7.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	6.2	00.0	6.8	1.6	00.0	00.0	00.0	00.0	00.0	00.0	00:0	00.0
12	2.5	9.6	0.8	5.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	28.5	17.0	00.0	0.7	00.0	00.0	16.4	00.0	00.0	00.0	00.0	00.0
14	7.6	84.5	00.0	0.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	6.7	56.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	9.8	88.8	0.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	47.5	11.0	4.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	0.3	147.0	3.4	2.7	00.0	00.0	00.0	00.0	00.0	00.0	00.0	4.7
19	0.3	102.3	5.5	0.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	1.5
20	2.5	41.5	2.2	2.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	9.3	6.3	7.4	27.4	00.0	00.0	00.0	00.0	00.0	00.0	25.2	00.0
22	10.4	7.5	4.8	25.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	16.5	43.8	3.7	21.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
24	3.6	7.4	2.2	14.0	00.0	00.0	00.0	00.0	00.0	1.7	1.5	00.0
25	31.5	6.2	3.6	33.7	00.0	00.0	00.0	00.0	00.0	8.5	00.0	00.0
26	9.5	11.5	1.0	6.7	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	7.4	8.0	00.0	0.2	00.0	00.0	00.0	00.0	00.0	5.5	00.0	00.0
28	4.3	55.6	0.3	1.4	00.0	00.0	00.0	00.0	00.0	3.2	00.0	00.0
29	4.6	38.7	0.8	0.5	00.0	00.0	00.0	00.0		4.5	00.0	00.0
30	2.6	15.4	0.7	10.5	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		10.3	0.3		00.0		00.0	00.0		00.0		00.0
TOTAL	176.3	823.0	423.9	179.0	7.3	00.0	16.4	00.0	00.0	23.4	29.2	30.6
MEAN	5.9	26.6	13.7	6.0	0.2	00.0	0.5	00.0	00.0	0.8	1.0	1.0
MAX	31.5	147.0	114.8	33.7	6.5	00.0	16.4	00.0	00.0	8.5	25.2	23.6
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(j) DISTRICT: BELGAUM

STATION : M.K.HUBLI YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	6.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	12.0	69.0	5.0	00.0	00.0	00.0	00.0	00.0	8.0	00.0
3	00.0	1.0	44.0	3.0	31.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	27.0	23.0	18.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	24.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	22.0	00.0	4.0	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	4.0
8	10.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	2.0	00.0	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	2.0	00.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	4.0	5.0	7.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	18.0	5.0	00.0	00.0	00.0	00.0	3.0	00.0	00.0	00.0	00.0	00.0
14	11.0	30.0	00.0	13.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	4.0	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	31.0	17.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	28.0	16.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	00.0	53.0	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	2.0
19	00.0	34.0	1.0	5.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
20	00.0	13.0	00.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	2.0	3.0	13.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	6.0	4.0	00.0	2.0	00.0	00.0	00.0	00.0	00.0	1.0	00.0	00.0
23	2.0	11.0	00.0	12.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
24	2.0	7.0	1.0	28.0	00.0	00.0	00.0	00.0	00.0	15.8	00.0	00.0
25	11.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	12.0	5.0	00.0	24.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	5.0	5.0	00.0	1.0	00.0	00.0	00.0	00.0	00.0	9.8	00.0	00.0
28	1.0	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	2.0	00.0	00.0
29	00.0	12.0	00.0	00.0	00.0	00.0	00.0	00.0		14.0	00.0	00.0
30	3.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		2.0	00.0		00.0		00.0	00.0		00.0		00.0
TOTAL	112.0	254.0	168.0	205.0	54.0	00.0	3.0	00.0	00.0	42.6	00.0	00.0
MEAN	3.7	8.2	5.4	6.8	1.7	00.0	0.1	00.0	00.0	1.4	0.3	0.2
MAX	22.0	53.0	44.0	69.0	31.0	00.0	3.0	00.0	00.0	14.0	8.0	6.0
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(ii) DISTRICT: BELGAUM

STATION: NAVILTEERTH (DAM) YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	00.0	1.8	0.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	2.3	2.5	52.0	23.6	00.0	00.0	00.0	00.0	00.0	13.0	00.0
3	00.0	00.0	29.0	1.2	13.6	00.0	00.0	00.0	00.0	00.0	00.0	9.4
4	00.0	00.0	0.8	9.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	1.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	18.5	5.2	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	11.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	26.4
8	0.6	00.0	.00.0	1.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	0.8	00.0	1.2	7.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	7.8	6.7	1.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	4.2	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	1.2	00.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	22.4	1.0	00.0	00.0	00.0	00.0	8.0	00.0	00.0	00.0	00.0	00.0
14	1.2	8.5	00.0	11.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	00.0	1.0	00.0	0.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	7.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	10.1	32.7	0.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	2.0
18	00.0	18.6	1.8	3.6	00.0	00.0	00.0	00.0	00.0	00.0	0.5	31.6
19	00.0	3.0	1.0	0.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	4.6
20	00.0	1.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	2.4	0.2	3.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	6.0	2.0	0.6	1.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	1.7	00.0	1.6	00.0	00.0	00.0	00.0	00.0	00.0	23.5	00.0
24	2.6	1.4	00.0	0.2	00.0	00.0	00.0	00.0	00.0	0.5	00.0	00.0
25	00.0	00.0	00.0	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	3.3	4.2	00.0	107.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	2.3	1.1	13.2	16.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	0.2	2.2	1.3	00.0	00.0	00.0	00.0	00.0	00.0	2.4	00.0	00.0
29	00.0	3.2	12.5	0.2	00.0	00.0	00.0	00.0		2.4	00.0	00.0
30	00.0	00.0	0.8	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		00.0	4.4		00.0		00.0	00.0		00.0		00.0
TOTAL	69.1	89.7	110.3	221.1	37.7	00.0	8.0	00.0	00.0	12.3	37.0	74.0
MEAN	2.3	2.9	3.6	7.4	1.2	00.0	0.3	00.0	00.0	0.4	1.2	2.4
MAX	22.4	18.6	32.7	107.0	23.6	00.0	8.0	00.0	00.0	2.4	23.5	31.6
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(1) DISTRICT: BELGAUM

STATION: RAMDURG YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	00.0	19.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	2.0	34.0	13.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	00.0	10.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	4.0	00.0	12.0	00.0	00.0	00.0	00.0	00.0	00.0	3.0
5	00.0	00.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	00.0	00.0	00.0	00.0	20.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	47.0	00.0	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
8	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	00.0	30.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	00.0	5.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	17.2	00.0	00.0	00.0	00.0	00.0	7.0	00.0	00.0	00.0	00.0	00.0
14	00.0	12.0	00.0	6.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	00.0	00.0	00.0	7.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	6.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	5.0	9.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	5.0
18	00.0	11.6	2.0	5.0	00.0	00.0	00.0	00.0	00.0	00.0	3.0	13.0
19	00.0	00.0	00.0	6.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
20	00.0	10.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	2.0	00.0	00.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	4.0	00.0
22	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	1.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
24	4.4	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	00.0	00.0	00.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	3.0	2.4	00.0	49.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	1.0	1.0	7.9	7.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	2.0	00.0	00.0
29	2.0	3.0	22.4	2.0	00.0	00.0	00.0	00.0		3.0	00.0	00.0
30	00.0	00.0	6.0	3.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		00.0	3.0		00.0		00.0	00.0		00.0		00.0
TOTAL	78.6	55.6	104.1	147.0	47.2	00.0	7.0	00.0	00.0	5.0	7.0	21.0
MEAN	2.6	1.8	3.4	4.9	1.5	00.0	0.2	00.0	00.0	0.2	0.2	0.7
MAX	47.0	12.0	30.0	49.0	20.0	00.0	7.0	00.0	00.0	3.0	4.0	13.0
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

19.1 DAILY RAINFALL DATA(mm)

(*) DISTRICT: BELGAUM

STATION: SOUNDATTI YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	0.2	6.0	0.4	00.0	00.0	00.0	00.0	00.0	2.0	00.0
2	00.0	0.4	0.2	17.4	17.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	2.4	23.0	10.6	3.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	2.4	4.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	2.8
5	00.0	00.0	2.8	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	12.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	2.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	2.4
8	0.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	14.2	00.0	2.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	0.4	1.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	0.4	00.0	7.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	23.1	0.2	00.0	00.0	00.0	00.0	2.6	00.0	00.0	00.0	00.0	00.0
14	0.4	4.8	00.0	10.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	00.0	0.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	5.8	0.6	29.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	5.6	13.0	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	2.8
18	00.0	20.0	1.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	13.6
19	00.0	1.2	2.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	2.2
20	00.0	1.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	00.0	00.0	0.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	6.1	1.8	0.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	62.0	00.0
24	3.4	1.0	00.0	1.2	00.0	00.0	00.0	00.0	00.0	8.8	00.0	00.0
25	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	2.0	2.0	00.0	55.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	1.1	0.2	00.0	2.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	00.0	0.6	1.2	00.0	00.0	00.0	00.0	00.0	00.0	1.0	00.0	00.0
29	0.3	1.8	00.0	00.0	00.0	00.0	00.0	00.0		11.6	00.0	00.0
30	00.0	0.6	1.6	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		00.0	2.2		00.0		00.0	00.0		00.0		00.0
TOTAL	52.4	65.2	53.4	148.0	21.6	00.0	2.6	00.0	00.0	21.4	64.0	23.8
MEAN	1.8	2.1	1.7	4.9	0.7	00.0	0.1	00.0	00.0	0.7	2.1	0.8
MAX	23.1	20.0	23.0	55.8	17.4	00.0	2.6	00.0	00.0	11.6	62.0	13.6
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(n) DISTRICT: BELGAUM

STATION : SUTAGATTI YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	5.0	11.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	10.2	4.1	16.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	00.0	30.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	12.2	9.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	11.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	56.0	2.4	2.1	6.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	9.0	00.0	1.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	27.0
8	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	1.9	00.0	00.0
10	2.0	15.2	6.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	5.0	00.0	00.0	1.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	5.0	4.0	00.0	00.0	00.0	00.0	7.8	00.0	00.0	00.0	00.0	00.0
14	2.0	13.3	00.0	16.9	00.0	00.0	00.0	00.0	00.0	1.8	00.0	00.0
15	00.0	5.0	00.0	1.7	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	4.6	21.0	9.6	14.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	20.0	32.7	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	00.0	40.2	9.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	32.1
19	00.0	20.0	00.0	2.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	1.2
20	00.0	12.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	1.0	3.3	1.2	6.6	00.0	00.0	00.0	00.0	00.0	2.4	00.0	00.0
22	2.4	00.0	00.0	8.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	12.2	00.0	10.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
24	5.4	6.2	2.1	2.4	00.0	00.0	00.0	00.0	00.0	2.5	22.1	00.0
25	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	3.5	00.0	00.0
26	4.2	4.3	00.0	18.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	5.0	5.1	00.0	1.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	1.1	3.2	1.8	00.0	00.0	00.0	00.0	00.0	00.0	4.6	00.0	00.0
29	3.6	3.4	00.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
30	00.0	00.0	1.2	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		1.1	00.0		00.0		00.0	00.0		00.0		00.0
TOTAL	114.3	191.9	187.6	114.7	16.3	00.0	7.8	00.0	00.0	16.7	22.1	60.3
MEAN	3.8	6.2	6.0	3.8	0.5	00.0	0.3	00.0	00.0	0.5	0.7	2.0
MAX	56.0	40.2	32.7	18.1	16.3	00.0	7.8	00.0	00.0	4.6	22.1	32.1
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA (mm)

(a) DISTRICT: BELGAUM

STATION: YARAGATTI YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	1.0	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	2.0	17.0	22.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	00.0	16.0	5.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	20.0
4	00.0	00.0	2.0	00.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	14.0
5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	43.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
8	12.0	00.0	00.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	9.0	6.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	00.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	00.0	1.6	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	00.0	4.0	00.0	13.0	00.0	00.0	27.0	00.0	00.0	00.0	00.0	00.0
14	00.0	7.0	7.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
15	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	5.0	13.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	00.0	9.0	13.0	28.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	39.0
19	00.0	4.0	2.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	7.0
20	00.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	00.0	00.0	5.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	00.0	5.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	3.0	00.0
24	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	3.0	5.0	00.0	59.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	4.0	3.0	3.0	35.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	11.0	00.0	00.0
29	00.0	3.0	3.0	00.0	00.0	00.0	00.0	00.0		2.0	00.0	00.0
30	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		00.0	00.0		00.0		00.0	00.0		00.0		00.0
TOTAL	62.0	63.0	71.6	169.0	23.0	00.0	27.0	00.0	00.0	13.0	3.0	80.0
MEAN	2.1	2.1	2.3	5.6	0.8	00.0	0.9	00.0	00.0	0.4	0.1	2.6
MAX	43.0	9.0	16.0	59.0	22.0	00.0	27.0	00.0	00.0	11.0	3.0	39.0
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA

(a) DISTRICT: BIJAPUR

STATION: BADAMI YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	4.6	18.7	0.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	12.8	1.2	29.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	1.5	15.7	24.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	17.8	5.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	0.6
5	00.0	3.2	00.0	00.0	3.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	3.4	2.2	00.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	9.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	0.2
8	00.0	12.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	1.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	10.0	12.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	1.6	2.9	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	1.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	0.4	1.4	00.0	00.0	00.0	00.0	11.2	00.0	00.0	00.0	00.0	00.0
14	00.0	8.3	00.0	8.6	00.0	00.0	9.6	00.0	00.0	00.0	00.0	00.0
15	00.0	00.0	00.0	10.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	3.0	0.2	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	0.3	10.0	16.4	6.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	9.9
18	00.0	2.1	1.5	34.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	18.3
19	00.0	00.0	2.8	4.7	00.0	00.0	00.0	00.0	00.0	00.0	00.0	7.4
20	00.0	00.0	00.0	0.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	9.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	1.8	00.0
22	1.8	00.0	00.0	3.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	11.2	00.0
24	13.9	6.0	00.0	3.8	00.0	00.0	00.0	00.0	00.0	6.2	00.0	00.0
25	00.0	00.0	00.0	0.2	00.0	00.0	00.0	00.0	00.0	5.6	00.0	00.0
26	3.0	4.0	11.0	5.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	0.8	0.8	7.0	29.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	5.6	4.8	0.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
29	3.0	4.3	12.0	0.2	00.0	00.0	00.0	00.0		2.0	00.0	00.0
30	00.0	0.6	11.8	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		00.0	6.8		00.0		00.0	00.0		00.0		00.0
TOTAL	50.8	91.7	124.1	184.1	4.4	00.0	20.8	00.0	00.0	13.8	13.0	36.4
MEAN	1.7	2.9	4.0	6.1	0.1	00.0	0.7	00.0	00.0	0.5	0.4	1.2
MAX	13.9	12.8	17.8	34.2	3.6	00.0	11.2	00.0	00.0	6.2	11.2	18.3
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(b) DISTRICT: BIJAPUR

STATION: BAGALKOT YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	00.0	10.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	2.0	19.0	3.0	00.0	00.0	00.0	00.0	00.0	11.0	00.0
3	00.0	00.0	12.0	10.0	7.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	13.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	12.0
6	4.0	00.0	00.0	00.0	10.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	35.0	00.0	6.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	3.0
8	19.0	3.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	00.0	00.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	00.0	1.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	3.0	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	00.0	1.0	00.0	00.0	00.0	00.0	24.0	00.0	00.0	00.0	00.0	00.0
14	00.0	00.0	00.0	5.0	00.0	00.0	7.0	00.0	00.0	00.0	00.0	00.0
15	00.0	00.0	00.0	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	1.0	00.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	5.0	7.0	11.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	15.0
18	00.0	1.0	8.0	10.0	00.0	00.0	00.0	00.0	00.0	00.0	8.0	9.0
19	00.0	00.0	2.0	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	3.0
20	2.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	1.0	00.0
22	00.0	00.0	00.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	00.0	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
24	00.0	7.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	00.0	00.0	25.0	00.0	00.0	00.0	00.0	00.0	00.0	6.0	00.0	00.0
26	00.0	6.0	20.0	26.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	00.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	1.0	00.0	00.0
28	00.0	00.0	3.0	2.0	00.0	00.0	00.0	00.0	00.0	19.0	00.0	00.0
29	8.0	6.0	14.0	00.0	00.0	00.0	00.0	00.0		1.0	00.0	00.0
30	00.0	3.0	15.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		2.0	4.0		00.0		00.0	00.0		00.0		00.0
TOTAL	68.0	36.0	139.0	108.0	22.0	00.0	31.0	00.0	00.0	27.0	20.0	42.0
MEAN	2.3	1.2	4.5	3.6	0.7	00.0	1.0	00.0	00.0	0.9	0.7	1.4
MAX	35.0	7.0	25.0	26.0	10.0	00.0	24.0	00.0	00.0	19.0	11.0	15.0
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(c) DISTRICT: BIJAPUR

STATION: BEVUR YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	00.0	47.0	3.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	00.0	4.0	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	16.0	13.0	21.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	6.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	10.5
6	00.0	11.0	00.0	00.0	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	7.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	5.0
8	7.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	00.0	2.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	00.0	3.0	00.0	00.0	00.0	00.0	12.0	00.0	00.0	00.0	00.0	00.0
14	00.0	00.0	00.0	00.0	00.0	00.0	4.0	00.0	00.0	00.0	00.0	00.0
15	00.0	00.0	00.0	15.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	4.5	3.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	3.0	6.5	8.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	7.5
18	00.0	8.0	8.0	8.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	2.6
19	00.0	1.0	00.0	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	3.0
20	00.0	1.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	5.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	1.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	9.0	00.0
24	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	00.0	00.0	26.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	00.0	00.0	7.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	00.0	5.0	00.0	15.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	00.0	1.0	8.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
29	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
30	00.0	5.5	9.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		0.5	20.0		00.0		00.0	00.0		00.0		00.0
TOTAL	14.1	67.0	108.0	125.0	11.0	00.0	16.0	00.0	00.0	00.0	9.0	28.6
MEAN	0.5	2.2	3.5	4.2	0.4	00.0	0.5	00.0	00.0	00.0	0.3	0.9
MAX	7.1	16.0	26.0	47.0	4.0	00.0	12.0	00.0	00.0	00.0	9.0	10.5
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(d) DISTRICT: BIJAPUR

STATION: BUDUR YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	00.0	17.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	2.2	30.4	6.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	00.0	5.4	5.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	48.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	00.0	2.1	00.0	8.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	19.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
8	00.0	00.0	8.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	00.0	14.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	00.0	10.1	7.2	0.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	00.0	16.4	00.0	00.0	00.0	00.0	10.0	00.0	00.0	00.0	00.0	00.0
14	00.0	3.2	00.0	00.0	00.0	00.0	7.4	00.0	00.0	00.0	00.0	00.0
15	00.0	1.3	00.0	36.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	12.2	2.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	14.3	18.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	4.0
18	00.0	2.4	12.2	30.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	5.3
19	00.0	2.2	5.1	8.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	14.3
20	00.0	2.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	00.0	00.0	3.3	00.0	00.0	00.0	00.0	00.0	00.0	3.4	00.0
22	00.0	0.4	00.0	2.1	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	4.0	9.4
24	16.1	7.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	19.4	00.0	00.0
25	00.0	1.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	25.2	00.0	00.0
26	00.0	3.0	23.4	11.4	00.0	00.0	00.0	00.0	00.0	3.3	00.0	00.0
27	00.0	1.4	43.3	17.3	00.0	00.0	00.0	00.0	00.0	1.0	36.3	00.0
28	00.0	3.1	6.0	2.4	00.0	00.0	00.0	00.0	00.0	5.2	00.0	00.0
29	4.3	3.3	72.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
30	00.0	0.2	72.3	1.2	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		0.4	40.0		00.0		00.0	00.0		00.0		00.0
TATAL	39.7	76.7	383.3	180.5	6.6	00.0	17.4	00.0	00.0	54.1	43.7	36.3
MEAN	1.3	2.5	12.4	6.0	0.2	00.0	0.6	00.0	00.0	1.8	1.5	1.2
MAX	19.3	16.4	72.3	36.0	6.2	00.0	10.0	00.0	00.0	25.2	36.3	14.3
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(e) DISTRICT: BIJAPUR

STATION: GULEDGUDDA YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	00.0	17.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	00.0	11.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	00.0	6.0	15.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	10.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
6	00.0	6.0	00.0	12.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	00.0	2.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
8	8.2	14.0	25.0	1.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	15.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	00.0	25.0	11.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	00.0	4.8	00.0	0.8	00.0	00.0	7.2	00.0	00.0	00.0	00.0	00.0
14	00.0	00.0	00.0	2.0	00.0	00.0	6.5	00.0	00.0	00.0	00.0	00.0
15	00.0	00.0	00.0	22.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	8.5	4.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	9.0	75.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	3.6
18	00.0	00.0	9.0	18.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	8.0
19	00.0	00.0	2.5	6.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	5.0
20	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	9.4	00.0
22	00.0	3.0	00.0	5.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	8.4	00.0
24	10.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	9.6	00.0	00.0
26	00.0	3.2	00.0	9.2	00.0	00.0	00.0	00.0	00.0	0.6	00.0	00.0
27	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	00.0	00.0	3.0	3.0	00.0	00.0	00.0	00.0	00.0	14.6	00.0	00.0
29	00.0	6.0	11.0	1.6	00.0	00.0	00.0	00.0		00.0	00.0	00.0
30	00.0	00.0	10.4	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		00.0	52.0		00.0		00.0	00.0		00.0		00.0
TATAL	33.4	57.3	233.1	135.8	00.0	00.0	13.7	00.0	00.0	24.2	17.8	16.6
MEAN	1.1	1.9	7.5	4.5	00.0	00.0	0.5	00.0	00.0	0.8	0.6	0.5
MAX	15.0	14.0	75.0	22.5	00.0	00.0	7.2	00.0	00.0	14.0	9.4	8.0
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(f) DISTRICT: BIJAPUR

STATION: HUNGUND YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	00.0	23.8	2.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	0.6	14.0	2.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	00.0	5.5	22.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	1.0
4	00.0	00.0	4.4	1.3	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	21.2
6	16.9	00.0	00.0	0.4	42.0	00.0	00.0	00.0	00.0	00.0	00.0	6.4
7	3.8	00.0	0.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
8	0.6	00.0	00.0	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	0.4	6.6	1.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	10.0	0.2	3.7	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	00.0	00.0	45.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	00.0	00.0	00.0	00.0	00.0	00.0	9.0	00.0	00.0	00.0	00.0	00.0
14	00.0	0.2	4.5	00.0	00.0	00.0	2.4	00.0	00.0	00.0	00.0	00.0
15	00.0	0.8	3.2	8.6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	8.4	10.2	2.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	12.4	44.0	5.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	00.0	1.8	11.0	5.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	6.0
19	00.0	00.0	5.4	0.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	11.4
20	00.0	2.6	0.8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	00.0	0.2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	0.2	00.0
22	5.5	2.0	00.0	0.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	00.0	00.0	0.2	00.0	00.0	00.0	00.0	00.0	00.0	1.6	00.0
24	1.0	13.0	6.2	00.0	00.0	00.0	00.0	00.0	00.0	26.0	00.0	00.0
25	0.5	00.0	8.5	3.2	00.0	00.0	00.0	00.0	00.0	14.0	00.0	00.0
26	00.0	4.5	17.5	10.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	00.0	3.0	0.5	00.0	00.0	00.0	00.0	00.0	00.0	5.2	00.0	00.0
28	1.0	00.0	4.6	00.0	00.0	00.0	00.0	00.0	00.0	5.6	00.0	00.0
29	0.4	5.5	25.0	00.0	00.0	00.0	00.0	00.0		4.0	00.0	00.0
30	00.0	3.2	46.2	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		3.6	46.4		00.0		00.0	00.0		00.0		00.0
TOTAL	30.1	77.8	246.7	148.1	46.9	00.0	11.4	00.0	00.0	54.8	1.8	49.5
MEAN	1.0	2.5	7.9	4.9	1.5	00.0	0.4	00.0	00.0	1.8	0.1	1.6
MAX	16.9	13.0	46.4	45.6	42.0	00.0	9.0	00.0	00.0	26.0	1.6	21.2
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.1 DAILY RAINFALL DATA(mm)

(g) DISTRICT: BIJAPUR

STATION: KUDALASANGAM YEAR:1988-89

MONTH DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	00.0	00.0	00.0	18.4	14.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
2	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
3	00.0	00.0	5.0	30.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
4	00.0	00.0	14.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	15.4
6	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
7	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
8	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
9	00.0	00.0	25.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
10	00.0	12.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
11	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
12	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
13	00.0	00.0	9.2	00.0	00.0	00.0	15.0	00.0	00.0	00.0	00.0	00.0
14	00.0	00.0	00.0	00.0	00.0	00.0	8.0	00.0	00.0	00.0	00.0	00.0
15	00.0	00.0	26.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
16	00.0	00.0	00.0	22.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
17	00.0	00.0	45.0	3.5	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
18	00.0	00.0	13.4	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	11.0
19	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	11.2
20	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
21	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
22	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
23	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	3.2
24	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
25	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
26	00.0	00.0	21.0	55.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
27	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0
28	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	8.2	00.0	00.0
29	00.0	6.0	25.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
30	00.0	00.0	10.0	00.0	00.0	00.0	00.0	00.0		00.0	00.0	00.0
31		00.0	00.0		00.0		00.0	00.0		00.0		00.0
TOTAL	00.0	18.0	194.1	128.9	14.0	00.0	22.0	00.0	00.0	8.2	00.0	40.8
MEAN	00.0	0.6	6.3	4.3	0.5	00.0	0.8	00.0	00.0	0.3	00.0	1.3
MAX	00.0	12.0	45.0	55.0	14.0	00.0	15.0	00.0	00.0	8.2	00.0	15.4
MIN	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.0

10.2 HOURLY RAINFALL

(a) STATION: SANTIBASTWAD YEAR : 1988-89 MONTH : JUNE

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
# 1 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# 2 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# 3 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# 4 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# 5 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	7.0	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	13.5
# 6 #	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.1	0.0	0.0	1.9	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	7.1
# 7 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.8	0.3	0.1	0.4	0.0	0.0	0.0	0.0	0.0	1.0	1.4	0.0	9.0
# 9 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.1	0.0	0.0	0.0	1.5
# 9 #	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	2.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.2	4.2
#10 #	0.0	0.0	0.0	0.5	0.0	0.2	0.1	0.0	0.0	0.5	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.3	0.0	0.0	1.0	4.0
#11 #	0.0	0.5	0.6	0.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.2	0.0	0.0	0.0	0.1	0.3	0.3	2.5
#12 #	0.0	0.0	0.0	0.0	0.4	0.1	1.3	0.0	1.0	0.4	0.0	0.0	0.1	0.5	0.2	0.2	0.0	5.8	0.0	0.2	0.1	0.4	8.5	0.4	19.6
#13 #	2.0	0.7	0.1	0.0	0.0	0.0	0.0	4.5	0.1	0.1	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.1	1.2	0.0	0.2	0.5	1.2	0.8	12.0
#14 #	0.0	0.0	0.0	0.7	6.3	0.8	0.1	0.0	0.0	0.0	0.0	0.7	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.2	10.1
#15 #	0.0	1.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
#16 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#17 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.3	0.6
#18 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#19 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#20 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4
#21 #	0.0	0.0	4.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.7	0.2	10.4
#22 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.0	0.3	1.5
#23 #	0.0	0.7	1.0	4.8	0.5	0.5	0.7	0.5	0.0	0.0	0.0	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.8	0.2	0.0	0.4	1.1	7.7	20.2
#24 #	2.5	0.5	0.0	0.0	0.0	1.0	0.0	0.6	0.0	5.4	0.0	1.4	0.0	0.4	1.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.5	2.2	16.2
#25 #	0.4	0.0	0.0	2.3	0.0	3.7	0.0	0.0	2.0	1.6	1.7	0.0	1.0	2.8	0.0	1.7	2.0	0.2	0.1	0.0	0.0	0.0	1.0	0.0	20.5
#26 #	0.0	0.0	0.0	0.2	0.0	0.8	0.3	0.7	3.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.7	0.1	0.2	7.0
#27 #	0.0	0.0	0.0	0.0	0.3	0.2	0.5	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.1	0.1	0.1	0.4	0.0	0.0	0.6	0.0	0.0	0.0	2.6
#28 #	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.2
#29 #	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	2.2
#30 #	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5

10.2 HOURLY RAINFALL

(a) STATION: SANTIBASTWAD YEAR : 1988-89 MONTH : JULY

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
# 1 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	2.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
# 2 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.4	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
# 3 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0
# 4 #	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
# 5 #	0.0	0.0	0.0	0.0	0.0	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.1	0.1	0.3	2.5
# 6 #	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.8
# 7 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# 8 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# 9 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#10 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#11 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.5
#12 #	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.4	0.0	0.0	0.2	2.0	1.4	4.0	3.5	0.5	0.0	0.0	0.0	0.0	14.0
#13 #	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.5	0.5	0.2	6.1	1.5	11.0	6.8	2.2	1.5	2.3	3.7	1.0	8.0	23.5	1.8	6.2	2.8	80.8
#14 #	1.3	1.7	5.7	6.3	0.8	0.2	0.7	1.3	0.0	4.5	4.0	0.7	0.0	0.0	0.0	0.0	0.3	0.2	0.3	0.0	0.7	0.6	0.0	0.5	30.8
#15 #	2.7	3.3	12.0	14.0	11.0	4.0	1.7	5.3	2.0	2.0	0.7	2.0	0.2	2.8	1.9	0.0	0.1	0.0	0.0	1.5	8.8	2.8	1.9	5.3	86.0
#16 #	NOT RECORDED																								
#17 #	NOT RECORDED																								
#18 #	NOT RECORDED																								
#19 #	0.5	0.3	0.2	0.1	0.1	0.0	1.8	0.2	0.6	1.5	0.2	0.0	0.2	0.7	0.1	0.9	0.4	0.0	0.2	0.7	1.5	2.6	4.7	0.5	18.0
#20 #	0.0	0.6	0.0	0.0	0.1	0.0	0.0	0.3	0.3	0.2	0.2	0.3	0.6	0.1	0.0	0.0	1.3	0.5	0.0	0.2	0.0	0.0	0.6	0.5	5.8
#21 #	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.8	0.0	0.2	0.0	0.9	0.1	5.9	0.1	0.0	0.5	4.5	1.0	0.3	15.3
#22 #	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.0	3.4	0.0	0.0	4.5	2.3	18.7	19.5	0.7	0.0	1.3	0.3	0.1	0.1	0.1	0.2	0.2	52.5
#23 #	0.2	0.0	0.5	0.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	5.2	1.8	0.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	10.3
#24 #	0.0	1.2	0.3	0.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	3.0
#25 #	0.2	1.3	0.8	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.0	0.0	0.0	0.6	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.2	2.7	8.0
#26 #	0.2	0.0	0.0	0.8	0.7	0.8	2.1	3.9	6.5	1.4	0.0	0.1	0.2	0.6	1.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8
#27 #	0.0	0.0	2.2	0.0	0.3	0.0	0.1	5.5	0.1	1.3	0.2	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.3	1.0	0.7	16.5
#28 #	0.0	2.0	0.4	0.5	0.0	0.0	0.1	1.0	1.1	0.6	3.0	9.6	1.7	1.2	2.8	4.0	0.7	5.3	1.5	5.0	0.4	0.5	0.1	1.0	42.5
#29 #	0.3	0.7	0.0	3.6	0.0	0.0	0.0	0.0	0.0	3.4	3.0	0.0	0.0	0.2	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	12.0
#30 #	0.2	0.0	0.0	0.0	0.3	0.7	0.0	0.8	0.2	0.0	0.0	1.3	0.2	0.5	0.3	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	7.3
#31 #	0.2	0.0	0.0	0.0	1.0	0.9	0.2	0.0	0.0	3.5	0.4	0.3	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	9.3

10.2 HOURLY RAIFALL

(a) STATION: SANTIBASTWAD YEAR : 1988-89 MONTH : AUGUST

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
# 1 #	0.0	0.0	1.0	0.0	0.0	3.0	1.2	0.0	0.0	0.0	0.2	0.1	0.3	0.0	0.0	0.2	0.0	0.0	0.0	1.0	2.5	0.0	0.5	0.0	10.0
# 2 #	0.0	0.0	0.0	0.0	0.5	1.7	1.2	6.6	11.7	0.0	7.0	10.5	10.8	12.0	15.5	2.5	6.8	3.2	1.0	2.0	7.0	17.5	3.5	7.0	128.0
# 3 #	6.5	0.9	2.6	1.5	1.5	3.5	2.0	0.5	0.0	0.2	0.8	4.0	6.0	14.0	13.0	1.5	7.5	4.0	0.5	0.5	1.9	0.4	0.1	0.3	73.7
# 4 #	0.5	0.2	0.3	1.0	1.0	0.0	1.0	0.0	0.3	0.0	0.4	0.0	0.0	0.2	0.1	2.0	17.0	1.0	2.5	2.5	8.0	1.3	2.7	2.0	44.0
# 5 #	2.7	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	6.0
# 6 #	0.2	1.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.0
# 7 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# 8 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.1	1.7	0.2	0.1	0.0	3.5
# 9 #	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
#10 #	0.0	0.5	0.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
#11 #	0.2	0.0	0.0	0.6	0.0	0.0	0.0	0.0	1.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
#12 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#13 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#14 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#15 #	0.0	0.0	0.0	5.5	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.5	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
#16 #	0.0	0.0	0.0	0.0	10.0	5.5	1.5	0.5	0.4	0.1	0.2	0.1	1.7	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5
#17 #	0.0	0.0	0.3	0.2	0.0	0.2	0.2	0.0	0.1	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
#18 #	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.4	4.5
#19 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5	0.0	1.7	0.2	0.1	0.5	0.0	0.0	0.5	0.1	0.0	0.0	0.0	4.8
#20 #	0.0	0.0	0.5	0.3	0.0	2.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.0	4.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8
#21 #	0.0	0.7	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.2	2.4
#22 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.2	0.9	0.3	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.6	0.1	3.7
#23 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	2.5
#24 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5
#25 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
#26 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#27 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#28 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#29 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#30 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#31 #	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.2	0.6	2.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

10.2 HOURLY RAIFALL

(a) STATION: SANTIBASTWAD YEAR : 1988-89 MONTH : SEPTEMBER

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.2	0.6	2.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.6	0.7	3.2	0.0	2.7	0.8	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	8.7
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	2.7	8.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2
12	0.0	0.2	0.0	0.0	0.0	1.8	2.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.5
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.1	0.1	0.0	0.1	1.5
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.4	0.1	0.0	0.0	0.0	3.9	0.3	1.3	1.0	0.3	0.2	0.5	0.3	0.7	1.0	1.0	5.2	0.6	1.2	0.5	4.0	6.5	29.0
22	0.0	0.0	0.5	3.7	0.6	0.2	0.0	1.0	3.0	1.8	1.7	0.2	0.0	2.2	0.7	1.8	0.5	1.2	1.5	1.8	2.3	0.7	0.2	4.3	28.0
23	1.5	1.0	3.7	2.3	0.2	3.3	1.3	3.2	6.5	3.5	1.2	1.0	0.3	2.0	1.5	0.3	0.5	1.2	0.2	1.3	0.2	0.3	0.2	0.0	36.2
24	0.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.4	0.7	4.3	10.2	8.8	1.8	4.2	0.7	0.0	0.8	33.5
25	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.3	2.4	0.3	0.5	0.8	0.2	0.3	0.0	0.1	0.1	0.0	11.0
27	0.0	0.0	0.0	0.0	0.0	10.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.1	0.0	0.5
30	0.0	0.0	0.4	0.0	0.0	1.5	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	2.5
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

10.7 HOURLY RAINFALL

(b) STATION: KHANAPUR YEAR : 1988-89 MONTH : JUNE

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	1.8
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3	0.2	0.3	0.5	0.8	0.0	0.1	0.1	0.0	0.1	0.0	0.1	5.7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.6
9	0.1	0.1	0.0	0.1	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.1	1.6
10	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	1.6	0.8	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	1.9	0.1	0.4	0.0	0.1	6.1
11	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.0	0.4	0.0	0.0	0.1	0.1	0.3	0.0	2.5
12	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.8	1.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	10.0	0.5	7.2	0.0	5.8	1.6	0.5	28.3
13	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.7	0.4	0.0	0.1	0.0	0.1	0.0	0.2	0.5	0.9	0.6	2.0	0.6	0.0	7.6
14	0.0	0.0	0.5	0.6	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	0.2	0.0	0.0	0.2	0.1	0.2	0.5	0.3	0.3	0.1	6.7
15	0.0	0.0	2.7	1.0	0.0	0.8	0.5	0.0	1.5	0.5	0.3	0.4	0.0	0.6	0.2	0.9	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.1	9.9
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3
18	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.1	0.0	0.1	2.5
20	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	9.1
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	6.6	2.6	0.5	0.2	0.0	10.4
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	4.5	1.7	0.0	0.0	0.0	0.1	1.2	0.0	2.0	5.0	1.3	16.3
23	0.0	0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.2	0.0	0.7	0.0	0.1	0.1	0.6	0.0	0.1	3.6
24	0.8	0.0	0.4	0.0	0.2	2.8	0.0	0.0	0.0	1.3	0.8	0.0	0.0	0.5	0.7	0.1	0.0	0.1	2.3	1.0	0.0	1.0	19.2	0.3	31.5
25	0.2	0.2	0.0	0.2	0.1	2.0	0.6	0.6	0.2	0.4	0.5	0.0	0.1	0.2	0.2	0.1	0.0	0.4	0.1	0.1	0.0	1.8	1.5	0.5	9.5
26	0.0	0.0	0.0	1.3	0.0	0.4	1.2	0.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.6	7.4
27	0.1	0.3	0.0	0.1	0.1	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.2	0.8	0.0	0.0	0.0	0.9	0.0	0.0	0.0	4.2
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.5	0.0	0.0	0.1	1.1	0.0	0.1	0.3	0.1	0.8	1.1	0.0	0.0	4.6
29	0.0	0.0	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.6
30	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.4
																									176.3

10.2 (contd...)

(b) STATION: KHANAPUR YEAR : 1988-89 MONTH : JULY

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
# 1 #	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.2	4.2
# 2 #	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.2	0.1	0.5	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.7
# 3 #	0.0	0.0	0.2	0.0	0.3	0.0	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.1	0.1	0.0	0.1	0.0	1.8
# 4 #	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
# 5 #	0.0	0.0	0.0	0.0	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.5	1.3	0.1	0.0	3.4
# 6 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	1.8
# 7 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.0	0.0	0.5
# 8 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
# 9 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#10 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#11 #	0.0	0.0	1.2	2.6	0.0	0.0	0.2	1.5	0.0	0.0	0.0	0.0	0.0	0.5	2.2	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.1	1.0	9.6
#12 #	0.0	0.0	0.0	0.0	4.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.2	0.3	3.3	1.7	1.5	0.6	0.4	0.0	0.0	0.0	17.0
#13 #	0.0	0.0	0.5	1.0	0.0	0.1	0.6	0.0	0.0	0.3	2.0	7.3	8.7	9.5	0.5	9.5	12.0	8.0	4.0	7.5	1.0	7.5	2.5	2.0	84.5
#14 #	0.5	4.5	3.0	8.5	7.0	1.3	2.0	3.7	1.8	2.7	0.5	0.5	0.2	0.2	1.6	2.7	0.6	3.2	1.2	2.1	0.4	5.8	1.4	1.6	56.4
#15 #	0.2	2.3	7.5	16.0	14.0	6.0	4.0	5.0	1.0	0.5	0.2	2.5	1.0	1.3	3.0	1.8	1.7	0.4	0.6	1.0	6.5	5.5	3.0	2.7	87.7
#16 #	6.0	2.7	3.8	0.2	3.0	0.3	0.7	3.3	1.5	1.5	0.7	2.3	1.2	1.0	1.8	0.5	3.0	2.7	1.5	2.3	4.6	1.2	0.9	0.8	47.5
#17 #	1.2	8.8	2.7	0.3	0.5	1.0	22.0	18.0	10.0	3.5	2.5	0.5	0.3	12.5	6.2	4.7	1.5	6.5	7.3	10.0	6.0	4.0	14.2	2.3	146.5
#18 #	7.5	6.0	7.0	4.5	3.2	1.8	0.2	3.3	1.5	9.0	0.3	4.2	11.5	1.3	1.7	9.0	4.0	2.2	4.6	3.5	4.9	5.1	3.7	2.0	102.0
#19 #	2.5	0.2	4.0	0.0	0.5	0.0	1.8	5.0	1.0	2.5	0.5	2.0	0.0	2.0	2.5	3.0	0.8	0.0	7.2	2.3	0.7	1.8	1.2	0.0	41.5
#20 #	0.0	0.5	0.1	0.3	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.3	0.5	0.0	0.2	0.1	1.0	0.3	0.1	0.2	0.3	1.2	0.6	0.3	6.3
#21 #	0.0	1.5	0.5	0.3	0.2	0.1	0.4	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.1	0.0	0.1	1.8	0.4	0.1	7.5
#22 #	0.0	0.0	1.5	1.0	2.5	0.0	0.0	0.0	0.2	0.3	0.0	0.2	16.8	13.0	5.0	1.0	2.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	43.8
#23 #	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.2	0.3	0.3	2.0	3.2	0.0	0.5	0.1	0.1	0.1	0.0	0.0	0.1	7.4
#24 #	0.0	2.5	2.0	0.2	0.0	0.0	0.1	0.2	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.2	0.1	0.1	6.2
#25 #	0.0	0.2	0.3	0.5	1.0	0.0	0.5	0.8	0.7	0.2	0.5	0.1	0.6	0.1	0.2	0.3	0.2	0.5	0.0	0.0	0.1	1.2	1.2	2.3	11.5
#26 #	0.0	0.2	0.0	0.3	0.0	0.0	0.3	0.7	1.2	0.8	0.2	1.0	0.0	0.0	1.0	0.2	0.1	0.5	0.9	0.1	0.0	0.2	0.0	0.3	8.0
#27 #	0.0	2.0	3.9	0.0	0.0	0.3	1.8	6.5	0.5	5.0	13.5	6.5	0.5	0.0	6.0	0.7	0.3	0.0	0.0	0.2	2.3	4.2	0.5	0.9	55.6
#28 #	0.0	0.8	0.7	0.2	2.3	6.0	0.7	1.0	0.8	0.5	1.0	2.0	0.0	2.0	5.0	5.5	1.5	1.5	0.5	0.8	2.5	0.2	2.5	0.7	38.7
#29 #	5.5	0.7	1.0	3.3	1.5	0.0	0.0	0.0	0.0	1.7	0.5	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.3	0.4	15.4
#30 #	0.0	1.2	2.8	0.5	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.5	0.5	0.2	0.3	0.2	2.0	0.1	1.2	0.2	0.0	0.0	0.1	0.0	10.3
#31 #	0.0	1.0	0.0	0.8	0.0	0.1	1.6	0.0	0.5	2.0	4.2	0.8	4.0	11.0	2.8	1.2	4.5	1.0	2.5	4.7	0.8	1.5	0.2	1.1	44.3

19.2 (contd...)

(b) STATION: KHAMAPUR YEAR :1988-87 MONTH : AUGUST

DAYS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1	0.0	4.0	1.8	1.4	0.1	4.7	2.0	0.0	1.0	1.5	0.1	0.9	1.0	0.5	1.5	0.8	1.7	0.8	0.7	1.7	1.6	3.5	1.2	0.5	33.0
2	0.3	0.2	0.5	0.3	0.4	4.3	5.5	1.5	5.5	6.5	2.0	4.7	4.3	3.5	1.7	0.8	5.0	0.7	0.8	14.0	5.0	9.0	18.0	24.8	114.8
3	1.0	10.0	2.9	2.5	2.0	5.0	3.5	2.0	0.3	0.4	0.0	1.3	17.0	13.0	13.0	1.5	1.5	2.5	1.5	1.2	3.8	1.2	0.8	0.2	87.2
4	0.4	0.0	0.1	11.0	2.7	2.3	3.5	1.5	1.5	7.0	2.5	3.0	2.5	4.5	3.2	4.3	1.0	0.5	0.7	2.0	5.8	2.0	2.7	0.3	65.0
5	1.0	4.5	1.5	0.0	0.1	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.3	1.8	0.0	0.5	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.1	12.6
6	0.0	0.3	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
7	0.0	0.0	0.0	0.0	0.2	0.8	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	1.7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	0.1	0.1	0.1	2.3
9	0.0	0.2	0.0	0.5	2.0	2.3	0.0	0.0	0.0	0.5	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.5	0.0	0.2	0.2	0.1	7.0
10	0.5	0.2	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.1	0.6	0.2	0.5	0.2	0.0	0.1	6.8
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.1	0.1	0.8
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
16	0.0	0.0	0.0	1.5	3.5	0.2	0.0	0.0	0.8	1.5	0.2	0.5	0.8	1.4	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	11.0
17	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.2	0.3	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	3.4
18	0.0	0.0	0.2	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.2	0.3	0.0	0.0	0.0	0.3	0.2	0.0	1.0	0.5	5.5
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.5	0.0	0.2	0.1	0.2	0.0	0.3	0.0	0.1	0.1	2.2
20	0.0	0.7	1.7	0.0	0.3	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	1.0	0.1	0.9	0.4	0.1	0.2	0.5	0.2	7.4
21	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.0	1.6	0.4	0.8	0.2	0.0	0.0	0.8	4.8
22	0.0	0.0	0.0	0.2	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.5	0.2	0.2	0.3	0.0	3.7
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.3	1.2	2.2
24	0.0	0.2	0.6	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5	0.0	0.0	0.0	0.0	0.1	0.0	3.6
25	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	1.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.3
28	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.8
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	4.0	5.7	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	13.7

10.2 (contd...)

(b) STATION: THANAPUR YEAR : 1988-89 MONTH : SEPTEMBER

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
# 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	4.0	5.7	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	13.7
# 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
# 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.0	0.4
# 4	0.0	0.0	0.0	0.5	0.0	0.5	0.2	0.5	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.0	0.0	0.1	2.8
# 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# 6	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.2
# 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.1	0.1	0.0	0.0	0.0	1.5
# 9	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.5
#10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#11	0.0	0.0	0.0	0.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6
#12	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
#13	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
#14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.5
#15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.2	0.0	0.0	0.1	0.3	0.1	0.1	4.5
#18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	2.7
#19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.3
#20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.2	0.0	0.1	0.0	2.6
#21	0.0	0.0	1.5	1.0	1.0	0.0	1.5	0.5	0.5	0.0	0.5	0.2	0.0	0.8	3.5	5.0	7.2	0.3	3.5	0.0	0.1	0.1	0.1	0.1	27.4
#22	0.0	0.0	3.2	0.5	1.3	0.7	0.3	5.0	2.0	1.0	1.0	0.7	1.3	0.5	0.7	0.8	1.0	0.5	0.2	0.6	0.9	1.0	1.1	0.7	25.0
#23	0.0	0.2	0.0	0.0	1.8	0.0	0.3	0.0	1.5	0.0	0.2	1.0	2.7	6.3	1.0	0.3	0.0	1.2	1.5	1.7	1.3	0.2	0.2	0.1	21.5
#24	0.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	3.8	0.5	0.5	0.0	0.5	1.0	0.5	2.5	0.0	0.0	14.0
#25	20.0	2.5	2.0	0.0	0.0	3.5	3.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	33.7
#26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.2	0.8	0.2	0.8	0.2	0.5	0.1	0.2	0.0	0.1	0.1	6.7
#27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
#28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.1	0.0	0.1	1.4
#29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.5
#30	0.0	0.0	0.0	0.0	3.0	3.0	2.5	0.2	0.0	0.0	1.3	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	10.5

10.2 (contd...)

(b) STATION: KHANAPUR YEAR :1988-89 MONTH :OCTOBER

HOURS / DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
3	0.0	0.0	0.0	0.0	0.0	0.5	0.8	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NOTE : NO RAINFALL IN NOVEMBER

(CONTD...)

(b) STATION: THANAPUR YEAR : 1988-89 MONTH : DECEMBER

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	1.8	1.0	0.4	0.3	0.7	0.7	0.6	3.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	9.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NOTE: NO RAINFALL DURING JAN. AND. FEB.

HOURLY RAINFALL

(P) STATION : KHANAPUR YEAR : 1988-89 MONTH : MARCH

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.7
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	8.5
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	1.5	2.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
28	0.0	0.0	0.0	0.2	0.6	0.9	1.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

HOURLY RAINFALL

STATION : KHAMAPUR YEAR : 1988-89 MONTH : APRIL

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1	0.0	0.0	0.2	0.3	0.1	0.8	0.4	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	25.2
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.5	0.3	0.0	0.0	0.0	1.5
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

10.2 HOURLY RAINFALL

(b) STATION : KHANAPUR YEAR : 1988-89 MONTH MAY

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.8
7	0.0	0.0	0.0	0.0	0.0	1.5	4.0	0.2	4.3	0.5	0.5	0.7	0.3	0.0	0.0	0.0	0.0	0.0	6.0	4.5	0.5	0.0	0.0	0.5	23.5
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.1	0.0	0.0	0.1	0.0	0.0	1.5
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

10.2 HOURLY RAINFALL

(c) STATION : MALAPRABHA DAM YEAR : 1988-89 MONTH : APRIL

HOURS DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1	DATA NOT RECORDED							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.(
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.

NOTE : DURING REMAINING MONTHS DATA NOT RECORDED

10.2 HOURLY RAINFALL

(c) STATION : MALAPRABHA DAM YEAR : 1988-89 MONTH : MAY

HOURS / DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

10.3 DAILY TEMPERATURE DATA (°C)

STATION : SANTIBASTWAD YEAR : 1988-89

MONTH / DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	REMARKS
1	34.5	26.5	25.5	25.0	28.0	28.0	28.0	28.0	30.0	32.0	33.5	36.5	
2	32.0	28.0	25.5	26.5	28.0	29.0	26.5	29.0	30.0	32.0	35.5	34.5	
3	33.5	28.0	25.5	28.0	28.0	29.0	28.0	27.5	30.0	32.0	35.5	35.5	
4	33.5	25.5	25.5	29.0	28.0	30.0	28.0	27.5	30.0	33.5	34.5	34.5	
5	32.0	25.5	25.5	28.0	28.0	30.0	29.0	27.5	30.0	33.5	35.0	36.5	
6	32.0	26.5	25.5	26.5	28.0	30.0	30.0	27.5	30.0	32.0	35.5	34.5	
7	31.0	25.5	26.5	28.0	28.0	30.0	29.0	29.0	32.0	33.5	36.5	36.5	
8	30.0	25.5	26.5	29.0	29.0	30.0	29.0	29.0	32.0	32.0	37.5	33.5	
9	32.0	28.0	28.0	28.0	28.0	26.5	28.0	30.0	32.0	32.0	37.5	33.5	
10	26.5	26.5	28.0	28.0	28.0	28.0	28.0	29.0	32.0	33.5	36.5	33.5	
11	25.5	26.5	25.5	26.5	28.0	29.0	26.5	27.5	32.0	32.0	36.5	36.5	
12	25.5	28.0	26.5	26.5	29.0	30.0	26.5	29.0	32.0	32.0	36.5	36.5	
13	25.5	29.0	26.5	26.5	29.0	30.0	28.0	30.0	30.0	33.5	35.5	36.5	
14	24.5	26.5	26.5	28.0	29.0	28.0	27.0	29.0	30.0	32.0	34.5	36.5	
15	25.5	25.5	28.0	29.0	28.0	30.0	24.0	29.0	31.0	33.5	36.5	35.5	
16	26.5	25.5	26.5	29.0	28.0	30.0	24.5	27.5	31.0	32.0	35.0	35.5	
17	26.5	25.5	26.5	29.0	28.0	30.0	26.5	26.5	32.0	33.5	36.5	35.5	
18	39.0	24.5	25.5	28.0	29.0	29.0	27.0	27.5	32.0	33.5	37.5	31.0	
19	29.0	24.5	25.5	28.0	30.0	30.0	27.0	29.0	32.0	34.5	37.5	33.5	
20	29.0	25.5	29.0	26.5	29.0	30.0	27.0	29.0	32.0	33.5	37.5	32.0	
21	29.0	25.5	26.5	26.5	29.0	30.0	28.0	29.0	32.0	33.5	36.5	32.0	
22	29.0	26.5	25.5	25.5	28.0	30.0	28.0	30.0	31.0	33.5	35.5	33.5	
23	25.5	25.5	25.5	25.5	29.0	30.0	25.5	30.0	32.0	34.5	35.5	34.5	
24	26.5	25.5	25.5	28.0	30.0	30.0	27.0	30.0	33.0	34.5	35.5	34.5	
25	25.5	24.5	25.5	26.5	30.0	29.0	28.0	30.0	33.0	34.5	32.0	33.5	
26	26.5	25.5	26.5	26.5	29.0	29.0	29.0	30.0	32.0	33.5	32.0	32.0	
27	25.5	24.5	26.5	29.0	29.0	29.0	29.0	30.0	32.0	33.5	34.5	33.5	
28	25.5	24.5	25.5	28.0	28.0	29.0	29.0	30.0	31.0	31.0	35.5	33.5	
29	25.5	25.5	28.0	28.0	28.0	29.5	29.5	30.0	-	31.0	35.5	32.0	
30	26.5	25.5	28.0	28.0	28.0	29.0	28.0	30.0	-	32.0	36.5	33.5	
31	-	25.5	25.0	-	28.0	-	28.0	30.0	-	33.5	-	33.5	
TOTAL	848.5	805.0	816.0	824.5	884.0	881.0	856.5	897.0	868.0	1021.0	1070.5	1064.0	
MEAN	28.3	26.0	26.3	27.5	28.5	29.3	27.6	29.0	31.0	33.0	35.7	34.3	
MAX	34.5	29.0	29.0	29.0	30.0	30.0	30.0	30.0	33.0	34.5	37.5	36.5	
MIN	24.5	24.5	25.5	25.0	28.0	26.5	24.0	26.5	30.0	31.0	32.0	31.0	

10.4 DAILY WIND DATA (Km/hr)

STATION : SANTIBASTWAD YEAR : 1988-89

MONTH / DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	REMARKS
1	11.4	10.5	16.6	6.5	7.9	3.5	2.2	7.1	2.1	7.9	6.3	7.4	
2	13.7	9.4	18.7	6.5	7.4	3.6	3.8	4.9	3.8	9.3	6.7	9.7	
3	11.9	11.5	14.4	5.8	6.8	3.1	5.9	3.7	3.8	9.2	6.2	9.8	
4	11.8	10.9	9.2	8.8	7.8	5.4	4.3	4.1	4.2	9.6	3.7	8.0	
5	11.6	13.9	10.1	9.4	6.5	4.4	3.8	2.9	3.5	9.3	5.9	6.4	
6	9.9	9.4	7.9	3.7	5.9	6.5	3.6	4.4	4.0	9.1	4.4	6.5	
7	5.9	9.3	7.4	7.9	4.4	5.6	3.2	5.2	4.3	9.7	5.0	5.4	
8	5.6	8.7	11.9	7.7	5.4	5.8	4.6	5.1	3.5	9.7	6.1	4.2	
9	5.6	8.9	8.5	8.2	5.1	4.6	3.1	2.6	4.0	8.7	6.6	6.9	
10	11.9	6.4	9.1	7.1	2.1	4.9	3.2	2.7	5.4	8.8	7.3	7.4	
11	12.2	7.8	10.9	5.4	3.2	5.4	3.6	3.9	6.0	9.2	8.0	7.1	
12	14.9	10.1	7.1	3.7	3.6	4.5	5.6	3.1	3.9	9.8	7.5	9.8	
13	10.3	11.4	6.4	3.5	3.7	4.3	8.2	3.1	3.8	9.8	6.7	10.9	
14	13.1	10.4	6.2	5.2	4.5	4.0	6.5	3.6	4.7	8.1	6.7	10.7	
15	16.1	13.7	5.9	5.1	4.9	3.8	4.2	4.9	4.5	8.5	8.2	10.6	
16	13.3	16.0	7.5	6.9	3.9	3.9	4.4	3.8	4.0	9.2	8.9	11.4	
17	11.1	16.1	6.4	6.8	3.9	3.7	5.4	4.0	3.9	9.8	7.4	13.1	
18	11.2	15.1	9.6	10.2	4.0	2.7	6.2	3.5	4.0	9.8	6.5	11.5	
19	11.2	15.5	11.0	8.3	4.8	3.2	6.5	2.8	5.3	8.1	6.5	10.3	
20	9.4	16.5	11.8	13.4	5.4	3.3	6.5	2.6	3.6	9.3	7.0	14.8	
21	9.8	13.6	10.0	13.1	6.2	3.5	8.3	3.1	3.7	9.1	8.0	14.9	
22	10.5	11.7	9.8	20.6	3.7	3.2	0.6	4.9	3.8	7.5	8.4	12.3	
23	10.9	8.1	11.1	19.4	4.1	4.3	4.3	3.1	4.5	7.6	9.7	15.0	
24	11.9	9.2	10.1	10.4	4.2	4.0	3.8	4.3	4.0	9.1	7.5	13.6	
25	11.6	11.3	12.5	4.9	3.9	3.8	3.3	5.7	4.3	7.0	5.4	15.7	
26	10.2	9.3	5.9	5.3	3.5	4.0	2.7	3.9	4.8	10.4	7.9	12.8	
27	12.7	11.4	9.2	6.6	2.8	3.5	4.2	3.1	4.8	9.3	9.6	13.3	
28	12.5	17.2	4.0	9.8	3.9	3.8	2.8	4.1	3.8	8.1	10.0	12.7	
29	11.7	12.7	5.9	7.9	3.6	2.9	5.4	5.1	-	8.6	8.1	14.0	
30	8.7	12.0	8.5	8.2	3.9	3.5	6.3	4.3	-	9.3	9.5	10.2	
31	-	12.4	7.2	-	2.8	-	5.3	4.9	-	8.4	-	11.5	
TOTAL	332.6	359.4	290.8	245.8	146.8	122.7	141.8	123.5	116.0	276.3	215.7	327.9	
MEAN	11.0	11.6	9.4	8.2	4.7	4.1	4.6	4.0	4.1	8.9	9.7	10.6	
MAX	14.9	17.2	18.7	20.6	8.4	6.5	8.3	7.1	6.0	9.8	10.0	15.7	
MIN	5.6	8.1	4.0	3.5	2.1	2.7	2.2	2.6	2.1	7.0	3.7	4.2	

10.5 DAILY VAPOUR PRESSURE (mb.)

STATION : SANTIBASTWAD YEAR : 1988-89

MONTH / DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	REMARKS
1	39.4	30.6	25.3	28.4	33.2	32.8	27.2	28.4	33.9	35.7	37.8	41.5	
2	39.8	33.2	28.8	30.9	32.3	32.3	27.9	32.3	32.3	34.5	38.5	40.5	
3	33.5	32.8	28.3	31.9	31.4	33.2	29.7	33.2	33.2	33.9	30.6	31.7	
4	34.2	33.2	31.4	29.1	33.2	30.2	29.4	29.1	32.8	38.5	30.6	39.4	
5	32.8	30.6	30.4	28.3	30.6	33.2	30.9	29.7	33.9	35.7	28.6	36.3	
6	30.9	30.1	30.1	30.1	32.8	30.1	29.4	25.8	34.8	33.9	33.6	30.1	
7	30.1	29.7	30.4	32.3	33.5	31.9	27.9	32.3	30.2	31.9	29.3	39.8	
8	30.9	32.1	30.1	29.3	32.1	23.9	30.9	28.3	31.9	36.2	40.3	41.7	
9	32.8	33.5	32.3	29.7	31.9	30.1	30.6	25.8	32.3	34.2	33.0	41.5	
10	37.6	34.5	30.9	29.3	32.8	29.3	27.6	28.4	31.4	32.5	33.8	34.2	
11	32.8	31.8	29.1	30.1	30.6	29.7	28.4	29.7	32.8	37.2	27.6	38.5	
12	33.5	26.0	28.4	28.4	33.5	28.7	30.1	33.2	35.3	32.8	28.8	40.5	
13	32.3	30.1	31.4	31.4	33.2	28.8	29.7	27.2	32.8	37.8	35.7	41.5	
14	30.6	28.3	29.7	30.6	33.5	27.6	31.4	32.3	35.3	39.4	35.7	39.8	
15	31.4	28.7	28.4	32.3	34.3	20.5	28.4	31.4	32.1	33.9	34.2	39.4	
16	29.7	26.2	31.4	34.3	32.1	30.9	28.3	28.3	32.5	36.2	31.7	40.5	
17	34.8	28.3	30.4	33.2	31.9	30.4	34.3	29.7	31.5	39.4	32.6	38.5	
18	34.5	26.2	28.8	31.5	31.9	29.7	29.3	25.8	34.8	35.7	29.8	41.7	
19	34.8	26.5	30.9	28.8	32.8	30.1	31.9	27.2	34.3	35.7	29.8	41.5	
20	38.7	29.4	30.1	32.3	33.2	25.8	29.7	30.1	35.3	39.4	40.0	39.4	
21	34.3	28.7	30.9	29.4	34.8	27.9	26.8	29.1	31.8	32.1	37.2	40.5	
22	33.5	28.3	28.8	28.8	31.5	28.4	30.1	27.1	34.3	37.2	33.9	35.7	
23	31.9	28.3	30.9	30.1	34.8	31.4	29.7	29.7	35.3	38.5	34.2	38.5	
24	29.7	30.4	28.4	30.1	31.9	28.4	29.1	31.9	34.5	39.4	39.4	39.8	
25	28.3	28.7	28.8	29.1	32.3	28.4	24.7	32.8	33.9	35.7	40.0	41.0	
26	27.4	28.3	28.7	30.9	32.8	26.0	28.7	30.6	34.2	34.0	39.4	41.0	
27	31.4	26.2	33.2	30.1	30.6	25.8	29.4	32.3	31.7	34.2	42.4	40.3	
28	30.9	26.5	30.9	30.4	34.3	31.4	31.9	30.6	34.5	32.8	41.7	40.3	
29	30.1	25.0	30.6	31.9	33.2	28.4	30.9	29.3	-	37.2	39.4	41.5	
30	28.4	31.4	28.0	29.7	32.8	30.1	30.6	34.3	-	41.0	40.0	44.2	
31	-	32.3	33.2	-	30.6	-	29.7	32.3	-	37.8	-	41.5	
TOTAL	981.0	915.9	929.0	912.7	1010.4	875.4	914.6	928.2	933.6	1114.4	1013.9	1222.3	
MEAN	32.7	29.5	30.0	30.4	32.6	29.2	29.5	30.0	33.3	36.0	33.8	39.4	
MAX	39.8	34.5	33.2	34.3	34.8	32.8	34.3	34.3	35.3	41.0	42.4	41.7	
MIN	27.4	25.0	25.3	28.3	30.6	20.5	24.7	25.8	31.5	31.9	27.6	30.1	

10.6 DAILY EVAPORATION DATA (mm)

STATION : SANTIBASTWAD YEAR : 1988-89

MONTH / DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	REMARKS
1	6.1	5.1	2.2	5.3	5.0	5.0	4.0	4.5	4.9	5.6	5.4	5.9	
2	6.1	4.4	3.2	4.5	4.3	4.8	4.5	4.3	4.8	5.4	5.3	5.7	
3	6.0	4.9	7.4	4.9	5.4	5.0	4.8	4.6	5.2	5.5	5.5	5.4	
4	5.6	4.3	1.8	4.5	5.3	5.1	4.7	4.7	5.4	5.2	5.6	5.2	
5	5.1	4.9	1.2	5.3	5.5	4.9	4.9	4.8	5.3	5.2	5.4	5.7	
6	4.8	4.6	4.0	5.1	5.3	4.8	4.7	4.5	5.5	5.6	5.0	5.3	
7	4.3	5.2	2.6	5.0	5.6	4.9	4.2	4.5	5.0	5.3	5.4	5.4	
8	4.8	5.0	4.7	5.1	5.4	4.5	4.7	4.0	4.7	5.4	5.5	5.3	
9	5.4	5.2	3.6	5.2	5.3	4.7	4.5	4.3	4.9	5.5	5.5	5.7	
10	3.9	5.3	4.4	5.2	5.2	4.7	4.1	4.2	4.4	5.4	6.2	5.7	
11	5.3	5.1	4.5	4.6	5.3	4.6	4.3	4.7	4.8	5.1	5.6	6.0	
12	5.1	4.7	3.8	4.1	5.4	4.7	4.9	4.5	4.9	4.9	5.4	6.0	
13	5.0	4.6	4.9	4.5	5.5	4.6	4.4	4.7	4.9	5.2	5.6	6.0	
14	4.6	1.8	5.1	5.0	5.0	4.5	4.4	4.7	5.3	5.3	5.6	5.8	
15	4.6	0.9	5.2	5.2	5.4	4.5	4.4	4.0	5.6	5.8	5.6	6.0	
16	4.8	0.6	4.8	5.3	5.5	4.8	4.8	3.9	5.3	5.5	5.5	6.1	
17	5.0	0.9	5.3	5.5	5.5	4.8	4.8	4.6	5.6	5.5	5.6	5.9	
18	5.3	1.0	4.9	5.6	5.2	4.8	4.6	4.1	5.3	5.7	5.8	5.9	
19	5.7	0.7	4.1	4.7	5.3	4.6	4.9	4.3	5.2	5.4	6.1	5.3	
20	5.6	0.6	5.2	5.0	5.1	4.8	4.8	4.4	5.3	5.4	5.4	6.0	
21	5.4	1.3	4.2	3.9	5.5	4.8	4.9	4.4	5.3	5.4	5.5	6.1	
22	5.9	2.1	4.8	3.9	5.4	4.3	4.8	4.4	5.4	4.7	5.2	5.8	
23	5.0	1.2	4.6	4.7	5.4	4.5	4.5	4.7	5.5	5.4	5.3	5.7	
24	5.0	3.4	4.6	3.5	5.2	4.6	4.4	5.1	5.8	5.2	5.7	5.7	
25	4.1	4.3	5.6	5.1	5.0	4.3	4.4	5.0	5.4	5.1	5.6	6.1	
26	3.5	3.4	5.2	4.1	5.5	4.5	4.4	5.0	5.1	5.3	5.6	6.4	
27	3.1	0.7	5.1	5.0	5.2	4.2	4.5	4.8	5.4	5.1	5.5	6.2	
28	4.8	0.3	5.3	5.1	4.9	4.3	4.8	5.0	5.5	5.1	5.5	6.3	
29	5.0	0.9	5.1	5.6	4.8	4.2	4.4	4.8	-	5.4	5.5	6.0	
30	5.3	1.8	5.2	5.1	4.9	4.3	4.8	4.9	-	5.4	5.6	6.3	
31	-	3.2	5.4	-	5.0	-	4.2	5.0	-	2.2	-	5.5	
TOTAL	150.2	92.4	138.0	145.6	163.3	140.1	142.5	141.4	145.7	162.2	166.0	180.4	
MEAN	5.0	3.0	4.5	4.9	5.3	4.7	4.6	4.6	5.2	5.2	5.5	5.8	
MAX	6.1	5.3	7.4	5.6	5.6	5.0	4.9	5.0	5.8	5.8	6.2	6.4	
MIN	3.1	0.6	1.2	3.9	4.8	4.2	4.1	3.9	4.7	4.7	5.2	5.2	

10.6 (b) DAILY EVAPORATION DATA FOR THE YEAR 1988-89

STATION : NAVILUTEERTH (MALAPRABHA DAM) UNITS : mm

DATE	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
1	6.5	5.2	3.6	1.3	3.9	6.5	6.0	5.8	8.4	9.3	6.6	7.7
2	8.5	1.8	1.2	2.0	2.2	7.2	6.8	5.9	8.5	8.2	5.0	8.8
3	7.9	4.6	0.2	2.4	2.6	5.9	4.6	4.5	8.8	9.4	6.0	7.0
4	8.0	2.1	2.1	2.0	3.6	7.0	4.7	5.8	10.6	5.6	7.7	7.8
5	7.5	5.3	2.2	4.7	3.5	6.6	6.6	6.0	10.1	7.1	8.7	5.0
6	4.8	3.7	3.1	4.0	4.8	7.0	5.0	5.6	7.5	5.2	14.0	7.7
7	5.2	4.2	3.2	5.1	4.0	7.6	6.6	5.9	5.7	7.9	11.9	8.0
8	4.7	4.3	4.6	4.0	5.3	7.1	6.3	4.5	7.1	8.7	9.0	7.5
9	4.7	4.8	3.1	7.0	3.5	8.3	5.0	6.1	6.6	5.8	10.0	6.0
10	3.7	2.5	2.8	3.1	5.0	8.4	6.0	6.3	6.3	5.3	6.0	9.9
11	3.8	5.0	3.1	2.8	4.8	8.5	6.6	4.8	6.8	6.4	7.3	9.1
12	3:9	3.0	3.7	2.4	7.5	8.8	5.8	7.0	5.8	8.5	8.9	7.7
13	5.3	3.9	3.9	3.1	5.4	6.5	4.4	4.4	8.4	8.0	7.5	8.4
14	1.0	2.9	4.8	3.2	3.8	7.5	1.9	4.5	7.9	6.0	8.3	7.5
15	4.4	2.7	3.9	5.1	6.2	7.5	3.8	4.9	8.6	6.0	8.1	8.2
16	4.1	2.8	3.8	3.5	6.0	7.1	3.5	7.0	11.1	6.9	6.2	7.7
17	5.3	1.8	3.2	2.9	6.7	7.9	4.4	6.9	10.0	6.0	9.4	7.0
18	6.0	0.9	1.8	4.0	4.9	7.0	5.1	6.9	8.9	7.1	9.0	5.5
19	6.0	2.8	3.0	2.3	7.7	7.0	5.6	5.4	7.5	7.0	8.0	6.0
20	6.4	4.0	4.1	3.9	6.0	6.7	5.2	5.2	9.3	7.1	7.7	7.0
21	5.1	4.4	3.1	3.5	6.0	6.5	4.8	6.0	8.0	6.0	8.8	6.0
22	4.1	1.5	3.2	2.8	7.9	5.8	5.4	4.5	7.6	7.0	7.5	6.0
23	4.0	4.1	2.6	3.6	7.3	4.8	5.6	5.9	9.9	7.2	4.0	7.3
24	2.3	3.9	5.7	3.5	8.0	4.4	6.1	4.9	8.9	7.1	7.2	7.6
25	2.3	3.0	3.8	2.2	7.5	4.1	5.1	5.1	9.0	6.5	4.3	6.4
26	3.4	2.2	6.5	2.0	7.1	4.7	5.5	6.7	7.8	6.0	6.8	7.2
27	1.4	2.6	3.2	2.0	7.1	6.6	4.9	5.3	10.4	7.3	7.1	8.3
28	3.7	4.1	4.4	4.3	8.2	6.0	4.7	6.5	10.9	6.9	7.5	8.1
29	2.9	2.0	1.5	4.3	7.4	4.9	6.5	7.0		5.6	8.2	7.2
30	6.0	2.5	2.1	4.5	7.5	6.7	5.7	7.7		6.3	10.0	7.6
31		2.3	1.8		6.0		5.0	7.1		6.7		8.0

11.0 HYDROLOGICAL DATA

11.1 DAILY STAGE(m) AND DISCHARGE(cumecs) DATA

(a) STATION : BIDI YEAR : 1988-89

MONTH	JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		REMARKS
DATE	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	
1	0.00	0.00	0.06	0.00	1.46	10.55	0.40	1.43	0.60	2.53	0.27	0.28	
2	0.00	0.00	0.06	0.00	1.33	7.73	0.40	1.31	0.55	2.10	0.27	0.26	
3	0.00	0.00	0.07	0.00	3.25	35.26	0.45	1.66	0.60	2.60	0.27	0.25	
4	0.00	0.00	0.08	0.00	4.45	73.18	0.50	2.25	0.60	2.81	0.26	0.25	
5	0.00	0.00	0.08	0.00	2.75	25.39	0.45	1.84	0.65	2.72	0.26	0.26	
6	0.00	0.00	0.12	0.08	2.48	20.02	0.45	1.71	0.50	1.79	0.26	0.26	
7	0.00	0.00	0.13	0.06	1.48	10.41	0.40	1.44	0.45	1.68	0.26	0.26	
8	0.00	0.00	0.13	0.08	1.18	5.98	0.35	1.46	0.43	1.45	0.26	0.25	
9	0.00	0.00	0.13	0.06	1.13	4.34	0.35	1.08	0.43	1.56	0.25	0.24	
10	0.00	0.00	0.13	0.05	1.25	5.08	0.35	0.99	0.40	1.34	0.25	0.24	
11	0.00	0.00	0.12	0.05	1.25	6.00	0.35	1.09	0.35	0.62	0.25	0.22	
12	0.00	0.00	0.10	0.05	0.93	4.15	0.75	4.86	0.35	0.65	0.25	0.18	
13	0.00	0.00	0.14	0.08	1.13	6.41	0.55	2.91	0.33	0.53	0.23	0.19	
14	0.00	0.00	0.31	0.94	1.08	6.85	0.50	2.03	0.30	0.49	0.20	0.18	
15	0.00	0.00	1.33	5.72	1.33	8.58	0.45	1.68	0.30	0.52	0.20	0.13	
16	0.00	0.00	2.20	20.19	0.98	4.67	0.40	1.29	0.30	0.51	0.00	0.00	
17	0.00	0.00	2.40	25.39	1.18	6.27	0.40	1.26	0.30	0.51	0.00	0.00	
18	0.00	0.00	3.21	51.04	0.88	3.97	0.40	0.99	0.30	0.60	0.00	0.00	
19	0.00	0.00	3.43	24.55	0.85	3.73	0.35	0.90	0.30	0.58	0.00	0.00	
20	0.00	0.00	2.21	21.92	0.55	2.78	0.35	1.05	0.30	0.55	0.00	0.00	
21	0.00	0.00	1.44	11.48	0.53	3.04	0.40	1.29	0.30	0.39	0.00	0.00	
22	0.00	0.00	1.38	7.56	0.50	2.87	0.50	2.62	0.29	0.34	0.00	0.00	
23	0.00	0.00	1.68	12.46	0.50	2.19	0.75	4.61	0.29	0.40	0.00	0.00	
24	0.00	0.00	1.50	9.23	0.50	2.71	0.75	4.45	0.29	0.34	0.00	0.00	
25	0.00	0.00	1.23	8.91	0.50	2.08	1.73	24.85	0.29	0.29	0.00	0.00	
26	0.00	0.00	1.25	6.74	0.50	2.24	1.20	8.65	0.29	0.25	0.00	0.00	
27	0.00	0.00	1.43	9.69	0.48	2.03	1.47	18.98	0.28	0.29	0.00	0.00	
28	0.00	0.00	1.53	9.18	0.45	1.98	1.36	13.55	0.28	0.27	0.00	0.00	
29	0.00	0.00	1.74	11.22	0.45	1.62	0.75	4.38	0.28	0.27	0.00	0.00	
30	0.00	0.00	2.29	17.44	0.45	1.60	0.64	3.11	0.28	0.25	0.00	0.00	
31	-	-	1.59	10.26	0.45	1.67	-	-	0.27	0.27	-	-	
TOTAL	0.00	0.00	33.51	266.48	36.23	275.33	18.15	119.12	11.45	29.46	3.48	3.46	
MEAN	0.00	0.00	1.08	8.60	1.69	8.88	0.61	3.97	0.37	0.95	0.23	0.23	
MAX	0.00	0.00	3.43	51.04	4.45	73.18	1.73	24.85	0.65	2.81	0.27	0.28	
MIN	0.00	0.00	0.06	0.05	0.45	1.55	0.35	0.90	0.27	0.25	0.00	0.13	

MONTH	DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		REMARKS
DATE	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	-	-	0.00	0.00	-	-	0.00	0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

11.1 DAILY STAGE (m) AND DISCHARGE (cumecs) DATA

(b) STATION : KHANAPUR YEAR : 1988-89

MONTH	JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		REMARKS
DATE	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	STAGE	DIS.	
1	0.00	0.00	0.64	19.98	2.75	204.04	1.18	44.99	1.17	43.12	0.29	4.20	
2	0.00	0.00	0.75	30.95	2.86	210.88	1.05	33.45	1.12	34.43	0.29	4.00	
3	0.00	0.00	0.75	27.55	6.80	NR	0.96	30.82	1.16	44.25	0.28	3.75	
4	0.00	0.00	0.68	21.83	5.40	NR	0.98	34.57	1.03	34.17	0.27	3.78	
5	0.00	0.00	0.66	29.35	4.81	NR	0.88	30.27	0.97	30.86	0.26	3.75	
6	0.00	0.00	0.66	20.06	2.77	210.67	0.84	27.44	0.93	27.89	0.24	3.51	
7	0.00	0.00	0.60	17.74	2.48	139.55	0.80	25.66	0.90	26.87	0.24	3.74	
8	0.00	0.00	0.57	16.09	2.04	98.37	0.77	23.89	0.85	25.32	0.22	3.60	
9	0.00	0.00	0.57	11.55	2.14	124.66	0.81	28.45	0.81	23.71	0.20	3.28	
10	0.00	0.00	0.47	11.68	1.74	95.09	0.71	24.80	0.74	23.09	0.20	2.89	
11	0.00	0.00	0.66	20.13	1.68	80.68	0.76	22.03	0.70	19.97	0.20	2.81	
12	0.00	0.00	0.48	11.94	1.58	74.34	0.77	22.01	0.68	18.27	0.20	2.72	
13	0.00	0.00	1.11	51.82	1.44	65.66	0.68	22.26	0.64	16.38	0.20	2.91	
14	0.00	0.00	3.05	235.38	1.34	54.78	0.62	20.94	0.62	15.09	0.24	2.86	
15	0.00	0.00	2.52	142.38	1.25	45.66	0.57	18.52	0.60	14.15	0.20	2.79	
16	0.00	0.00	3.01	232.20	1.25	48.57	0.56	18.49	0.58	13.15	0.20	2.66	
17	0.00	0.00	3.84	267.15	1.35	56.30	0.61	21.19	0.56	12.51	0.20	2.58	
18	0.00	0.00	6.15	NR	1.31	49.08	0.55	18.56	0.53	12.48	0.20	2.40	
19	0.00	0.00	3.96	295.90	1.39	65.16	0.54	18.30	0.50	11.22	0.20	2.39	
20	0.00	0.00	3.28	227.63	1.44	68.86	0.53	17.44	0.49	9.81	0.20	2.29	
21	0.00	0.00	2.73	218.41	1.61	82.48	0.95	82.80	0.48	9.25	0.20	2.24	
22	0.00	0.00	2.61	143.28	1.55	76.13	2.49	157.16	0.48	9.40	0.18	2.11	
23	0.00	0.00	3.25	271.96	1.47	65.66	2.66	172.83	0.46	8.55	0.17	2.00	
24	0.00	0.00	2.75	187.23	1.38	59.07	2.91	240.33	0.44	7.25	0.16	2.17	
25	0.00	0.00	2.26	111.77	1.32	52.88	2.22	127.68	0.42	6.62	0.15	2.12	
26	1.11	63.31	2.15	105.06	1.30	46.14	1.87	102.49	0.37	6.11	0.15	1.94	
27	0.78	47.95	2.40	139.32	1.23	43.45	1.62	81.59	0.34	5.81	0.11	1.87	
28	0.69	27.36	2.70	204.84	1.14	37.44	1.40	59.33	0.32	5.46	0.10	1.79	
29	0.57	17.11	3.12	238.10	1.09	33.25	1.30	50.42	0.30	5.26	0.10	1.60	
30	0.53	15.98	2.80	194.37	1.04	32.16	1.28	50.71	0.32	5.06	0.06	1.31	
31	-	-	2.60	167.70	1.00	28.87	-	-	0.29	4.63	-	-	
TOTAL	3.68	171.71	63.78	3673.35	61.95	2249.88	33.87	1585.14	19.80	530.13	5.91	82.06	
MEAN	0.74	34.34	2.05	118.50	2.00	72.58	1.13	52.84	0.64	17.10	0.20	2.70	
MAX	1.11	63.31	6.15	295.90	6.80	210.88	2.91	240.33	1.17	44.24	0.29	4.20	
MIN	0.53	15.98	0.47	11.55	1.00	28.87	0.53	17.44	0.29	4.63	0.06	1.31	

11.1 (contd...)

MONTH / DATE	DECEMBER STAGE	DECEMBER DIS.	JANUARY STAGE	JANUARY DIS.	FEBRUARY STAGE	FEBRUARY DIS.	MARCH STAGE	MARCH DIS.	APRIL STAGE	APRIL DIS.	MAY STAGE	MAY DIS.	REMARKS
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00	
29	0.00	0.00	0.00	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	-	-	0.00	0.00	-	-	0.00	0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

11.0 DAILY GAUGE AND DISCHARGE

(a) STATION : SANTIBESTWAD YEAR : 1988-89

DATE	JUNE STAGE	JUNE DIS.	JULY STAGE	JULY DIS.	AUGUST STAGE	AUGUST DIS.	SEPTEMBER STAGE	SEPTEMBER DIS.	OCTOBER STAGE	OCTOBER DIS.	NOVEMBER STAGE	NOVEMBER DIS.	REMARKS
1	0.00	0.00	0.00	0.00	0.82	13.61	0.27	0.73	0.33	1.80	0.15	0.28	
2	0.00	0.00	0.00	0.00	0.92	14.93	0.29	0.65	0.30	1.39	0.15	0.26	
3	0.00	0.00	0.00	0.00	2.52	34.72	0.28	0.66	0.28	1.52	0.15	0.23	
4	0.00	0.00	0.00	0.00	2.27	34.00	0.28	0.63	0.28	1.59	0.14	0.21	
5	0.00	0.00	0.00	0.00	1.75	25.78	0.28	0.60	0.27	1.35	0.14	0.16	
6	0.00	0.00	0.00	0.00	0.98	13.79	0.28	0.59	0.26	1.20	0.13	0.15	
7	0.00	0.00	0.00	0.00	0.93	12.38	0.27	0.59	0.26	1.27	0.13	0.10	
8	0.00	0.00	0.00	0.00	0.92	11.88	0.26	0.59	0.26	1.17	0.99	1.39	
9	0.00	0.00	0.00	0.00	0.93	11.86	0.26	0.60	0.26	1.04	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.80	9.71	0.25	0.60	0.25	1.19	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.80	9.70	0.26	0.57	0.25	1.06	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.84	10.40	0.32	0.62	0.23	0.96	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.80	9.70	0.29	0.61	0.22	0.80	0.00	0.00	
14	0.00	0.00	0.99	14.02	0.79	9.62	0.27	0.54	0.21	0.84	0.00	0.00	
15	0.00	0.00	0.55	5.86	0.77	9.00	0.26	0.54	0.21	0.84	0.00	0.00	
16	0.00	0.00	1.55	31.21	0.76	8.99	0.25	0.54	0.20	0.86	0.00	0.00	
17	0.00	0.00	1.56	26.50	0.81	9.74	0.25	0.53	0.20	0.96	0.00	0.00	
18	0.00	0.00	2.50	59.44	0.79	9.46	0.26	0.55	0.20	0.87	0.00	0.00	
19	0.00	0.00	2.20	43.70	0.78	9.54	0.25	0.53	0.20	0.74	0.00	0.00	
20	0.00	0.00	1.55	29.21	0.80	9.67	0.25	0.58	0.20	0.88	0.00	0.00	
21	0.00	0.00	1.55	28.83	0.74	8.78	0.40	1.38	0.19	0.77	0.00	0.00	
22	0.00	0.00	1.00	17.75	0.70	1.69	0.57	2.65	0.19	0.86	0.00	0.00	
23	0.00	0.00	1.55	28.94	0.68	1.40	0.85	11.49	0.19	0.86	0.00	0.00	
24	0.00	0.00	0.95	15.87	0.60	1.21	1.32	19.54	0.18	0.75	0.00	0.00	
25	0.00	0.00	0.80	13.63	0.52	1.24	0.98	13.97	0.18	0.39	0.00	0.00	
26	0.00	0.00	0.08	13.46	0.48	0.95	0.82	11.03	0.17	0.26	0.00	0.00	
27	0.00	0.00	0.09	14.49	0.38	0.85	0.78	9.86	0.17	0.39	0.00	0.00	
28	0.00	0.00	1.25	21.52	0.35	0.80	0.49	2.97	0.16	0.24	0.00	0.00	
29	0.00	0.00	1.65	29.54	0.32	0.69	0.41	2.84	0.16	0.30	0.00	0.00	
30	0.00	0.00	1.10	11.79	0.31	0.69	0.38	2.73	0.16	0.27	0.09	0.00	
31	0.00	0.00			0.30	0.79			0.16	0.25	0.00	0.00	
TOTAL	0.00	0.00	22.45	405.76	26.16	297.57	12.10	90.31	6.78	27.65	0.00	0.00	
MEAN	0.00	0.00	1.40	25.36	0.84	9.60	0.40	3.00	0.20	0.90	0.00	0.00	
MAX	0.00	0.00	2.50	59.49	2.52	34.72	1.32	19.54	0.33	1.80	0.00	0.00	
MIN	0.00	0.00	0.55	5.86	0.30	0.69	0.25	0.53	0.16	0.24	0.00	0.00	

11.0 (contd...)

(c)

MONTH / DATE	DECEMBER STAGE	DECEMBER DIS.	JANUARY STAGE	JANUARY DIS.	FEBRUARY STAGE	FEBRUARY DIS.	MARCH STAGE	MARCH DIS.	APRIL STAGE	APRIL DIS.	MAY STAGE	MAY DIS.	REMARKS
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	-	-	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	-	-	0.00	0.00	-	-	0.00	0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

STATION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BELGAUM													
	1986	8.17	DRY	DRY	9.60	6.83	7.88	3.65	3.85	3.70	4.45	4.40	5.30
	1987	5.65	5.90	5.62	6.00	4.80	DRY	DRY	4.12	2.70	3.06	3.16	6.15
	1988	6.22	6.50	6.40	6.50	6.60	DRY	1.00	0.76	3.20	4.45	6.20	7.25
	1989	7.90	8.75	7.20	7.80	7.50	3.07	0.70	2.70	3.80	5.10	6.10	6.70
DESUR													
	1986	6.75	DRY	DRY	11.41	11.60	8.59	3.86	2.52	3.45	4.54	4.50	5.29
	1987	6.53	12.70	8.75	11.25	12.75	8.00	5.75	4.76	3.86	3.35	6.35	DRY
	1988	5.55	7.95	8.55	12.30	12.25	9.10	1.55	1.33	0.80	0.95	1.40	4.35
	1989	5.60	11.35	11.90	15.00	16.20	7.83	1.18	1.10	3.70	2.86	3.68	4.95
SUTTAGATTI													
	1986	9.30	DRY	DRY	DRY	9.90	9.80	8.92	DRY	8.60	8.80	8.55	9.03
	1987	DRY	9.55	10.05	10.00	9.90	10.05	10.03	10.05	9.65	10.16	10.11	9.50
	1988	9.70	10.50	WET	DRY	10.70	10.70	10.20	5.60	5.45	5.05	6.15	6.25
	1989	6.45	6.80	7.00	7.50	9.70	9.45	8.35	6.10	6.80	5.65	6.05	7.50
BAILHONGAL													
	1986	2.35	DRY	DRY	2.58	3.15	1.47	0.91	1.05	1.80	0.89	1.10	1.88
	1987	2.52	3.00	3.77	DRY	4.85	4.50	4.35	3.50	2.30	2.30	2.42	1.83
	1988	3.00	4.10	4.60	5.40	5.35	5.00	4.65	4.20	4.10	0.85	0.75	0.76
	1989	0.65	1.00	1.05	1.15	1.23	1.05	0.50	0.72	0.70	1.10	1.40	1.50
M.K.HUBLI													
	1986	DRY	DRY	DRY	DRY	DRY	DRY	15.10	14.95	15.00	14.63	14.80	14.94
	1987	DRY	14.80	15.05	19.40	17.00	DRY	25.23	24.85	16.95	15.60	15.30	15.20
	1988	DRY	DRY	DRY	DRY	DRY	17.20	15.30	21.35	21.00	11.38	13.93	14.28
	1989	14.60	14.80	17.00	17.65	18.10	17.80	18.00	18.02	17.40	17.20	17.95	18.05
HULIKATTI													
	1986	6.60	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	7.75	4.80
	1987	8.98	7.07	7.20	9.05	6.92	10.10	10.35	9.75	9.85	10.05	9.81	9.90
	1988	9.90	10.30	10.45	11.15	11.15	11.45	11.43	11.55	11.50	10.13	10.03	10.20
	1989	9.75	9.85	9.90	10.10	10.25	9.74	9.50	10.00	10.05	9.70	9.72	9.89
KHANAPUR													
	1986	6.12	DRY	DRY	DRY	10.50	3.06	3.34	3.99	4.65	5.36	3.97	4.98
	1987	5.92	6.85	8.20	10.03	7.00	4.63	3.90	3.71	3.55	4.25	4.81	5.35
	1988	7.00	7.80	11.95	9.90	10.35	9.00	2.20	1.80	7.45	7.70	8.95	8.60
	1989	9.60	10.00	11.75	11.30	11.42	11.45	5.40	5.30	7.40	7.80	8.00	8.50

11.2 (contd...)

STATION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BIDI													
	1986	7.02	DRY	DRY	8.20	8.70	4.00	1.70	3.45	1.60	4.02	4.60	4.98
	1987	6.85	9.15	9.32	9.84	7.90	7.30	4.95	6.44	4.00	4.35	6.00	5.38
	1988	5.46	5.40	9.20	9.45	9.80	8.50	0.65	0.50	0.55	2.05	3.70	6.26
	1989	7.50	8.26	8.78	9.05	9.49	9.28	3.30	4.20	5.50	6.03	6.84	7.53
GUNJI													
	1986	0.65	DRY	DRY	DRY	1.20	0.62	0.62	0.60	0.60	0.60	0.70	0.80
	1987	0.73	0.75	1.17	1.10	1.00	0.75	0.80	0.74	0.73	0.70	1.20	0.75
	1988	0.78	0.70	0.85	0.90	1.30	0.60	0.60	0.30	0.40	0.70	0.80	1.50
	1989	1.00	1.00	1.06	1.10	1.00	0.45	0.20	0.15	0.65	0.58	0.65	0.68
BELWADI													
	1986	9.00	DRY	DRY	DRY	DRY	DRY	8.65	9.03	7.42	7.65	7.25	6.60
	1987	7.93	8.85	8.95	DRY	DRY	DRY	DRY	0.60	DRY	9.00	9.61	6.70
	1988	6.90	8.45	9.08	DRY	DRY	DRY	11.15	11.00	10.95	9.72	10.52	11.23
	1989	11.52	14.25	14.35	13.72	14.08	13.70	14.25	14.65	15.00	15.10	13.77	14.00
MANOLI													
	1986	3.10	DRY	DRY	6.15	6.48	4.74	5.55	4.98	1.90	1.95	1.55	2.70
	1987	3.15	5.25	5.35	7.35	4.80	7.44	8.00	5.80	3.60	3.40	3.20	5.37
	1988	4.16	6.00	6.68	8.40	8.85	8.70	6.70	5.03	3.85	2.83	2.30	2.35
	1989	2.40	2.45	2.95	3.05	3.08	3.65	3.40	3.05	2.70	2.75	2.48	2.65
SOUNDATTI													
	1986	16.10	DRY	DRY	7.40	7.05	6.73	5.83	6.80	6.63	DRY	5.25	6.25
	1987	DRY	6.85	7.15	7.65	7.05	6.55	6.63	6.35	9.33	6.21	6.05	6.80
	1988	6.85	7.35	7.35	7.43	7.45	6.75	5.35	5.25	5.37	4.75	5.65	6.40
	1989	6.50	6.70	6.80	7.20	7.38	6.35	6.55	6.65	6.70	6.50	6.75	8.95
RAMDURG													
	1986	5.25	DRY	DRY	6.26	6.35	6.10	5.95	5.35	4.35	4.60	4.55	4.65
	1987	5.15	5.36	5.61	5.73	5.95	6.12	6.75	7.45	8.30	4.67	4.55	4.68
	1988	4.45	5.54	6.05	DRY	DRY	10.25	5.65	5.00	5.00	5.44	5.90	6.15
	1989	5.48	5.65	5.85	6.00	6.60	6.85	5.00	4.85	4.45	4.25	4.40	4.53

11.2 (contd...)

DISTRICT:BIJAPUR

STATION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BADAMI													
	1974	8.19	9.70	11.43	12.40	12.80	9.70	11.80	10.88	7.99	7.15	7.85	8.60
	1975	8.88	8.94	9.30	9.82	10.02	9.99	9.98	9.90	9.68	5.85	NR	5.95
	1976	NR	NR	9.30	NR	10.35	10.85	10.59	8.16	8.12	8.44	8.91	9.85
	1977	9.90	11.10	11.68	12.80	13.20	13.11	NR	NR	NR	NR	7.83	8.45
	1978	9.45	10.45	10.85	11.64	13.40	11.29	11.60	11.60	10.50	9.80	9.50	9.90
	1979	10.45	11.10	11.90	12.95	13.35	13.25	13.50	13.90	12.40	8.40	8.85	9.15
	1980	9.10	10.20	11.25	12.30	13.00	12.50		12.50	12.30	12.60	13.00	14.30
	1981	14.95	16.70	16.95	16.40	16.65		16.30	Tr	11.50	10.70	11.30	11.45
	1982	12.20	12.70	13.05	13.20	13.50			10.70	11.80	11.20	10.50	9.50
	1983	10.40	11.70		12.30	14.20	13.70		11.10			10.85	
	1984	12.20			13.95		15.70		13.91			11.16	
	1985	12.60			13.73		13.95		13.90			16.40	
	1986	DRY			DRY	DRY	14.55	14.34	15.14	16.03	13.20	13.10	13.50
	1987	14.05	15.50	16.15	16.50	16.60	16.00	DRY	15.10	11.80	11.25	10.05	9.50
	1988	9.00	9.15	9.50	9.60	10.00	10.40	DRY	DRY	DRY	DRY	DRY	DRY
	1989	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
HUNGUND													
	1972	0.00	0.00	0.00	0.00	0.00	5.10	5.50	5.59	5.19	5.34	5.47	6.05
	1973	6.32	6.34	6.36	6.39	6.40	6.05	5.85	5.75	5.72	5.75	4.71	5.49
	1974	6.10	6.19	6.27	6.30	6.32	6.20	6.10	5.83	5.00	4.42	4.87	4.20
	1975	5.50	6.05	6.43	6.80	6.52	6.50	5.15	4.70	4.65	3.50	0.00	4.38
	1976	0.00	4.90	5.40	5.42	5.10	5.35	5.58	5.30	4.82	5.01	5.54	5.10
	1977	6.11	0.00	0.00	6.00	5.25	4.95	0.00	0.00	0.00	0.00	4.94	5.17
	1978	5.67	5.84	5.80	5.80	5.62	5.30	4.56	5.15	5.30	4.50	4.30	4.20
	1979	5.40	5.55	5.90	5.60	5.91	5.73	6.00	5.75	4.50	4.30	4.55	5.00
	1980	5.17	5.50	4.80	5.05	5.55	6.35	5.55	5.15	4.75	4.90	5.50	5.60
	1981	6.00	6.30	6.05	6.30	Tr	6.00	6.00	4.75	3.80	3.60	4.40	5.00
	1982	5.15	5.45	10.00	10.10	0.00	0.00	0.00	5.20	5.30	4.70	4.50	6.00
	1983	0.00	6.40	0.00	0.00	6.20	6.25	0.00	5.68	0.00	0.00	4.85	0.00
	1984	5.20	-	-	5.40	-	6.05	-	5.84	-	-	5.00	-
	1985	5.98	-	-	6.10	-	6.45	-	.37	-	-	DRY	-
	1986	DRY	NR	NR	Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr
	1987	Tr	Tr	Tr	Tr	Tr	Tr	4.60	Tr	Tr	5.05	4.55	4.65
	1988	Tr	Tr	Tr	Tr	Tr	Tr	7.05	6.90	6.80	6.65	6.70	6.65
	1989	6.82	6.82	6.85	Tr	Tr	DRY	Tr	Tr	Tr	5.82	5.80	Tr

11.2 (contd...)

DISTRICT:DHARWAD

STATION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DHARWAD													
	1986	4.14	DRY	DRY	4.00	3.90	4.68	2.69	1.94	1.29	1.54	1.50	2.10
	1987	2.23	2.34	2.04	2.50	2.56	2.30	2.00	1.80	1.50	1.50	1.06	2.00
	1988	2.05	2.15	2.20	2.10	2.05	2.00	1.84	1.64	1.58	1.30	1.36	1.40
	1989	1.50	2.00	2.26	2.30	2.25	2.04	2.00	1.84	1.72	1.50		
HUBLI													
	1986	1.32	DRY	DRY	1.50	2.00	2.10	1.80	0.92	2.32	1.92	2.00	2.60
	1987	2.68	2.57	3.38	3.45	3.20	3.00	2.90	2.70	2.65	1.90	1.32	1.35
	1988	1.36	1.45	2.20	2.25	2.32	2.10	1.82	1.67	1.60	1.37	1.20	1.25
	1989	1.30	2.25	2.00	2.57	2.63	10.12	10.09	10.00	9.64	9.50		
TADAS													
	1986	DRY	DRY	DRY	Tr	Tr	Tr	21.28	20.89	19.11	20.46	18.56	19.73
	1987	20.05	20.50	21.33	Tr	21.45	21.22	21.26	21.37	21.22	20.75	20.20	20.22
	1988	20.54	20.61	21.45	Tr	Tr	Tr	Tr	20.70	19.95	19.62	20.16	21.24
	1989	22.24	23.18	26.15	24.82	24.20	22.82	20.05	19.84	21.50			
SHIGGOAN													
	1986	Tr	DRY	DRY	18.00	17.85	17.35	17.30	17.45	17.75	17.25	17.45	17.55
	1987	17.70	18.05	18.20	18.55	18.80	18.15	18.30	18.20	17.90	16.95	16.05	15.85
	1988	15.95	16.10	16.25	16.45	16.20	12.95	10.30	7.15	5.95	6.35	7.40	9.30
	1989	9.40	13.30	18.25	19.50	Tr	16.95	16.55	17.00	17.13			
ANNIGERI													
	1986	12.40	DRY	DRY	12.80	12.98	12.50	12.30	11.95	9.70	DRY	DRY	DRY
	1987	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	1988	Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr	Tr	11.49	11.52	11.56
	1989	11.60	11.80	14.70	15.36	15.75	15.30	15.24	15.28	15.19	12.00		
GADAG													
	1986	14.85	DRY	DRY	15.05	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	1987	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	1988	DRY	DRY	DRY	DRY	DRY	DRY	DRY	30.00	8.85	9.83	11.08	12.19
	1989	12.93	16.08	20.00	20.26	19.80	21.60	20.70	20.90	21.20	15.20		
RON													
	1986	8.75	DRY	DRY	8.98	8.90	9.00	8.80	9.35	9.20	9.00	9.10	9.00
	1987	9.10	9.15	9.20	DRY	DRY	DRY	9.10	DRY	9.10	9.00	9.00	9.10
	1988	DRY	DRY	DRY	DRY	DRY	9.55	8.50	9.52	6.70	6.50	7.30	7.65
	1989	8.18	8.21	8.33	8.27	9.95	9.60	Tr	DRY	Tr	10.95		

Director	:	Satish Chandra
Co-ordinator	:	S M Seth

Study Group

Head	:	K S Ramasastri
Scientist	:	Surendra Kumar
Scientific Staff	:	M K Jose
		B K Purandara
		N Varadarajan
		U V N Rao
		M K Sharma