

PUNJAB IRRIGATION DEPARTMENT

MONSOON CONTINGENCY PLAN 2018

DRAINAGE & FLOOD ZONE

SOPs of FLOOD FIGHTING PLANS

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SOPs of FLOOD FIGHTING PLANS

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SOPs of FLOOD FIGHTING PLANS

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SOPs of FLOOD FIGHTING PLANS

PART-B

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- 13.1 Plan showing route of Flood Water coming out of the breach
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 - 13.3.1 Arrangements
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SOPs of FLOOD FIGHTING PLANS

Flood Fighting / Contingency Plan 2018 has been framed as per SOPs prescribed by Punjab Irrigation Department and stand submitted to all stakeholders by flood related Divisions. These Contingency plans for monsoon 2018 show the information as below:-

Emergency Contingency Plan for vulnerable site (sites) listed above

1. Plan showing route of Flood Water coming out of the breach
2. Detail of villages abadies likely to be affected is shown in the plan

3. Strategy and action have been made as below:-

- a. Arrangements
- b. Establishment of Flood Fighting Camps
- c. Duties of Officers/Officials and their camp sites
- d. Departmental Machinery available
- e. Machinery available from Private Source
- f. Flood Fighting Material required
- g. Flood Fighting Material available

FLOOD FIGHTING MATERIAL

Sr. No	Name of Items	Unit	Approved quantity	Sr. No.	Name of Items	Unit	Approved quantity
1	K.Oil	Ltr	600	19	Steel wire rope ½ “	Lft	1000
2	Gas Lamp	No.	20	20	Hand Saw	No.	20
3	Mantles	No.	60	21	Manila rope of sorts	Kg	350
4	Washers for Gas Lamps	No.	30	22	G.I .Wire	Kg	300
5	Nozzles for Gas Lamp	No.	30	23	G.I. Buckets	No.	100
6	Torches three cells	No.	20	24	Plastic bags	No.	3000
7	E. Gunny bags	No.	1700	25	Chairs	No.	20
8	Sutli	Kg	15	26	Tables	No.	5
9	Sewing needles	No.	30	27	Generator	No.	2
10	Bamboos	No.	230	28	Petrol	Ltr	500
11	Toot Baskets	No.	310	29	M. Oil	Ltr	10
12	Khaji Mat	No.	100	30	Wires 7x0.0029”	Ft	700
13	Match Boxes	Pkt	100	31	Wooden Boards (10x12)	No.	5
14	Oil extractor	No.	2	32	Torch Chargeable	No.	30
15	Funnels	No.	3	33	Sword	No.	15
16	Trunger (S.W. Wire)	No.	350	34	U.P.S 1000 Watt with Batteries	No.	2
17	Shouldries	No.	19	35	Energy Saver	No.	30
18	Driving Pegs	No.	300	36	Energy Saver Holders	No.	30

FLOOD FIGHTING PLANS

Zone	Total	Received	Status
DG Khan, Irrigation Zone	08	08	Reviewed by D&F Zone and being circulated by field formation to concerned agencies
Multan, Irrigation Zone	08	08	
Faisalabad, Irrigation Zone	06	06	
Bahawalpur, Irrigation Zone	08	08	
Lahore, Irrigation Zone	10	10	
Sargodha, Irrigation Zone	13	13	
LBDC (IP)	03	03	
Total	56	56	

FLOOD PREPAREDNESS / ACTIVITY SCHEDULE

Activity	Target Date	Status
I. Preparation of Flood Fighting Plans as per SOP/Format		
a) Submission of Draft Divisional Plans by Zonal Chiefs to Chief Engineer, Drainage & Flood (after scrutiny by SEs/CEs)	1 st March	Completed
b) Review by Chief Engineer D&F	31 st March	Completed
c) Distribution of Flood Fighting Plans by XENs to all concerned quarters	15 th April	Almost distributed by field formation
II. Inspection of flood infrastructure		
- By XENs	15 th March	Completed
- Checking/Inspections by SEs/CEs	31 st March	Completed
- Inspection by Departmental & Army Teams	15 th April	Carried out
III. Indication of Encroachments on Bunds and Spurs to the Civil Administration	31 st March	Completed
IV. Painting Gauges, RD Marks, Data Boards and Repairs to Flood Bunds etc.	31 st May	Completed

FLOOD PREPAREDNESS / ACTIVITY SCHEDULE

Activity	Target Date	Status
V. Replenishment of Reserve Stock of Stone and Flood fighting materials		
a) Identification of needs	28 th February	Completed
b) Funding/Procurement Arrangements	15 th March	Completed
c) Procurement, stacking, Prescribed field checks	31 st May	Completed
VI. Installation of Wireless Sets	15 th June	Completed
VII. Operation of Flood Warning Centre/Flood Emergency Cell		
a) Duty Roster	1 st June	Circulated
b) Operative	15 th June	Operative

DEPARTMENTAL INSPECTION TEAMS

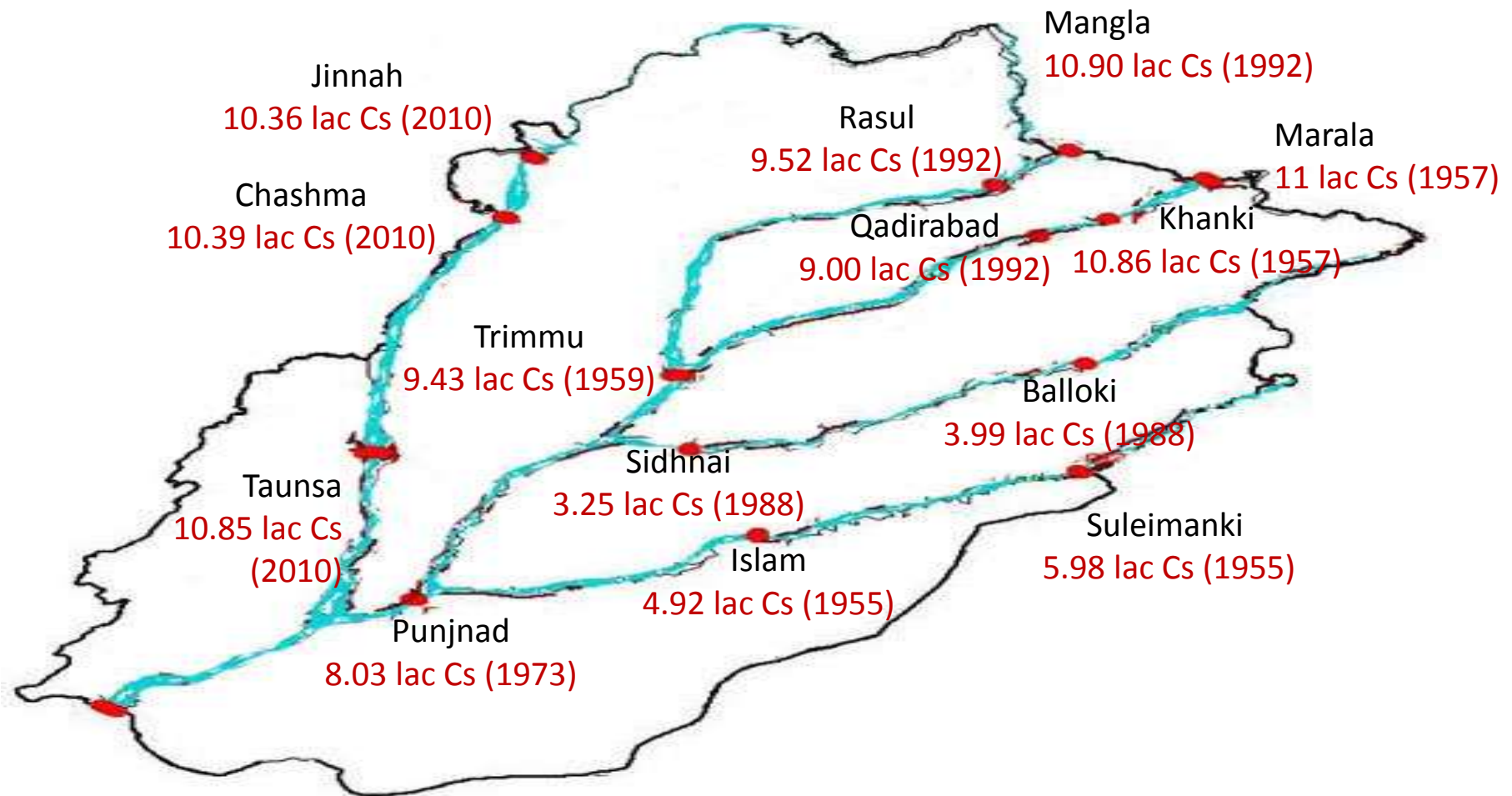
Team	Incharge / Team Leader	Designation	Assigned Zone	No of bunds
Team 1	Mr. Riaz Shahid	SE Development Circle, Bahawalpur	D.G.Khan	262
Team 2	Syed Tasnimul Hassnain Shah	Project Director, Small Dams Organization Islamabad	Faisalabad	53
Team 3	Mr. Fazal Karim	SE Project Circle, D.G.Khan	Multan	89
Team 4	Mr.Ghulam Rasool Gohar	SE Bahawalnagar Canal Circle Bahawalnagar	Lahore	140
Team 5	Syed Sajid Hussain Rizvi	SE Drainage Circle Lahore	Sargodha	170
Team 6	Mr.Muhammad Tariq Khan	SE Development Circle Lahore	Bahawalpur	48

The above cited Departmental Inspection Teams constituted vide letter No.SO(Floods)VII-3/2004 (2016) dated 15.03.2018 by Administrative Department to inspect flood embankments and river training works.Any emergent / preparatory works indicated by the Teams for flood season 2018 has been taken in hand.

RESERVE STOCK OF STONE

Zone	Sanctioned (in lac cft)	Minimum (in lac cft)	Available (in lac cft)	Available (%)	Deficiency (in lac cft)
DG Khan	185.690	129.983	93.129	50%	92.561
Multan	28.600	20.020	25.220	88%	3.380
Faisalabad	44.886	31.420	31.552	70%	13.334
Bahawalpur	64.494	45.146	45.728	71%	18.766
Lahore	90.864	63.605	30.524	34%	60.340
Sargodha	95.720	67.004	37.400	39%	58.320
PMO Barrages	33.000	23.100	23.100	70%	9.900
LBDCIP	17.400	12.180	10.397	60%	7.003
Total	560.654	392.458	297.050	60%	263.604

Highest recorded discharges



Risk prone districts

District	Risk	District	Risk	District	Risk	District	Risk
Bhakkar	A	Muzaffargarh	A	Bahawalpur	B	Khushab	C
DG Khan	A	Narowal	A	Bahawalnagar	B	Lodhran	C
Gujranwala	A	Rajanpur	A	Chiniot	B	Nankana	C
Hafizabad	A	RY Khan	A	Kasur	B	Faisalabad	C
Jhang	A	Sialkot	A	Khanewal	B	Rawalpindi	C
Jhelum	A	Sheikhupura	A	Gujrat	B	Sargodha	C
Layyah	A			Lahore	B	Attock	C
Mianwali	A			MB Din	B	TT Singh	C
Multan	A			Okara	B	Chakwal	C
				Pakpattan	B		
				Sahiwal	B		
				Vehari	B		

DEFINITIONS OF FLOOD LIMITS

LOW FLOOD	River flowing within deep channel(s) but about to spill over River islands / belas.
MEDIUM FLOOD	River partly inundating River island / belas.
HIGH FLOOD	River almost fully submerging island/belas and flowing upto high banks/bunds but without encroachment on the freeboard.
VERY HIGH FLOOD	River flowing between high banks / bunds with encroachment on the freeboard.
EXCEPTIONALLY HIGH FLOOD	There is imminent danger of overtopping / breaching or a breach has actually occurred, or high bank areas become inundated.

FLOOD LIMITS OF RIVERS

River	Gauge site	Designed capacity (lac Cs)	Flood limits in lac Cs.				
			Low	Med.*	High	Very high	Excp high
INDUS	Kalabagh	9.50	2.50	3.75	5.00	6.50	8.00
	Chashma	10.00	2.50	3.75	5.00	6.50	8.00
	Taunsa	10.00	2.50	3.75	5.00	6.50	8.00
JHELUM	Kohala	12.00	1.00	1.50	2.00	3.00	4.00
	Mangla	10.60	0.75	1.10	1.50	2.25	3.00
	Rasul	8.50	0.75	1.10	1.50	2.25	3.00
CHENAB	Marala	11.00	1.00	1.50	2.00	4.00	6.00
	Khanki	8.00	1.00	1.50	2.00	4.00	6.00
	Qadirabad	9.00	1.00	1.50	2.00	4.00	6.00
	Trimmu	6.45	1.50	2.00	3.00	4.50	6.00
	Punjnad	7.00	1.50	2.00	3.00	4.50	6.00

Contd.

River	Gauge site	Designed Capacity (lac Cs)	Flood limits in lac Cs.				
			Low	Med.*	High	Very high	Excp high
RAVI	Jassar	2.75	0.50	0.75	1.00	1.50	2.00
	Ravi Syphon	4.00	0.40	0.65	0.90	1.35	1.80
	Shahdara	2.50	0.40	0.65	0.90	1.35	1.80
	Balloki	2.25	0.40	0.65	0.90	1.35	1.80
	Sidhnai	1.50	0.30	0.45	0.60	0.90	1.30
SUTLEJ	G.S.Wala (Gauge)	25.30 ft	19.50	21.50	23.30	25.3	-
	Suleimanki	3.25	0.50	0.80	1.20	1.75	2.25
	Islam	3.00	0.50	0.80	1.20	1.75	2.25
	Mailsi Syphon	4.00	0.75	1.10	1.50	2.25	3.00

* Flood warning is issued when discharge crosses the medium limit.

FLOOD LIMITS OF NULLAHS

Site	Flood Limits in Lac Cs.				
	Low	Med:	High	Very High	Excpt. High
Bein at Shakargarh	0.016	0.030	0.240	0.260	0.430
Deg at Kingra bridge	0.100	0.150	0.220	0.300	0.350
Aik at Ura	0.020	0.090	0.130	0.160	0.330
Basantar at Narowal	0.025	0.041	0.075	0.116	0.178
Palkhu at Wazirabad	0.020	0.030	0.050	0.250	0.260

TIME LAG

Site	Distance (km)	Time lag (hrs)
RIVER INDUS		
Tarbela Dam	0	0
Kalabagh Barrage	169	24
Chashma Barrage	58	12
Taunsa Barrage	237	60
Guddu Barrage	139	30
Sukkur Barrage	160	42
Kotri Barrage	461	144
RIVER JHELUM		
Mangla	0	0
Rasul Barrage	66	9
Trimmu Barrage	224	72

Contd.

Contd.

Site	Distance (km)	Time lag (hrs)
RIVER CHENAB		
Marala Barrage	0	0
Khanki Head Works	56	12
Qadirabad Barrage	30	7
Trimmu Barrage	214	72
Punjnad Head Works	257	78
RIVER RAVI		
Madhopur	0	0
Jassar Bridge	94	8
Ravi Syphon	73	18
Shahdara Bridge	24	8
Balloki Head Works	63	24
Sidhnai Barrage	198	78
RIVER SUTLEJ		
Ferozepur Headworks	0	0
Suleimanki Headworks	126	24
Islam Headworks	99	72

BREACH OPERATION COMMITTEE

Breach Operation Committee has been constituted by Secretary I&P Department vide No.SO(Floods)VI-33/97 dated 15.7.2015 as below:

- District Coordination Officer**Convener**
- Representative of department owning structure at which breach section is located.....**Member**
- Representative from Highways Department...**Member**
- Representative from Irrigation Department... **Member**
- Representative Pakistan Army.....**Member**

Breach Operation Committee will monitor flood situation and emergency at each breaching site and will be responsible for taking decision to operate the breaching section as per prescribed criteria as contained in the Flood Fighting Plan.

BREACHING SECTIONS IN PUNJAB

PURPOSE:

In case of Exceptionally High Floods, part of the discharges are escaped by breaching the bund on the pre-determined sites for safety of the main Hydraulic Structures (Bridges & Barrages) and main cities.

Breaching Section will be operated by the Army Authorities after the unanimous decision of the Breach Operation Committee.

Total No. of Breaching Sections in Punjab	= 19 Nos.
➤ Related to Punjab Irrigation Department (PID)	= 13 Nos.
➤ Related to Railway Department	= 4 Nos.
➤ Related to Punjab Highways Department /NHA	= 2 Nos.

BREACHING SECTIONS AT BRIDGES / BARRAGES / HEADWORKS – RELATING TO PID

River/ Site/ (Designed Capacity)		Breaching Section	Critical Level	Concerned XEN	Concerned Army Corps
INDUS					
1.	Jinnah Barrage (9.50 Lac Cs.)	RD 6700 – RD 8700 of RMB	R.L 701 at RD 5 of LMB	Kalabagh	1-Corps
JHELUM					
2.	Rasul Barrage (8.50 Lac Cs.)	RD 2500 – RD 3000 of RMB	R.L 727.40 at RD 12 of LMB	Rasul	1-Corps
CHENAB					
3.	Marala (11.00 Lac Cs.)	RD 5000 of RMB	R.L 829 at RD 12 of LMB	Marala	1-Corps
4.	Khanki H/W (9.50 Lac Cs.)	RD 4000 of RMB	R.L 742 at RD 5 of LMB	Khanki	30-Corps
5.	Qadirabad Bridge (9.00 Lac Cs.)	RD 8000 of RMB	R.L 712 at RD 15 of LMB	Qadirabad	30-Corps
6.	Trimmu H/W (6.45 lac Cs.)	RD 18000 of RMB	R.L 500 at RD 15 of LMB	Trimmu	1-Corps
7.	Punjnad H/W (7.00 Lac Cs.)	RD 19000 of RMB	R.L 345.80 at RD 15 of LMB	Punjnad	31-Corps

BREACHING SECTIONS AT BRIDGES / BARRAGES / HEADWORKS – RELATING TO PID

River/ Site/ (Designed Capacity)		Breaching Section	Critical Level	Concerned XEN	Concerned Army Corps
8.	Sher Shah Bridge	<u>Right Side</u> (i)Doaba Flood Bund (ii)Railway Track. (iii)National H/Way.	R.L 393.50 U/S Shershah Railway Bridge.	M.Garh Canal Divn.	2-Corps
RAVI					
1	Shahdara (2.50 Lac Cs.)	RD 56 - 64 of Shahdara Disty.	R.L 698.0 at Gauge Site on Mehmood Booti Bund.	Gujranwala	30-Corps
2	Balloki H/W (2.25 Lac Cs.)	RD 2 of Madodas Bund	R.L 644.50 at RD 25 of LMB	Balloki	4-Corps
3	Sidhnai H/W (1.75 Lac Cs.)	RD 16 of RMB	R.L. 478 at RD 10 of LMB	Sidhnai	31-Corps
SUTLEJ					
1	Suliemanki H/W (3.25Lac Cs.)	RD 20 of RMB	R.L 575 at RD 6 of LMB	Suleimanki	31-Corps
2	Islam H/W (3.00 Lac Cs.)	RD 10 - 13 of RMB, RD 3- 5 of Murphy Spur	R.L 458 at RD 10 of LMB	Islam	2-Corps

BREACHING SECTIONS AT BRIDGES / BARRAGES / HEADWORKS – RELATING TO RAILWAY DEPTT

River/ Site/ (Designed Capacity)		Breaching Section	Critical Level	Concerned XEN	Concerned Army Corps
CHENAB					
1.	Alexandara Bridge	Road mile 821/03 between Wazirabad & Lala Musa Railway Station	Not fixed. Whenever communication line is in danger	DEN-II Lahore	30-Corps
2.	Revaz Bridge	44 - 45 mile of Jhang Chund Railway Line	R.L. 526 at RD 1500 of Thatta Mahala Bund	DEN-II Multan	1-Corps
3.	Sher Shah Bridge	<u>Left Side</u> Sheher Shah Flood Bund Railway Track - Multan Muzaffargarh	R.L 393.50 U/S Shershah Railway Bridge.	XEN Shujabad	2-Corps
4.	Chiniot Flood Protection Bund	RD 2.5 of Chiniot Flood Bund	R.L. 600 at RD 5000	DEN-II Lahore	30-Corps

BREACHING SECTIONS AT BRIDGES / BARRAGES / HEADWORKS – RELATING TO HIGHWAY DEPTT

River/ Site/ (Designed Capacity)		Breaching Section	Critical Level	Concerned XEN	Concerned Army Corps
CHENAB					
1.	Old G.T. Road	Opposite Railway Breaching Section	Not fixed. Whenever communication line is in danger	DO Roads Gujrat	30-Corps
2.	Muhammad Wala Bridge	Left Approach Road	417.5 ft.	Director N.H.A. Multan	2-Corps

Hill torrents



- Around 200 hill torrents originates from Suleman Range
- Upto 5000 cusecs are classified as minor
- 5000 to 15000 cusecs as medium.
- Over 15000 cusecs as major
- As per this classification 13 hill torrents are major
- Seven major hill torrents in DG Khan District, six in Rajanpur District

FLOOD WARNING SYSTEM

A. BEYOND BORDER

- a). The information regarding the flood flow is broadcasted by Radio Jammu Station at 0900 hrs, 1400 hrs and 2240 hrs. of Pakistan standard time (PST) for the following river stages:
- i. River Chenab at Akhnoor 75,000 Cs. & above
 - ii. River Jammu Tawi at Jammu 20,000 Cs. & above
 - iii. River Ravi below Madhopur 30,000 Cs. & above
- b) In addition to above, arrangements have also been made to obtain hourly, 3 hourly and 06 hourly through Pakistan Commissioner for Indus Waters from India (depending upon the flood stages).

FLOOD WARNING SYSTEM

B. WEATHER & FLOOD FORECASTS

- Normal forecasts are issued by Met. department every 24 hrs.
- On occurrence of cloud burst or flood, immediate warnings are issued.
- Irrigation Department supplies 6 hourly gauge & discharge data of all barrages/ Headworks & Nullahs to F.W.C. 46-Jail Road, Lahore.
- Significant flood warnings are started at medium flood level. At high flood level hourly data is supplied and warnings are issued.

FUNCTIONS OF THE FLOOD EMERGENCY CELL

- To receive, collect and maintain all the information related to river discharges and flood situation in Punjab.
- To receive and record the flood damage reports from various Zonal Flood Cells.
- To review the flood damage reports received from the field formations/ Zonal Cells and immediately bring to the notice of Secretary Irrigation for further necessary action.
- To keep a close liaison with the Flood Warning Centre and Regional Meteorology Office, Lahore for obtaining information regarding flood forecasting / expected river and flood discharges.
- To plan course of action in case of anticipated / approaching flood emergencies.
- To brief the Secretary Irrigation about the flood situation on daily basis.

INVENTORY /FLOOD INFRASTRUCTURE IN PUNJAB IRRIGATION DEPARTMENT

RIVER	LENGTH OF RIVER (K.M.)	LENGTH OF BUNDS (K.M .)	SPURS / STUDS (NO.)
INDUS	547	811	131
JHELUM	363	155	43
CHENAB	731	1330	309
RAVI	694	630	127
SUTLEJ	515	406	30
TOTAL	2850	3332	640

LIST OF BASE STATION WIRELESS SET

Sr. No.	Base Stations	Sr. No.	Base Stations
	<u>Lahore Division</u>		<u>Nankana Sahib</u>
1	Shahdra Lahore	13	Nankana Sadar
2	Syphon	14	Baragarh Nankana Sahib
3	DCO Office	15	Sangla Hill Sadar Nankana Sahib
4	Nasir Bagh		<u>Kasur</u>
		16	Ganda Sing Wala Kasur
5	Flood Control	17	Bakkarke, Kasur
6	Army Authorities (4 Corps Engineering)	18	Canal Rest House Kasur
7	O/O the Commr: for Water	19	Kikar Ranger C/Post Kasur
	<u>Sheikhupura Division</u>	20	Head Works Balloki Kasur
8	Narang Sheikhupura	21	Kanganpur Rest House Kasur
9	Ferozewala Sheikhupura	22	Kothi Fateh Muhammad R.H. Kasur
10	Muridke Saddar Sheikhupura	23	Tilwar Check Post Kasur
11	Sharqpur Sheikhupura	24	Wan Addan (R.D.86000 Kasur
12	XEN Irrigation office Sheikhupura	25	Beharwal Kasur (R.D.106250)

LIST OF BASE STATION WIRELESS SET

Sr. No.	Base Stations	Sr. No.	Base Stations
	<u>Okara</u>		<u>Narowal</u>
26	Hera Sing R. House Okara	38	Flood Control PWS Narowal
27	Headworks Sulemanki Okara	39	Chak Amru Narowal
28	B.S. Link Head Gulsher Okara	40	Jassar Narowal
	<u>Gujranawala Division</u>	41	Kot Nainan Narowal
29	Wazirabad PS Saddar Gujranwala	42	Shakargarh Narowal
30	H/W Qadirabad Gujranwala	43	Qila Ahmadabad (QSS.Singh) Narowal
31	30 Corp: Engg:		<u>Hafizabad</u>
32	Khanki Headworks	44	Canal Rest House, Hafizabad
	<u>Gujrat</u>	45	Jalalpur Bhattian Pasrur
33	Bhimber Nullah (AJK) Gujrat		<u>Mandi Baha-ud-Din</u>
34	O/O D.D.O.R. Flood Control Gujrat	46	H/W New Rasul, M.B.Din
35	Head Khokhran Gujrat	47	DCO Office M.B.Din
36	Headworks Marala Sialkot		
37	Ura Nullah		

LIST OF BASE STATION WIRELESS SET

Sr. No.	Base Stations	Sr. No.	Base Stations
	<u>Sargodha Division</u>		<u>Jhang</u>
48	Sargodha Control	60	Chiniot
49	Ludewala Bangla	61	Jhang
50	O/O Chief Engineer Sargodha Section	62	Headworks Trimmu Jhang
51	Bangla Head Faqirian	63	Shah Jiwana R/H Jhang
52	Harria Section		<u>T.T. Singh</u>
53	Guide Wall PS Kalurkot (Bhakkar)	64	New Sidhani T.T. Singh
54	D.I.Khan Pull Bhakkar		<u>Rawalpindi Division</u>
55	Canal Colony Bhakkar	65	Mangla Jhelum
56	Burgee No.35000 Notak Bank Bhakkar		<u>Bahawalpur Division</u>
57	Mianwali	66	Headwork Islam
58	Khushab	67	Pull Adam Wan
	<u>Faisalabad Division</u>	68	C.T.O. Lal Sohanara
59	B urrela Division Faisalabad	69	C.T.O Khairpur Tamiwali
		70	C.T.O. Bahawalpur

LIST OF BASE STATION WIRELESS SET

Sr. No.	Base Stations	Sr. No.	Base Stations
	<u>Bahawalnagar</u>		<u>Khanewal</u>
71	Walhar Bangle (Haroonabad) BWN.	83	Old Head Sindhni KWL
	<u>Rahimyar Khan</u>		<u>Vehari</u>
72	Chachran Sharif Rahimyar Khan	84	Malsi Syphon VHI
73	C.T.O. Rahimyar Khan		<u>D.G. Khan Division</u>
74	Malkani Rest House(Rahimyar Khan)	85	Ghazi Ghat D.G. Khan
75	Rukhanpur Rest House Rahimyar Khan		<u>Layyah</u>
76	Ahmadpur Lamma Rest House Rahimyar Khan	86	DCO Office Layyah
77	Head Hajipur Rahimyar Khan		<u>Rajanpur</u>
	<u>Multan Division</u>	87	Fazalpur R/H Rajanpur
78	Jalalpur Pirwala	88	Kot Mithan Rajanpur
79	Flood Control	89	CTO Rajanpur
80	Canal Rest House Shujabad Multan	90	CTO Jampur
81	Qasim Bela	91	CTO Dajal
82	Chak R.D.117 Nawabpur Multan		

LIST OF BASE STATION WIRELESS SET

Sr. No.	Base Stations	Sr. No.	Base Stations
	<u>Muzaffargarh</u>		
92	H/W Taunsa Muzaffargarhy	94	Jeewana Rest House Muzaffargarhy
93	Sher Shah Bridge Muzaffargarhy	95	H/W Panjnad Muzaffargarh