GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)

Water Sector Capacity Building and Advisory Services Project (WCAP)

Development of National Flood Protection Plan-IV (NFPP-IV) and Related Studies to Enhance the Capacity of Federal Flood Commission-FFC

FLOOD PLAIN AND FLOOD RISK MAPPING

RIVER SUTLEJ

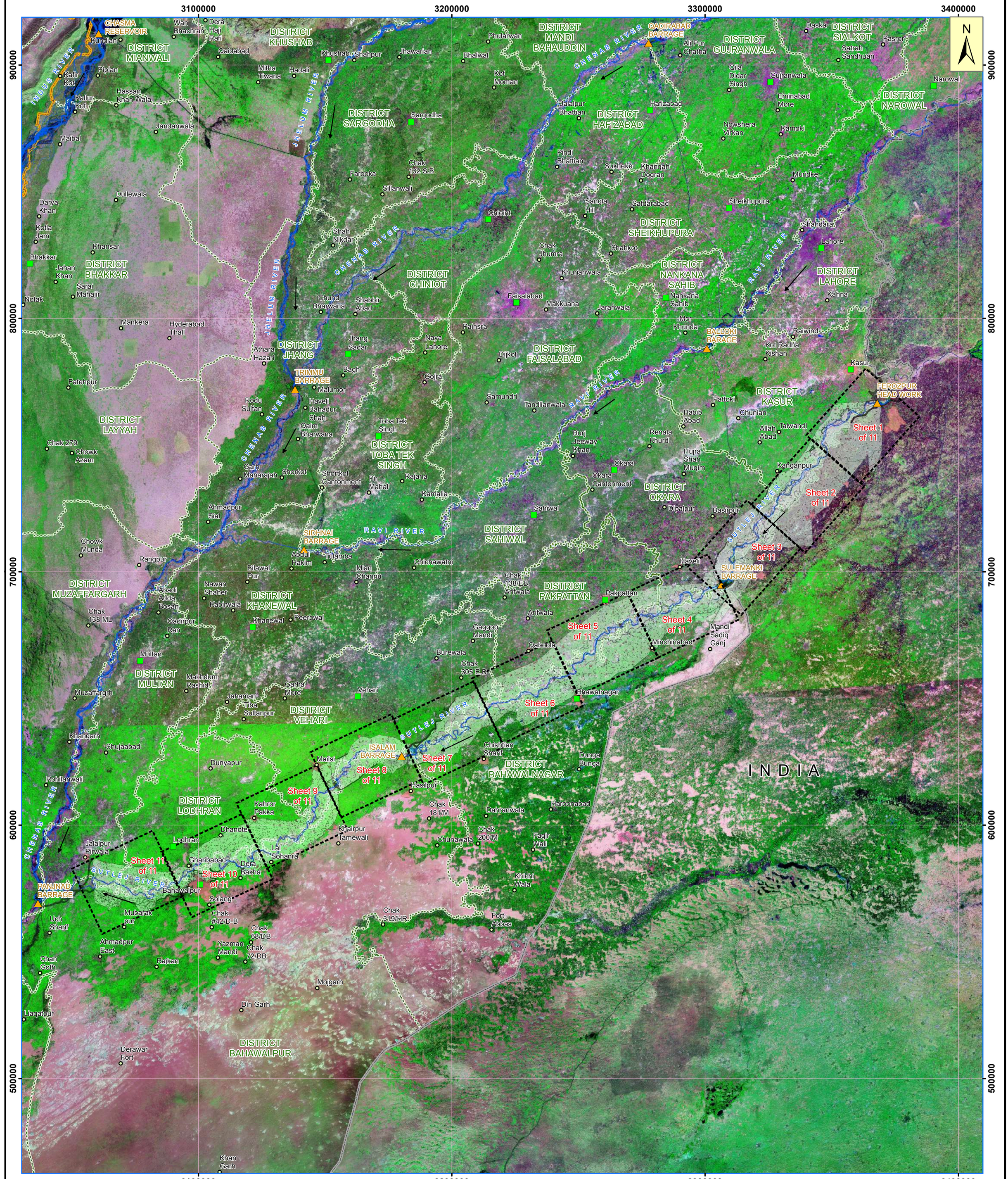
JANUARY 2016

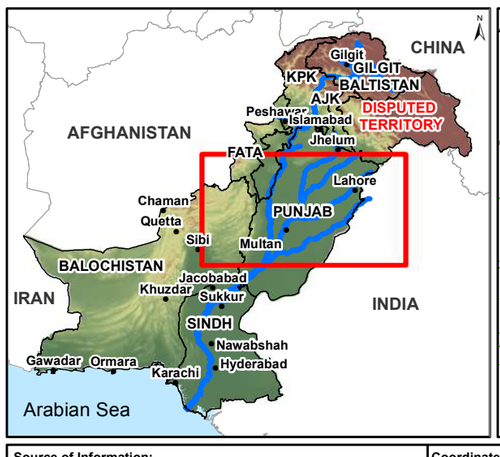
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
1-C, BLOCK-N, MODEL TOWN EXTENSION, LAHORE - PAKISTAN

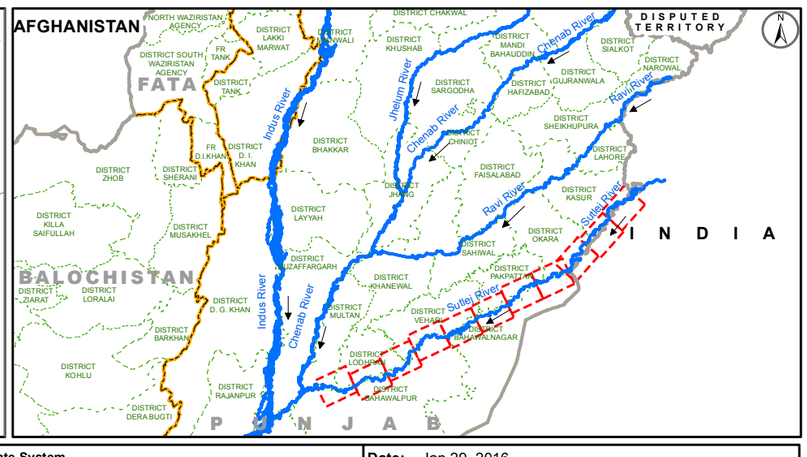
in association with

DELTARES
THE NETHERLANDS
P.O. BOX 177, 2600 MH DELFT, ROTTERDAMSEWEG 185, 2629 HD DELFT, THE NETHERLANDS

SUTLEJ RIVER INDEX MAP







0 5 10 20 30 40 50 Kilometers

DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

SUTLEJ RIVER INDEX MAP

GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
BUILDING AND ADVISORY SERVICES PROJECT (WCAP)

Consultants:
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
1-C , Block-N, Model Town Extension,
Lahore - Pakistan.

in association with

DELTARES,THE NETHERLANDS

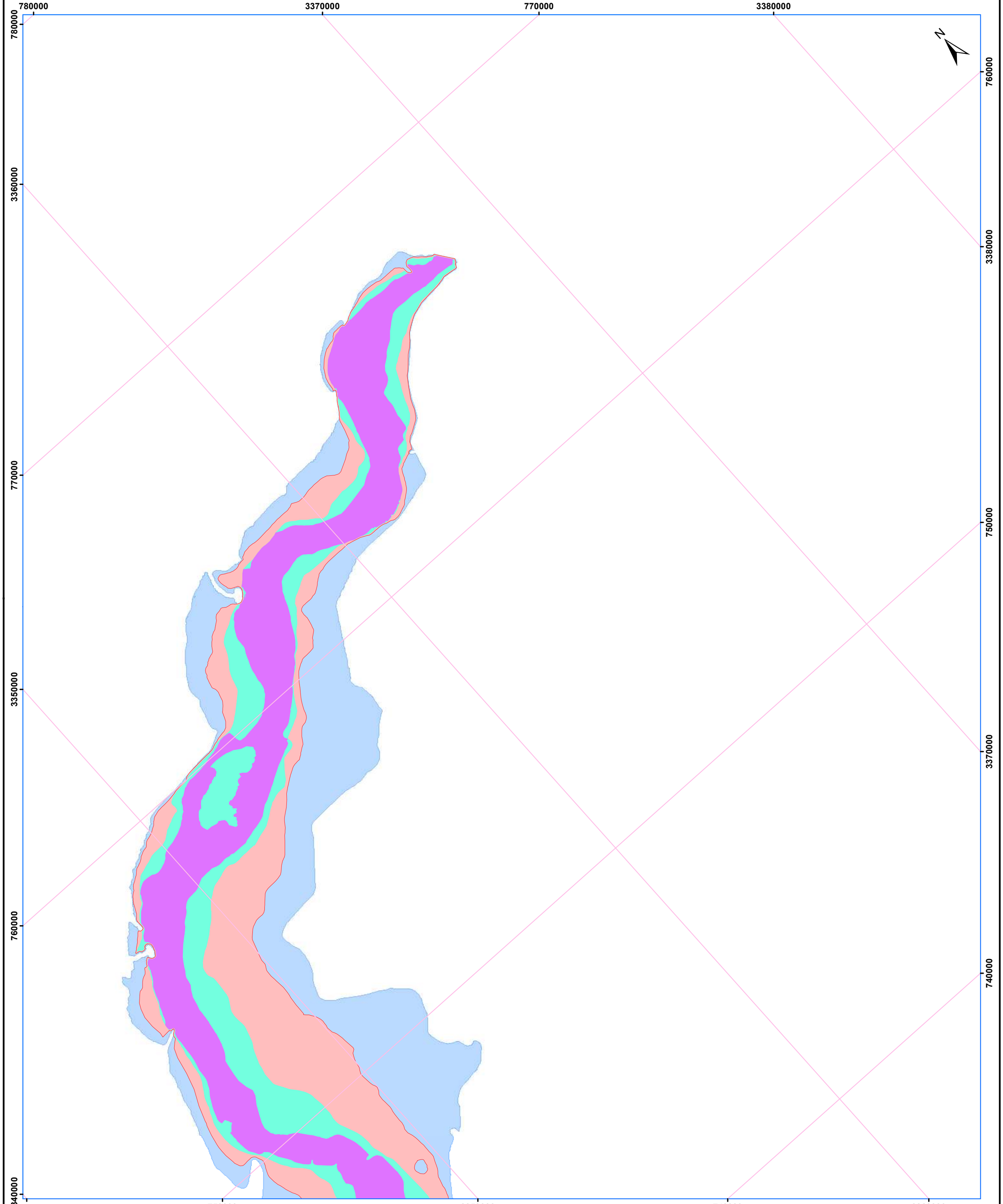
Source of Information:
1. Topographic sheets of Survey of Pakistan
2. Freely available satellite imagery

Coordinate System
PROJECTION: Lambert Conformal Conic (LMPAK-II) ,
DATUM: WGS84
Grid Reference is in meters

Date: Jan 29, 2016

Kasur District

780000 3370000 770000 3380000



Scale 1:75,000

0 0.5 1 2 3 Kilometers

LEGEND

(Flood Risk Zones)

- High Risk Zone (Inundation Extent corresponding to discharge from 80,000 to 165,000 cusecs in Ferozepur-Suleimanki reach)
- Medium Risk Zone (Inundation Extent corresponding to discharge from 165,000 to 340,000 cusecs in Ferozepur-Suleimanki reach)
- Low Risk Zone (Inundation Extent corresponding to discharge from 340,000 to 390,000 cusecs in Ferozepur-Suleimanki reach)

LEGEND

(Inundation Extent Corresponding to Provincial Irrigation Department)

- Medium Flood Extent corresponding to discharge upto 80,000 cusecs in Ferozepur-Suleimanki reach

Note: All flood extents are based on breachless conditions

Kasur District

Structure:	FEROZPUR
Very High Risk Flood Magnitude	up to 80,000
*High Risk Flood Magnitude	80,000 - 165,000
*Medium Risk Flood Magnitude	165,000 - 340,000
*Low Risk Flood Magnitude	340,000 - 390,000

Note: All values are in ft^3/sec

* Results based on frequency analysis carried out under current studies using observed peak discharges upto 2013/14

Structure No.	Existing Flood Protection Structures	Inventory Code
1	Dhaya Bund RD: 0+000 - 11+090	P193
2	Right Marginal Bund RD: 22+500 - 35+600	P194
3	Link Bund RD: 0+000 - 17+800	P195
4	Right Retired Embankment RD: 0+000 - 7+500	P197
5	Loop Bund RD: 0+000 - 1+750	P198
6	Railway Guide Bund RD: 0+000 - 7+500	P196
7	Sufaida Bund RD: 0+000 - 2+342	P199
8	J-Head Spur at Pandoki Drain out fall RD: 0+000 - 4+530	P200
9	J-Head Spur opposite village Attar Singh Wala RD: 0+000 - 4+700	P201
10	Flood Embankment along with Lower Ganja Minor RD:0+000 - 42+850	P202

Source of Information:
1. Topographic sheets of Survey of Pakistan
2. Freely available satellite imagery
3. FPSP-II GIS data
4. Shuttle Radar Topographic Mission Data (Resolution:90 m)
5. Survey data of Flood protection embankments and structures

Coordinate System
PROJECTION: Lambert Conformal Conic (LMPAK-I) ,
DATUM: WGS84
Grid Reference is in meters

Date: Jan 29, 2016 By Safder Hussain

Scale 1: 75,000

Kilometers 0 0.5 1 2 3

LEGEND

- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
- Drain
- Distributary
- Minor
- Nallah
- Wah
- District Boundary
- Provincial Boundary
- International Boundary
- Barren Area
- Bund / Spur
- Cultivated Area
- Flood Plain
- Grass
- Graveyard
- Hill
- Main/Link Canal, Escape, Spillway
- Motorway
- Mud
- Nallah (Perennial)
- Nallah (Non Perennial)
- Orchard
- Planned Urban Area
- Range Forest
- River
- Sand Dunes
- Town/Village/Settlement
- Water Body

DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

LANDUSE MAP
SUTLEJ RIVER

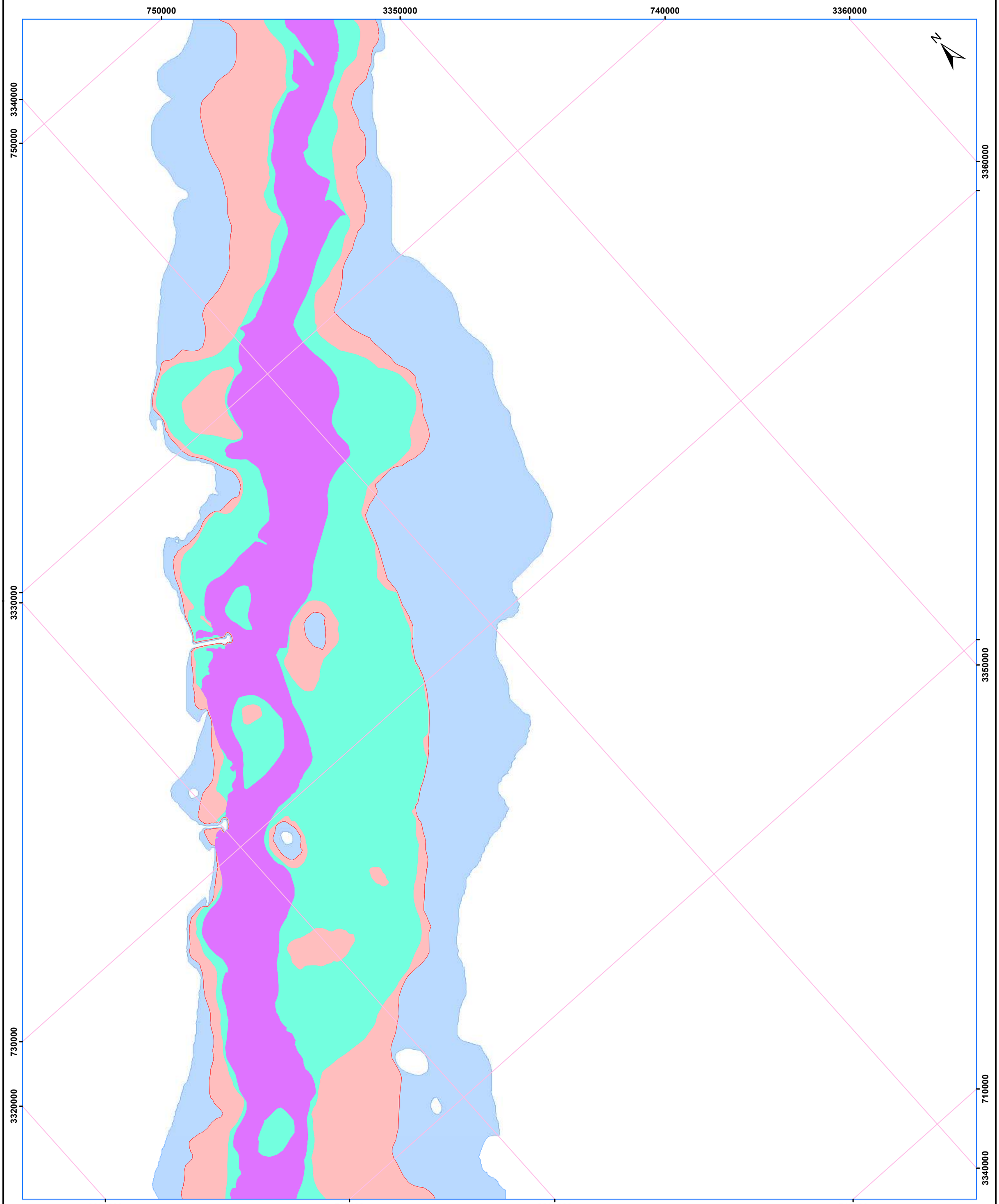
GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
BUILDING AND ADVISORY SERVICES PROJECT (WCAP)

Consultants:
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
1-C , Block-N, Model Town Extension,
Lahore - Pakistan.

in association with

DELTARES,THE NETHERLANDS

Kasur and Okara Districts



Scale 1:75,000

0 0.5 1 2 3 Kilometers

LEGEND

(Flood Risk Zones)

- High Risk Zone (Inundation Extent corresponding to discharge from 80,000 to 165,000 cusecs in Ferozepur-Suleimanki reach)
- Medium Risk Zone (Inundation Extent corresponding to discharge from 165,000 to 340,000 cusecs in Ferozepur-Suleimanki reach)
- Low Risk Zone (Inundation Extent corresponding to discharge from 340,000 to 390,000 cusecs in Ferozepur-Suleimanki reach)

LEGEND

(Inundation Extent Corresponding to Provincial Irrigation Department)

- Medium Flood Extent corresponding to discharge upto 80,000 cusecs in Ferozepur-Suleimanki reach

Note: All flood extents are based on breachless conditions

Kasur and Okara Districts

750000 | 3350000 | 740000 | 3360000

3340000 | 750000 | 3360000 | 3350000 | 3330000 | 730000 | 3320000 | 710000 | 3340000

3320000 | 720000 | 3330000 | 710000

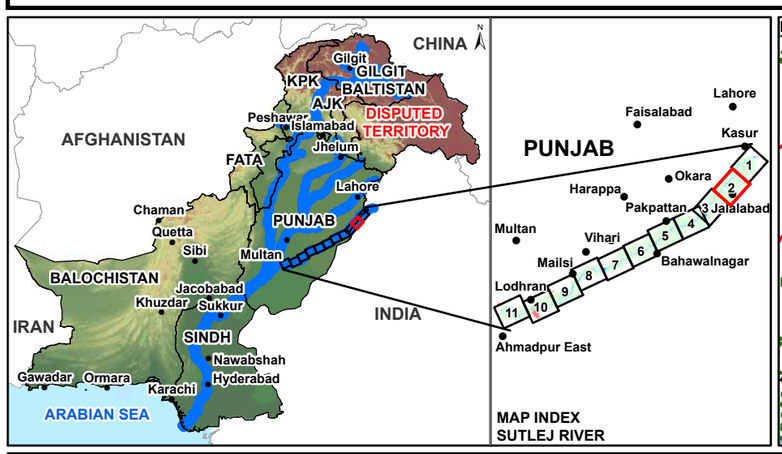
PAKISTAN
KASUR DISTRICT

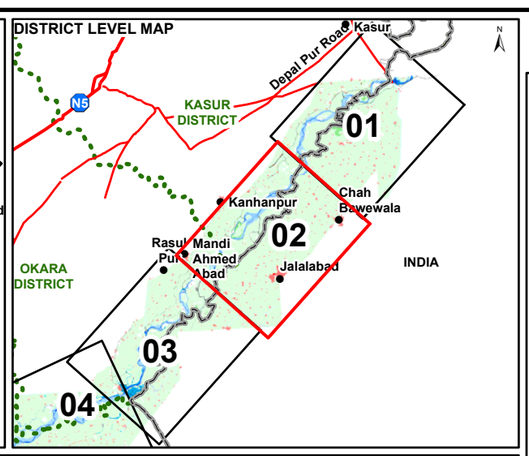
INDIA

OKARA DISTRICT

Langiana, Mohke wala, Lower Ganja Minor, Toara Kamil, Flood Embankment along Lower Ganja Sub Minor, Mungal Singhwala, 11, Banbawali Ravi Bedian Canal Rd, Budh Singhwala, Singhwala, Rangewala, Khuram, Najabat, Hastiwala, Sherewala, Sadi, Kot Sundar Singh, Dhangianwali, Dipalpur Canal, Shamewali, Basti Dhanwali, Ladha Singhwala, Mokal, Basti Zaildar, Chahal Nau, Qaim Shah Wala, Atma Singh, Basti Chimianwali, Kili Shahu, Lohli Jattan, Flood Embankment along Fateh Muhammad Disty, 12, Mahmud Khokhar, Harchuke Hithar, Manuzeyan Rd, Fateh M. Disty, Manurian, Qaziwala, 14, Flood Embankment along with left bank of Depalpur Canal, Basti Mirwala, Basti Hakim Shah, Qarshian wala Khu, Fateh M. Khurd, Baqapur Khabbe, Bhoneke Hithar, Rukanpura, Muftpura, Fateh M. Kalan, Thatti Hithar, 13, Kot Mian Bashir, Daya Singh, Chhina Bela Singh, Gara Singhwala, 15, 16, Kiln, Hajj Chand Mr, Nibahiwala, Gandi Rup Singh, Shahbazke, Besuke, Bhana Sahibake, Dharman, 17, Haji Chand, Wan Haji Ilamdin, Flood Embankment along Lalluguddar Disty, Jhuggian Sham Singh, Berianwali, Chahal Diech Disty, Thakra, Kawni, Bonga Sahiba, Beriawala, Mandi Ahmad Abad, Mindi Hira Singh, Hajji Ahmeddin Kamirian, Sutlej River, Fida Outfall Drain, Dona Mottar, Megharae Hithar, Chak Shikargah, Mamdot Disty, Chak Madike, Megarai, Bahadurke, Chak Megharae, Chak Chhangarae Hithar, Chhanga Rai Uttar, Bala Rai Uttar, Shamske, Megha Ranjgirain Hithar, Panjeke Hithar, Nikkuke, Bodal Khanke, Kari Sansari, Dheroke Bhaini, Mujhidhe Bhaini, Anwar Chimna Bhaini, Atiwala, Wadi, Wadiao, Ahmad Dhandi, Chak Kande Shah, Chak Megha Wiran, Chhoti Pindi, Pindi, Baje Ke, Bahadurka Disty, Naunari Khokhar, Mohan Ke Hithar, Haji Betu, Panj Ke Uttar, Rukna Bodla, Sawaya Rai Hithar, Nureke Uttar, Khaireke Uttar, Sullah Gullah, Baghe Ke Hithar, Ram Singhwala, Sukhera Bodla, Ghubhaya, Chak Tahliwala, Kahne Wala, Jalalabad, Chak Mohamde Wala, Ladhuka Disty, Jiwan Arain, Tilu Arian, Rahime Shah Bodla, Bilimar, Saideke Mohan, Kiln, Karkandi, Goliwala, Gaddar Dhandi Rd, Mari Kalan, Jiwa Sighwala, Mare Khurd, Chah Nurwala, Chah Bawewala, Magher Singhwala, Tulsiwala, Mandiwal, Wasil Mohanke, Rakhanwala, Banaiwala, Kalewala, Sarup Singhwala, Motiwala, Nidhana, Qutangaih, Thatharan Wali, Sheikhri, Malik Zad, Burhan Bhatti, Shaikh Moranwala, Mamun Johiya, Sher Muhammad Mahigir, Shamsudin Chishti, Amirwala, Tari Sighwala, Amir Khas, Bhatti, Rakh Daroghawala, Balaki Wala, Chak Sukhera, Totianwala, Chak Dumal, Chak Sotria, Sainia Wala, Tarobri Disty, Mamdot Disty

Structure No.	Existing Flood Protection Structures	Inventory Code
11	Flood Embankment along with Lower Ganja Sub Minor 0+000 - 10+200	P203
12	Flood Embankment along with Fateh Muhammad Disty RD: 0+000 - 88+600	P205
13	Flood Embankment along with left bank of Depalpur Canal RD: 136+000 - 156+860	P204
14	J- Head Spur RD: 30+300 of Fateh Muhammad Disty RD: 0+000 - 4+700	P206
15	J-Head Spur at RD: 50+400 of Fateh Muhammad Disty RD: 0+000 - 3+850	P207
16	Sloping Spur at RD: 54+460 of Fateh Muhammad Disty RD: 0+000 - 0+950	P208
17	Flood Embankment along with Lalluguddar Disty RD:22+000 - 94+500.	P209





Scale 1: 75,000

0 0.5 1 2 3 Kilometers

LEGEND

- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
- Drain
- Distributary
- Minor
- Nallah
- Wah
- District Boundary
- Provincial Boundary
- International Boundary
- Barren Area
- Bund / Spur
- Cultivated Area
- Flood Plain
- Grass
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- Main/Link Canal, Escape, Spillway
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Source of Information:
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5. Survey data of Flood protection embankments and structures

Coordinate System
PROJECTION: Lambert Conformal Conic (LMPAK-I) ,
DATUM: WGS84
Grid Reference is in meters

Date: Jan 29, 2016 By Safder Hussain

DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

LANDUSE MAP
SUTLEJ RIVER

GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
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Consultants:
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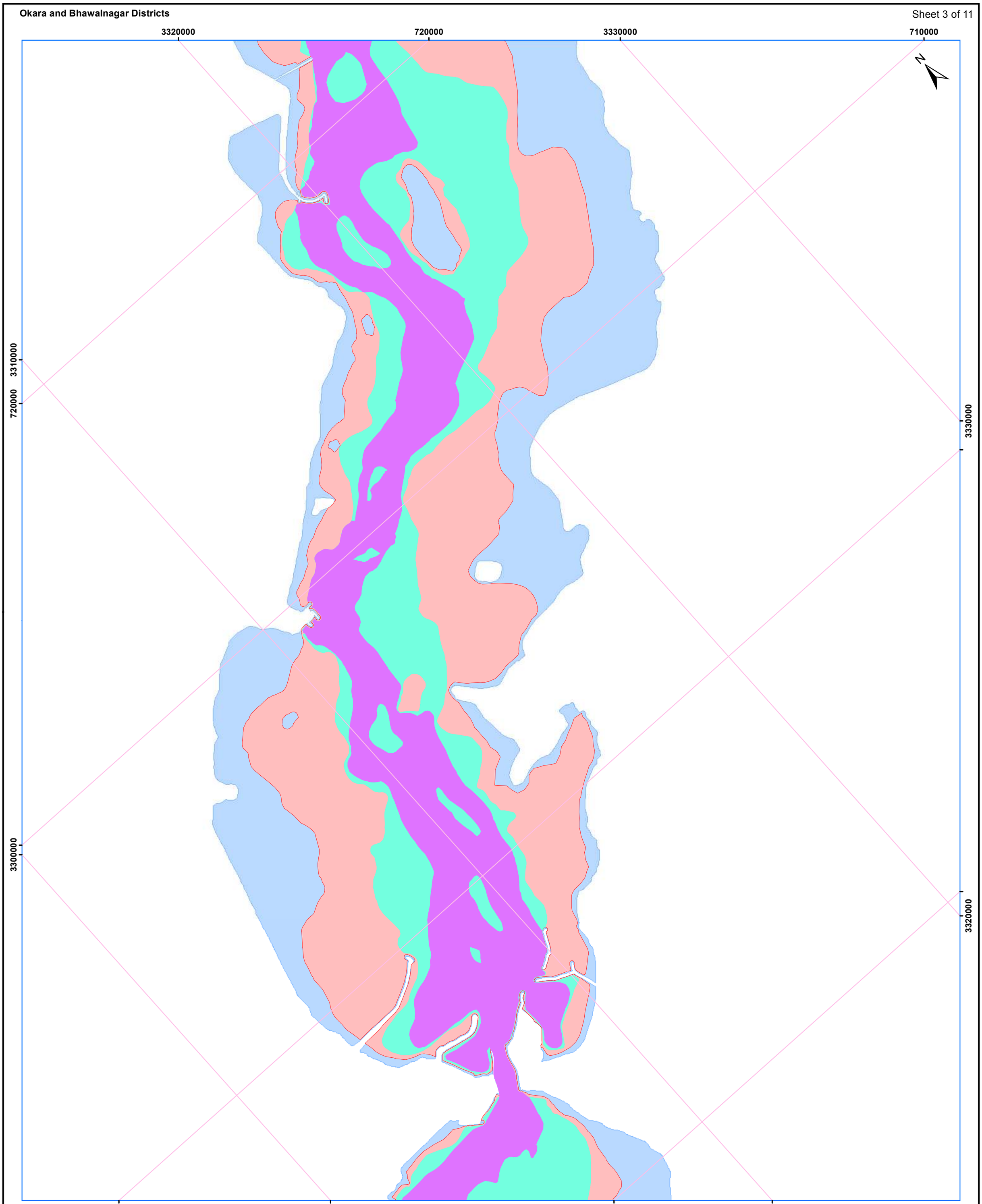
Okara and Bhawalnagar Districts



Scale 1:75,000

0 0.5 1 2 3 Kilometers

LEGEND

(Flood Risk Zones)

- High Risk Zone (Inundation Extent corresponding to discharge from 80,000 to 165,000 cusecs in Ferozepur-Suleimanki reach)
- Medium Risk Zone (Inundation Extent corresponding to discharge from 165,000 to 340,000 cusecs in Ferozepur-Suleimanki reach)
- Low Risk Zone (Inundation Extent corresponding to discharge from 340,000 to 390,000 cusecs in Ferozepur-Suleimanki reach)

LEGEND

(Inundation Extent Corresponding to Provincial Irrigation Department)

- Medium Flood Extent corresponding to discharge upto 80,000 cusecs in Ferozepur-Suleimanki reach

Note: All flood extents are based on breachless conditions

Okara and Bhawalnagar Districts

Sheet 3 of 11

3320000 720000 3330000 710000

OKARA DISTRICT

INDIA

BAHAWALNAGAR DISTRICT

Sutlej River

Basirpur Sodhiwala Hira Singh Rd

Attari Rd

Umar Sukha Rd

Lalu Gudar Mr

Flood Embankment along Kanda Minor

Wananwala Disty

Chahal Diech Disty

Feeder II Disty

Mukdi Muhammad Nagar Rd

Flood Embankment along with Lallugudder Disty

Ladhuka Disty

Muhammad Nagar Rd

Ballloki Sulemanki Link-II

Ballloki Sulemanki Link-I

Link Canal Rd

Lalu Gudar Dy

Rohella Rd

Basirpur Sodhiwa a Hira Singh Rd

Alike Rohela Rd

Mahtab Garh Dy

Haveli Lakha Fazika Rd

Upper Pakpattan Canal

Right Marginal Bund

Left Marginal Bund

T.T. Bund

J Head U/S

J Head D/S

Sulemanki Barrage

Fazilka Drain

Fazilka Disty

Alam Shah Rd

Alam Shah Minor

Suleimanqi Rd

Eastern Sadiqia Canal

Ford wah Branch Minchinabad Sulemanki

Ford Wah Minor

Awami Canal

Sulemanki Barrage Breaching Section at RD 18+000 -18+500 of Right Marginal Bund

Structure No.	Existing Flood Protection Structures	Inventory Code
18	Flood Embankment along with Kanda Minor RD:0+000 - 14+300.	P210
19	Attari mole-Head Spur at RD: 3+380 Kanda minor RD: 0+000 - 4+560	P211
20	J-Head Spur at Tail of Kanda Minor RD: 0+000 - 5+400	P212
21	Spur No-1 Tail Out Fall B.S Link-II (Mole Head Spur)	P56
	Spur No-2 Tail Out Fall B.S Link-II (Mole Head Spur)	P57
	Spur No-3 Tail Out Fall B.S Link-II (Guide Head Spur)	P58
22	Right Marginal Bund	P864
23	T Head Dharang Spurs at 16000/Right Marginal Bund	P866
24	Armored Head Station Spurs at 6000/Right Marginal Bund	P865
25	J Head U/S Left Guide Bank	P860
	J Head U/S Right Guide Bank	P861
	J Head D/S Left Guide Bank	P862
	J Head D/S Right Guide Bank	P863
26	T.T. Bund at 2000/Left Marginal Bund	P868
27	Armored Head Jhangar Spurs at 13282/Left Marginal Bund	P869
28	Left Marginal Bund	P867
29	Armored Head New Hasta Spurs at 47500/Left Marginal Bund	P870
30	J Head Sulaimanki Spurs at Opposite 5000/PC	P871
31	T Head Malleki Spurs at Opposite 15000/PC	P872

Structure:	SULEIMANKI
Very High Risk Flood Magnitude	up to 80,000
*High Risk Flood Magnitude	80,000 - 150,000
*Medium Risk Flood Magnitude	150,000 - 250,000
*Low Risk Flood Magnitude	250,000 - 350,000

Note: All values are in ft^3/sec
* Results based on frequency analysis carried out under current studies using observed peak discharges upto 2013/14

CHINA AFGHANISTAN IRAN INDIA ARABIAN SEA

Gilgit GILGIT BALTISTAN AJK KPK DISPUTED TERRITORY FATA BALOCHISTAN SINDH PUNJAB

Peshawar Islamabad Jhelum Lahore Chaman Quetta Sibi Multan Jacobabad Khuzdar Sukkur Nawabshah Hyderabad Gawadar Ormara Karachi

MAP INDEX SUTLEJ RIVER

Faisalabad Lahore Kasur Okara Pakpattan Jalalabad Multan Vihari Mailsi Bahawalnagar Lodhran Ahmadpur East

DISTRICT LEVEL MAP

KASUR DISTRICT OKARA DISTRICT PAKPATAN DISTRICT Pakistan INDIA

Kanhanpur Chah Bawewala Rasul Pur Mandi Ahmed Abad Jalalabad Macleod Gunj Minchinabad

01 02 03 04 05

Scale 1: 75,000

0 0.5 1 2 3 Kilometers

LEGEND

- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
- Drain
- Distributary
- Minor
- Nallah
- Wah
- District Boundary
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- Nallah (Perennial)
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LANDUSE MAP
SUTLEJ RIVER

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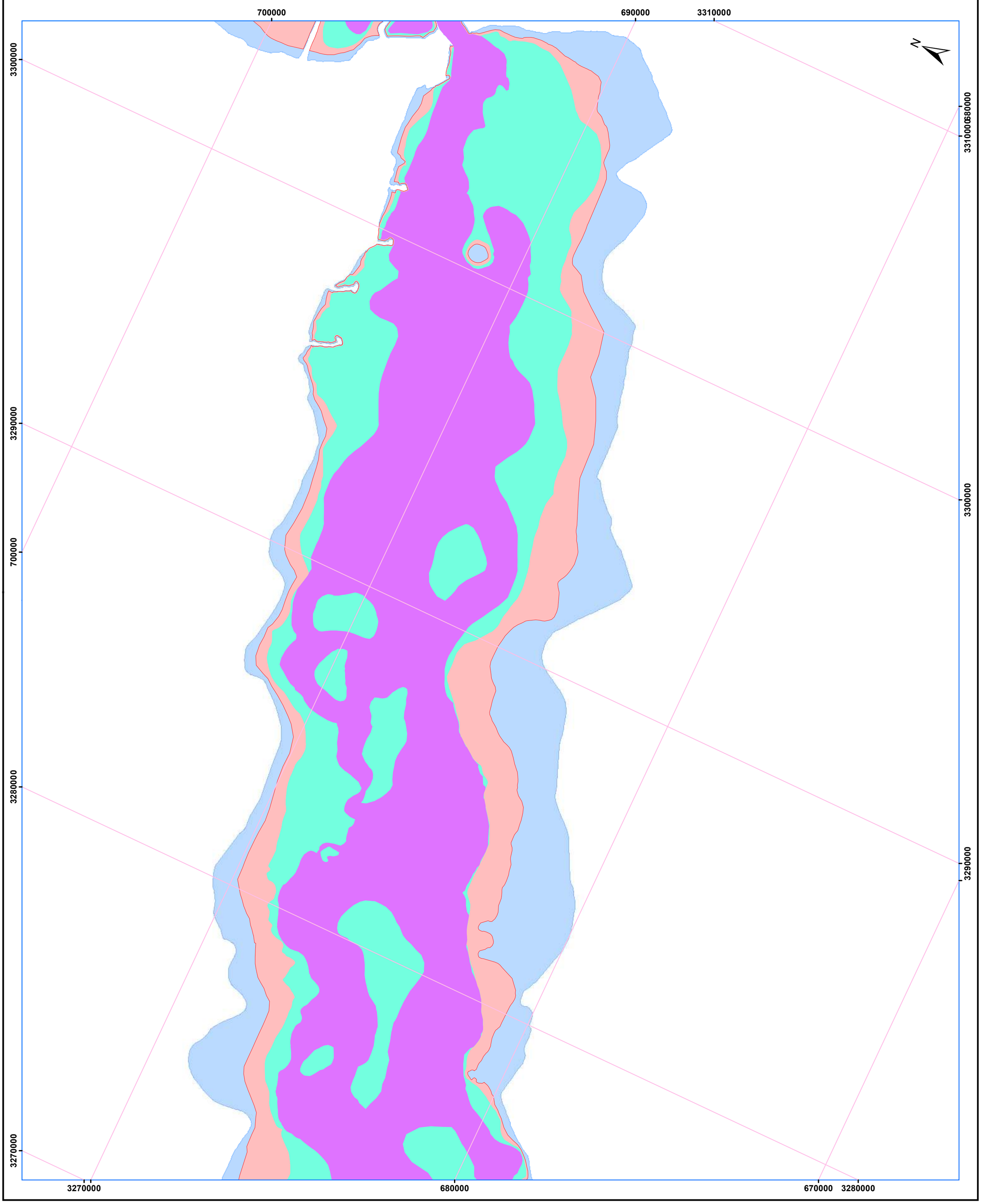
Grid Reference is in meters

Date: Jan 29, 2016 By Safder Hussain

Okara, Pakpattan and Bhawalnagar Districts



Scale 1:75,000

0 0.5 1 2 3 Kilometers

LEGEND

(Flood Risk Zones)

- High Risk Zone (Inundation Extent corresponding to discharge from 80,000 to 150,000 cusecs in Suleimanki-Islam reach)
- Medium Risk Zone (Inundation Extent corresponding to discharge from 150,000 to 250,000 cusecs in Suleimanki-Islam reach)
- Low Risk Zone (Inundation Extent corresponding to discharge from 250,000 to 350,000 cusecs in Suleimanki-Islam reach)

LEGEND

(Inundation Extent Corresponding to Provincial Irrigation Department)

- Medium Flood Extent corresponding to discharge upto 80,000 cusecs in Suleimanki-Islam reach

Note: All flood extents are based on breachless conditions

Okara, Pakpattan and Bhawalnagar Districts

Sheet 4 of 11

700000 690000 3310000

3300000 3290000 3280000 3270000

680000 670000 3280000

OKARA DISTRICT

PAKPATTAN DISTRICT

BAHAWALNAGAR DISTRICT

Sulemanki Barrage

Sutlej River

Upper Pakpattan Canal

Ford wah Branch

Minchinabad Sulemanki Rd

Ford Wah Minor

Jhari Minor

Alike Rohela Rd

Haveli Lakha Fazika Rd

Mahtab Garh Dy

100 Wali Canal Rd

Noor Shah Ii Disty

Mailu Sheikhuka Disty

Sadiqia Canal

Fordwah Canal

Naushara Disty

Bahawal Disty

Chak Dogar Dy

Ratteki Disty

Pir Ghari Rd

Farid Kot Pakpattan Rd

Bhatti Disty

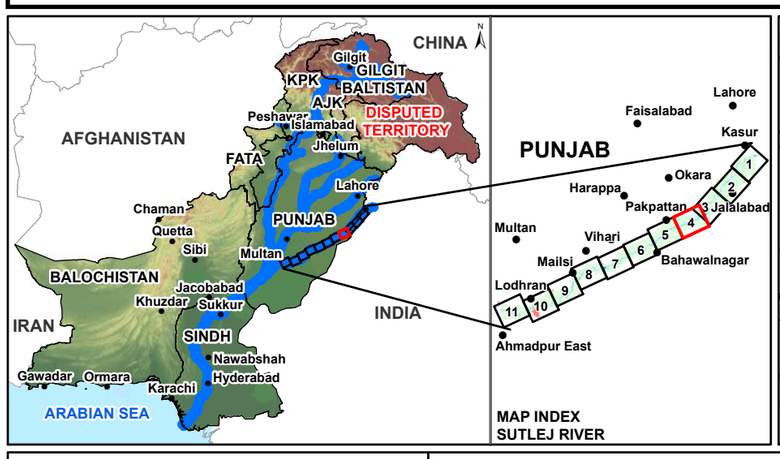
Canal Rd

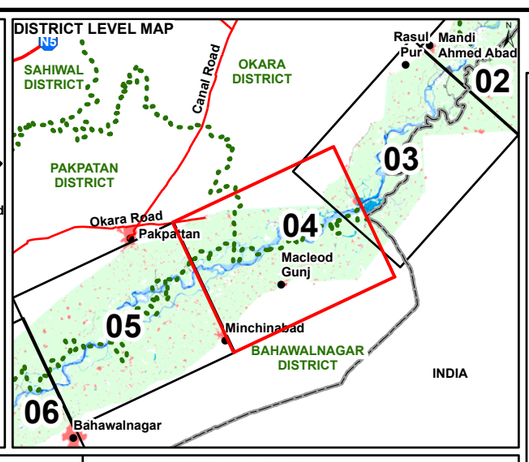
Qadirpur Minor

Head DIS

Dharanga, Thakkarke Hitha, Sulemanki, Salimke, Wasu Salimke, Maneke, Malleke, Mahtabgarh Bara, Mahtabgarh Chhota, Gurwala Mahtab, Sujeke, Langarke, Shakranj Pur, Sardarpura, Bheem Pura, Manjha Pur, Bhaini Duna Jiwan, Duna Jiwan Sarhu, Aminkot, Tara Jodheka, Bhai Toga, Peer Kot Mazarin Bat, Raheem Abad, Sharin Rehula, Jabir Pur, Ameen Abad, Mehrab Ganj, Maulia Chishti, Aayen Abad, Akbarabad, Seenath Jo Goth, Murghan Goth, Jutmahi Kot, Hushal Pur, Muraad Abad, Daun Laikian, Mohib Ali Hither, Bhai Sujan, Ghouspur, Ratteke, Pir Ghani, Bhai Ke Dedar Singh, Jalil Mahteka, Kamirian, Masum Shahwali Bhela, Farid Kot, Alam Mahteka, Drehker, Saddu Maleka, Paddu Basharat, Salim Shah Bodla, Chak Nasir Khan, Kot Alam Khan, Bagge Dogar Da Bamba, Munshi Qadirpur, Mangguwala Thatha, Ghulam Farid Malleke, Malleke, Godai Shah, Dilawar Jassoke, Qaimke, Bhaini Qaimke, Amruka, Mathera Qaimka, Jhariwali, Dunna Mamewala, Bareka Utar, Asal Sauran, Jamalpur, Dhab Nihalwali, Nihal Wazirka, Dogarwala, Hazara, Naushahra, Haddi Wala, Nohran Wali, Bunga Jiwan, Lala Amar Singh, Musla Allahyar, Fatahgarh, Darkhr, Nasirpur Shrifan, Qalandarpur, Jutewala, Rama, Giriabad, Bondi, Jugge Maharan, Akanwala, Chak Kahnewala, Bunga Tejeka, Bhaini Shaikhan, Lala Dhan Singh, Bakka Rahmoke, Tawakkal Bodla, Ruppur, Azam Chhanian, Mandpura, Wazira Gadnoka, Rasulpur, Alipur Batheke, Gadhonka, Parochi, Ratte Toe, Kiln, Macleod Gunj Kiln, Nurpur Gadhoka, Muhammad Pura, Saiyidpura, Soma Bodla, Manpura, Kiln Sadhepur, Hassanwala, Bhaini Chinian, Nanar Kiln, Ramkot, Jagir Bhaini Ahmadyar, Maimu, Laungwala, Karam Ratteke Shah, Rupa, Bhaini Karim Bakhsh, Taruke Ratteke, Jiwan Mahr, Karam Chand, Darbdriwala, Iqbalpura, Lambor, Mahram Chhanno, Tara Chhanna, Bhaini Jhotian, Muhammed Rahmuke, Pir khalis, Khu Totiwala, Khokhar, Chak Ahmadyar, Sultanpur Qazianwala, Ahmadpur, Mirzeka, Parbhatiwala, Rahmuke, Chak Jamua Rahmunka, Khera Muhammed Ali, Maira Kaluka, Bichlipura, Khapri, Babawala, Nasira Kakapuri, Acharki, Khu Ashraf Arain, Bahramke, Kalewala, Nanaksar, Roriwala, Dilawar Joka

Structure No.	Existing Flood Protection Structures	Inventory Code
32	T Head Jodheki Spurs at Opposite 22000/PC	P873
33	T Head Sujeiki Spurs at Opposite 28000/PC	P874
34	T Head Tulleki Spurs at Opposite 38130/PC	P875





Source of Information:
1. Topographic sheets of Survey of Pakistan
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3. FPSP-II GIS data
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5. Survey data of Flood protection embankments and structures

Coordinate System
PROJECTION: Lambert Conformal Conic (LMPAK-I) ,
DATUM: WGS84
Grid Reference is in meters

Date: Jan 29, 2016 By Safder Hussain

Scale 1: 75,000

0 0.5 1 2 3 Kilometers

LEGEND

- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
- Drain
- Distributary
- Minor
- Nallah
- Wah
- District Boundary
- Provincial Boundary
- International Boundary
- Barren Area
- Bund / Spur
- Cultivated Area
- Flood Plain
- Grass
- Graveyard
- Hill
- Main/Link Canal, Escape, Spillway
- Motorway
- Mud
- Nallah (Perennial)
- Nallah (Non Perennial)
- Orchard
- Planned Urban Area
- Range Forest
- River
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- Town/Village/Settlement
- Water Body

DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

LANDUSE MAP
SUTLEJ RIVER

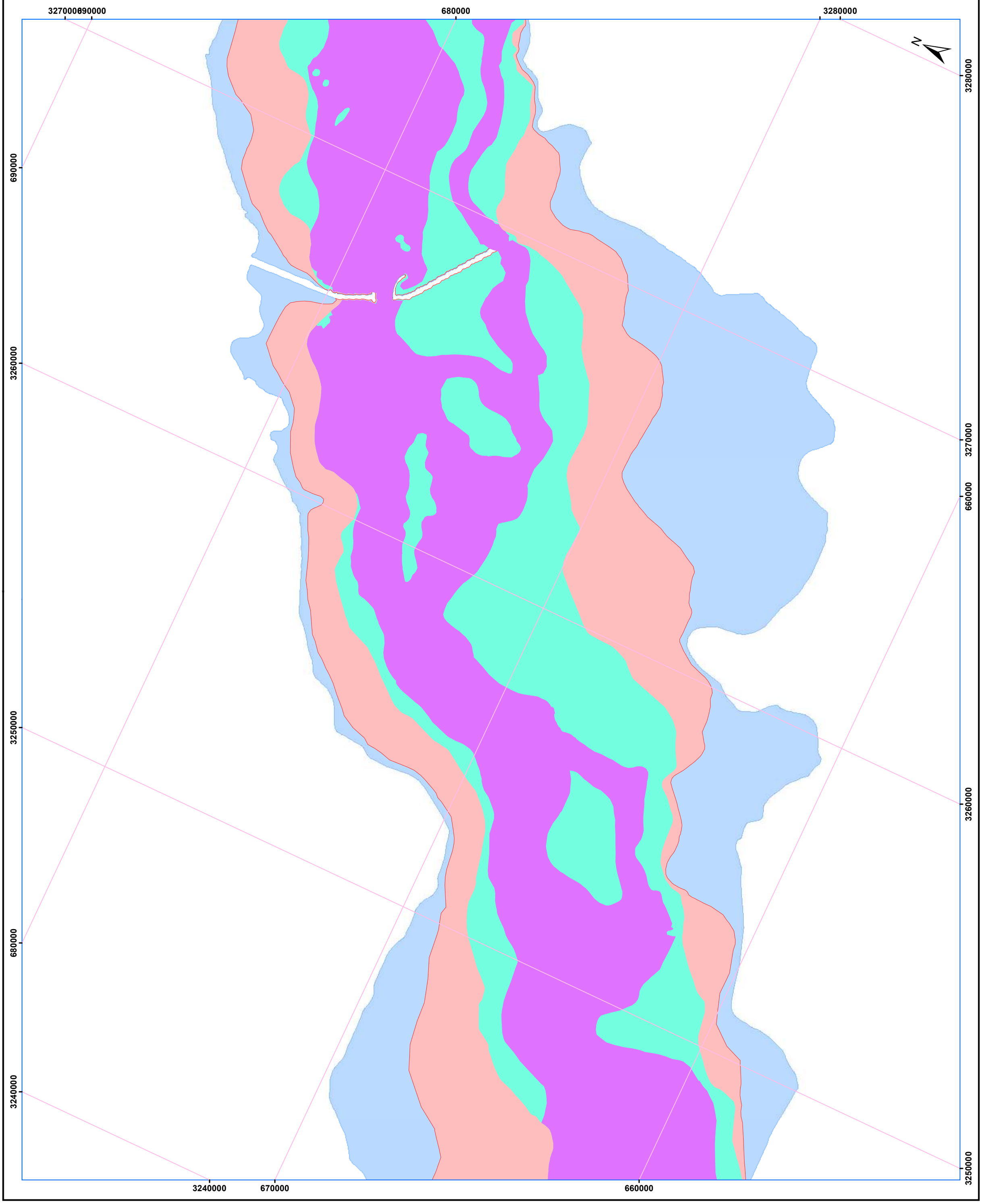
GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
BUILDING AND ADVISORY SERVICES PROJECT (WCAP)

Consultants:
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
1-C , Block-N, Model Town Extension,
Lahore - Pakistan.

in association with

DELTARES,THE NETHERLANDS

Bahawalnagar and Pakpatan Districts



Scale 1:75,000

Kilometers

0 0.5 1 2 3

LEGEND

(Flood Risk Zones)

- High Risk Zone (Inundation Extent corresponding to discharge from 80,000 to 150,000 cusecs in Suleimanki-Islam reach)
- Medium Risk Zone (Inundation Extent corresponding to discharge from 150,000 to 250,000 cusecs in Suleimanki-Islam reach)
- Low Risk Zone (Inundation Extent corresponding to discharge from 250,000 to 350,000 cusecs in Suleimanki-Islam reach)

LEGEND

(Inundation Extent Corresponding to Provincial Irrigation Department)

- Medium Flood Extent corresponding to discharge upto 80,000 cusecs in Suleimanki-Islam reach

Note: All flood extents are based on breachless conditions

Bahawalnagar and Pakpattan Districts

327000 690000 680000 3280000 3260000 3250000 3240000 670000 660000

BAHAWALNAGAR DISTRICT

PAKPATTAN DISTRICT

Pakpattan Minchinabad Rd

Baba Farid Bridge

Sutlej River

Farid Kot Pakpattan Rd

Darbar Rd

Chan Pir Rd

Thatha Manzoor Khan Rd

Hota Rd

Lakhvera Rd

Canal Rd

Qadirpur Minor

Mirza Disty

Darbariwala Dy

Habibka Minor

Minchinabad Bahawalnagar Rd

Fordwah Branch

Khadir Branch

Ferozepur Flood Protection Bund

New Mari Amb Flood Protection Bund

Mari Amb Minor

Warsin Distv

Ferozepur Distv

Hota Distv

Dhudi Distv

Sikandar Distv

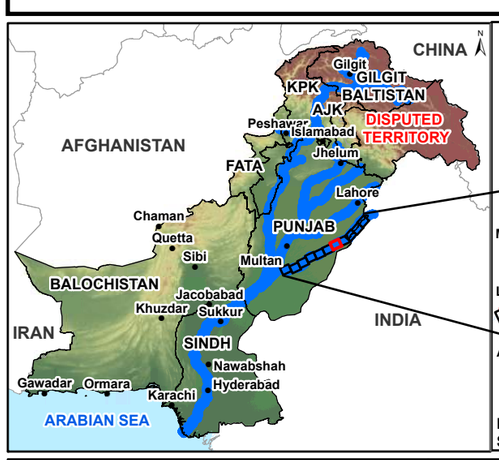
Zamurrad Wah

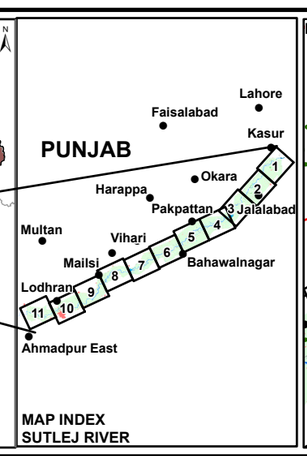
Raj Wah

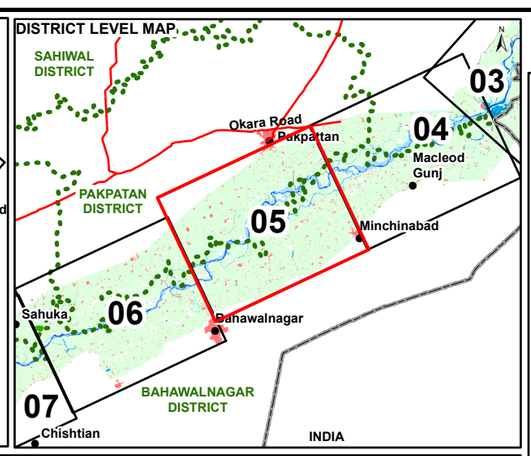
Drain

Pipli Saddu, Dhuddian, Chak 1 KB, Malik Khora, Chah Bakhsha, Chhaladhke Jhugge, Malik Niaz Bane, Jassoke, Sharaf Shah, Kolorwala, Kiln, Minchinabad, Qadirpur Minor, Kadarpur, Wasandwala, Nahamatpur, Amir Sohara, Karampur Bhatti, Ahmad Kalia, Game Khan, Bahramka Hathar, Arain, Bolpur, Khuda Bakhsh, Panpura, Chak Faiq, Matipura, Suralpura, Adhannwan, Abadi Khokharan Wali, Chah Nang Paal, Nura Ahloka, Dadu Ahloka, Landi pura, Khalis Khurd, Alipur, Naushahra, Bhimpura, Islam pura, Bunga Akbar, Qadirpur, Basti Tarkhanan, Hafiz Siddique, Abadi Pathanan Wali, Bhuttayan Wala Khouh, Khandoyan Wala Khouh, Amira Ahloka, Butewali, Maarri Chakkooka, Mail Shah, Tahnwala, Gamewala, Shamkot, Hasham Khan, Bait Bahamni, Malik Bahawal, Sardar Bhaini, Lohra, Abadi Ghous Nagar, Chan Pir, Mouza Paynch, Karampura, Jawaya Mal, Mir Khan Mehmonka, Malik Rahman, Munshi Hithar, Bahawalgarh, Janduwala, Diyal Singh, Sukherien Bhain, Tibba Noor Ashaab Babbaran Wala Khouh, Bunga Baloan, Pir Gurai, Dakua, Bunga Niaz Khan Baloch, Pakpattan, Marlay, Bohar Diwan, Nawaz Mal Wala Khouh, Chak Kirpa Raami, Maidanwala Khu Jahana Mahmunka, Alam Dhudhi, Bachianwali, Chouk Fidayee Shah, Fidayee Shah, Munshi Outarhh, Sayid Ali, Shahin di Basti, Diwanwala, Kot bodla, Malikpur, Addipur Thatta, Gulla Jatto Wal, Lal Khan Dhuddi, Kazian Wala, Thatha Manzoor Kahn, Habibka, Ismailpur, Jhandwala Khu, Mosam Wala, Chako Ki Bhaini, Nazirabad, Challadka, Bhaini Jinjran, Shaki, Kotheka Bhaini, Haji Razzaq Khan, Shahu Bloch, Shah Mirwala, Jaseem Ki, Thingi, Bachianwali, Neza Jodheka, Chakoka, Khair Shah Uthar, Munnanwala, Kiln, Chak Muhammad Pur, Diwan Sahib, Sudha Bilara, Lakhvera, Rehmani Maikana, Bhaini Punan, Adlana, Manduwala, Bhaini Rajar, Bhaini Dara, Jagga Baloch, Jhugge Baloch, Malika, Harlal Bhaini, Bunga Alam Shah, Basti Luqman, Kabuttri Dhuddian, Chak 4 Kb, Chak Hakeem, Bhaini Sharian, Bhaini Punan, Ranewala, Bhinda, Salamat, 35A, Pulliwala, Faridke, Basti Khalifa Pahlwanka, Khola Uttam Singh, Abadi Shehzad Malkanay Ki, Nebwali, Anandpur, Gomiwali, Laleka, Basti Ahmad, Bhaini Sukheria, Chak Amir, Chak Amar Singh, Bara, Chah Ranjiewala, Chak 6 Kb, Chak 5 Kb, Bodia, Bonga Machhi Chouk, Pahlwanke, Bunga Machhi, Basti G.Ali, Chak Thanedar, Bagwari, Basti Parsa Sialan, Masrirwali, Saidanwali Bhaini, Bhalloka, Bhindi Laleki, Beriwala, Kiln, Drain, Wazirka, Ahmad Musia, Bahli Musa, Dhuddi Khazan Singh, Basti Jhale Shah, Kakarwa Kothi, Warsin, Kot, Ferozepur, Babana, Mariamb, Sadhwala, Bagha, Mahant Darshan, Basti Araian, Daulatpur, Bahadurka Sharki, Mehr Shah, Sikandar Baloch, Chak 7 Kb, Wan Duniwala, Baliwala, Gundi wala, Chak Kartarpur, Chak 9 KB, Chak 8 KB, Chak 10 KB, Kot Bakhsha, Wan Hafiz G, Chak Tehsildarka, Chaweka, Shadiwala, Acharki, Dera Bakhsha, Pirada, Toba Qalander Shah, Rafiqkot, Chak 11 KB, Sandhe, Balari Piran, Jhullan Arain, Basti Dhudian, Wasir Muhammad pur, Banga, Machhiwali Bhaini, Fatwera, Bhagan, Abera Uttar, Kiln, Hota, Anwar Shah, Kot Bahawal, Kot Mukhdoon, Bhudana Kiln, Ch:Sher Muhd, Chak Nikku, Bhaini Momeka, Jhullan Chishti, Garkhana, Nowshera, Rojhanwali, Mari Halbatwali, Dohar, Salam Rath, Bhaini, Momeka

Structure No.	Existing Flood Protection Structures	Inventory Code
35	New Mari Amb Flood Protection Bund at 68672/L of Ferozepur	P877
35A	Ferozepur Flood Protection Bund at 40000/L of Ferozepur	P876







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Coordinate System
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DATUM: WGS84
Grid Reference is in meters

Date: Jan 29, 2016 By Safder Hussain

Scale 1: 75,000

Kilometers 0 0.5 1 2 3

LEGEND

- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
- Drain
- Distributary
- Minor
- Nallah
- Wah
- District Boundary
- Provincial Boundary
- International Boundary
- Barren Area
- Bund / Spur
- Cultivated Area
- Flood Plain
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LANDUSE MAP
SUTLEJ RIVER

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PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
BUILDING AND ADVISORY SERVICES PROJECT (WCAP)

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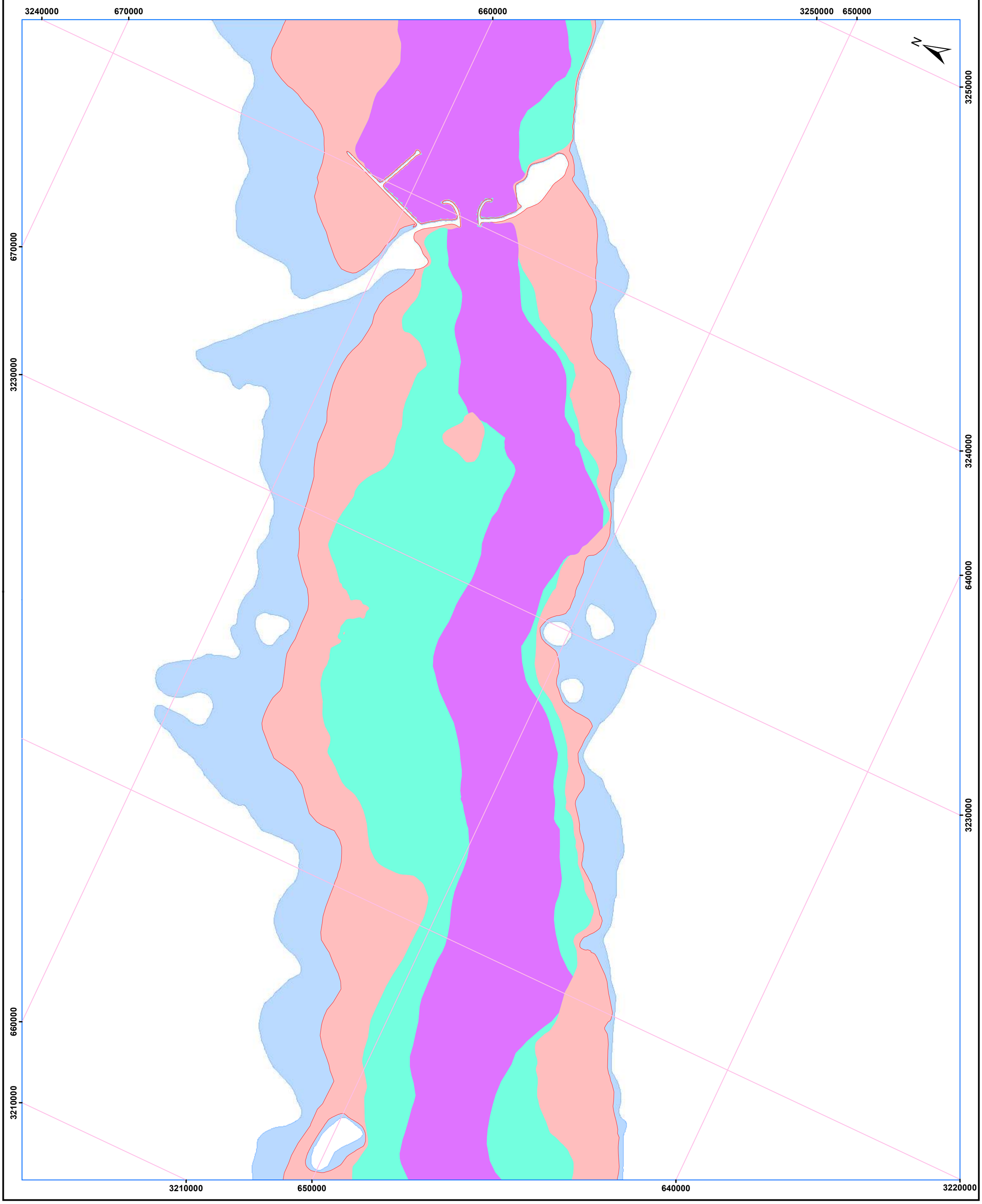
Bahawalnagar, Pakpattan and Vehari Districts



Scale 1:75,000

0 0.5 1 2 3 Kilometers

LEGEND

(Flood Risk Zones)

- High Risk Zone (Inundation Extent corresponding to discharge from 80,000 to 150,000 cusecs in Suleimanki-Islam reach)
- Medium Risk Zone (Inundation Extent corresponding to discharge from 150,000 to 250,000 cusecs in Suleimanki-Islam reach)
- Low Risk Zone (Inundation Extent corresponding to discharge from 250,000 to 350,000 cusecs in Suleimanki-Islam reach)

LEGEND

(Inundation Extent Corresponding to Provincial Irrigation Department)

- Medium Flood Extent corresponding to discharge upto 80,000 cusecs in Suleimanki-Islam reach

Note: All flood extents are based on breachless conditions

Bahawalnagar, Pakpattan and Vehari Districts

Sheet 6 of 11

3240000 670000 660000 3250000 650000

670000 3250000 3230000 3240000 640000 660000 3210000 650000 3220000

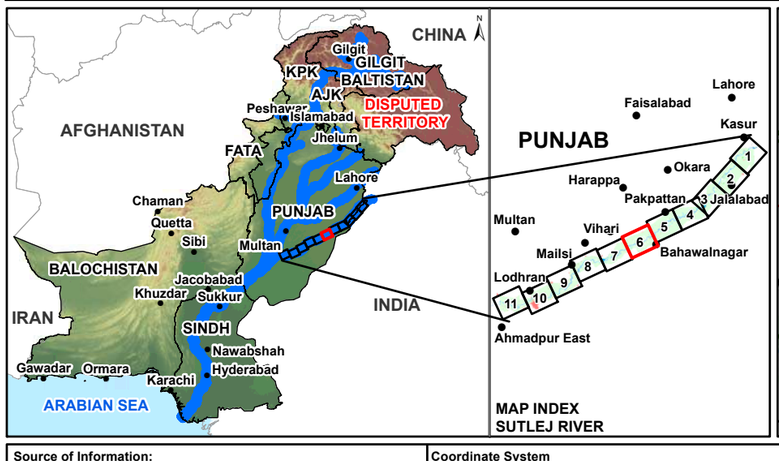
Halbatwali, Salam Rath, Ali Shah Minor, Ali Shah, Canal Rd, Hola Rd, Noora Rath, Kiln, Kotli, Budhan Shah, Joiya, Kala Pathan, Lala Shah, Kund Shamsuddin, Murad Bhuk, Heman Mehruka, Jogeke, Lukman Mehruka, Chak 22 KB, Machhi Singh Dy, Jogeke, Jhandeke, Chak Sohawa Mal, Chak Machi Singh, Chowk Marlay, Kiln, Sabuke, Tibbi Lal Baig, Chak 23 KB, Kiln, Wali Muhammad, Hajhra, Lakhwera Madha Firoz, Basti Khekhran, Chak 26 KB, Pipal, Chak 25 KB, Tibbi Disty, Kaluke, Wan Fazal Shah, Farid Shah, Amankot, Kuria, Hola Rd, Jamman Shah, Ziarat Amar Shah, Ziarat Muhammad Shah, Janu Ka Khu, Beli Delawar, Bilara Kalan, Soneke, Chah Alluke, Bilara Arjanke, Bhaini Lakhoka, Bhaini Masteki, Bhaini Haiderke, Bhaini Jiwanke, Basti Kharlan, Thana Ahmad Yar Rd, Kiln, Kiln, Dhakwan da Khu, Chak 34 KB, Khadir Branch, Chak 38 KB, Chak 35 KB, Hassu Hassanka, Bet Bhatti, Umeda Lakhuka Kalan, Protection Bund, Jamlera Flood, 36, Bakhu Ka Khu, Bakhu Ka khu, Majhi Jamlera, Bhaini Maingal, Dholo, Bhaini Kharlan, Jange Joray, Bhaini Jalveria, Jamlera Adda, Ramul wala, Kiln, Jamlera Rd, Canal Rd, Chak 37 KB, Mian Da Khu, Dad Jamlera, Nowshera Jamlera, Chak 33 KB, Chak 36 KB, Karidwala Khu, Chak 39 KB, Jamlera Disty, Hola Rd, Chak Kamal wala, Allahyar Baini, Bhain Mirza, Bhain Dhuddian, Bhaini Chhuhrki, Qasimka, Chak Sarwar, Bhaini Balachan, Cholian wali, Hasan wali, Chak Phoganwala, Basti Dodi, Basti Dharanwali, Jhedu, Mominabad, Kiln, Basti Johiyanwali, Saiyid Ali, Ahmedabad, Ahmad Pur, Mahar Disty, Shergarh, Madressa, Bahawalnagar Rd, Bahawalnagar Chiristian Rd, Fordwah Branch, Chak Bhattian, Farooq Chisti, Basti Araian, Basti Bhangran, Basti Fatalian, Basti Sarawan, Basti Mahatma, Basti Bhokan Wali, Karimdad, Khai Bodia, Santeka, Sem Nala, Sutlej River, Bulla Shah Pir Sikandar, Basti Sahuke, Bhain Yasin, Bhaini Dhuddian, Bhaini Chhuhrki, Qasimka, Chak Sarwar, Bhaini Balachan, Cholian wali, Hasan wali, Chak Phoganwala, Basti Dodi, Basti Dharanwali, Jhedu, Mominabad, Kiln, Basti Johiyanwali, Saiyid Ali, Ahmedabad, Ahmad Pur, Mahar Disty, Shergarh, Madressa, Bahawalnagar Rd, Bahawalnagar Chiristian Rd, Fordwah Branch, Chak Bhattian, Farooq Chisti, Basti Araian, Basti Bhangran, Basti Fatalian, Basti Sarawan, Basti Mahatma, Basti Bhokan Wali, Karimdad, Khai Bodia, Santeka, Sem Nala, Sutlej River, Bulla Shah Pir Sikandar, Basti Sahuke, Bhain Yasin, Bhaini Maingal, Dholo, Bhaini Kharlan, Umeda Lakhuka Kalan, Protection Bund, Jamlera Flood, 36, Bakhu Ka Khu, Bakhu Ka khu, Majhi Jamlera, Jange Joray, Bhaini Jalveria, Bhain Mirza, Dad Jamlera, Nowshera Jamlera, Karidwala Khu, Chak 39 KB, Chak 33 KB, Chak 36 KB, Jamlera Disty, Hola Rd, Chak Kamal wala, Allahyar Baini, Sadiq Jalalke, Jalalke, Basti Bapa, Jodheka, Pirali Shah, Musla, Rahmani, Basti Lune-Khan, Baigke, Dulleka, Kalja Shah, Daulat Distv, Mahmudpur Chanoke, Billoke, Patepura, Shadana, Bahadurke, Basti G.Nabi, Annuke, Nihalke, Chak Ali Sher, Dilo Shah, Khokharanwali Bhaini, Tibbi Sethanwali, Chak Moulviwala, Chak Megha Mukhain Rd, Wara Muhammed Shah, Wara, Kiln, Makkhanwala, Jalalbad, Mehramke, Hayder Shah, Rajeka, Wara Allah Jawaya, Nazir Kot, Muhari Piran, Ghanipur, Kiln, Kiln, Kallar, Kiln, Kiln, Bhaini Acharki, Daulat Disty, Nadir Shah, Matran, Kiln, Kiln, Kiln, Kiln, Kiln, Kiln, Kiln, Basti Manna, Chundian, Mari Main Sahib, Suleman Jhandheke, Bhokan Bridge, Kiln, Chah Sonamwala, Bunga Ihsan Bibi, Kiln, Salamatpur, Pir Shah, Khai Bodia, Basti Bhokan Wali, Karimdad, Basti Sarawan, Basti Fatalian, Basti Bhangran, Pir Khara, Basti Araian, Chak Samanda Araian, Basti Araian, Chak Hotiyana, Kiln, Qamruddin Bodia, Kakku Bodla, Musa Bohta, Bhaini Mahar Janaki, Kiln, Kulachian, Muhammed Yar Hans, Farugabad, Saidullah pur, Aridwala Sahiwal Rd, Bahawalnagar Bypass, Roihanwali Dy, Hospital Rd, Bhawalnagar, Kund Shamsuddin, Kund Kabul, Bhaini Niamat Ali, Noora Rath, Kiln

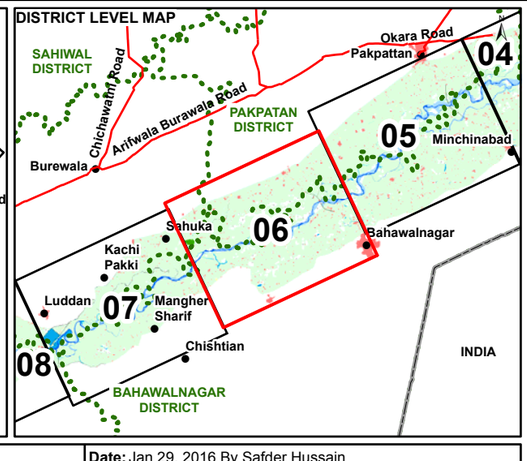
PAKPATTAN DISTRICT

VEHARI DISTRICT

BAHAWALNAGAR DISTRICT

Structure No.	Existing Flood Protection Structures	Inventory Code
36	Jamlera Flood Protection Bund at Opposite 228000/L of KB	P878





Scale 1: 75,000

Kilometers 0 0.5 1 2 3

LEGEND

- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
- Drain
- Distributary
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DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

LANDUSE MAP
SUTLEJ RIVER

GOVERNMENT OF PAKISTAN
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PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
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Coordinate System
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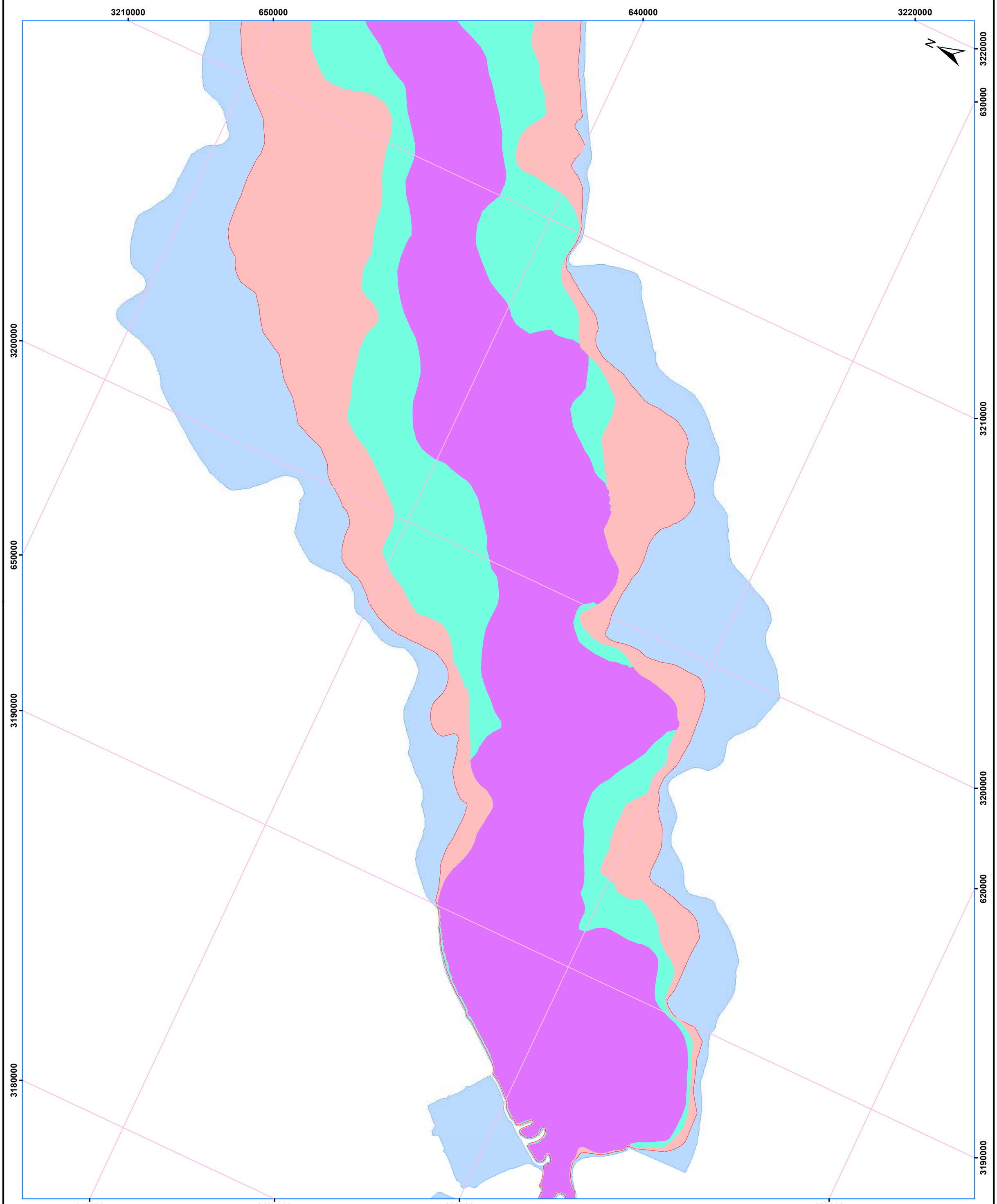
DATUM: WGS84
Grid Reference is in meters

Date: Jan 29, 2016 By Safder Hussain

Bahawalnagar, Bahawalpur and Vehari Districts



Scale 1:75,000

0 0.5 1 2 3 Kilometers

LEGEND

(Flood Risk Zones)

- High Risk Zone (Inundation Extent corresponding to discharge from 80,000 to 150,000 cusecs in Suleimanki-Islam reach)
- Medium Risk Zone (Inundation Extent corresponding to discharge from 150,000 to 250,000 cusecs in Suleimanki-Islam reach)
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LEGEND

(Inundation Extent Corresponding to Provincial Irrigation Department)

- Medium Flood Extent corresponding to discharge upto 80,000 cusecs in Suleimanki-Islam reach

Note: All flood extents are based on breachless conditions

Bahawalnagar, Bahawalpur and Vehari Districts

Structure No.	Existing Flood Protection Structures	Inventory Code
37	Ghulam Wah Flood Embankment RD: 0+000 - 45+689	P848
38	Left Flood Bund	P922
39	Right Flood Bund	P923
40	Right Retired Embankment. RD 0+000 - 67+000	P853
41	2nd Defence Bund. RD 0+000 - 11+700	P856
42	Murphy Spur. RD 0+000 - 9+500	P858
43	T Head Spur. RD 0+000 - 4+650	P859
46	G.H. Spur. RD 0+000 - 6+100	P857
47	Left Retired Embankment. RD 0+000 - 50+000	P854

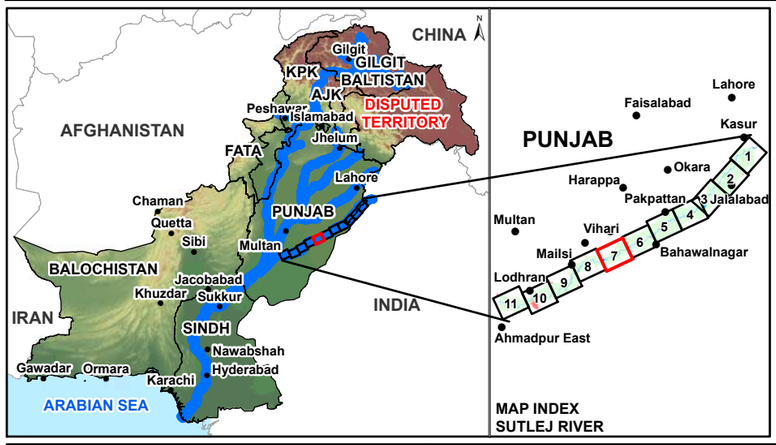
Islam Barrage Breaching section at RD 3+000 - 5+000 of Murphy Spur

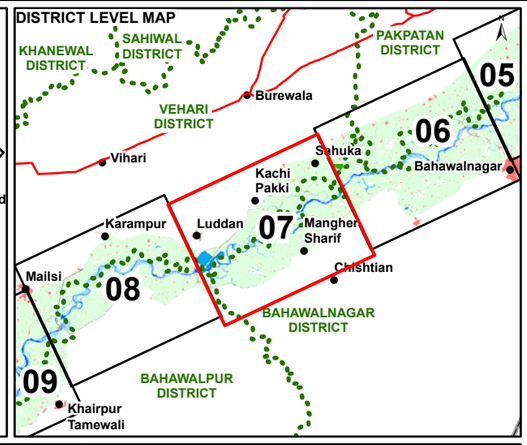
Islam Barrage Breaching section at RD 10+000 -13+000 of Right Retired Bund

VEHARI DISTRICT

BAHAWALNAGAR DISTRICT

BAHAWALPUR DISTRICT





Scale 1: 75,000

Kilometers 0 0.5 1 2 3

LEGEND

- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
- Drain
- Distributary
- Minor
- Nallah
- Wah
- District Boundary
- Provincial Boundary
- International Boundary
- Barren Area
- Bund / Spur
- Cultivated Area
- Flood Plain
- Grass
- Graveyard
- Hill
- Main/Link Canal, Escape, Spillway
- Motorway
- Mud
- Nallah (Perennial)
- Nallah (Non Perennial)
- Orchard
- Planned Urban Area
- Range Forest
- River
- Sand Dunes
- Town/Village/Settlement
- Water Body

Source of Information:
1. Topographic sheets of Survey of Pakistan
2. Freely available satellite imagery
3. FPSP-II GIS data
4. Shuttle Radar Topographic Mission Data (Resolution:90 m)
5. Survey data of Flood protection embankments and structures

Coordinate System
PROJECTION: Lambert Conformal Conic (LMPAK-I) ,
DATUM: WGS84
Grid Reference is in meters

Date: Jan 29, 2016 By Safder Hussain

DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

LANDUSE MAP
SUTLEJ RIVER

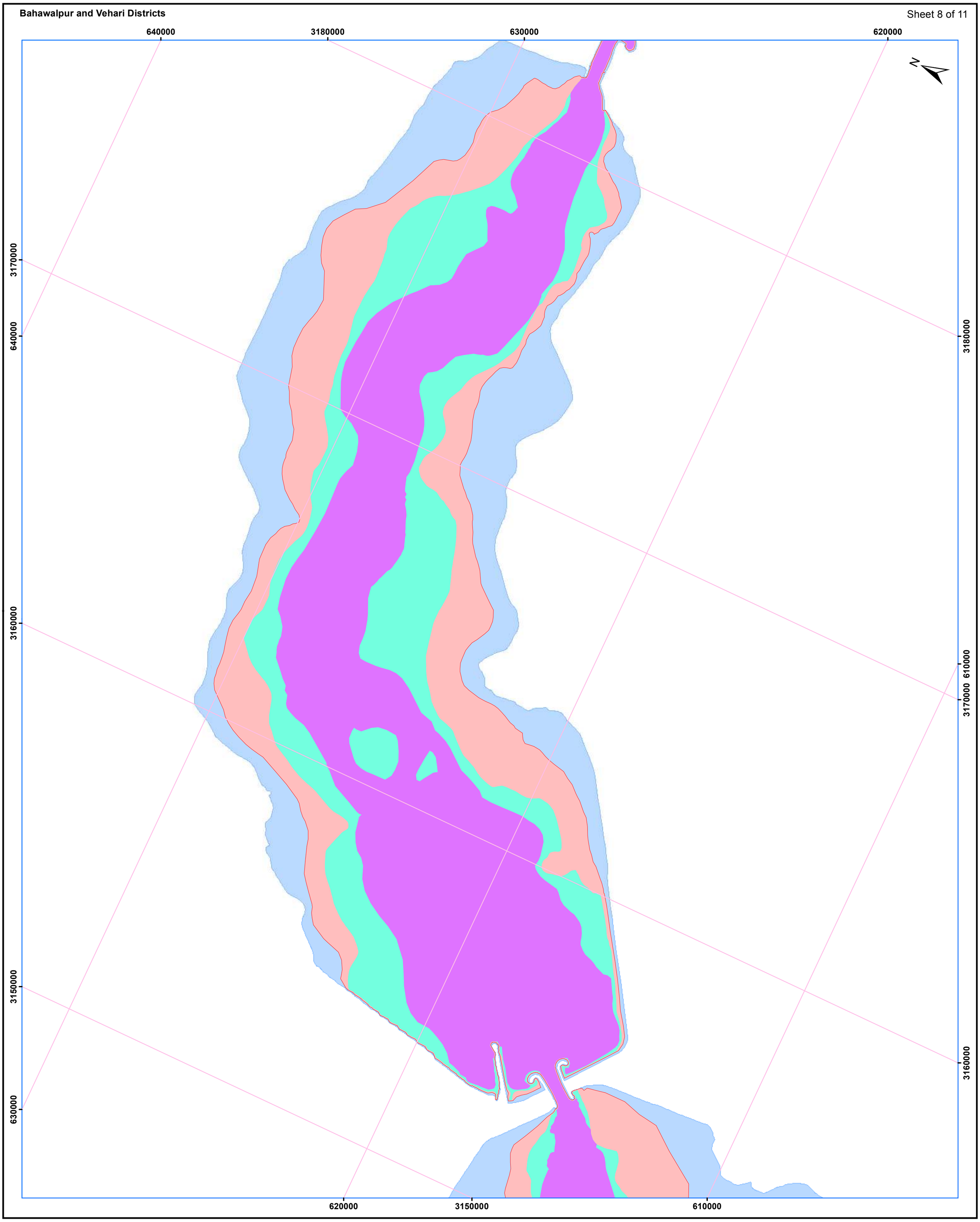
GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
BUILDING AND ADVISORY SERVICES PROJECT (WCAP)

Consultants:
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
1-C , Block-N, Model Town Extension,
Lahore - Pakistan.

in association with

DELTARES,THE NETHERLANDS

Bahawalpur and Vehari Districts



Scale 1:75,000

0 0.5 1 2 3 Kilometers

LEGEND

(Flood Risk Zones)

- High Risk Zone (Inundation Extent corresponding to discharge from 80,000 to 115,000 cusecs in Islam-Punjnad reach)
- Medium Risk Zone (Inundation Extent corresponding to discharge from 115,000 to 190,000 cusecs in Islam-Punjnad reach)
- Low Risk Zone (Inundation Extent corresponding to discharge from 190,000 to 265,000 cusecs in Islam-Punjnad reach)

LEGEND

(Inundation Extent Corresponding to Provincial Irrigation Department)

- Medium Flood Extent corresponding to discharge upto 80,000 cusecs in Islam-Punjnad reach

Note: All flood extents are based on breachless conditions

Bahawalpur and Vehari Districts

Sheet 8 of 11

640000 3180000 630000 620000

3170000 640000 3180000 610000

3160000 630000 3170000 610000

3150000 620000 3160000 610000

Structure:	ISLAM
*Very High Risk Flood Magnitude	up to 80,000
*High Risk Flood Magnitude	80,000 - 115,000
*Medium Risk Flood Magnitude	115,000 - 190,000
*Low Risk Flood Magnitude	190,000 - 265,000

Note: All values are in ft^3/sec
* Results based on frequency analysis carried out under current studies using observed peak discharges upto 2013/14

VEHARI DISTRICT

BAHAWALPUR DISTRICT

Structure No.	Existing Flood Protection Structures	Inventory Code
44	Up Stream Right Guide Bank Spur. RD 0+000 - 3+850	P849
	Up Stream Left Guide Bank Spur. RD 0+000 - 3+850	P850
	Down Stream Right Guide Bank Spur. RD 0+000 - 0+920	P851
	Down Stream Left Guide Bank Spur. RD 0+000 - 0+920	P852
45	Colony Protection Bund. RD 0+000 - 12+500	P855
48	Right Marginal Bund	P918
49	Mole Head Spur	P919
50	Guide Banks (Right U/S & D/S), Thingi	P920
	Guide Banks (Left U/S & D/S), Thingi	P921
51	Left Marginal Bund	P917

Source of Information:
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Coordinate System
PROJECTION: Lambert Conformal Conic (LMPAK-I) ,
DATUM: WGS84
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Date: Jan 29, 2016 By Safder Hussain

MAP INDEX
SUTLEJ RIVER

DISTRICT LEVEL MAP

Scale 1: 75,000

Kilometers 0 0.5 1 2 3

LEGEND

- National Highway
- Metalled Road
- Un-metalled Road
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- Railway Line
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- International Boundary
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- Bund / Spur
- Cultivated Area
- Flood Plain
- Grass
- Graveyard
- Hill
- Main/Link Canal, Escape, Spillway
- Motorway
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DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

LANDUSE MAP
SUTLEJ RIVER

GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
BUILDING AND ADVISORY SERVICES PROJECT (WCAP)

Consultants:
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1-C , Block-N, Model Town Extension,
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in association with

DELTARES,THE NETHERLANDS

Bahawalpur, Lodhran and Vehari Districts

620000 3150000 610000 600000

620000 3140000

3130000

610000

3150000

3140000

590000

3130000

3120000

600000 3120000 590000

N

Scale 1:75,000

0 0.5 1 2 3 Kilometers

LEGEND

(Flood Risk Zones)

- High Risk Zone (Inundation Extent corresponding to discharge from 80,000 to 115,000 cusecs in Islam-Punjnad reach)
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LEGEND

(Inundation Extent Corresponding to Provincial Irrigation Department)

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Note: All flood extents are based on breachless conditions

Bahawalpur, Lodhran and Vehari Districts

620000 3150000 610000 600000

620000 3140000 3130000 3120000 610000

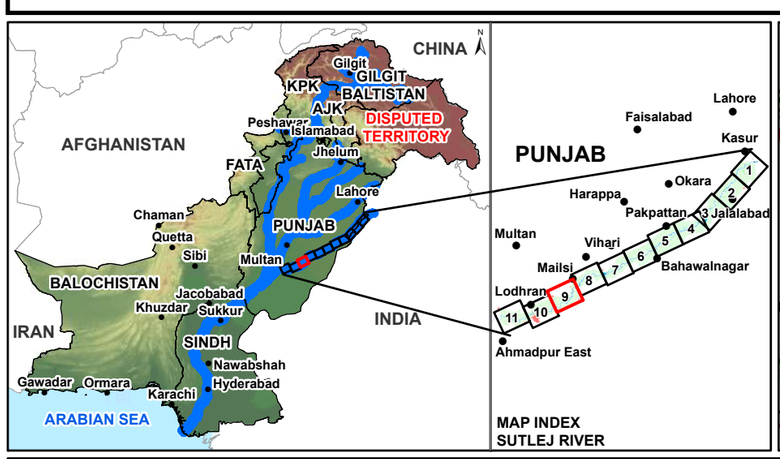
3150000 590000 3140000 3130000

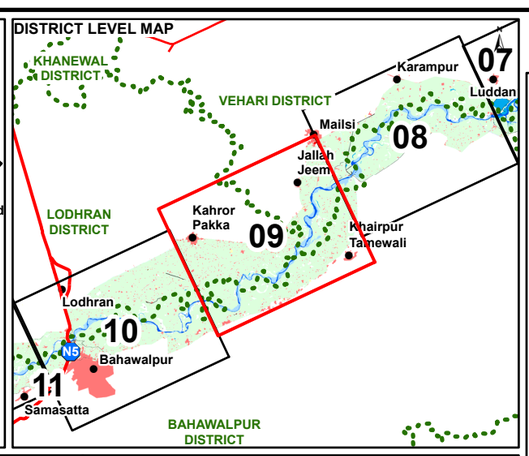
BAHAWALPUR DISTRICT

VEHARI DISTRICT

LODHRAN DISTRICT

Mailsi Colony Rd, Sherinwala, Baluchwala, Arewala, Ghauspur, Pirwala, Bakhtwala, Kiln, Basti Waiwala, Ashaqwala, Bhotawala, Basti Rashidabad, Jalla Disty, Haidernagar, Nai Basti, Kot Nagar, Kahor Pakka Rd, Nasirpur, Tootan Wala, Chhutani, Tundan, Ahamadpur Faqir wala, Arain Wahan, Kiln, Gawen, Chunjani, Jallah Jeem, Jalla, Lanjawala, Sahih Kamb, Ghauswali, Basti Nazamabad, Bakhsh Wala, Fatehpur, Kund Nauabad Sani, Chhina, Ghulam Sindhi Rd, Ghulam Sindhi, Puna, Lakhran Basti, Sharin Wala Khu, Pana de Jhok, Fazilwali Jhok, Basti Sarn, Umar Fatani, Ghallu Wala Rd, Jhok Amam Bakhsh, Kauje de Basti, Sadiqwah Minor, Beer Wala Rd, Amin Fatani, Behli de Basti, Kiln, Behli Rd, Basti Muhammad Pur, Basti Muhammed Pur, Lal Shah Wala Rd, Arainwali, Shahpur Kamangran Wala, Kiln, Khairalan Wali, Tole Wah, Araiowqii, Dahnrun di Basti, Arain Di Basti, Mani, Jhok Zakria, Kumharan di Basti, Nawin Basti, Sathuwali Jhok, Jhok Jindu, Jhok Haji, Mamar, Durpur, Bhindi Wala, Tamewali, Jhok Haji, Bhindiwala, Zorkot, Mari, Khand, Khairpur Tamewali, Mailsi Bahawal Link, Bahawalpur Bahawalnagar Rd, Sutlej River, Basti Jindu Shah, Lorran de Basti, Basti Jindu Shah, Khaji Wala, Goth Bahar, Khajiwala, Basti Taj, Basti Qudratabad, Jakri, Bhuratta, Laharanwali Basti, Chak 25, Basti Shah Wali, Nawaz Mamran de Jhok, Chelewahan, Mamran, Chelewahan Shareef Rd, Basti Ganji, Goth Miththa, Asrani, Darian de Jhok, Jhok Pannowali, Basti Din Muhammad, Asrani Minor, Mochi Wala, Basti Rane Wali, Basti Darwesh, Jheta de Mari, Basti Gulpur, Chatwahan, Pallan Wali, Balim wali, Chah Mandranwala, Araut, Sikandaria, Qutebpur, Wair Wahan, Muhammad de Basti, Bhattian wala Khu, Chauraian de Basti, Basti Mahar, Joyan Wali, Kund Ahmad Hasan, Nalwali Basti, Basti Naiwali, Chelewahan Dy, Rangbhara, Qadirpur, Kham de Basti, Basti Shakurwala, Hasliwala Khu, Chhapar, Basti Jatal, Kalwain Khu, Basti Ranawahan Mahmood, Basti Pir Shah, Bhuranwala, Bela Wagha, Miranpur, Mari, Basti Hasil, Machhi Wagha, Basti Arain, Nawin Basti, Chah Ramkali, Basti Hasanabad, Khairpur Tamewali Rd, Massa Kotha Rd, Massa Kotha, Basti Qaziwala, Jelwala, Massa Kotha Link Rd, Jayone-de-basti, Basti Shah Muhammad, Basti Mian Basti Nai, Tibba Gur Gajh, Goth Nur Muhammad, Jorian Wali, Kiln, Goth Shah Muhammad, Mansur Shahwala, Budhe Shahwala, Jandpir, Wighamal Rd, Kundwala Kiln, Mochiwali, Basti Ayub Khan, Bampur Wala, Basti Lala, Dera Dilawar, Wigha Mal, Toka Mukhi, Sham Lot, Churwala, Kanjuwala, Tibba Rahar, Kiln, Kiln Bhatungarh, Jahanu Wala, Kahror Minor, Chele Wahan Disty, Graveyrd Rd, Pathanan wala, Kamilwala, Basti Gidran wal, Basti Mud, Rangbhara, Sikandar Wala, Chhottapada, Rukanpur, Tibbi Waddan Rd, Dhakwan Wala, Mochiwala, Godanwala, Jindo Shah Wala, Tibbi Waddan, Link Rd, Jhok Malanan, Khajjiwala, Tillu Wala, Basti Gaddan, Balochanwali, Malisi Rd, Purna Melis Rd, Jala Town, Circular Rd, Kahror Pakka, Nale Wala, Karaman Wala, Muhammad Yarwala, Mirali, Massa Kotha Link Rd, Dhore Wala, Ambartianwala Rd, SahriWala, Tibbi Wala, Wad Wala, Werewala, Sikar, Jhok Malik Sharif, Bunga Ramzan Khan, Basti Khokhar, Lal Suhanra, Kiln, Shahanwali, Kiln, Sharinwala, Kiln, Basti Araian, Chela Mal, Bahawalpur Bahawalnagar Rd, Sanwari Wala, Kiln, Kiln, Dheriwala, Basti Saiyidanwala, Kothian wala, Maripujarewali, Gol, Jablanwala, Shahpur, Lodhran Rd, Basti Khuda Bakhsh, Kiln, Kotla Dibar Khan, Basti Pir, Malik Wala, Bahawalnagari, Baloch Wali Basti, Basti Gharib Wali, Kiln, Werewala, Sutlej River





Scale 1: 75,000

0 0.5 1 2 3 Kilometers

LEGEND

- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
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DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

LANDUSE MAP
SUTLEJ RIVER

GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
BUILDING AND ADVISORY SERVICES PROJECT (WCAP)

Consultants:
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
1-C , Block-N, Model Town Extension,
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DELTARES,THE NETHERLANDS

Source of Information:
1. Topographic sheets of Survey of Pakistan
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Coordinate System
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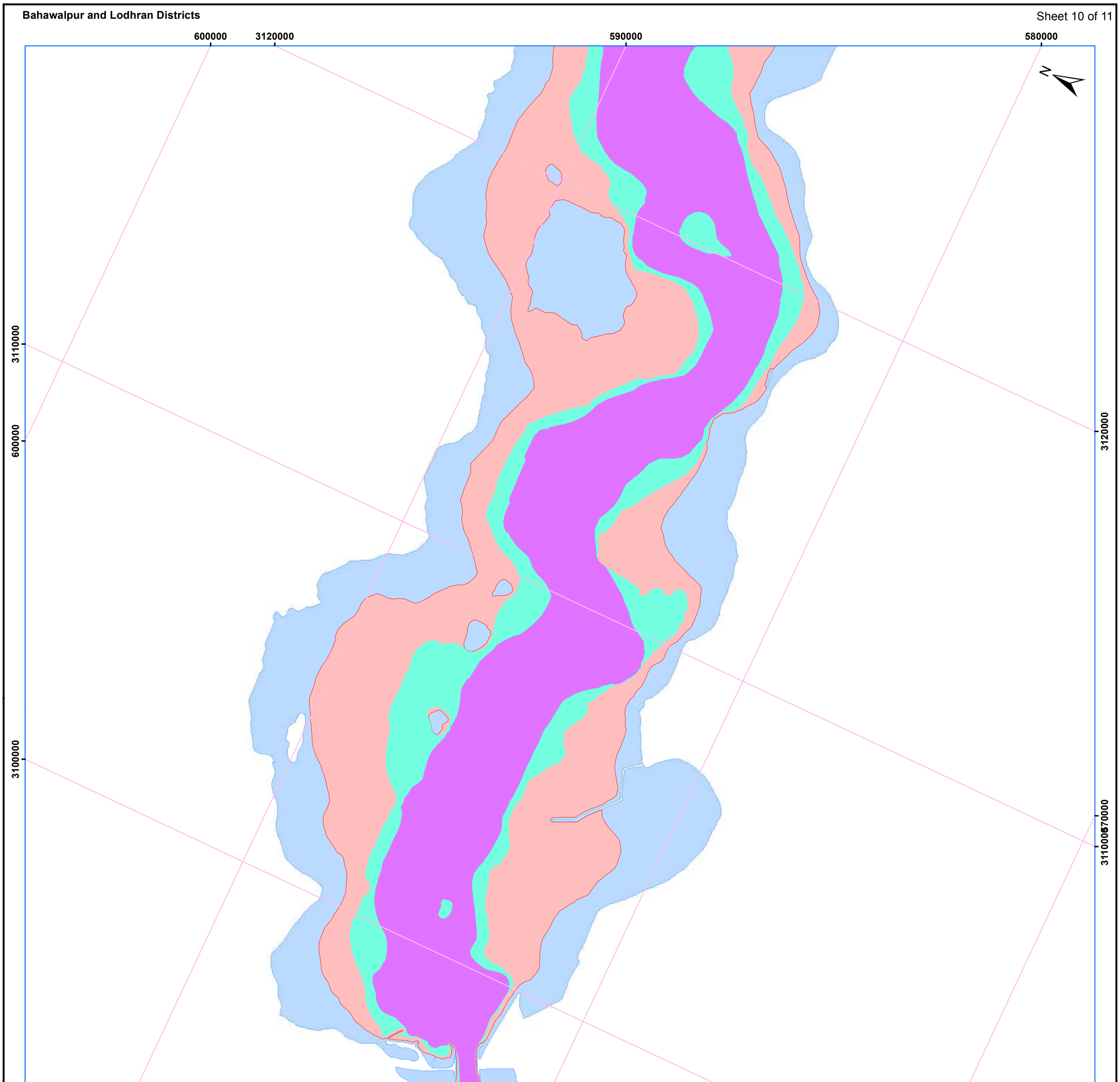
DATUM: WGS84
Grid Reference is in meters

Date: Jan 29, 2016 By Safder Hussain

Bahawalpur and Lodhran Districts



Scale 1:75,000

0 0.5 1 2 3 Kilometers

LEGEND

(Flood Risk Zones)

- High Risk Zone (Inundation Extent corresponding to discharge from 80,000 to 115,000 cusecs in Islam-Punjnad reach)
- Medium Risk Zone (Inundation Extent corresponding to discharge from 115,000 to 190,000 cusecs in Islam-Punjnad reach)
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LEGEND

(Inundation Extent Corresponding to Provincial Irrigation Department)

- Medium Flood Extent corresponding to discharge upto 80,000 cusecs in Islam-Punjnad reach

Note: All flood extents are based on breachless conditions

Bahawalpur and Lodhran Districts

Sheet 10 of 11

600000 3120000 590000 580000

3110000 600000 3100000 590000

LODHRAN DISTRICT

BAHAWALPUR DISTRICT

Bye Pass Rd

Sardar Wah & Distv

Kahror Minor

Lal Bagh Ali Dy

Lodhran Branch

Jamrani Disty

Model City Rd

Jalalpur Pirwala Rd

Bahawalpur Rd

Gagan Harta Dy

Shoaib Ghullu Rd

Hawali Nasirkhna Rd

Tibbi Wadan Rd

Tibbi Wahjan Shortcut

Dera Bakha Bund RD: 0-920

Abbas Nagar Rd

Bahawalpur Bahawalnagar Rd

Jhangi Wala Rd

Hasipur Rd

Sutlej River

Jhangiwala Bund

Empress Bund

Eastern Bypass

Second Defence Line

University Rd

River Rd

Multan Rd

Ahmadpur Flood Bund

Samma Satta Rd

Empress (Railway) Bridge

Adamwahn Bridge

N5

52 53 54 55 56

Mukhdum Hasan, Kiln, Basti Bhangian Wali, Jhok Allah Ditta, Jhok Khanwali, Jhok Lal Suhanra, Chela Mal, Basti Phutan, Majnun, Basti Majnun, Basti Narad, Nai Basti, Solan Mil, Shadi Pur, Naichan Wala, Basti Jalfan, Jangal wali, Lewah, Mariwala, Wan Wala, Sanny Wala, Basti Phottai, Bahar di Goth, Pir Sangha, Khan Wala, Jas, Jhok Hassanwali, Jhoke Babian, Abbasnagar, Chak 37 BC, Budh Wala, Basti Bhaiyan Wali, Basti Nale Wali, Fazil Shah Wala, Jhok Phullan Wali, Jhok Rahim Bakhsh Jhabil, Jhok Allah Dita, Jhok Ghulam Ahmad, Tungranwali, Ber Wala, Jhok Ahir, Jhok Ahmadyar, Saif Wali Ladan Wali Basti Hakim, Laran Wali, Kiln, Jan Muhammad Wali, Chak 37 BC (Sharqi), Taragarh, Desi Wala, Mulwarinwala, Basti Kharak Kiln, Mangwaniwali, Hajji Rahim Bakhsh, Akkanwala, Basti Berianwaliti, Jhalarin, Islamabad, Jhabel Wali, Adda Pul Faridabad, Ain Wahan, Kotla Murad Ali, Basti Tar Wala Nurewala, Ghausia Colony, Jaladiwahan, Nowshera, Kiln, Chah Panuwala, Rao Sher Muhammadwala, Toka Jamme Khan, Basti Ropri, Gandli Basti, Okan Wala, Kiln, Nanghi, Kiln, Sardar Wah, Kiln, Pipli Wala, Kiln, Jhok Sahu Shah, Hasil Wala, Hisam Basti, Ziarat Allah Dewara, Basti Rahim, Lala Dera, Chak 36 BC, Basit Fazil, Snarin Wala, Darbar, Pumma Jati, Dera Bakha, Moharan Wala, Dobe Wali, Kumharan Wali, Dera Bakha RS, Tibbi Sari, Kiln, Bahadi Wahan, Quraishiwala, Tahli Wala, Gharowala, Sialanwala, Thakkar wala, Lal Khanwala, Garha More, Nawainwala, Basti Bhate, Sahri, Kiln, Khangah Dohatta, Kotha Utera, Basti Kumharan, Mari Qasim Shah, Basti Sahwan, Moneke Wala, Kiln, Gulpur, Loharanwala, Bher Wala, Kiln, Ameer Wala, Kiln, Sat Marla Sheme, Kiln, Jumman Shah, Jhok Malik Nawan Khuda Bakhsh, Khu, Basti Piran Ditta, Aziz Pur, Chachranwali, Basti Roshan Shah, Amir Wala, Dasti, Kohror, Khan, Haveli Nasir Khan, Nawabpura, Jeepable, Basti Ghulam Qadri, Jhok Ghulam Nab, Basti Takht Bhandi Nasir Khan, Jhok Kasranwan, Jhok Malik Elahi Bakhsh, Kotla Chandan, Basti Arain, Nalewala, Miani Jhabelian, Jhok Khuda Bakhsh, Bhattianwali, Nurwala Khu, Arian Di Bsti, Dera Jand, Basti Faqiria, Gud pura, Bhare wala, Basti Yusaf W, Jhok Machhian Wali, Basti Kumharanwali, Haveli Bhara, Durkhanan, Basti Haji Allah Bakhsh, Basti Qureshian, Basti Godo Wali, Musowala, Kiln, Basti Bangla, Hamid Pur, Basti Jhangi, Jhangi Wala, Sardarwala, Basti Mandan, Wadhawe wala, Kiln, Jhok Tarar, Panunwala, Basti Khan Muhammed, Nai Basti, Kikri wala, Gidran, Shahi Sherki Khangah, Basti Maish, Kiln, Gharibabad, Goth Lashkar, Basti Salan, Lal di Goth, Basti Awan, Dargahpur, Basti Mian, Basti Miani, Basti Kamran, Jandwala, Kiln, Munshi Wala, Basti Kot Nar, Hamaitian, Maq, Gulzar Mahal, Basti Wilayat, Kiln, Kiln, Basti Weslan, Basti Taliwala, Adam Wahan, Basti Hurjan, Godri Badar Muhajir Colony, Islamia Colony, Bahawalpur, Azizabad, Basti Hurian, Kiln, Basti Harchi, Hurian, Jhok Janwar, Goth Bajan, Sharifabad, Sadiq Colony, Basti Riddan, Jinnah Colony, Goth Ghani, Kiln, Kiln, Jagir Kiri, Khanuwali, Basti Lal Kamal, Kiln, Basti Anbar, Kiln, Basti Miani Sahib, Chhamb Kallyar, Faiz Chouk, Basti Jan Muhammad

Structure No.	Existing Flood Protection Structures	Inventory Code
52	Dera Bakha Bund RD: 0-920	P881
53	Jhangiwala Bund RD: 0-17000	P880
54	Empress Bund RD: 0-39550	P879
55	Second Defence Line RD: 90-122400	P882
56	Ahmadpur Flood Bund starts from Labana Chowk and connects at RD. 30 of 1R/AP branch RD: 0+000 - 23+000	P883

CHINA, AFGHANISTAN, IRAN, INDIA, ARABIAN SEA, Gilgit, GILGIT BALTISTAN, KPK, AJK, DISPUTED TERRITORY, Peshawar, Islamabad, Jhelum, FATA, Lahore, Chaman, Quetta, Sibi, PUNJAB, Multan, BALOCHISTAN, Jacobabad, Khuzdar, Sukkur, SINDH, Nawabshah, Hyderabad, Gawadar, Ormara, Karachi

MAP INDEX SUTLEJ RIVER

Faisalabad, Lahore, Kasur, Okara, Pakpattan, Jalalabad, Multan, Vihari, Mailsi, Bahawalnagar, Lodhran, Ahmadpur East

DISTRICT LEVEL MAP

VEHARI DISTRICT, LODHRAN DISTRICT, MULTAN DISTRICT, BAHAWALPUR DISTRICT, Pakki Pul, Mailsi, Jallah Jeem, 08, Kahror Pakka, 09, Khairpur Tamewali, Jalalpur Pirwala, 11, Lodhran, 10, Bahawalpur, Samasatta, Ahmadpur East

Scale 1: 75,000

Kilometers 0 0.5 1 2 3

LEGEND

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LANDUSE MAP
SUTLEJ RIVER

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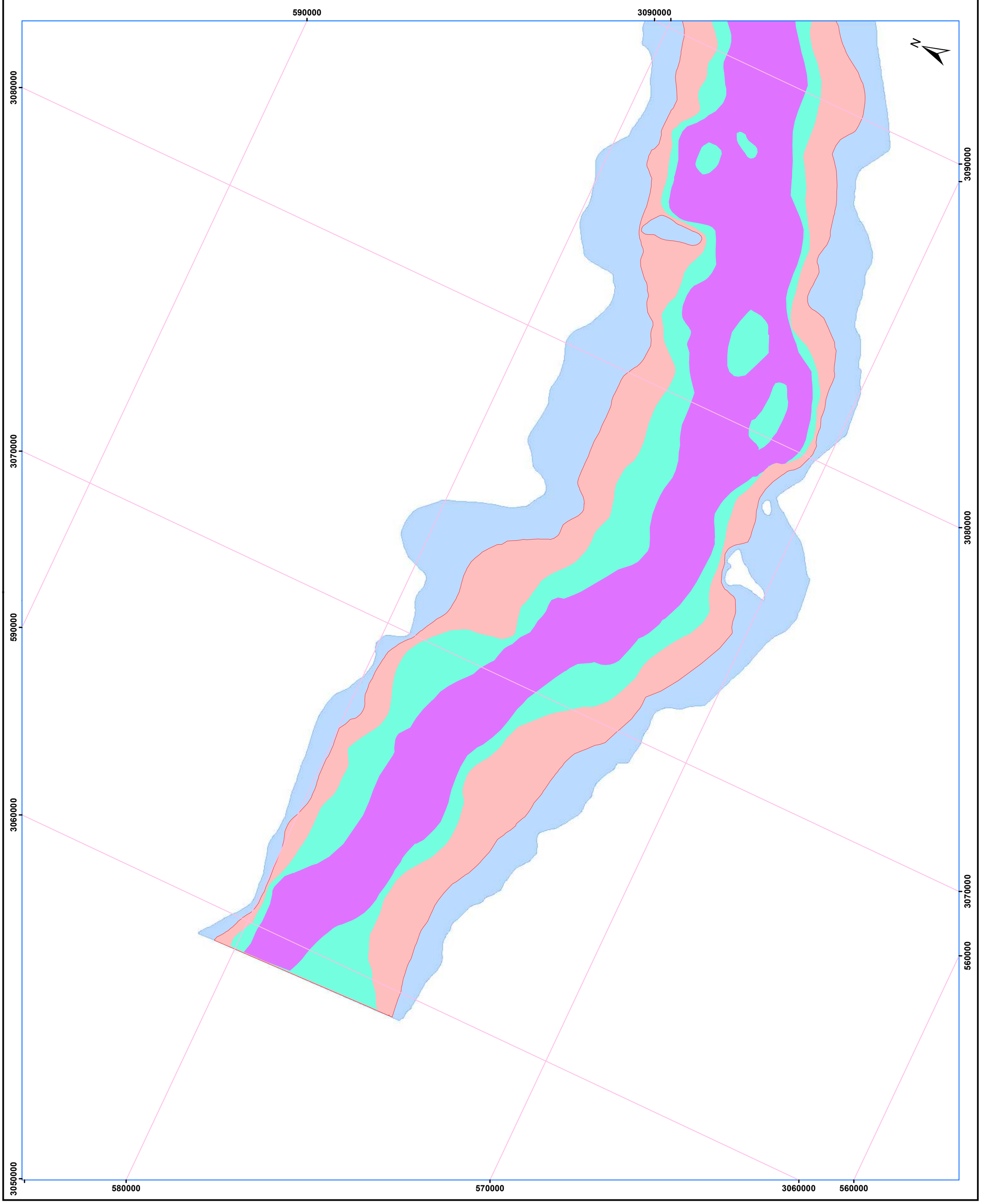
Bahawalpur, Lodhran and MultanDistricts



Scale 1:75,000

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LEGEND

(Flood Risk Zones)

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Note: All flood extents are based on breachless conditions

LODHRAN DISTRICT

MULTAN DISTRICT

BAHAWALPUR DISTRICT

Jalalpur Pirwala Rd
Asranwan Mari
Kot Pir Shahadat
Kramabad
Basti Sawan
Lasari Wala
Chak 89
Jalalpur Disty
Pul Soda Wali
Unkhan Wala
Tar Khan Wala
Sui Wala
Kochhewala
Qurashiwala
Kiln
Kachchi Wala
Tibbi Ghali Wah
Pakka Munna
Jal Wala
Alipur Asar
Nai Basti
Yusuf Wala
Dali Wala
Farid Wala
Chhuto Wala
Chukran
Ismailabad
Kotla More
Lodde Wala
Chanwala
Bahawalpur Mr
Tarkanwali
Totawala
Mariwala
Bahadur Pur
Basti Pir Auliya
Dipal
Jalalpur Pirwala Rd
Basti Lang
Sawewala
Sajawal Pur
Jharjbu
Manhora
Nauraja Bhutta
Pahor Wala
Ghoghi
Hafizwah Minor
Fath Wala
Bhitwai
Basti Arain
Basti Jianwali
Bhandi
Kotla Shah Rasool
Basti Aralan
Kotla Chakar
Basti Jhllanwali
Miani Motha
Jahana Motha
Musa Wala
Fazal Chowk
Shajera Wala
Basti Lala Shahbaz
Chutala
Ilahi Bakhshwala
Saidiwala
Basti Muhammad Bakhsh
Toki Tarkhanan
Basti Hukamdin Wali
Khanwah Ghalwan Rd
Sheikh Wah Mr
Basti Tarkhana
Gagan Natta
Hayat Pur
Jhok Utran
Abbas
Khan Wah
Shoaib Ghulli Rd
Summer Ghullu Rd
Jarrahi Wala
Bahimabad
Murad Pur
Kiln Silband Wala
Bhagri Wala
Basti Channar
Basti Ghulaman
Faiz Chouk
Basti Jan Muhammad
Basti Kameman Lal
Basti Main Muhammad Aslam Lindhar
Basti Tarkhanan
Basti Sarhatta
Basti Mughal Wali
Basti Kallar Wali
Chah Elahi Bakhshwala
Chah Muhammad Ramzan
Jhok Janan
Jhok Warhialian Wali
Jhoke Garde Wali
Basti Kot Dadu Wali
Aminabad
Basti Khwajian Wali
Basti Malikan Wali
Basti Bhatian Wala
Basti Loharan
Basti Pakhiwar
Noushahra
Basti Abdullah Pur
Pipli Rajan
Basti Awan
Basti Mihro
Basti Talwali
Basti Araian
Ali Wahin
Basti Khiambarian Wali
Basti Quraish Wali
Basti Dada Wali
Basti Tarkhan Wali
Siddiqabad
Basti Dararan Wali
Basti Mohanawali
Basti Mihran Wali
Samija Abad
Basti Jhabil
Nakhrol
Shamsabad
Makhwara
Ahmadpur Tappa
Basti Ghulam Farid
Mandhal
Basti Radan
Faruqabad
Pull Farooq Abad Rd
Januwala
Basti Joyan Wali
Basti Mochian Wali
Chak Naurang
Mahdum Wala
Chak Makhdoom Rd
Noshera Pul Farooq Abad Rd
Sultan Wah Dy
Janwala Nosheta Rd
Bahawal Wah Dy
Uch Disty
Ahmadpur Flood Bund
Low line Reach of Ahmadpur Flood Bund
Ahmadpur Flood Bund
Bakka Pur
Basti Dishan
Chak Gobind
Haggani Minor
Fazal TL Minor
Hathejji Rd
Jhangra Bridge
Sutlej River
Basti Pir Lal Wali
Basti Gujjian Wali
Basti Awan Karpal
Basti Devat Wali
Basti Muham Wali
Basti Araian
Basti Nahr Wali
Basti Kamharan
Basti Sehwal Wali
Kalanch Wala
Basti Janglani Wali
Kachi Kothi
Ali Sahib
Basti Kilwawali
Basti Sandian Wali
Miani
Tibba Miani
Sher Girwan
Sher Garwan Rd
Malik Sheer Rd
Basti Wasu Khan Utera
Basti Rang Godam
Basti Rana Goda
Basti Diwan
Basti Utran Rang Pur
Basti Moulawian Wali
Basti Jalalabad
Basti Phoran Wali
Basti Utra
Toki Sikandar
Ahmadpur Flood Bund
Baghdad 1R Dy
Sanjar Wah
Qutbwah 6L Dy
Fateh Wali
Samma Satta Rd
Kiln
Goth Gahna Wali
Fazal Colony
Suk
Mehri Nadir
Basti Haji Ghulam Muhammad
Kachiwah Basti
Samasatta Kiln
Tibba Miani
Sher Girwan
Basti Wasu Khan Utera
Basti Rang Godam
Basti Rana Goda
Basti Diwan
Basti Utran Rang Pur
Basti Moulawian Wali
Basti Jalalabad
Basti Phoran Wali
Basti Utra
Toki Sikandar
Hakra
Basti Sajid Mohmud
Muhanwala
Miani
Basti Kilwawali
Basti Sandian Wali
Basti Kamharan
Basti Jhabil
Basti Muham Wali
Basti Sehwal Wali
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Jal Wala
Tibbi Ghali Wah
Qurashiwala
Kochhewala
Kiln
Kachchi Wala
Sui Wala
Unkhan Wala
Tar Khan Wala
Jalalpur Disty
Pul Soda Wali
Kramabad
Kot Pir Shahadat
Asranwan Mari
Jalalpur Pirwala Rd
Basti Tarkhana
Basti Hukamdin Wali
Basti Sawan
Lasari Wala
Chak 89
Gagan Natta
Hayat Pur
Jhok Utran
Abbas
Khan Wah
Shoaib Ghulli Rd
Summer Ghullu Rd
Jarrahi Wala
Bahimabad
Murad Pur
Kiln Silband Wala
Bhagri Wala
Basti Channar
Basti Ghulaman
Faiz Chouk
Basti Jan Muhammad
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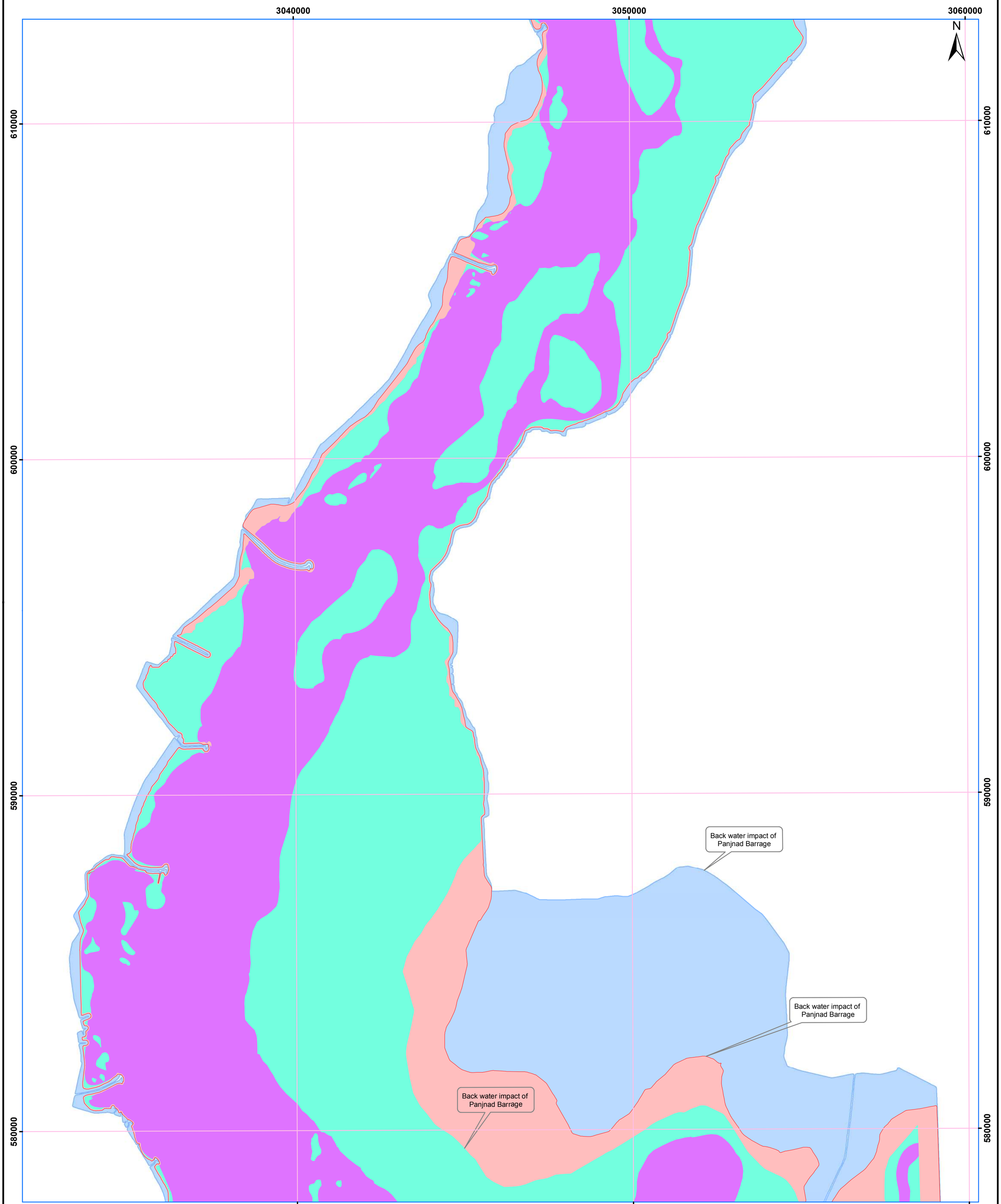
Bhandi
Kotla Shah Rasool
Basti Aralan
Basti Jianwali
Basti Araian
Basti Arain
Kiln



Scale 1:75,000

0 0.5 1 2 3 Kilometers

LEGEND

(Flood Risk Zones)

- High Risk Zone (Inundation Extent corresponding to discharge from 200,000 to 425,000 cusecs in Trimmu-Punjnad reach)
- Medium Risk Zone (Inundation Extent corresponding to discharge from 425,000 to 615,000 cusecs in Trimmu-Punjnad reach)
- Low Risk Zone (Inundation Extent corresponding to discharge from 615,000 to 820,000 cusecs in Trimmu-Punjnad reach)

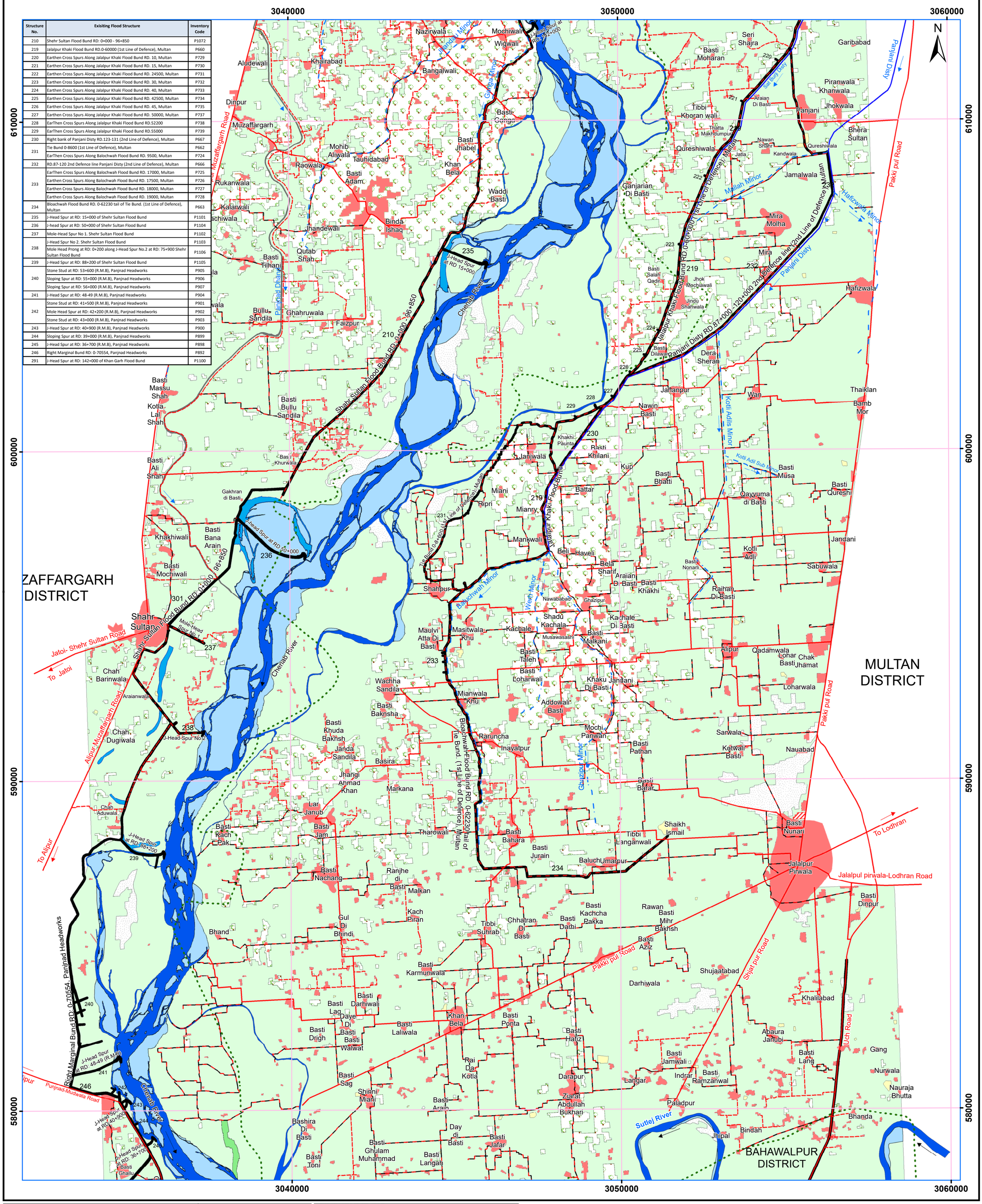
LEGEND

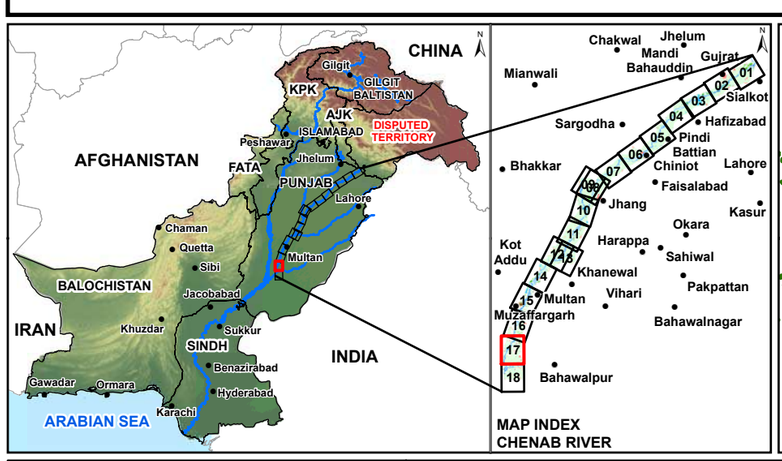
(Inundation Extent Corresponding to Provincial Irrigation Department)

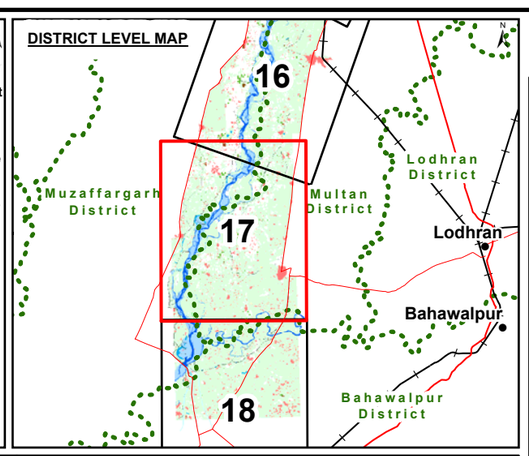
- Medium Flood Extent corresponding to discharge upto 200,000 cusecs in Trimmu-Punjnad reach

Note: All flood extents are based on breachless conditions

Structure No.	Exisiting Flood Structure	Inventory Code
210	Shehr Sultan Flood Bund RD: 0+000 - 96+850	P1072
219	Jalalpur Khaki Flood Bund RD.0-60000 (1st Line of Defence), Multan	P660
220	Earthen Cross Spurs Along Jalalpur Khaki Flood Bund RD. 10, Multan	P729
221	Earthen Cross Spurs Along Jalalpur Khaki Flood Bund RD. 15, Multan	P730
222	Earthen Cross Spurs Along Jalalpur Khaki Flood Bund RD. 24500, Multan	P731
223	Earthen Cross Spurs Along Jalalpur Khaki Flood Bund RD. 30, Multan	P732
224	Earthen Cross Spurs Along Jalalpur Khaki Flood Bund RD. 40, Multan	P733
225	Earthen Cross Spurs Along Jalalpur Khaki Flood Bund RD. 42500, Multan	P734
226	Earthen Cross Spurs Along Jalalpur Khaki Flood Bund RD. 45, Multan	P735
227	Earthen Cross Spurs Along Jalalpur Khaki Flood Bund RD. 50000, Multan	P737
228	EarThen Cross Spurs Along Jalalpur Khaki Flood Bund RD.52200	P738
229	EarThen Cross Spurs Along Jalalpur Khaki Flood Bund RD.55000	P739
230	Right bank of Panjani Disty RD.123-131 (2nd Line of Defence), Multan	P667
231	Tie Bund 0-8600 (1st Line of Defence), Multan	P662
	EarThen Cross Spurs Along Balochwah Flood Bund RD. 9500, Multan	P724
232	RD.87-120 2nd Defence line Panjani Disty (2nd Line of Defence), Multan	P666
233	EarThen Cross Spurs Along Balochwah Flood Bund RD. 17000, Multan	P725
	Earthen Cross Spurs Along Balochwah Flood Bund RD. 17500, Multan	P726
	Earthen Cross Spurs Along Balochwah Flood Bund RD. 18000, Multan	P727
	Earthen Cross Spurs Along Balochwah Flood Bund RD. 19000, Multan	P728
234	Bloachwah Flood Bund RD. 0-62230 tail of Tie Bund. (1st Line of Defence), Multan	P663
235	J-Head Spur at RD: 15+000 of Shehr Sultan Flood Bund	P1101
236	J-head Spur at RD: 50+000 of Shehr Sultan Flood Bund	P1104
237	Mole-Head Spur No 1. Shehr Sultan Flood Bund	P1102
238	J-Head Spur No 2. Shehr Sultan Flood Bund	P1103
	Mole Head Prong at RD: 0+200 along J-Head Spur No.2 at RD: 75+900 Shehr Sultan Flood Bund	P1106
239	J-Head Spur at RD: 88+200 of Shehr Sultan Flood Bund	P1105
240	Stone Stud at RD: 53+600 (R.M.B), Panjnad Headworks	P905
	Sloping Spur at RD: 55+000 (R.M.B), Panjnad Headworks	P906
	Sloping Spur at RD: 56+000 (R.M.B), Panjnad Headworks	P907
241	J-Head Spur at RD: 48-49 (R.M.B), Panjnad Headworks	P904
242	Stone Stud at RD: 41+500 (R.M.B), Panjnad Headworks	P901
	Mole Head Spur at RD: 42+200 (R.M.B), Panjnad Headworks	P902
	Stone Stud at RD: 43+000 (R.M.B), Panjnad Headworks	P903
243	J-Head Spur at RD: 40+900 (R.M.B), Panjnad Headworks	P900
244	Sloping Spur at RD: 39+000 (R.M.B), Panjnad Headworks	P899
245	J-Head Spur at RD: 36+700 (R.M.B), Panjnad Headworks	P898
246	Right Marginal Bund RD: 0-70554, Panjnad Headworks	P892
291	J-Head Spur at RD: 142+000 of Khan Garh Flood Bund	P1100







Source of Information:
1. Topographic sheets of Survey of Pakistan
2. Freely available satellite imagery
3. FPSP-II GIS data
4. Shuttle Radar Topographic Mission Data (Resolution:90 m)
5. Survey data of Flood protection embankments and structures

Coordinate System
PROJECTION: Lambert Conformal Conic (LMPAK-I) ,
DATUM: WGS84
Grid Reference is in meters

Date: January 29, 2016 By M.Waseem Saeed

Scale 1: 75,000

0 0.5 1 2 3 Kilometers

LEGEND

- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
- Drain
- Distributary
- Minor
- Nallah
- Wah
- District Boundary
- Provincial Boundary
- International Boundary
- Barren Area
- Bund / Spur
- Cultivated Area
- Flood Plain
- Grass
- Graveyard
- Hill
- Main/Link Canal, Escape, Spillway
- Motorway
- Mud
- Nallah (Perennial)
- Nallah (Non Perennial)
- Orchard
- Planned Urban Area
- Range Forest
- River
- Sand Dunes
- Town/Village/Settlement
- Water Body

DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

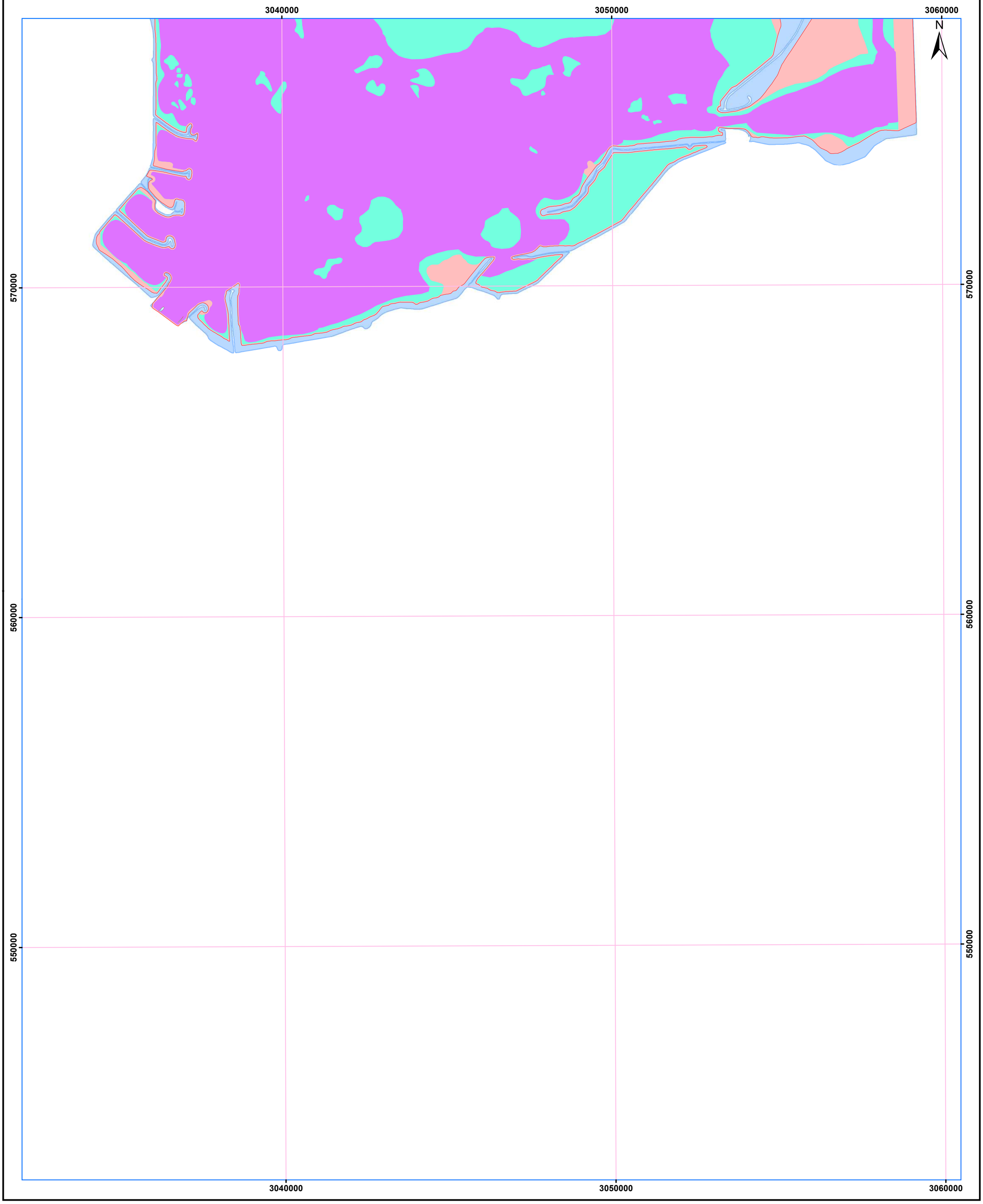
LANDUSE MAP
CHENAB RIVER

GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
BUILDING AND ADVISORY SERVICES PROJECT (WCAP)

Consultants:
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
1-C , Block-N, Model Town Extension,
Lahore - Pakistan.

in association with

DELTARES,THE NETHERLANDS



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LEGEND

(Inundation Extent Corresponding to Provincial Irrigation Department)

- Medium Flood Extent corresponding to discharge upto 200,000 cusecs in Trimmu-Punjnad reach

Note: All flood extents are based on breachless conditions

3040000 3050000 3060000

570000 560000 550000

MULTAN DISTRICT

MUZAFFARGARH DISTRICT

BAHAWALPUR DISTRICT

BAHAWALPUR DISTRICT

Panjnad Barrage Breaching Section at RD 29-30 of RRB

Panjnad Barrage Breaching Section at RD 19-20 of RMB

Panjnad Barrage

Old Right Marginal Bund RD: 10-35+230

Right Marginal Bund RD: 0-70554

To Alipur

J-Head Spur at RD: 23+500

J-Head Spur at RD: 18+320

J-Head Spur at RD: 16+500

J-Head Spur at RD: 12+750

Chenab River

Ravi & Sutlej

Left Guide Bund

J-Head Spur at RD: 6+500

Left Marginal Bund RD: 0 - 65+169

Old Left Marginal Bund RD: 45+000 - 65+000

Left Marginal Bund RD: 45+169

Sutlej River

New Bridge over Sutlej River

Uch Road

UCH DISTY

UCH Minor

Jalalpur Road

Alipur- Uch Sharif Road

Shikrani Flood Bund RD: 0+000 - 40+000, Khanpur

Panjnad Main Canal

Abbassi Canal

Abbassi Link Canal

Halim Wah Minor

Haleem Minor

Uch Bypass

Ahmedi Wah Minor

Haqim Minor

Haogan Minor

Laran Sub Minor

Lahori Sub Minor

Besal Minor

Rasul Minor

Wah Disty

Sultan Disty

Kadir Minor

Ghous Minor

D/S Colony Protection Bund RD: 0-15000

Shikrani Disty

Jam Khan Di Basti

Basti Gabbal

Basti Chalbani

Basti Jhabil

Basti Qayyum Khan

Basti Mochian

Shahan Di Basti

Basti Lal

Basti Dadpotra

Basti Sultan

Bast Baluch

Nur Pur Jadid

Mihrabad

Basti Kachchi

Kajjal Miani

Bindah Kot Imam Din

Jhabil Ghulam Farid

Basti Arain

Basti Tanwian

Basti Muhammad Ali

Basti Nur Muhammad

Basti Chakar

Muhammad Kabirabad

Adil Khan

Basti Adil Khan

Basti Panwan

Binda Paolian

Gadian Di Basti

Mahbubabad

Basti Nar

Qaster Di Basti

Tahraned Bisharat

Hassu Di Basti

Rattar Lal Khan

Dhorket

Qadirpur

Polian Baran Di Basti

Inayatpur

Basti Pir Bakhsh

Basti Lang

Basti Bakhri

Basti Baluch

Basti Karim Shah

Basti Arain

Basti Mehdi Baluch

Basti Dhav

Pirzada

Basti Nurwali

Basti Munir Baloch

Basti Makwal

Sonak Bela

Basti Thekedaran

Basti Khaki

Halimpur

Haider Pur

Haidarpur

Basti Jawar

Zinda Lal

Basti Mumbewala

Basti Thath Waran

Basti Mihrwali

Basti Sardar Khan Bali

Basti Zahidan

Basti Kalarwali

Pakke Di Basti

Basti Tanwari

Basti Jalalwali

Khurampur

Basti Jhalin

Basti Jiwan Khan

Basti Khanan Khan

Basti Jangre

Bahawalpur Chalwan

Bahawalpur Ghallu

Maduwala

Basti Jamalian

Basti Ismailpura

Sari Basti

Basti Borian

Puran Di Basti

Julian Di Basti

Khairpur Daha

Khairpur Daha Chauk

Basti Illahi Bakhsh Jam

Bangla

Basti Arain

Basti Hatheji

Khar Di Basti

Basti Hafiz Kamal Din

Basti Nunyare

Basti Tarkhan

Basti Bogari

Shaikhan Di Basti

Hamidabad

Basti Malik Jiwan Khan

Ilyasabad

Basti Nur Muhammmad

Gul Khan Di Basti

Basti Haji Faqir Bakhsh

Basti Warn

Zinda Lal

Basti Sapair Khan

Koke Di Basti

Basti Muradwala

Basti Nasimwali

Basti Gulzar Khan

Basti Pondian

Kotla Shaikhan Da

Ganderian Di Basti

Basti Hussainwala

Basti Rani

Basti Sufi Abdullah

Kotla Rahman Shah

Basti Mid Makhdoum

Basti Jahanian Di Basti

Basti Uch Bukhari

Basti Jangali

Budhon Di Basti

Basti Bahawalpur Ghallu

Basti Janran

Basti Mopal

Basti Arain

Basti Parharan

Basti Loharian

Bashirabad

Mochian Di Basti

Basti Lahr

Qureshi Di Basti

Tibbewala Khu

Naian Di Basti

Basti Mekari

Kahore Di Basti

Basti Parhar

Basti Gul Wan

Basti Tarkhan

Diawraywala Khu

Basti Wahi Jogian

Basti Mochiwali

Basti Lodhran

Lodhran

Huwala Khu

Nawan Khu

Basti Baiday

Basti Jogianwali

Basti Warahen

Manzurabad

Basti Channeran

Jam Khan Di Basti

Jam Palowali

Basti Warrara

Ramzanabad

Basti Bhatti

Channeranwali

Basti Rawal

Basti Maiwali

Maulwi Di Basti

Basti Shah

Channeranwali

Khu Doatta

Basti Arbi

Basti Mianwali

Basti Kamarian

Basti Khushi Muhammad

Basti Maril

Kotla Sultan

Kotla Musa Khan

Baluchan Di Basti

Basti Haidar Khan Baluch

Basti Arainwali

Basti Allah Wasaia

Irshadabad

Basti Nunwali

Basti Haji Bashir

Pathanwala Khu

Basti Mochiwali

Basti Mohna

Basti Nanwali

Basti Arainwali

Haji Dakhsh Wali Basti

Maulana Wala Khu

Basti Jam Bakhsh

Basti Abdul

Basti Arabi

Basti Malkani

Hamshirah Wali Basti

Usmanpura

Basti Ghauspur

Basti Sultan

Basti Baloch

Basti Jangali

Basti Lal

Basti Dadpotra

Basti Sultan

Basti Baluch

Basti Gabbal

Basti Chalbani

Basti Jhabil

Basti Qayyum Khan

Basti Mochian

Shahan Di Basti

Basti Mehdi Baluch

Basti Karim Shah

Basti Baluch

Basti Bakhri

Basti Pir Bakhsh

Basti Lang

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Basti Jalalwali

Basti Jiwan Khan

Basti Khanan Khan

Basti Jangre

Basti Arain

Basti Hatheji

Basti Janran

Basti Mopal

Basti Arain

Basti Parharan

Basti Loharian

Basti Lahr

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Basti Tarkhan

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Basti Shah

Basti Arbi

Basti Mianwali

Basti Kamarian

Basti Khushi Muhammad

Basti Maril

Basti Haidar Khan Baluch

Basti Arainwali

Basti Allah Wasaia

Basti Nunwali

Basti Haji Bashir

Basti Mochiwali

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Basti Parharan

Basti Loharian

Basti Lahr

Basti Parhar

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Basti Maiwali

Basti Shah

Basti Arbi

Basti Mianwali

Basti Kamarian

Basti Khushi Muhammad

Basti Maril

Basti Haidar Khan Baluch

Basti Arainwali

Basti Allah Wasaia

Basti Nunwali

Basti Haji Bashir

Basti Mochiwali

Basti Mohna

Basti Nanwali

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Basti Baloch

Basti Jangali

Basti Lal

Basti Dadpotra

Basti Sultan

Basti Baluch

Basti Gabbal

Basti Chalbani

Basti Jhabil

Basti Qayyum Khan

Basti Mochian

Shahan Di Basti

Basti Mehdi Baluch

Basti Karim Shah

Basti Baluch

Basti Bakhri

Basti Pir Bakhsh

Basti Lang

Basti Arain

Basti Jawar

Basti Mumbewala

Basti Thath Waran

Basti Mihrwali

Basti Sardar Khan Bali

Basti Zahidan

Basti Kalarwali

Pakke Di Basti

Basti Tanwari

Basti Jalalwali

Basti Jiwan Khan

Basti Khanan Khan

Basti Jangre

Basti Arain

Basti Hatheji

Basti Janran

Basti Mopal

Basti Arain

Basti Parharan

Basti Loharian

Basti Lahr

Basti Parhar

Basti Gul Wan

Basti Tarkhan

Basti Tarkhan

Basti Wahi Jogian

Basti Mochiwali

Basti Lodhran

Basti Jogianwali

Basti Warahen

Basti Channeran

Basti Bhatti

Basti Warrara

Basti Rawal

Basti Maiwali

Basti Shah

Basti Arbi

Basti Mianwali

Basti Kamarian

Basti Khushi Muhammad

Basti Maril

Basti Haidar Khan Baluch

Basti Arainwali

Basti Allah Wasaia

Basti Nunwali

Basti Haji Bashir

Basti Mochiwali

Basti Mohna

Basti Nanwali

Basti Arainwali

Basti Jam Bakhsh

Basti Abdul

Basti Arabi

Basti Malkani

Basti Ghauspur

Basti Sultan

Basti Baloch

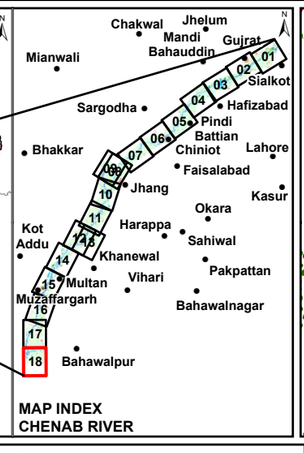
Basti Jangali

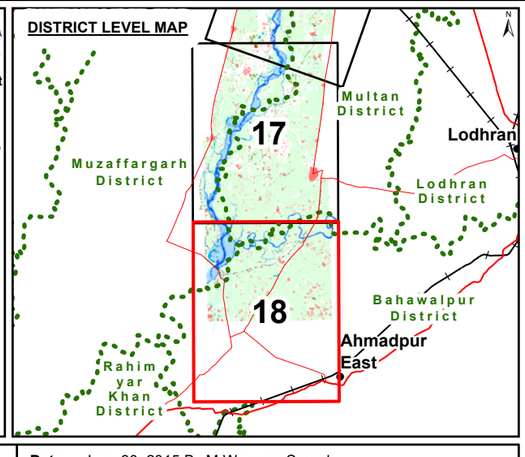
Structure:	PANJNAD
Very High Risk Flood Magnitude	up to 200,000
*High Risk Flood Magnitude	200,000 - 420,000
*Medium Risk Flood Magnitude	420,000 - 640,000
*Low Risk Flood Magnitude	640,000 - 870,000

Note: All values are in ft^3/sec

* Results based on frequency analysis carried out under current studies using observed peak discharges upto

Structure No.	Exisiting Flood Structure	Inventory Code
246	Right Marginal Bund RD: 0-70554, Panjnad Headworks	P892
247	Old Right Marginal Bund RD: 10-35230, Panjnad Headworks	P893
248	J-Head Spur at RD: 23+500 (R.M.B), Panjnad Headworks	P897
249	J-Head Spur at RD: 18+320 (R.M.B), Panjnad Headworks	P896
250	J-Head Spur at RD: 16+500 (R.M.B), Panjnad Headworks	P895
251	J-Head Spur at RD: 12+750 (R.M.B) (Newly constructed), Panjnad Headworks	P894
252	Right Guide Bund of Panjnad Headworks	P889
253	Left Marginal Bund RD: 0 - 65169, Panjnad Headworks	P908
254	Old Left Marginal Bund RD: 45-65, Panjnad Headworks	P909
255	J-Head Spur at RD: 6+500 (L.M.B), Panjnad Headworks	P910
256	Left Guide Bund of Panjnad Headworks	P890
257	Sloping Spur at RD: 2+750 (C.P.B), Panjnad Headworks	P911
258	Mole Head Spur at RD: 5+500 (C.P.B), Panjnad Headworks	P912
	Sloping Spur at RD: 6+700 (C.P.B), Panjnad Headworks	P913
259	Sloping Spur at RD: 8+500 (C.P.B), Panjnad Headworks	P914
	Sloping Spur at RD: 9+500 (C.P.B), Panjnad Headworks	P915
	Sloping Spur at RD: 10+000 (C.P.B), Panjnad Headworks	P916
260	D/S Colony Protection Bund RD: 0-15000, Panjnad Headworks	P891
261	Shikrani Flood Bund RD: 0+000 - 40+000, Khanpur	P966





Scale 1: 75,000

0 0.5 1 2 3 Kilometers

LEGEND

- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
- Drain
- Distributary
- Minor
- Nallah
- Wah
- District Boundary
- Provincial Boundary
- International Boundary
- Barren Area
- Bund / Spur
- Cultivated Area
- Flood Plain
- Grass
- Graveyard
- Hill
- Main/Link Canal, Escape, Spillway
- Motorway
- Mud
- Nallah (Perennial)
- Nallah (Non Perennial)
- Orchard
- Planned Urban Area
- Range Forest
- River
- Sand Dunes
- Town/Village/Settlement
- Water Body

Source of Information:
1. Topographic sheets of Survey of Pakistan
2. Freely available satellite imagery
3. FPSP-II GIS data
4. Shuttle Radar Topographic Mission Data (Resolution:90 m)
5. Survey data of Flood protection embankments and structures

Coordinate System
PROJECTION: Lambert Conformal Conic (LMPAK-I) ,
DATUM: WGS84
Grid Reference is in meters

Date: June 30, 2015 By M.Waseem Saeed

DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

LANDUSE MAP
CHENAB RIVER

GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
BUILDING AND ADVISORY SERVICES PROJECT (WCAP)

Consultants:
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
1-C , Block-N, Model Town Extension,
Lahore - Pakistan.

in association with

DELTARES,THE NETHERLANDS

3300000 720000 3310000 710000 3320000 700000

720000 3290000 710000 3280000 700000 3270000 690000

HISTORIC HIGH FLOOD MAGNITUDES THROUGH BREACHES IN FLOOD EMBANKMENTS

Year	Discharge (Cusecs)
1955	175,000
1988	100,000

(Source: Flood Fighting Plan Suleimanki 2013)

Pakpattan Canal is breached to allow water to go back into the Sutlej River. (Source: Flood Fighting Plan Suleimanki 2013)

Adda Bareka - Haveli Road

As per Flood Fighting Plan Suleimanki 2013, Pakpattan Canal is initially breached at:
RD 24-25
RD 29-30
RD 46-47

If the Flood water reaches along right bank of Pakpattan Canal below RD 52000 , 3 addiational cuts are made between:
RD 62-63, 67-68 and 99-100.
(Source: Flood Fighting Plan Suleimanki 2013)

Breaching Section

Suleimanki Barrage

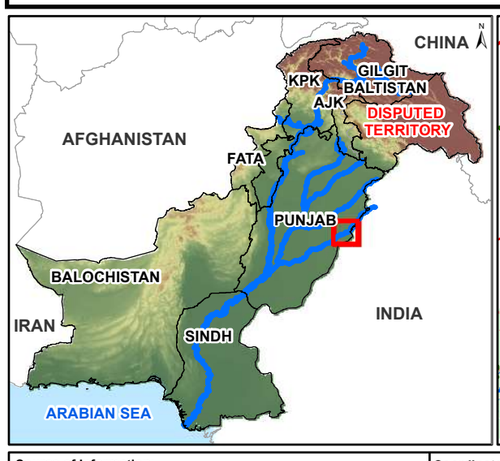
PID FLOOD LIMITS AT SULEIMANKI BARRAGE

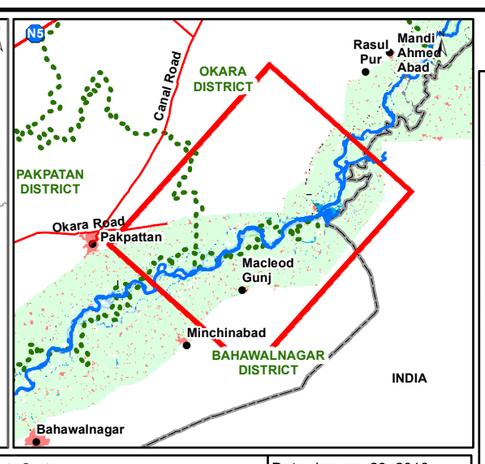
(DESIGN CAPACITY OF RASUL BARRAGE : 325,000 Cusecs)

Limit (Cusec)	Classification
Upto 50,000	Normal
50,000 - 80,000	Low Flood
80,000 - 120,000	Medium Flood
120,000 - 175,000	High Flood
175,000 - 225,000	Very High Flood
225,000 and above	Exceptionally High Flood

Source: * As approved by the Technical Committee on 15 May 1989.

3270000 680000 3280000 670000 3290000





Source of Information:
1. Topographic sheets of Survey of Pakistan
2. Freely available satellite imagery
3. FPSP-II GIS data
4. Shuttle Radar Topographic Mission Data (Resolution:90 m)
5. Survey data of Flood protection embankments and structures

Coordinate System
PROJECTION: Lambert Conformal Conic (LMPAK-I) ,
DATUM: WGS84
Grid Reference is in meters

Date: January 29, 2016

Scale 1: 100,000
0 0.5 1 2 3 Kilometers

LEGEND

- Designated Breaching Section
- Designated Breach Location at Canal
- Flood Water Flow Direction
- Drainage (Based on SRTM Data)

Inundation Extent Corresponding to Provincial Irrigation Department
- Medium Flood Extent at discharge of 80,000 cusec in Ferozpur-Suleimanki Reach

Risk Zones
- High Risk Zone (Inundation Extent Corresponding to discharge of 165,000 cusecs below Ferozpur)
- Medium Risk Zone (Inundation Extent Corresponding to discharge of 340,000 cusecs below Ferozpur)
- Low Risk Zone (Inundation Extent Corresponding to discharge of 390,000 cusecs below Ferozpur)

- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
- Drain
- Distributary
- Minor
- Nallah
- Wah
- District Boundary
- Provincial Boundary
- International Boundary

- Barren Area
- Bund / Spur
- Cultivated Area
- Flood Plain
- Grass
- Graveyard
- Hill
- Main/Link Canal, Escape, Spillway
- Motorway
- Mud
- Nallah (Perennial)
- Nallah (Non Perennial)
- Orchard
- Planned Urban Area
- Range Forest
- River
- Sand Dunes
- Town/Village/Settlement
- Water Body

DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

SULEIMANKI BARRAGE BREACHING SECTION MAP

GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY BUILDING AND ADVISORY SERVICES PROJECT (WCAP)

Consultants:
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
1-C , Block-N, Model Town Extension,
Lahore - Pakistan.

in association with

DELTARES,THE NETHERLANDS

Please Note:
1). Drainage calculations are based on SRTM (Shuttle Radar Topography Mission) data.
2). Background is Landsat Imagery

Murphy Spur. RD 3+000 - 5+000 is breached to allow water to go back into the Sutlej River.
(Source: Flood Fighting Plan Islam Headworks 2013)

Right Retired Embankment. RD 11+000 - 13+000 is breached to allow water to go back into the Sutlej River.
(Source: Flood Fighting Plan Islam Headworks 2013)

HISTORIC FLOODS IN WHICH BRACH OCCURED

Year	Discharge (Cusecs)
1955	150,000
1988	150,000

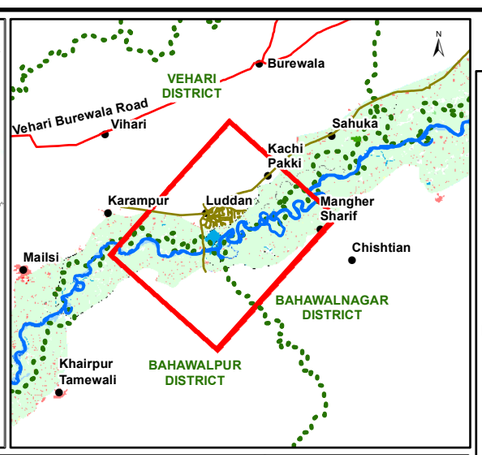
(Source: Flood Fighting Plan Islam Barrage 2013)

PID FLOOD LIMITS AT ISLAM BARRAGE

(DESIGN CAPACITY OF ISLAM BARRAGE : 300,000 Cusecs)

Upto 50,000 Cusecs	Normal
50,000 Cusecs to 80,000 Cusecs	Low Flood
80,000 Cusecs to 120,000 Cusecs	Medium Flood
120,000 Cusecs to 175,000 Cusecs	High Flood
175,000 Cusecs to 225,000 Cusecs	Very High FIlood
225,000 Cusecs and above	Exceptionally High Flood

* As approved by the Flood Commission in its 72nd meeting.



Source of Information:
1. Topographic sheets of Survey of Pakistan
2. Freely available satellite imagery
3. FPSP-II GIS data
4. Shuttle Radar Topographic Mission Data (Resolution:90 m)
5. Survey data of Flood protection embankments and structures

Coordinate System
PROJECTION: Lambert Conformal Conic (LMPAK-I) ,
DATUM: WGS84
Grid Reference is in meters

Date: January 29, 2016

Scale 1: 75,000

Kilometers 0 0.5 1 2 3

LEGEND

- Designated Breaching Section
- Designated Breach Location at Canal
- Flood Water Flow Direction
- Drainage (Based on SRTM Data)

INUNDATION EXTENT CORRESPONDING TO PROVINCIAL IRRIGATION DEPARTMENT
- Medium flood limit at discharge of 80,000 cusecs in Suleimanki-Islam Reach

RISK ZONES
- High Risk Zone (Inundation Extent Corresponding to discharge of 165,000 cusecs below Ferozpur)
- Medium Risk Zone (Inundation Extent Corresponding to discharge of 340,000 cusecs below Ferozpur)
- Low Risk Zone (Inundation Extent Corresponding to discharge of 390,000 cusecs below Ferozpur)

LANDUSE FEATURES
- National Highway
- Metalled Road
- Un-metalled Road
- Track
- Railway Line
- Canal
- Branch
- Drain
- Distributary
- Minor
- Nallah
- Wah
- District Boundary
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- International Boundary
- Barren Area
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- Nallah (Perennial)
- Nallah (Non Perennial)
- Orchard
- Planned Urban Area
- Range Forest
- River
- Sand Dunes
- Town/Village/Settlement
- Water Body

Please Note:
1). Drainage calculations are based on SRTM (Shuttle Radar Topography Mission) data.
2). Background is Landsat Imagery

DEVELOPMENT OF NATIONAL FLOOD PROTECTION PLAN-IV (NFPP-IV) AND RELATED STUDIES TO ENHANCE THE CAPACITY OF FEDERAL FLOOD COMMISSION-FFC

ISLAM BARRAGE
BREACHING SECTION MAP

GOVERNMENT OF PAKISTAN
MINISTRY OF WATER AND POWER
PROJECT MANAGEMENT & POLICY IMPLEMENTATION UNIT (PMPIU)
WATER SECTOR CAPACITY
BUILDING AND ADVISORY SERVICES PROJECT (WCAP)

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1-C , Block-N, Model Town Extension,
Lahore - Pakistan.

in association with

DELTARES,THE NETHERLANDS

3030000 3040000 3050000 3060000

590000 580000 570000 560000

N

MUZAFFARGARH DISTRICT

MULTAN DISTRICT

BAHAWALPUR DISTRICT

HISTORIC HIGH FLOOD MAGNITUDES THROUGH BREACHS IN FLOOD EMBANKMENTS

Year	Discharge (Cusecs)
1973	802,000
1992	812,000

(Source: Flood Fighting Plan Punjnad 2013)

PID FLOOD LIMITS AT PUNJNAD BARRAGE

(DESIGN CAPACITY OF PUNJNAD: 700,000 Cusecs)

Limit (cusecs)	Classification
Upto 1,50,000	Normal
Above 150,000	Low Flood
Above 200,000	Medium Flood
Above 300,000	High Flood
Above 450,000	Very High Flood
Above 500,000	Exceptionally High Flood

Source As Approved by Federal Flood Commission and PID

Structure:	PANJNAD
*High Risk Flood Magnitude	418,000
*Medium Risk Flood Magnitude	639,000
*Low Risk Flood Magnitude	870,000

Note: All values are in ft³/sec
* Results based on frequency analysis carried out under current studies using observed peak discharges upto 2013/14

Punjnad Barrage Breaching Section at RD: 29-30 of RMB

Punjnad Barrage Breaching Section at RD: 19-20 of RMB

Panjnad Barrage

Chenab River

Sutlej River

Shahr Sultan Flood Bund RD: 0-4800

Bloadanwah Flood Bund RD: 0-62230 (1st Line of Defence) Multan

Left Marginal Bund RD: 0 - 65+169

Right Marginal Bund RD: 0-70554

Old Right Marginal Bund RD: 10-35+230

Pakki pul Road

Jalalpul pirwala-Lodhran Road

Uch Road

Shujaatabad Road

Alipur-Uch Sharif Road

Ghaniwan Road

Ghani Goth Road

Jatoi-Shehr Sultan Road

Alipur-Muzaffargarh Road

To Jatoi

To Alipur

To Lodhran

Uch Bypass

Abbasi Link Canal

Qadirpur Canal

Sutlej Valley Project Canal

Uch Distty.

Sultan Distty

Wah Distty

Besal Minor

Haqim Minor

Halim Wah Minor

Ahmed Wah Minor

Haogan Minor

Lahori Sub Minor

Ghous Minor

Kadir Minor

Rasul Minor

Qazian Minor

Gurzipur Minor

Bachwan Minor

Weir Minor

Khakiwali Minor

Shahpur Minor

Chak Minor

UCH Minor

Jhangi Ahmad Khan

Basti Khuda Bakhsh

Basti Baksha

Wachha Sandila

Janda Sandila

Basira

Markana

Lar Janub

Basti Jam

Basti Kach Pak

Tharowali

Basti Nachang

Ranjhe di Basti

Malkan

Kach Piran

Gul Di Bhindi

Bhand

Basti Karmunwala

Basti Darhiwali

Basti Lag Daye Di Basti

Basti Drigh

Basti Walwat

Basti Laliwala

Basti Sag

Shinni Miani

Basti Arain

Bashira Di Basti

Basti Toni

Basti Ghulam Muhammad

Basti Langah

Day di Basti

Basti Jafar

Kajjal Miani

Bindah Kot Imam Din

Basti Kachchi

Jhabil Ghulam Farid

Basti Arain

Basti Tanwian

Basti Muhammad Ali

Basti Chakar

Muhammad Kabirabad

Adil Khan

Basti Adil Khan

Basti Nar

Mahbubabad

Basti Panwan

Binda Paolian

Gadian Di Basti

Hassu Di Basti

Tahranee Bisharat

Qaster Di Basti

Khairpur Daha

Basti Nur Muhammad

Basti Sufi Abdullah

Kotla Rahman Shah

Basti Mid Makhdoum

Basti Rani

Basti Muradwala

Basti Nasimwali

Basti Gulzar Khan

Koke Di Basti

Basti Sapair Khan

Kotla Shaikhan Da

Ganderian Di Basti

Basti Hussainwala

Basti Zahidan

Halimpur

Basti Warn

Gul Khan Di Basti

Basti Haji Faqir Bakhsh

Zinda Lal

Haider Pur

Basti Munir Baloch

Basti Nurwali

Pirzada

Basti Dhav

Sonak Bela

Basti Makwal

Basti Thekedaran

Basti Khaki

Basti Mehdi Baluch

Basti Qayyum Khan

Basti Jhabil

Basti Mochian

Shahan Di Basti

Basti Lal

Basti Dadpotra

Basti Sultan

Basti Baluch

Nur Pur Jadid

Mihrabad

Basti Jangali

Basti Uch Bukhari

Budhon Di Basti

Jahmanian Di Basti

Basti Mid Makhdoum

Basti Karim Shah

Basti Baluch

Basti Pir Bakhsh

Basti Lang

Basti Bakhri

Inayatpur

Polian

Baran Di Basti

Basti Jawar

Basti Mumbewala

Basti Thath Waran

Basti Minwali

Basti Sardar Kha

Basti Nunyare

Basti Tarkhan

Basti Bogari

Basti Mekari

Basti Parhar

Basti Gul Wan

Basti Tarkhan

Basti Malik Jiwan Khan

Ilyasabad

Basti Nur Muhammmad

Hamidabad

Shaikhan Di Basti

Diawraywala Khu

Basti Lohrian

Basti Lahr

Basti Parharan

Tibbewala Khu

Naian Di Basti

Mochian Di Basti

Qureshi Di Basti

Kahore Di Basti

Basti Mopal

Basti Arain

Basti Jamian

Basti Hatheji

Khar Di Basti

Basti Arain

Basti Hafiz Kamal Din

Basti Jam Bakhsh

Basti Nanwali

Basti Ghauspur

Basti Maikani

Basti Arainwali

Basti Aijan Wasaia

Basti Araimwali

Basti Mohna Wali Basti

Basti Jam Bakhsh

Basti Maulana Wala Khu

Basti Arainwali

Basti Haji Bashir

Basti Abdul

Basti Arabi

Irshadabad

Pathanwala Khu

Basti Nunwali

Basti Ismailpura

Basti Jamalian

Maduwala

Basti Jiwan Khan

Basti Khanan Khan

Basti Jangir

Bahawalpur Chalwan

Bahawalpur Ghallu

Basti Tanwari

Basti Jalalwali

Basti Kalarwali

Pakke Di Basti

Khurampur

Basti Jhalin

Basti Jurain

Basti Bahara

Basti Nunari

Jalalpur Pirwala

Basti Dinpur

Tibbi Langanwali

Shaikh Ismail

Baluch Umarpur

Basti Patran

Basti Barat

Kotwali Basti

Nauabad

Sanwala

Loharwala

Qadamwala

Lohar Basti

Chak Jhamat

Alipur

Basti Khakhi

Basti Arain

Basti Di Basti

Basti Nonarki

Kotli Adli

Jandani

Sabuwala

Raihan Di Basti

Basti Malkani

Musawasasni

Kachale Di Basti

Kachala

Shadu Kachala

Nawabadad

Ghazipur

Araian Di Basti

Bela Shahi

Mankwali

Beli Haveli

Miany

Ripri

Basti Bana Arain

Basti Mochiwali

Khakhiwali

Shahr Sultan

Chah Barinwala

Araianwala

Chah Dugiwala

Chah Aduwala

Basti Ghallu

Basti Nachangi

Basti Daye Di Basti

Basti Walwat

Basti Lang

Basti Jamwali

Basti Ramzanwal

Basti Lang

Basti Nunari

Basti Dinpur

Basti Arain

Basti Hatheji

Basti Parharan

Basti Gul Wan

Basti Tarkhan

Basti Arain

Basti Jamian

Basti Mopal

Basti Arain

Basti Lahr

Basti Parharan

Basti Khakhi

Basti Araian Di Basti

Basti Nonarki

Basti Khakhi

Basti Khakhi

Basti Malkani

Basti Talieh

Basti Loharwali

Basti Addowali Basti

Basti Patran

Basti Barat

Inundation Depth of Settlements along Sutlej River

Sutlej River - Sheet No. 1

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 80,000 Cusec below Ferozpur		Inundation Depth at Discharge of 165,000 Cusec below Ferozpur		Inundation Depth at Discharge of 340,000 Cusec below Ferozpur		Inundation Depth at Discharge of 390,000 Cusec below Ferozpur	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	6 Settlements nearby Atar Singhwala	M,L	KASUR	0.00	0.00	0.00	0.00	0.00	0.50	0.00	1.15
2	Mambeke	M,L	KASUR	0.00	0.00	0.00	0.00	2.20	2.69	2.51	2.98
3	Ratnay Wala	M,L	KASUR	0.00	0.00	0.00	0.00	0.00	2.04	0.00	2.59
4	Bagge and nearby 1 Settlement	M,L	KASUR	0.00	0.00	0.00	0.00	0.08	1.17	0.13	2.12
5	Chabba and nearby 4 Settlements	M,L	KASUR	0.00	0.00	0.00	0.00	0.14	2.17	0.64	2.35
6	Hardo Ban(Bodla Kalan) and nearby 2 Settlements	M,L	KASUR	0.00	0.00	0.00	0.00	0.57	3.94	1.35	4.04
7	Hardo Ban(Bodla Khurd)	M,L	KASUR	0.00	0.00	0.00	0.00	0.20	3.02	0.35	3.55
8	Mammanwala and nearby 1 Settlement	M,L	KASUR	0.00	0.00	0.00	0.00	0.00	1.02	0.00	1.85
9	Thatti Farid and nearby 1 Settlement	M,L	KASUR	0.00	0.00	0.00	0.00	0.00	1.60	0.00	2.45
10	Bakhshewala	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09
11	Bhedian Usman	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12
12	Gahi Jamun Wala andnearby 1 Settlement	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
13	Jhuggian Haku and nearby 1 Settlement	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.94
14	2 Settlements nearby Jodh Singhwala	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72
15	Jumay Kay	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01
16	Keelchy	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	1.65	0.58
17	Kharepar	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.23
18	Nure Wala and nearby 3 Settlements	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.06
19	Shaikh Ammad Nou	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10
20	Thatti Usman	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96
21	Wallay Wala and nearby 3 Settlements	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05

Sutlej River - Sheet No. 2

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 80,000 Cusec below Ferozpur		Inundation Depth at Discharge of 165,000 Cusec below Ferozpur		Inundation Depth at Discharge of 340,000 Cusec below Ferozpur		Inundation Depth at Discharge of 390,000 Cusec below Ferozpur	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Ahmun Chimna	H,M,L	OKARA	0.00	0.00	0.30	0.55	1.24	1.49	1.50	1.74
2	Anwar Chimna Bhaini	H,M,L	OKARA	0.00	0.00	0.68	1.43	1.63	2.38	1.90	2.64
3	Atma Singh	H,M,L	KASUR	0.00	0.00	0.00	0.13	0.00	0.46	0.32	1.24
4	Bhani Piru	H,M,L	KASUR	0.00	0.00	0.24	0.90	1.20	1.84	1.38	2.05
5	Bodal Khanke	H,M,L	KASUR	0.00	0.00	0.25	0.78	1.22	1.75	1.40	1.93
6	Burj Shahbazke	H,M,L	KASUR	0.00	0.00	0.53	1.21	1.56	2.23	1.71	2.39
7	3 Settlements nearby Dheroke Bhaini	H,M,L	OKARA	0.00	0.00	0.00	0.10	0.75	1.18	0.95	1.36
8	Nikkuke	H,M,L	KASUR	0.00	0.00	1.22	1.96	2.08	2.82	2.36	3.10
9	Besuke	H,M,L	KASUR	0.00	0.00	0.22	0.95	0.35	1.20	0.50	1.60
10	Dharman	H,M,L	KASUR	0.00	0.00	0.18	0.85	0.65	1.35	0.82	1.80
11	Kari Sansari and nearby 1 Settlement	H,M,L	KASUR	0.00	0.00	0.11	0.72	0.83	1.35	1.45	2.20
12	Sadr Bala Bhani and nearby 4 Settlements	H,M,L	OKARA	0.00	0.00	0.09	0.50	0.62	1.05	1.15	1.86
13	2 Settlements nearby Duniwala Chah	M,L	OKARA	0.00	0.00	0.00	0.00	0.45	1.23	0.62	1.27
14	Rukanpura	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75
15	Berianwali and nearby 1 Settlement	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
16	Beriawala and nearby 3 Settlements	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.01
17	Bonga Amir Singh	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.39
18	4 Settlements nearby Haji Ahmaddin	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.88
19	Kawni and nearby 1 Settlement	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
20	Kili Shahu	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85
21	Lohli Jattan	L	KASUR	0.00	0.00	0.00	0.00	0.00	0.00	0.33	1.03

Sutlej River - Sheet No. 3

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 80,000 Cusec below Ferozpur		Inundation Depth at Discharge of 165,000 Cusec below Ferozpur		Inundation Depth at Discharge of 340,000 Cusec below Ferozpur		Inundation Depth at Discharge of 390,000 Cusec below Ferozpur	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Atari	VH,H,M,L	OKARA	0.00	1.20	0.00	1.50	0.00	1.85	0.00	2.10
2	Rehman Sahuke and nearby 2 Settlements	VH,H,M,L	OKARA	0.00	0.55	0.00	1.13	0.20	1.52	0.40	2.18
3	Thakkarke Manga and nearby 2 Settlements	VH,H,M,L	OKARA	0.00	0.35	0.00	1.06	0.48	1.73	1.02	2.05
4	Baqarke Mahar and nearby 2 Settlements	VH,H,M,L	OKARA	0.00	0.52	0.00	0.95	0.00	1.56	0.00	1.88
5	Chuharke	VH,H,M,L	OKARA	0.00	0.85	0.84	1.19	1.42	2.16	2.25	2.59
6	Gitti Bharola	VH,H,M,L	OKARA	0.00	0.72	0.62	1.41	1.18	2.20	1.98	2.50
7	Muhar Jamsher	VH,H,M,L	OKARA	0.00	0.31	0.00	0.68	1.03	1.57	1.42	2.32
8	Mujhidhe Bhaini and nearby 2 Settlements	VH,H,M,L	OKARA	0.00	0.24	0.00	0.92	0.06	1.56	0.87	1.64
9	Nasirke Bhaini	VH,H,M,L	OKARA	0.00	0.15	0.00	0.87	0.19	1.54	0.98	2.34
10	Chak Baqarke Mahar	H,M,L	OKARA	0.00	0.00	0.00	0.71	0.00	1.12	1.33	1.49
11	Chak Dara and nearby 2 Settlements	H,M,L	OKARA	0.00	0.00	0.00	0.58	0.00	1.14	0.73	1.52
12	Dulleke Mahar and nearby 2 Settlements	H,M,L	OKARA	0.00	0.00	0.00	0.09	0.00	0.44	0.38	1.53
13	Duniwala Chah	H,M,L	OKARA	0.00	0.00	0.00	0.02	0.00	0.21	0.16	0.62
14	Faqirya	H,M,L	OKARA	0.00	0.00	0.00	0.01	0.00	0.13	0.00	0.46
15	1 Settlement nearby Haman Ladhuka	H,M,L	OKARA	0.00	0.00	0.00	0.10	0.00	0.27	0.00	0.63
16	Jamalkot Di Bhaini	H,M,L	OKARA	0.00	0.00	0.00	0.52	0.00	0.96	1.18	1.44
17	Kanda and nearby 3 Settlements	H,M,L	OKARA	0.00	0.00	0.00	0.83	0.00	1.03	0.00	1.65
18	Kandorke	H,M,L	OKARA	0.00	0.00	0.00	0.06	0.00	0.24	0.00	0.86
19	Lalu Gudar and nearby 2 Settlements	H,M,L	OKARA	0.00	0.00	0.00	0.20	0.00	0.58	0.00	0.96
20	Nizamwali and nearby 3 Settlements	H,M,L	OKARA	0.00	0.00	0.00	0.23	0.00	0.59	0.85	1.58
21	Nurwali and nearby 1 Settlement	H,M,L	OKARA	0.00	0.00	0.00	0.18	0.00	0.48	0.38	0.92
22	Panan Mahar	H,M,L	OKARA	0.00	0.00	0.00	0.33	0.00	0.81	0.79	1.24
23	Tajo	H,M,L	OKARA	0.00	0.00	0.00	0.42	0.00	1.05	0.09	1.25
24	Bherianwali and nearby 1 Settlement	H,M,L	OKARA	0.00	0.00	0.02	1.13	0.87	1.56	1.31	2.00
25	Lasuri and nearby 1 Settlement	H,M,L	OKARA	0.00	0.00	0.00	0.73	0.48	1.14	0.78	1.94
26	Manga Duna	H,M,L	OKARA	0.00	0.00	0.00	1.08	1.10	1.39	1.23	1.81
27	Nowan Mansi	H,M,L	OKARA	0.00	0.00	0.00	0.68	0.50	1.06	0.92	1.47
28	Bhaini Bairianwali	H,M,L	OKARA	0.00	0.00	0.00	0.02	0.00	0.12	0.06	0.24
29	Bhaini Wali Muhammad and nearby 1 Settlement	H,M,L	OKARA	0.00	0.00	0.00	0.06	0.00	0.18	0.00	0.32
30	1 Settlement nearby Shabir	M,L	OKARA	0.00	0.00	0.00	0.36	1.10	1.51	1.31	1.71
31	3 Settlements nearby Umar (Sukha Ladhuka)	L	OKARA	0.00	0.00	0.00	0.18	0.00	1.58	0.00	2.56
32	Bhaina Ghulam Ali Wala	L	OKARA	0.00	0.00	0.00	0.00	0.51	1.20	0.96	1.66
33	Dheroke Bhaini	L	OKARA	0.00	0.00	0.00	0.00	0.78	1.24	0.99	2.13
34	Basti Bahadarwali	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13
35	Basti Haji Wah	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.64
36	Bhaina Yauyanwali	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.49	1.13
37	Bhaini Jan Muhammed and nearby 1 Settlement	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
38	Bhaini Yusufwala	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.96
39	Bhaini Amliki	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.60
40	Bhaini Joya	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.30	1.78
41	Chah Kakranwala and nearby 1 Settlement	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.89

Sutlej River - Sheet No. 4

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 80,000 Cusec below Suleimanki		Inundation Depth at Discharge of 150,000 Cusec below Suleimanki		Inundation Depth at Discharge of 250,000 Cusec below Suleimanki		Inundation Depth at Discharge of 350,000 Cusec below Suleimanki	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Akbarabad and nearby 1 Settlement	VH,H,M,L	OKARA	0.00	0.35	0.00	0.80	0.25	1.25	0.47	1.50
2	Bhaini Duna Jiwan and 2 Settlements	VH,H,M,L	OKARA	0.00	1.12	0.55	1.31	1.26	2.25	1.47	2.45
3	Daun Lalkian and nearby 3 Settlements	VH,H,M,L	OKARA	0.00	0.31	0.21	0.90	0.84	1.53	1.07	1.76
4	Dilawar Jassoke and nearby 10 Settlements	VH,H,M,L	BAHAWALNAGAR	0.00	1.28	0.00	1.61	0.43	2.18	0.59	2.50
5	Duna Mohar Singh and nearby 2 Settlements	VH,H,M,L	BAHAWALNAGAR	0.00	0.21	0.05	0.62	0.89	1.52	0.97	1.54
6	Fazal di Bhaini and nearby 2 Settlements	VH,H,M,L	OKARA	0.00	1.08	0.58	1.41	1.03	1.89	1.28	2.10
7	Kishan and nearby 3 Settlements	VH,H,M,L	BAHAWALNAGAR	0.00	1.10	0.30	1.42	1.08	2.17	1.94	2.21
8	Qadir Shaikhuka and nearby 4 Settlements	VH,H,M,L	OKARA	0.00	1.22	0.53	1.64	1.13	2.13	1.27	2.33
9	Ratteke and nearby 3 Settlements	VH,H,M,L	OKARA	0.00	1.01	0.00	1.49	0.11	2.12	0.35	2.36
10	Shakranj Pur	VH,H,M,L	OKARA	0.00	0.82	0.14	1.35	1.07	1.85	1.25	2.25
11	Malike Rarreke and nearby 1 Settlement	VH,H,M,L	BAHAWALNAGAR	0.00	0.52	0.00	1.08	0.00	1.57	1.15	2.30
12	Aminkot	H,M,L	BAHAWALNAGAR	0.00	0.00	0.23	1.24	1.11	1.60	1.16	2.43
13	Asal Sauran and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.46	0.00	1.06	0.00	1.42
14	Azam Chhanian and nearby 9 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.50	0.00	1.98	0.02	2.22
15	Babawala	H,M,L	BAHAWALNAGAR	0.00	0.00	0.03	0.52	0.75	1.25	0.88	1.38
16	Bagge Dogar Da Bamba and nearby 6 Settlements	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.85	0.07	1.45	0.35	1.70
17	Bairo and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.62	1.23	1.46	2.03	1.54	2.13
18	1 Settlement nearby Bareka Utar	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.43	0.00	0.84	0.00	1.40
19	Bhai Ke Dedar Singh and nearby 2 Settlements	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.44	0.02	1.08	0.26	1.31
20	Bhai Sujan and nearby 3 Settlements	H,M,L	OKARA	0.00	0.00	0.43	0.83	0.69	1.46	0.92	1.70
21	Bhai Sujan Singh	H,M,L	OKARA	0.00	0.00	0.47	0.57	1.11	1.20	1.34	1.44
22	Bhai Toga and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.65	1.09	1.49	1.93	1.57	2.01
23	Bhaina Sulaimanke and nearby 1 Settlement	H,M,L	OKARA	0.00	0.00	0.00	0.42	0.76	2.01	1.17	2.38
24	Bhaini	H,M,L	BAHAWALNAGAR	0.00	0.00	0.66	0.88	0.78	1.68	1.40	2.62
25	Bhaini Amananwali	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.02	0.48	1.59	0.68	1.99
26	Bhaini Bashqaya China and nearby 1 Settlement	H,M,L	OKARA	0.00	0.00	0.03	0.89	0.66	1.52	0.90	1.76
27	Bhaini Shaikhan	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.18	0.49	0.80	0.63	0.90
28	Bhini Jhablanwali and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.40	1.96	1.02	2.25	1.37	2.40
29	Bhini Nur Muhammad and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.64	0.99	2.12	1.89	2.50
30	Bichlipura and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.01	0.00	1.77	0.00	1.86
31	Bondi	H,M,L	BAHAWALNAGAR	0.00	0.00	0.68	1.24	1.20	2.13	1.44	2.32
32	Bunga Teieka and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.51	0.00	2.37	0.00	2.39
33	Darkhnai and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.75	0.00	1.68	0.00	2.12
34	Dilawar Joka	H,M,L	BAHAWALNAGAR	0.00	0.00	0.34	0.59	0.98	1.22	1.22	1.46
35	Duna Jiwan Sarhu	H,M,L	BAHAWALNAGAR	0.00	0.00	0.73	1.31	1.00	1.59	1.67	2.25
36	Dunna Mamewala and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.33	0.13	1.78	0.39	2.31
37	Godai Shah and nearby 6 Settlements	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.24	0.00	0.61	0.00	1.11
38	Hazara	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.89	0.53	1.65	0.90	1.82
39	Izzatke Kala Abad	H,M,L	OKARA	0.00	0.00	0.00	0.07	0.15	0.59	0.34	0.78
40	Jamalpur and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.34	0.00	1.37	0.00	2.27
41	Jodheke	H,M,L	OKARA	0.00	0.00	0.00	0.10	0.00	1.47	0.00	2.03
42	Jugge Maharan and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.35	1.08	0.85	1.84	1.04	2.05
43	Jutmahi Kot and nearby 1 Settlement	H,M,L	OKARA	0.00	0.00	0.00	0.72	0.00	1.23	0.00	1.47
44	Kasuli	H,M,L	OKARA	0.00	0.00	0.55	0.73	1.07	1.25	1.30	1.49
45	Khapri	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.36	0.00	1.10	0.00	1.21
46	Lala Amar Singh and nearby 5 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.18	0.60	2.04	0.80	2.06
47	Langarke	H,M,L	OKARA	0.00	0.00	0.00	0.04	0.06	0.97	0.32	1.16
48	Manjha Pur	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.30	0.93	2.21	1.91	2.25
49	Matan and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.24	1.18	0.31	2.19	1.04	2.45
50	Mathera Qaimka and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.38	0.54	1.78	0.86	2.36
51	Maulia Chishti and nearby 1 Settlement	H,M,L	OKARA	0.00	0.00	0.00	0.49	0.00	1.02	0.00	1.21
52	Mehrab Ganj and nearby 3 Settlements	H,M,L	OKARA	0.00	0.00	0.00	1.75	0.00	2.02	0.00	2.33
53	Mohib Ali Hither	H,M,L	OKARA	0.00	0.00	0.19	0.50	0.81	1.13	1.05	1.37
54	Muhammed Rahmuke and nearby 6 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.94	0.00	1.80	0.00	2.28
55	Murghan Goth	H,M,L	OKARA	0.00	0.00	0.00	0.93	0.00	1.45	0.24	1.69
56	Nasirpur	H,M,L	BAHAWALNAGAR	0.00	0.00	0.70	1.08	1.29	1.83	1.48	2.09
57	Naushahra	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.54	0.00	1.30	0.00	1.45
58	Peer Kot	H,M,L	OKARA	0.00	0.00	0.00	0.41	0.61	1.16	0.71	1.26
59	3 Settlements nearby Pir Ghani	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.29	0.00	0.93	0.00	1.16
60	Qalandarpur and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.79	0.55	1.83	1.20	2.56
61	Roriwala and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.50	1.14	1.17	1.81	1.37	2.01
62	1 Setlement nearby Santewaja Godhoka	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.67	0.31	1.33	0.53	1.54
63	Seenath Jo Goth	H,M,L	OKARA	0.00	0.00	0.11	1.12	0.62	1.64	0.85	1.88
64	Sharin Rehula	H,M,L	OKARA	0.00	0.00	0.00	0.25	0.29	0.97	0.40	1.05
65	Tara Jodheka and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.45	0.53	1.43	0.87	1.68
66	Taruke Ratteke	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.29	0.00	0.98	0.00	1.15
67	Walla Shaikhuka	H,M,L	OKARA	0.00	0.00	0.00	0.11	0.00	0.63	0.00	0.82
68	Bheem Pura	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.58	1.87	0.95	2.37
69	Salimke	M,L	OKARA	0.00	0.00	0.00	0.00	0.00	1.57	0.00	2.28
70	Sardarpura	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.25	1.47	0.28	1.50
71	2 Settlements nearby Ahmadpur	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
72	Ameen Abad	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.60
73	Badri Narayanpura	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.58
74	Bakka Rahmoke	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.25
75	Bhela	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82
76	Billi Mar	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
77	Chak Jamua and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
78	Chak Ahmadyar	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
79	Ghouspur	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.22
80	Hushal Pur	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.62
81	Jabir Pur	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.32
82	Jiwan Mahr and nearby 2 Settlements	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.58
83	Kahdhpura	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.67	1.04
84	Kalewala	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.92
85	Kamirian	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.66
86	Kapuri and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01
87	Karam Chand and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94
88	Khera Muhammed Ali	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
89	1 Settlement nearby Khu Ashraf Arain	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
90	Lala Dhan Singh and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36
91	Mahram Chhanno and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.95
92	Maira Kaluka	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.47
93	Masum Shahwali and nearby 5 Settlements	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16
94	Miani Ratteke	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
95	Nanaksar	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.43	1.15
96	Nasira Kaluke	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
97	Parbhatiwala and nearby 2 Settlements	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.74
98	Rahk Abdaike	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
99	Rahmuke	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
100	2 Settlements nearby Saddu Maleka	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.56
101	1 Settlement nearby Soma Bodla	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62
102	1 Settlement nearby Sujeke	L	OKARA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
103	Tara Chhanna and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14
104	Tawak

Inundation Depth of Settlements along Sutlej River

Sutlej River - Sheet No. 5

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 80,000 Cusec below Suleimanki		Inundation Depth at Discharge of 150,000 Cusec below Suleimanki		Inundation Depth at Discharge of 250,000 Cusec below Suleimanki		Inundation Depth at Discharge of 350,000 Cusec below Suleimanki	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Bhaini Momeka	VH,H,M,L	BAHAWALNAGAR	0.00	1.35	0.42	1.78	1.50	2.88	1.84	3.22
2	Dakua and nearby 7 Settlements	VH,H,M,L	BAHAWALNAGAR	0.00	1.82	0.00	2.48	0.00	3.40	0.00	3.43
3	Ganju Shah Makhdum	VH,H,M,L	BAHAWALNAGAR	0.00	1.92	2.07	2.78	2.70	3.44	3.61	4.31
4	Gnauspur and nearby 1 Settlement	VH,H,M,L	BAHAWALNAGAR	0.00	2.85	1.73	3.28	2.73	3.31	3.18	3.72
5	Harlal Bhaini and nearby 4 Settlements	VH,H,M,L	BAHAWALNAGAR	0.00	1.24	0.32	1.76	1.30	2.83	1.53	3.01
6	Jaseem Ki	VH,H,M,L	PAKPATTAN	0.00	1.12	0.88	1.68	1.50	2.31	1.88	2.68
7	Kotheka Bhaini and nearby 1 Settlement	VH,H,M,L	BAHAWALNAGAR	0.00	1.05	0.92	1.70	1.47	2.27	1.88	2.66
8	Mali Kani and nearby 3 Settlements	VH,H,M,L	PAKPATTAN	0.00	2.03	1.33	2.61	2.27	3.38	2.28	3.56
9	Malik Niaz Bane and nearby 3 Settlements	VH,H,M,L	PAKPATTAN	0.00	1.38	0.11	1.90	0.63	2.51	1.02	2.81
10	Malika and nearby 1 Settlement	VH,H,M,L	PAKPATTAN	0.00	1.72	1.46	2.23	2.44	3.15	2.66	3.41
11	Saidanwali Bhaini and nearby 3 Settlements	VH,H,M,L	PAKPATTAN	0.00	1.23	1.35	1.93	2.84	3.44	2.96	3.56
12	Sardar Bhaini and nearby 1 Settlement	VH,H,M,L	PAKPATTAN	0.00	0.83	0.34	1.40	1.05	2.12	1.78	2.34
13	Shaki and nearby 9 Settlements	VH,H,M,L	BAHAWALNAGAR	0.00	1.76	0.12	2.11	0.75	2.67	1.07	3.08
14	7 Settlements nearby Bhaini Momeka	H,M,L	BAHAWALNAGAR	0.00	0.00	0.56	1.54	1.65	2.53	2.82	3.99
15	9 Settlements nearby Bhaini Punan	H,M,L	BAHAWALNAGAR	0.00	0.00	0.82	2.03	1.97	3.34	2.13	3.45
16	Abadi Shehzad Malkanay Ki and nearby 1 Settlement	H,M,L	PAKPATTAN	0.00	0.00	0.00	1.49	1.33	2.78	1.45	2.90
17	Abera Uttar and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	2.85	1.65	3.20	2.65	3.44
18	Acharki	H,M,L	BAHAWALNAGAR	0.00	0.00	1.49	3.22	2.09	3.82	2.22	3.95
19	Adlana and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.41	2.14	1.65	2.29	1.88	3.55
20	Ahmad Musla and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.57	0.00	3.13	0.00	3.26
21	Amir Sohara and nearby 5 Settlements	H,M,L	PAKPATTAN	0.00	0.00	0.00	1.26	0.00	1.88	0.02	2.17
22	Amira Ahloka and nearby 1 Settlement	H,M,L	PAKPATTAN	0.00	0.00	0.74	1.97	1.48	2.68	1.68	2.91
23	Anwar Shah and nearby 3 Settlements	H,M,L	PAKPATTAN	0.00	0.00	0.00	2.07	1.67	2.39	2.18	2.65
24	Arain and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.14	1.01	0.78	1.67	1.03	1.90
25	Babana and nearby 7 Settlements	H,M,L	PAKPATTAN	0.00	0.00	0.00	2.48	0.00	3.08	0.00	3.19
26	Bachianwali and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.28	0.38	2.12	0.54	2.22
27	Bagha	H,M,L	PAKPATTAN	0.00	0.00	0.41	0.74	1.96	2.28	2.08	2.41
28	Bagwari	H,M,L	BAHAWALNAGAR	0.00	0.00	1.17	1.40	2.72	2.95	2.85	3.08
29	Bahadurka Sharki and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.62	2.34	2.20	3.91	2.33	4.04
30	Bahli Musa	H,M,L	BAHAWALNAGAR	0.00	0.00	1.30	1.77	2.87	3.34	3.00	3.47
31	Bahramka Hathar and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.53	0.08	1.17	0.35	1.43
32	Balari Piran and nearby 1 Settlement	H,M,L	PAKPATTAN	0.00	0.00	1.68	2.33	2.27	2.92	2.40	3.05
33	Baliwala	H,M,L	PAKPATTAN	0.00	0.00	0.00	2.24	0.00	3.84	0.00	3.95
34	Banga	H,M,L	PAKPATTAN	0.00	0.00	1.25	2.77	1.91	3.46	2.95	4.07
35	Basti Ahmad and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.08	1.50	2.63	3.06	2.74	3.16
36	Basti Khalifa and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.89	0.50	2.11	0.62	2.22
37	Basti Mahngai Singh and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.49	1.07	2.04	2.61	2.16	2.74
38	Basti Quraishan	H,M,L	BAHAWALNAGAR	0.00	0.00	0.82	1.99	2.38	3.56	2.51	3.68
39	Basti Sialan	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.46	0.76	3.06	0.89	3.19
40	Basti Araian	H,M,L	BAHAWALNAGAR	0.00	0.00	0.81	1.23	2.38	2.81	2.51	2.94
41	Basti Dhudian	H,M,L	BAHAWALNAGAR	0.00	0.00	0.82	1.34	1.59	3.20	2.50	4.01
42	Basti G.Ali	H,M,L	BAHAWALNAGAR	0.00	0.00	0.98	1.49	2.53	3.04	2.66	3.16
43	Basti Jhale Shah	H,M,L	BAHAWALNAGAR	0.00	0.00	1.35	1.48	2.92	3.05	3.04	3.17
44	Basti Parsa	H,M,L	BAHAWALNAGAR	0.00	0.00	0.45	0.97	2.00	2.52	2.13	2.65
45	Bhagan and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.42	2.18	2.63	3.10	3.03	3.84
46	Bhaini Jinjran and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.27	0.86	0.93	1.64	1.52	2.16
47	Bhaini Sukheria	H,M,L	BAHAWALNAGAR	0.00	0.00	0.72	0.88	2.26	2.42	2.38	2.54
48	Bhalloka	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.34	1.44	2.91	1.55	3.03
49	Bhinda and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	1.15	1.77	2.26	2.98	2.49	3.14
50	Bhindi Laleki and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.45	2.02	2.04	3.62	3.13	3.70
51	Bilara and nearby 1 Settlement	H,M,L	PAKPATTAN	0.00	0.00	0.00	1.79	0.52	2.44	0.86	2.77
52	Bodia and nearby 1 Settlement	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.91	1.05	2.49	1.16	2.58
53	Bunga Akbar and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.31	0.00	2.07	0.00	2.25
54	Bunga Niaz Khan Baloch and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.09	1.11	0.81	1.90	1.03	2.06
55	Bunga Alam Shah	H,M,L	BAHAWALNAGAR	0.00	0.00	1.01	1.44	2.20	2.60	2.39	2.81
56	Bunga Machni and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.99	0.00	2.54	0.00	2.66
57	Butewali and nearby 8 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.74	0.61	2.38	0.87	2.66
58	Chak 11 KB and nearby 1 Settlement	H,M,L	PAKPATTAN	0.00	0.00	0.00	1.46	1.35	3.17	1.48	3.30
59	Chak Amira Ahloka	H,M,L	PAKPATTAN	0.00	0.00	1.36	1.70	2.11	2.44	2.31	2.65
60	Chak Kartarpur and nearby 1 Settlement	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.97	0.41	2.57	0.54	2.69
61	Chak Tehsildarka and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.19	1.81	2.79	3.41	2.92	3.54
62	Chak Thanedar	H,M,L	BAHAWALNAGAR	0.00	0.00	1.07	1.49	2.63	3.05	2.75	3.17
63	Chak 10 KB	H,M,L	PAKPATTAN	0.00	0.00	0.00	2.08	1.35	3.67	1.48	3.80
64	Chak 5 Kb	H,M,L	PAKPATTAN	0.00	0.00	0.05	0.37	1.35	1.67	1.49	1.81
65	Chak 7 Kb and nearby 5 Settlements	H,M,L	PAKPATTAN	0.00	0.00	0.00	2.03	0.46	3.63	0.59	3.74
66	Chak 8 KB	H,M,L	PAKPATTAN	0.00	0.00	1.29	2.11	1.89	2.71	3.02	3.84
67	Chak 9 KB	H,M,L	PAKPATTAN	0.00	0.00	1.26	2.39	1.85	2.99	1.98	3.11
68	Chak Amir and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.31	1.38	2.85	1.50	2.97
69	Chako Ki Bhaini	H,M,L	BAHAWALNAGAR	0.00	0.00	0.97	1.15	1.51	1.69	2.10	2.29
70	Chakoka and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.33	0.39	2.14	0.90	2.59
71	Challadka and 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.19	0.00	1.75	0.00	2.37
72	Chaudhriwala	H,M,L	BAHAWALNAGAR	0.00	0.00	1.79	2.60	2.39	3.20	2.52	3.32
73	Chaweka and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.52	2.18	2.12	3.78	2.25	3.91
74	Chouk Fidayee Shah and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.16	0.22	0.71	0.47	1.15
75	Dadu Ahluka and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.60	0.25	1.25	0.51	1.52
76	Daulatpur and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.99	1.83	2.58	3.41	2.71	3.54
77	Dera Bakhsha and nearby 4 Settlements	H,M,L	PAKPATTAN	0.00	0.00	1.67	2.56	2.26	3.16	2.39	3.29
78	Dhuddi Gajjan and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.33	1.03	1.69	2.42	1.84	2.54
79	Dhuddi Khazan Singh and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.25	2.02	2.82	3.59	2.95	3.71
80	1 Settlement nearby Dilawar Joka	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.02	0.12	0.62	0.40	0.90
81	Dohar	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.74	0.88	1.98	0.94	2.13
82	Fatwera and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.43	3.24	2.62	3.44	3.04	3.86
83	Ferozepur and nearby 6 Settlements	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.62	0.00	2.14	0.00	2.26
84	Fidayee Shah and nearby 5 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.44	0.04	2.00	0.41	2.49
85	Gomiwali and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.17	1.53	2.63	2.99	2.74	3.10
86	Habibka	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.84	0.49	1.42	0.90	1.81
87	Haidar Dhuddi	H,M,L	BAHAWALNAGAR	0.00	0.00	0.88	1.60	2.33	3.04	2.43	3.14
88	Hota and nearby 1 Settlement	H,M,L	PAKPATTAN	0.00	0.00	0.00	2.49	1.30	3.08	1.41	3.21
89	Ismailpur and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.34	0.27	0.88	0.84	1.44
90	Jhandwala Khu and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.45	1.64	0.99	2.18	1.51	2.75
91	Jhullan Arain and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	2.72	0.00	3.31	0.00	3.44
92	Kakarwali Kothi and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.72	0.00	3.30	0.00	3.43
93	Kala Chishti and nearby 1 Settlement	H,M,L	PAKPATTAN	0.00	0.00	0.50	1.53	1.82	2.76	1.96	2.89
94	Khair Shah Uthar	H,M,L	BAHAWALNAGAR	0.00	0.00	0.11	0.61	0.95	1.51	1.34	1.86
95	Kolorwala	H,M,L	BAHAWALNAGAR	0.00	0.00	0.25	0.66	0.91	1.31	1.14	1.55
96	Kot Bahawal	H,M,L	PAKPATTAN	0.00	0.00	0.85	1.83	1.65	2.53	2.33	3.33
97	Kot Bakhsha and nearby 4 Settlements	H,M,L	PAKPATTAN	0.00	0.00	1.59	2.38	3.19	3.97	3.32	4.10
98	Kot Mukhdoon	H,M,L	BAHAWALNAGAR	0.00	0.00	0.14	1.91	1.72	3.41	2.69	3.47
99	Lakhvera	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.11	0.23	0.78	0.55	1.09
100	Laleka and nearby 5 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	2.18	1.08	3.72	1.20	3.83
101	Landi pura	H,M,L	BAHAWALNAGAR	0.00	0.00	0.06	0.89	0.71	1.53	0.98	1.80
102	Maarri Chakkooka and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.09	0.00	1.80	0.00	2.02
103	Machhiwali Bhaini and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.87	1.67	1.55	2.43	2.54	3.39
104	Mahant Darshan	H,M,L	PAKPATTAN	0.00	0.00	0.10	0.94	1.63	2.48	1.76	2.60
105	Maidanwala Khu	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.37	0.88	1.32	0.90	2.32
106	Manduwala and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.26	0.00	1.41	0.00	1.72
107	Mari Amb Minor	H,M,L	PAKPATTAN	0.00	0.00	0.00	1.76	0.00	3.30	0.00	3.43
108	Mariamb	H,M,L	PAKPATTAN	0.00	0.00	0.00	1.53	0.00	3.11	0.00	3.22
109	Masrirwali and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.41	1.17	1.96	2.72	2.09	2.85
110	Mehr Shah and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.69	0.00	3.27	0.00	3.39
111	Muhammad pur and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	3.31	0.00	3.91	0.00	4.04
112	Munawwar	H,M,L	PAKPATTAN	0.00	0.00	1.51	2.99	2.10	3.59	2.23	3.71
113	Munshi Hithar and nearby 7 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.21	1.24	0.94	2.05	1.15	2.19
114	Munshi Outarhh and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.01	0.53	0.55	1.07	1.01	1.53
115	Mustaqim Mahmunka	H,M,L	PAKPATTAN	0.00	0.00	0.00	1.55	0.40	2.55	1.36	3.50
116	Nazirabad and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.76	0.16	1.31	0.79	1.94
117	Naushahra and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.74	0.16	2.87	0.29	3.15
118	Pir Gurai and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.33	1.70	2.18	2.53	2.28	2.65
119	Pirada	H,M,L	PAKPATTAN	0.00	0.00	1.49	2.68	2.08	3.28	3.21	3.41
120	Pulliwala and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.85	1.51	2.18	2.88	2.26	2.97
121	Rafiqkot and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.45	2.72	1.04	3.31	2.17	3.44
122	Rahmani	H,M,L	PAKPATTAN	0.00	0.00	0.15	0.41	1.06	1.31	1.27	1.54
123	Ramzan Langan	H,M,L	BAHAWALNAGAR	0.00	0.00	0.96	2.26	1.89	3.16	2.63	3.93
124	Ranewala and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.81	1.18	1.97	2.47	2.13	2.55
125	Sadhwala and nearby 1 Settlement	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.70	1.21	2.15	1.33	2.28
126	Sandhe	H,M,L	PAKPATTAN	0.00	0.00	2.46	2.85	3.06	3.45	3.19	3.58
127	Shadiwala	H,M,L	BAHAWALNAGAR	0.00	0.00	2.09	2.30	2.68	3.90	2.81	4.03
128	Sharian di Basti	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.73	1.22	2.04	1.34	2.12
129	Sialan	H,M,L	BAHAWALNAGAR	0.00	0.00	0.60	0.87	2.15	2.43	2.28	2.55
130	Sikandar Baloch	H,M,L	BAHAWALNAGAR	0.00	0.00	1.66	2.10	3.23	3.68	3.36	3.81
131	Sudha	H,M,L	PAKPATTAN	0.00	0.00	0.23	1.97	0.88	2.62	1.20	2.94
132	Sukherien Di Bhaini	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.09	0.64	0.87	0.81	1.04
133	Toba Qalander Shah	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	2.76	0.00	3.36	0.00	3.49
134	Wan Duniwala and nearby 5 Settlements	H,M,L	PAKPATTAN	0.00	0.00	0.87	1.42	2.47	2.98	2.58	3.11
135	Wan Hafiz G and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.56	0.00	3.16	0.00	3.29
136	Wasir	H,M,L	BAHAWALNAGAR	0.00	0.00	2.77	3.03	4.37	3.62	4.50	3.75
137	Wazirka and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	2.06	0.00	3.62	0.07	3.74
138	Zafarabad and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.42	2.22	3.00	3.80	3.13	3.93
139	1 Settlement nearby Bhaini Rajar	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	1.70	1.92	2.06	2.27
140	Anandpur	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	0.91	1.12	1.05	1.26
141	Basti Luqman	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	1.48	1.76	1.66	1.93
142	Beriwala and nearby 1 Settlement	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	1.40	2.28	1.54	2.41
143	Bhaini Dara	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	1.36	1.45	1.59	1.69
144	Bhaini Rajar	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.10	1.71	0.38	2.01
145	Bhattian Di Bhaini	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	1.37	0.00	1.67
146	Chah Ranjiewala and nearby 1 Settlement	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	0.93	2.47	1.08	2.61
147	Chak 6 Kb and nearby 1 Settlement	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	0.64	1.60	0.77	1.73
148	Chak Amar Singh and nearby 5 Settlements	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	1.49	2.04	1.64	2.19
149	Chak 4 Kb	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	1.25	1.52	1.41	1.68
150	Faridke and nearby 1 Settlement	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.98	1.36	1.10	1.47
151	Gundi wala	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	1.38	0.00	1.50
152	Kabuttri Dhuddian and nearby 2 Settlements	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.93	1.23	1.06	1.35
153	Kot	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	1.59	1.80	1.72	1.92
154	Pahlwanka and nearby 3 Settlements	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	2.07	0.00	2.17
155	Warsin and nearby 1 Settlement	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	1.85	0.00	1.98
156	Addipur Thatta and nearby 2 Settlements	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82
157	Adhannwan and nearby 2 Settlements	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.99
158	Alam Dhudhi	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.64
159	Alipur and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.51
160	Babbaran Wala Khouh	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.40
161	Bahawalgarh and nearby 4 Settlements	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38
162	Bara and nearby 3 Settlements	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.61	1.76
163	Bhimpura	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	1.11	1.24
164	Bohar Diwan	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.82	1.41
165	Bolpur and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98
166	Bunga Baloan and nearby 1 Settlement	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76
167	Chak Kirpa Raam	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
168	Chak Hakeem	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.96
169	Chak Muhammad Pur and nearby 6 Settlements	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.58	1.53
170	Diwan Sahib and nearby 1 Settlement	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.54	1.52
171	Diwanwala and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26
172	Diyal Singh and nearby 2 Settlements	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86
173	Fitipur and nearby 1 Settlement	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.08	1.08
174	Gamewala and nearby 3 Settlements	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09
175	1 Settlement nearby Ghaus Nagar	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.49
176	Gulla	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.70
177	Hafizwala(Mosam Wala)	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.63	1.26
178	Haji Razzaq Khan	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
179	Jagga Baloch	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.52
180	Jahana Mahmunka	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.80
181	Janduwala and 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.56
182	Jatto Wal and nearby 1 Settlement	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
183	Jaura	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.85
184	Jawaya Mal and nearby 1 Settlement	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97
185	Jhugge Baloch	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.63

Inundation Depth of Settlements along Sutlej River

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 80,000 Cusec below Suleimanki		Inundation Depth at Discharge of 150,000 Cusec below Suleimanki		Inundation Depth at Discharge of 250,000 Cusec below Suleimanki		Inundation Depth at Discharge of 350,000 Cusec below Suleimanki	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
71	Salam Rath and nearby 1 Settlement	H,M,L	PAKPATTAN	0.00	0.00	0.53	1.01	0.99	1.51	1.87	2.36
72	Santeka and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.84	2.47	1.45	3.08	1.92	3.55
73	Shabazi	H,M,L	PAKPATTAN	0.00	0.00	0.98	1.27	1.67	2.00	2.04	2.33
74	Soneke and nearby 2 Settlements	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.25	0.52	1.64	1.24	2.36
75	Tibbi Lal Baig and nearby 2 Settlements	H,M,L	PAKPATTAN	0.00	0.00	0.00	0.53	0.00	2.68	0.00	3.53
76	Wali Muhammad	H,M,L	PAKPATTAN	0.00	0.00	0.00	1.87	1.19	2.64	1.52	3.34
77	Wara Allah Jawaya and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.75	1.32	2.15	1.77	2.56
78	Basti Lune Khan and nearby 1 Settlement	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	2.85	0.00	3.25
79	2 Settlements nearby Bhaini Acharki	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	1.05	2.13	1.37	2.88
80	Bhaini Haiderke	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	0.69	1.00	1.41	1.73
81	Bhaini Masteki	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	1.12	1.54	1.60	2.91
82	Bilara Arjanke	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	0.79	1.22	1.48	2.83
83	Budhan Shah	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	0.37	1.66	0.52	2.06
84	Chak Sarwar	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.54	2.95	1.32	3.12
85	Hasan wali and nearby 1 Settlement	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.51	2.99	1.52	3.32
86	Hayder Shah and nearby 1 Settlement	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	1.46	2.08	1.52	2.96
87	Heman Mehruka and nearby 1 Settlement	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	2.39	0.00	3.11
88	Joiya and nearby 1 Settlement	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	0.57	1.35	1.42	2.03
89	Mari Halbatwali	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	2.85	3.31	2.89	3.90
90	Mehramke	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	1.75	0.00	2.61
91	Muhari Piran	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.64	1.16	0.93	1.85
92	Noor Rath and nearby 1 Settlement	M,L	PAKPATTAN	0.00	0.00	0.00	0.00	1.30	1.68	1.51	1.98
93	Rahmani	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	1.62	2.83	2.07	3.27
94	Annuke and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09
95	Bahadurke and nearby 3 Settlements	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35
96	Basti Farid Khan and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04
97	Basti G.Nabi and nearby 1 Settlement	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.99
98	Kuria and nearby 1 Settlement	L	PAKPATTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
99	Shadana	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
100	1 Settlement nearby Ziarat Shahan Shah	L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.05	0.00	0.08	0.20

Sutlej River - Sheet No. 7

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 80,000 Cusec below Suleimanki		Inundation Depth at Discharge of 150,000 Cusec below Suleimanki		Inundation Depth at Discharge of 250,000 Cusec below Suleimanki		Inundation Depth at Discharge of 350,000 Cusec below Suleimanki	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Balochan di Bhaini and nearby 3 Settlements	VH,H,M,L	BAHAWALNAGAR	0.00	1.51	0.52	2.03	1.38	2.95	2.99	3.24
2	Basti Wali Dad Baloch and nearby 1 Settlement	VH,H,M,L	BAHAWALNAGAR	0.00	0.92	0.67	1.27	1.70	2.29	2.40	3.98
3	Basti Ajira	VH,H,M,L	BAHAWALNAGAR	0.00	1.14	1.28	1.46	1.58	2.76	2.27	2.85
4	Basti Dhoda	VH,H,M,L	BAHAWALNAGAR	0.00	1.08	1.47	1.58	1.50	2.61	2.45	3.56
5	Bhaini Imam Bakhsh	VH,H,M,L	BAHAWALNAGAR	0.00	2.04	1.67	2.38	1.91	2.63	2.63	3.35
6	Bhaini Jahana Baloch and nearby 5 Settlements	VH,H,M,L	BAHAWALNAGAR	0.00	1.83	1.49	2.34	1.51	3.33	2.20	3.96
7	Bhaini Farid	VH,H,M,L	VEHARI	0.00	1.27	1.36	1.64	2.22	2.46	2.34	2.61
8	Bhaini Qazian	VH,H,M,L	BAHAWALNAGAR	0.00	1.31	1.60	1.75	1.63	2.77	2.41	3.55
9	Bhattian Di Bhaini	VH,H,M,L	VEHARI	0.00	2.25	1.43	2.72	2.04	3.34	2.64	3.95
10	Bhinda Shal Muhammed and nearby 1 Settlement	VH,H,M,L	BAHAWALNAGAR	0.00	1.87	1.18	2.19	1.34	3.87	2.59	4.17
11	Dadu Baloch and nearby 2 Settlements	VH,H,M,L	VEHARI	0.00	1.22	0.83	1.82	1.91	3.80	2.84	3.81
12	Ghulam Farid and nearby 1 Settlement	VH,H,M,L	BAHAWALNAGAR	0.00	1.03	0.84	1.47	1.10	3.04	1.86	3.47
13	Hamid Khan Baloch and nearby 1 Settlement	VH,H,M,L	BAHAWALNAGAR	0.00	2.12	0.91	2.49	1.49	3.32	1.81	3.46
14	Jhedwan and nearby 1 Settlement	VH,H,M,L	BAHAWALNAGAR	0.00	1.17	0.00	1.84	0.55	1.93	1.65	2.82
15	Kaura Bhutna and nearby 1 Settlement	VH,H,M,L	BAHAWALNAGAR	0.00	2.27	1.21	2.81	1.49	3.10	2.20	3.80
16	Kharalan Bhaini and nearby 2 Settlements	VH,H,M,L	VEHARI	0.00	1.29	0.62	1.84	1.32	2.57	1.99	3.25
17	Khichchi	VH,H,M,L	VEHARI	0.00	1.23	1.72	1.75	1.74	2.77	2.49	3.52
18	Khokharan di Basti	VH,H,M,L	VEHARI	0.00	1.88	1.06	2.35	1.72	3.01	2.37	3.66
19	Lodhran	VH,H,M,L	BAHAWALNAGAR	0.00	0.93	0.80	1.39	1.97	2.57	2.80	3.39
20	Mehrabad	VH,H,M,L	BAHAWALNAGAR	0.00	1.84	1.74	1.97	2.03	3.26	2.73	3.96
21	Main Nur Hussain	VH,H,M,L	BAHAWALNAGAR	0.00	1.02	0.00	1.53	0.96	1.99	1.70	2.78
22	Pir Bodan Shan and nearby 2 Settlements	VH,H,M,L	VEHARI	0.00	0.83	0.45	1.16	0.52	3.29	1.42	4.13
23	Rajjowali Bhaini	VH,H,M,L	BAHAWALNAGAR	0.00	1.82	1.72	1.95	1.98	3.21	2.70	3.93
24	Rajuke	VH,H,M,L	BAHAWALNAGAR	0.00	2.10	1.72	2.45	2.56	3.32	2.68	3.41
25	Sahu	VH,H,M,L	BAHAWALNAGAR	0.00	1.42	1.31	1.60	1.49	2.78	2.28	3.58
26	Sahu ka Patan	VH,H,M,L	BAHAWALNAGAR	0.00	1.11	1.04	1.25	1.22	3.45	2.12	4.03
27	Tibbi Salin Khan Baloch and nearby 1 Settlement	VH,H,M,L	VEHARI	0.00	1.86	1.27	2.35	1.28	2.38	1.94	3.09
28	Tibbi Rehmat	VH,H,M,L	VEHARI	0.00	1.76	1.57	2.05	2.57	3.05	3.20	3.69
29	Tiwana and nearby 3 Settlements	VH,H,M,L	VEHARI	0.00	1.94	0.98	2.12	1.19	3.16	1.82	3.93
30	Ziarat Qasim Ali	VH,H,M,L	BAHAWALNAGAR	0.00	1.15	1.13	1.21	1.85	2.40	2.11	2.80
31	Afzalpur	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.75	1.22	2.52	2.06	2.90
32	Allah Yar	H,M,L	BAHAWALNAGAR	0.00	0.00	0.22	1.01	1.98	2.79	2.16	2.96
33	Allahabad and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	1.58	2.35	1.70	2.37	2.41	3.15
34	1 Settlement nearby Aminkot	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.99	0.43	2.10	0.86	2.99
35	Azad Kashmir	H,M,L	BAHAWALNAGAR	0.00	0.00	0.99	1.33	1.17	2.51	1.99	3.33
36	Bagh Arain	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.31	0.37	2.58	0.40	3.17
37	Baghlianwala	H,M,L	VEHARI	0.00	0.00	0.51	1.04	1.18	2.70	1.48	3.01
38	Bahmdi Jatera and nearby 5 Settlements	H,M,L	VEHARI	0.00	0.00	0.07	1.40	1.04	2.66	1.06	3.43
39	2 Settlements nearby Basti Bagha	H,M,L	VEHARI	0.00	0.00	0.00	1.97	0.37	2.77	0.84	3.07
40	Basti Gode Shah Shah	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.64	0.00	2.15	0.00	2.55
41	Basti Johiyan and nearby 1 Settlement	H,M,L	VEHARI	0.00	0.00	0.33	0.58	1.12	1.36	1.33	1.58
42	Basti Shirazi and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	1.24	1.78	2.18	2.61	2.66	3.11
43	Basti Bahu and nearby 2 Settlements	H,M,L	VEHARI	0.00	0.00	1.11	1.79	1.12	3.73	2.11	3.78
44	Basti Dakwali	H,M,L	VEHARI	0.00	0.00	0.67	1.25	1.31	2.89	1.62	3.20
45	Basti Khokharan	H,M,L	BAHAWALNAGAR	0.00	0.00	0.86	0.90	1.75	2.78	1.82	2.85
46	Basti Mir Khan	H,M,L	BAHAWALNAGAR	0.00	0.00	1.09	1.26	1.47	2.67	1.97	3.14
47	Basti Moharan Wali	H,M,L	VEHARI	0.00	0.00	1.09	1.37	1.62	2.89	2.01	3.29
48	Basti Sial and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.88	1.86	1.09	2.08	1.89	2.87
49	Bhaini Dhodian and 3 Settlements	H,M,L	VEHARI	0.00	0.00	1.14	1.88	2.00	2.51	2.08	2.84
50	Bhaini H Sulama	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.30	0.16	2.55	0.28	3.15
51	Bhaini Balochan	H,M,L	VEHARI	0.00	0.00	1.54	1.70	2.11	2.29	2.50	2.66
52	Bhaini Chanianwala and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.36	1.44	1.66	3.73	2.36	3.93
53	Bhaini G.Farid	H,M,L	BAHAWALNAGAR	0.00	0.00	1.30	2.21	1.56	2.54	2.34	3.26
54	Bhaini H.Amin	H,M,L	BAHAWALNAGAR	0.00	0.00	1.27	2.62	1.33	2.95	2.30	3.08
55	2 Settlements nearby Bhatian	H,M,L	VEHARI	0.00	0.00	0.00	2.16	0.57	2.25	1.48	3.22
56	Bhinda Hussain and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.53	2.02	2.48	3.86	2.55	4.02
57	Bhinda Karam Khan and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.10	1.82	2.10	3.62	2.28	3.82
58	Bhinda Samand	H,M,L	BAHAWALNAGAR	0.00	0.00	1.92	2.15	1.98	3.23	2.74	3.97
59	1 Settlement nearby	H,M,L	VEHARI	0.00	0.00	0.18	1.67	1.18	2.68	1.84	3.35
60	Bunga and nearby 1 Settlement	H,M,L	VEHARI	0.00	0.00	1.45	1.87	2.14	3.54	2.40	3.81
61	Bunga Baloch and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.65	2.17	2.89	2.96	3.68
62	Chanipur and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.53	1.49	3.63	2.37	4.10
63	Din Panah and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.44	0.05	2.06	0.08	2.39
64	Dulla Akuka and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	1.50	2.94	1.91	3.19	2.57	4.05
65	Dullah Bhadera	H,M,L	BAHAWALNAGAR	0.00	0.00	0.22	1.28	1.58	2.69	2.10	3.17
66	Dullawala	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.11	1.37	2.91	1.49	3.08
67	Farid Shah	H,M,L	BAHAWALNAGAR	0.00	0.00	1.61	1.67	2.01	3.05	2.65	3.71
68	Faridkot	H,M,L	BAHAWALNAGAR	0.00	0.00	2.08	2.26	2.70	3.90	3.04	4.23
69	Gahi Shah and nearby 1 Settlement	H,M,L	VEHARI	0.00	0.00	1.56	1.76	2.40	3.57	2.49	3.69
70	Gul Shah and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	2.36	0.06	3.12	0.18	3.30
71	Hindala Khas	H,M,L	VEHARI	0.00	0.00	0.00	0.57	1.17	1.30	2.10	1.56	2.16
72	1 Settlement nearby Hisama	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	2.05	0.00	3.68	0.00	4.01
73	Hithar Binda	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.66	0.48	3.11	1.01	3.55
74	Islampura	H,M,L	BAHAWALNAGAR	0.00	0.00	1.39	1.44	1.54	2.59	2.35	3.40
75	Jawae Wali Bas and nearby 4 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.83	1.69	2.89	1.72	3.77
76	Jumman Shah and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.28	0.53	3.07	0.59	3.23
77	Kahir Kot and 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.76	0.80	2.93	1.00	3.72
78	Kalia Shah and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.55	3.12	1.36	3.83	1.50	4.07
79	Kaliawala and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.34	1.27	1.40	2.15	2.30
80	Kamera Basti	H,M,L	BAHAWALNAGAR	0.00	0.00	1.10	1.19	2.23	3.32	3.04	4.13
81	Karimwala Khu	H,M,L	VEHARI	0.00	0.00	1.32	1.61	1.35	3.64	2.37	3.66
82	Khand Baloch	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.69	2.01	2.93	2.79	3.71
83	Kharralan wali and nearby 1 Settlement	H,M,L	VEHARI	0.00	0.00	0.61	1.22	1.42	3.05	1.61	3.23
84	Kot Qadar Bakhsh	H,M,L	VEHARI	0.00	0.00	0.85	1.76	1.52	3.38	1.83	3.72
85	Kot Babale	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.56	0.66	2.34	0.90	2.53
86	Kot Nimat	H,M,L	BAHAWALNAGAR	0.00	0.00	1.25	1.36	1.89	3.01	2.20	3.31
87	Ladhere and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.87	0.92	2.96	1.96	3.97
88	Lakha and nearby 1 Settlement	H,M,L	VEHARI	0.00	0.00	0.66	2.12	1.94	2.40	2.67	3.12
89	Lashkarwali	H,M,L	BAHAWALNAGAR	0.00	0.00	0.78	1.00	1.66	3.86	1.77	3.98
90	Lura	H,M,L	BAHAWALNAGAR	0.00	0.00	0.90	1.75	1.73	3.58	2.00	3.85
91	Madhar and nearby 3 Settlements	H,M,L	VEHARI	0.00	0.00	0.00	1.64	0.65	2.82	1.00	3.60
92	Mangher Sharif	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.66	1.53	2.73	2.42	3.61
93	Mauj Mahar and nearby 3 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	1.90	2.61	1.92	3.12	2.69	3.34
94	MianPur	H,M,L	VEHARI	0.00	0.00	1.20	1.33	2.16	3.28	2.19	3.31
95	Miran Shah and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	1.41	1.93	1.60	2.24	2.51	3.03
96	Miru Baloch and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.03	2.10	1.11	3.29	2.04	4.00
97	Motianwali	H,M,L	VEHARI	0.00	0.00	1.13	1.49	2.01	3.35	2.23	3.59
98	Mouza Saldera and nearby 1 Settlement	H,M,L	VEHARI	0.00	0.00	0.16	1.49	0.22	2.53	1.09	3.43
99	Muhammad Azim and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	1.47	1.88	1.71	3.10	2.32	3.73
100	Mungar	H,M,L	VEHARI	0.00	0.00	1.88	1.98	2.51	3.62	2.84	3.93
101	Murad Ali	H,M,L	VEHARI	0.00	0.00	0.10	1.51	0.84	3.20	1.09	3.49
102	Nisarpur	H,M,L	BAHAWALNAGAR	0.00	0.00	1.49	1.70	1.67	2.87	2.49	3.69
103	Nunan Basti and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	1.56	2.07	2.51	3.04	2.55	4.06
104	Nuran Baloch	H,M,L	BAHAWALNAGAR	0.00	0.00	0.00	1.83	0.00	3.28	0.00	3.72
105	Para Pathanada	H,M,L	BAHAWALNAGAR	0.00	0.00	1.75	2.04	2.33	3.61	2.71	3.99
106	Patai and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.90	1.89	1.16	3.13	1.93	3.91
107	Rahim Shah	H,M,L	VEHARI	0.00	0.00	1.50	2.01	2.30	3.80	2.43	3.94
108	Rajbewali	H,M,L	BAHAWALNAGAR	0.00	0.00	0.94	1.19	0.98	2.23	1.94	3.19
109	Rajushah	H,M,L	BAHAWALNAGAR	0.00	0.00	1.31	1.74	2.16	3.61	2.27	3.70
110	Sadhuwala	H,M,L	BAHAWALNAGAR	0.00	0.00	1.34	1.40	2.17	3.24	2.32	3.38
111	Sahuka and nearby 1 Settlement	H,M,L	VEHARI	0.00	0.00	0.00	1.88	0.02	3.28	0.10	3.96
112	Said Nagar	H,M,L	VEHARI	0.00	0.00	0.00	1.01	0.41	2.69	0.73	3.95
113	Shah Adam	H,M,L	BAHAWALNAGAR	0.00	0.00	0.33	1.05	1.55	3.25	2.44	4.06
114	Shahbaz Kot	H,M,L	BAHAWALNAGAR	0.00	0.00	1.75	1.89	2.50	3.61	2.72	3.86
115	Sujo Kamera and nearby 2 Settlements	H,M,L	BAHAWALNAGAR	0.00	0.00	1.08	1.72	1.21	2.88	2.03	3.67

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 80,000 Cusec below Suleimanki		Inundation Depth at Discharge of 150,000 Cusec below Suleimanki		Inundation Depth at Discharge of 250,000 Cusec below Suleimanki		Inundation Depth at Discharge of 350,000 Cusec below Suleimanki	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
116	Talian Wala	H,M,L	BAHAWALNAGAR	0.00	0.00	1.09	1.21	2.00	3.13	2.05	3.18
117	Tanaza	H,M,L	BAHAWALNAGAR	0.00	0.00	1.71	2.06	2.50	3.82	2.71	4.05
118	Therigi Balucha	H,M,L	BAHAWALNAGAR	0.00	0.00	1.56	1.82	1.73	2.98	2.39	3.66
119	Thingi	H,M,L	BAHAWALNAGAR	0.00	0.00	1.00	1.22	1.12	3.33	1.94	4.16
120	Walia Baloch	H,M,L	VEHARI	0.00	0.00	0.00	1.09	1.24	3.02	1.31	3.08
121	Wasir	H,M,L	VEHARI	0.00	0.00	1.53	2.08	2.19	2.74	2.51	3.06
122	Wattu and nearby 1 Settlement	H,M,L	BAHAWALNAGAR	0.00	0.00	0.78	1.88	2.76	3.74	2.88	3.98
123	Datani	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	1.33	3.53	2.45	3.65
124	Karmani	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	1.40	2.83	1.66	3.04
125	M.S.Fettani	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.99	2.19	1.93	3.11
126	Mehta Jhedu and nearby 7 Settlements	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.00	1.10	0.00	1.35
127	Mochipura	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.30	1.03	1.17	1.96
128	Pir Shah Fettani and nearby 2 Settlements	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.98	2.36	1.03	2.46
129	Samani	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	1.61	2.98	1.89	3.22
130	2 Settlements nearby Tiloka	M,L	BAHAWALNAGAR	0.00	0.00	0.00	0.00	0.05	1.12	0.06	1.79

Sutlej River - Sheet No. 8

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 80,000 Cusec below Islam		Inundation Depth at Discharge of 115,000 Cusec below Islam		Inundation Depth at Discharge of 190,000 Cusec below Islam		Inundation Depth at Discharge of 265,000 Cusec below Islam	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Basti Bhinda and nearby 3 Settlements	VH,H,M,L	BAHAWALPUR	0.00	0.30	0.00	0.65	0.12	1.53	0.24	1.70
2	Basti Bhinda Naye and nearby 2 Settlements	VH,H,M,L	BAHAWALPUR	0.00	0.41	0.00	0.76	0.79	1.61	0.87	1.71
3	Basti Ghulam Wali	VH,H,M,L	BAHAWALPUR	0.00	0.34	0.10	0.53	1.28	1.40	1.51	1.63
4	Bhattian di Basti	VH,H,M,L	BAHAWALPUR	0.00	0.24	0.00	0.52	0.02	0.78	0.12	0.88
5	8 Settlements nearby Bhindwala Khu	VH,H,M,L	BAHAWALPUR	0.00	1.03	0.00	1.47	0.00	2.22	0.00	2.31
6	Chadrar Bhinda and nearby 1 Settlement	VH,H,M,L	BAHAWALPUR	0.00	0.56	0.32	1.00	1.32	1.87	1.41	2.13
7	1 Settlement nearby Hamur Wasir	VH,H,M,L	VEHARI	0.00	0.21	0.00	0.62	0.18	0.88	0.28	0.97
8	Jhok Randuwala and nearby 2 Settlements	VH,H,M,L	BAHAWALPUR	0.00	0.31	0.00	0.81	0.48	1.15	0.69	1.38
9	Basti Waills and nearby 8 Settlements	VH,H,M,L	VEHARI	0.00	0.28	0.00	0.82	0.00	1.05	0.00	1.20
10	Jhok Jamal Khan	VH,H,M,L	BAHAWALPUR	0.00	0.72	0.00	0.95	0.00	1.10	0.56	1.50
11	Nasirpur and nearby 3 Settlements	VH,H,M,L	BAHAWALPUR	0.00	0.18	0.00	0.94	0.00	1.23	0.00	1.62
12	5 Settlements nearby Alampur	H,M,L	VEHARI	0.00	0.00	0.00	0.58	0.00	1.45	0.00	1.67
13	Basti Dultana and nearby 3 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	0.90	0.00	1.78	1.00	1.95
14	Deda	H,M,L	BAHAWALPUR	0.00	0.00	0.00	0.16	0.00	0.78	0.22	1.00
15	5 Settlements nearby Ghauspur	H,M,L	VEHARI	0.00	0.00	0.00	1.36	0.00	2.46	0.00	3.35
16	6 Settlements nearby Khairo di Basti	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.08	0.00	1.84	0.00	1.98
17	2 Settlements nearby Malsi Syphon	H,M,L	VEHARI	0.00	0.00	0.87	1.90	1.49	3.14	1.76	3.87
18	Nagana di Basti and nearby 4 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.14	0.40	2.99	0.80	3.01
19	Sialan di Basti and nearby 3 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	0.64	0.00

Inundation Depth of Settlements along Sutlej River

Sutlej River - Sheet No. 10

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 80,000 Cusec below Islam		Inundation Depth at Discharge of 115,000 Cusec below Islam		Inundation Depth at Discharge of 190,000 Cusec below Islam		Inundation Depth at Discharge of 265,000 Cusec below Islam	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Adam Wahan and nearby 2 Settlements	VH,H,M,L	LODHRAN	0.00	0.82	0.00	1.02	0.00	1.29	0.00	1.48
2	Basti Khan Muhammad and nearby 11 Settlements	VH,H,M,L	LODHRAN	0.00	0.71	0.00	1.08	0.40	2.28	0.55	2.45
3	Goth Ghani and nearby 5 Settlements	VH,H,M,L	BAHAWALPUR	0.00	0.65	0.00	1.29	0.00	2.04	0.00	2.28
4	Jhok Janwar and nearby 2 Settlements	VH,H,M,L	BAHAWALPUR	0.00	0.98	0.00	1.32	0.00	1.71	0.00	2.12
5	Jagir Kiri and nearby 3 Settlements	VH,H,M,L	LODHRAN	0.00	0.73	0.00	1.14	0.46	1.87	0.69	2.11
6	Jhoke Babian and nearby 1 Settlement	VH,H,M,L	BAHAWALPUR	0.00	0.32	0.00	0.81	0.00	1.02	0.39	1.15
7	Nawan Khu	VH,H,M,L	BAHAWALPUR	0.00	0.19	0.00	0.42	0.00	0.86	0.00	1.12
8	1 Settlement nearby Basti Ropri	VH,H,M,L	BAHAWALPUR	0.00	0.41	0.00	0.78	0.00	1.12	0.37	1.52
9	Basti Lal Kamal and nearby 3 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	0.38	0.22	1.00	0.45	1.23
10	Basti Maish and nearby 7 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	0.38	0.62	1.49	0.79	1.66
11	Basti Mian and nearby 6 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	0.46	0.61	1.66	0.79	1.84
12	Basti Anbar	H,M,L	BAHAWALPUR	0.00	0.00	0.00	0.50	0.00	1.15	0.00	1.36
13	Basti Bangla and nearby 3 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	0.68	0.00	1.71	0.00	1.86
14	Basti Mian Sahib and nearby 11 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.45	0.43	2.19	0.55	2.26
15	Jhok Lal Suhanra and nearby 2 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	0.29	0.07	0.42	0.82	1.18
16	Jhok Malik Elahi Bakhsh and nearby 1 Settlement	H,M,L	BAHAWALPUR	0.00	0.00	0.00	0.44	0.91	1.38	1.07	1.54
17	Jhok Rahim Bakhsh Jhabil	H,M,L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.38	0.11	0.80
18	Jhok Tarar and nearby 4 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	1.12	0.31	2.18	0.47	2.34
19	Jhok Kasranwan	H,M,L	BAHAWALPUR	0.00	0.00	0.00	0.20	0.00	1.13	0.15	1.28
20	Khanwali and nearby 4 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	0.98	0.00	1.72	0.00	1.96
21	Munshi Wala	H,M,L	LODHRAN	0.00	0.00	0.56	1.30	1.79	2.54	1.97	2.73
22	Wadhawe wala and nearby 4 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	0.36	0.92	1.46	1.09	1.64
23	5 Settlements nearby Basti Miani	M,L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	1.38	0.00	1.56
24	Dargahpur and nearby 3 Settlements	M,L	LODHRAN	0.00	0.00	0.00	0.00	0.76	1.41	0.94	1.59
25	4 Settlements nearby Adamwahn Bridge	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45
26	1 Settlement nearby Ain Wahan	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.40
27	1 Settlement nearby Azizabad	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.56
28	1 Settlement nearby Baqir Pur	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.80
29	1 Settlement nearby Basti Arain	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
30	Basti Faqiria	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.60
31	Basti Ghulam Qadri and nearby 4 Settlements	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.50	1.66
32	Basti Haji Allah Bakhsh	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35
33	2 Settlements nearby Basti Hurian	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
34	Basti Kumharan and nearby 3 Settlements	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.82
35	1 Settlement nearby Basti Salan	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.71
36	Basti Taliwala and nearby 1 Settlement	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54
37	Basti Wilayat and nearby 4 Settlements	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68
38	Basti Harian	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35
39	Basti Khandan	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77
40	Budh Wala	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
41	Chachanwali and nearby 2 Settlements	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
42	Dera Jand and nearby 2 Settlements	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80
43	1 Settlement nearby Gharibabad	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
44	Gidran and nearby 5 Settlements	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26
45	5 Settlements nearby Goth Lashkar	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1.48
46	1 Settlement nearby Haji Rahim Bakhsh	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.69
47	Hisam Basti and nearby 1 Settlement	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.92
48	Hurian and nearby 1 Settlement	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.07	1.16
49	Jandwala and nearby 3 Settlements	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01
50	Jas and nearby 1 Settlement	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
51	3 Settlements nearby Jhok Ahmadyar	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.55
52	Jhok Allah Dita	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
53	Jhok Allah Ditta	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.93
54	Jhok Ghulam Ahmad	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.49
55	Jhok Ghulam Nab and nearby 3 Settlements	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17
56	Jhok Hassanwali	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.90
57	Jhok Khanwali	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.65
58	Jhok Machhian Wali and nearby 8 Settlements	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.99
59	Khan Wala and nearby 2 Settlements	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.79	1.15
60	Kikriwala	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.65
61	Kotla Chandan	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
62	Miani Jhabelian	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66
63	Musawala and nearby 4 Settlements	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.18	1.09
64	Nai Basti and nearby 2 Settlements	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.36	1.10
65	Nalewala and nearby 6 Settlements	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35
66	Nawabpura and nearby 1 Settlement	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72
67	4 Settlements nearby Panunwala	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13
68	Sardarwala and nearby 13 Settlements	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99
69	Shahi Sherki Khangah	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09
70	Sharifabad and nearby 3 Settlements	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39

Sutlej River - Sheet No. 11

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 80,000 Cusec below Islam		Inundation Depth at Discharge of 115,000 Cusec below Islam		Inundation Depth at Discharge of 190,000 Cusec below Islam		Inundation Depth at Discharge of 265,000 Cusec below Islam	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Basti Haji Ghulam Muhammad and nearby 5 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.52	0.00	1.94	0.00	2.59	0.00	2.66
2	Basti Pir Lal Wali and nearby 6 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.43	0.00	1.95	0.00	2.39	0.30	2.68
3	Basti Rang Godam and nearby 26 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.81	0.00	2.57	0.09	3.15	0.25	3.28
4	Basti Jhallanwali and nearby 7 Settlements	VH,H,M,L	MULTAN	0.00	1.86	1.63	2.02	2.36	2.75	2.48	2.88
5	Basti Jianwali and nearby 6 Settlements	VH,H,M,L	BAHAWALPUR	0.00	2.21	1.80	2.88	2.52	3.59	2.67	3.76
6	Basti Muham Wali and nearby 7 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.24	0.00	1.64	0.49	2.20	0.70	2.39
7	Basti Utra	VH,H,M,L	LODHRAN	0.00	2.02	1.98	2.14	2.48	2.65	2.70	2.86
8	Chah Elahi Bakhshwala and nearby 3 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.05	0.00	1.36	0.66	2.11	0.72	2.12
9	Ilahi Bakhshwala and nearby 6 Settlements	VH,H,M,L	LODHRAN	0.00	1.73	0.94	2.06	1.63	2.71	1.76	2.84
10	Jhoke Garde Wali and nearby 10 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.31	1.00	1.97	1.65	2.64	1.77	2.76
11	Manhora	VH,H,M,L	MULTAN	0.00	1.38	1.35	1.49	2.10	2.24	2.26	2.40
12	Miani Jhanda and nearby 24 Settlements	VH,H,M,L	MULTAN	0.00	1.24	0.18	1.96	0.96	2.75	1.10	2.88
13	Pahor Wala and nearby 3 Settlements	VH,H,M,L	MULTAN	0.00	1.12	0.68	1.30	1.47	2.10	1.60	2.22
14	Toki Sikandar and nearby 17 Settlements	VH,H,M,L	LODHRAN	0.00	2.58	1.03	3.42	1.56	3.88	1.74	4.14
15	Toki Tarkhanan and nearby 7 Settlements	VH,H,M,L	BAHAWALPUR	0.00	2.27	0.97	2.67	1.56	3.13	1.72	3.41
16	Abbas Nagar and nearby 16 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	1.30	0.24	1.83	0.42	2.03
17	Alipur Asar	H,M,L	LODHRAN	0.00	0.00	1.92	2.32	2.52	2.92	2.68	3.07
18	Bahadur Pur and nearby 7 Settlements	H,M,L	MULTAN	0.00	0.00	0.00	3.60	0.00	4.35	0.00	4.51
19	Bahimabad and nearby 15 Settlements	H,M,L	LODHRAN	0.00	0.00	1.03	3.49	1.55	4.12	1.78	4.25
20	4 Settlements nearby Basti Abdullah Pir	H,M,L	BAHAWALPUR	0.00	0.00	0.99	3.11	1.72	3.85	1.85	3.98
21	Basti Araian and nearby 15 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	1.19	2.86	1.89	3.58	2.07	3.75
22	Basti Chanar and nearby 4 Settlements	H,M,L	LODHRAN	0.00	0.00	1.47	2.38	1.96	2.86	2.20	3.12
23	Basti Ghulaman and nearby 8 Settlements	H,M,L	LODHRAN	0.00	0.00	1.60	3.10	2.06	3.62	2.33	3.85
24	6 Settlements nearby Basti Jhabil	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.48	0.35	2.22	0.48	2.39
25	9 Settlements nearby Basti Jhallanwali	H,M,L	MULTAN	0.00	0.00	0.67	2.12	1.41	2.83	1.54	2.96
26	Basti Kameman Lal and nearby 6 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	0.48	0.37	1.12	0.53	1.27
27	Basti Kot Dadu Wali and nearby 7 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.42	0.00	2.00	0.00	2.17
28	Basti Lala Shahbaz and nearby 2 Settlements	H,M,L	MULTAN	0.00	0.00	0.82	2.92	1.50	3.61	1.64	3.74
29	3 Settlements nearby Basti Lona	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.79	0.00	2.46	0.00	2.58
30	Basti Muhammad Bakhsh and nearby 5 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	1.60	2.05	2.11	2.53	2.35	2.79
31	Basti Pir Auliya and nearby 14 Settlements	H,M,L	MULTAN	0.00	0.00	1.11	2.89	1.84	3.63	2.01	3.80
32	Basti Sarhatta and nearby 8 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	0.85	0.62	1.53	0.71	1.61
33	Basti Sawan and nearby 4 Settlements	H,M,L	LODHRAN	0.00	0.00	0.22	1.94	0.80	2.53	0.94	2.65
34	Basti Wasu Khan Utere and nearby 9 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.76	2.57	1.35	3.15	1.47	3.28
35	Basti Awan and nearby 3 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.07	0.71	0.51	1.18	0.80	1.45
36	Basti Bhatian Wala and nearby 3 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.82	0.00	2.50	0.00	2.62
37	Basti Devat Wali and nearby 2 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.17	0.79	0.67	1.29	0.92	1.53
38	Basti Diwan and nearby 8 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.95	0.00	2.49	0.00	2.66
39	Basti Gujjian Wali and nearby 2 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	0.69	0.00	1.11	0.14	1.43
40	Basti Jalalabad and nearby 7 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	2.10	0.00	2.56	0.00	2.82
41	Basti Kallar Wali and nearby 3 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	0.92	0.03	1.69	0.05	2.68
42	Basti Lang	H,M,L	MULTAN	0.00	0.00	2.99	3.16	3.75	3.92	3.90	4.08
43	Basti Loharan and nearby 4 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	2.08	0.00	2.76	0.00	2.89
44	Basti Moulawian Wali and nearby 5 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.16	0.00	1.68	0.00	1.88
45	Basti Pakhiwar and nearby 6 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	2.14	0.00	2.88	0.00	3.01
46	Bhagri Wala and nearby 5 Settlements	H,M,L	LODHRAN	0.00	0.00	1.22	2.32	1.78	2.91	1.97	3.08
47	Bhandi and nearby 11 Settlements	H,M,L	MULTAN	0.00	0.00	1.84	3.05	2.57	3.78	2.69	3.91
48	Bhitwai and nearby 19 Settlements	H,M,L	MULTAN	0.00	0.00	1.00	2.23	1.69	2.94	1.89	3.11
49	Chak 89 and nearby 6 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	0.69	0.15	1.24	0.31	1.42
50	1 Settlement nearby Chanwala	H,M,L	MULTAN	0.00	0.00	1.63	2.86	2.36	3.59	2.81	3.74
51	6 Settlements nearby Chhutowala	H,M,L	MULTAN	0.00	0.00	0.00	1.85	0.29	2.52	0.41	2.64
52	Chutala and nearby 3 Settlements	H,M,L	LODHRAN	0.00	0.00	1.02	1.78	1.64	2.41	1.78	2.54
53	Dali Wala and nearby 7 Settlements	H,M,L	LODHRAN	0.00	0.00	2.42	3.31	3.07	3.97	3.19	4.10
54	Dipal and nearby 5 Settlements	H,M,L	MULTAN	0.00	0.00	2.36	3.49	3.09	4.22	3.25	4.38
55	Faridwala and nearby 6 Settlements	H,M,L	LODHRAN	0.00	0.00	0.77	2.59	1.47	3.27	1.59	3.40
56	Fath Wala and nearby 2 Settlements	H,M,L	MULTAN	0.00	0.00	1.13	2.10	1.84	2.81	2.03	2.99
57	Fazal Chowk and nearby 2 Settlements	H,M,L	MULTAN	0.00	0.00	2.07	2.54	2.76	3.22	2.89	3.35
58	Fazal Colony and nearby 5 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	0.63	0.00	1.27	0.00	1.39
59	Gagan Natta and nearby 7 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	1.07	0.00	1.60	0.00	1.79
60	3 Settlements nearby Gang	H,M,L	MULTAN	0.00	0.00	1.54	2.12	2.31	2.92	2.46	3.04
61	Ghoghi and nearby 11 Settlements	H,M,L	MULTAN	0.00	0.00	1.23	2.44	1.96	3.16	2.14	3.34
62	Goth Gahna Wali and nearby 10 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.66	0.00	2.39	0.00	2.42
63	Hayat Pur and nearby 12 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	1.60	0.26	2.12	0.45	2.32
64	Ismailabad and nearby 7 Settlements	H,M,L	MULTAN	0.00	0.00	1.32	2.94	2.02	3.62	2.14	3.74
65	Jahana Motha and nearby 1 Settlement	H,M,L	MULTAN	0.00	0.00	1.87	2.94	2.52	3.58	2.65	3.70
66	Jal Wala and nearby 9 Settlements	H,M,L	LODHRAN	0.00	0.00	0.97	3.05	1.54	3.61	1.72	3.80
67	Jarrahi Wala and nearby 13 Settlements	H,M,L	LODHRAN	0.00	0.00	0.68	2.10	1.18	2.59	1.42	2.84
68	Jhak Warhialian Wali and nearby 3 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.69	1.75	1.32	2.38	1.45	2.51
69	Jharjbu and nearby 8 Settlements	H,M,L	MULTAN	0.00	0.00	0.42	1.96	1.16	2.69	1.33	2.86
70	Jhok Utran and nearby 16 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	1.98	0.51	2.52	0.73	2.70
71	Jhok Janan and nearby 12 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	1.89	0.49	2.47	0.60	2.60
72	Kachiwah Basti and nearby 1 Settlement	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.33	0.00	1.91	0.00	2.04
73	Karpal and nearby 9 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.05	0.00	1.57	0.00	1.79
74	Khan Wah and nearby 7 Settlements	H,M,L	LODHRAN	0.00	0.00	0.43	1.42	0.94	1.93	1.16	2.15
75	Kochhewala and nearby 13 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	2.16	0.17	2.74	0.35	2.90
76	Kot Pir Shahadat	H,M,L	LODHRAN	0.00	0.00	0.00	1.20	0.00	1.72	0.00	1.92
77	3 Settlements nearby Kotla More	H,M,L	MULTAN	0.00	0.00	1.91	3.07	2.65	3.80	2.79	3.94
78	Kotla Shah Rasool and nearby 8 Settlements	H,M,L	MULTAN	0.00	0.00	0.85	2.41	1.57	3.13	1.73	3.29
79	Kotla Chakor and nearby 9 Settlements	H,M,L	MULTAN	0.00	0.00	0.48	2.42	1.22	3.15	1.35	3.27
80	Laddewala and nearby 8 Settlements	H,M,L	MULTAN	0.00	0.00	1.33	2.46	2.03	3.19	2.16	3.31
81	Lasuri Wala and nearby 10 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	1.50	0.22	2.09	0.39	2.23
82	Mariwala and nearby 10 Settlements	H,M,L	MULTAN	0.00	0.00	2.25	2.83	2.99	3.58	3.14	3.72
83	Miani and nearby 5 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.98	1.49	1.53	2.04	1.73	2.24
84	Miani Motha and nearby 1 Settlement	H,M,L	MULTAN	0.00	0.00	1.11	2.31	1.78	3.00	2.73	3.13
85	Motha and nearby 5 Settlements	H,M,L	MULTAN	0.00	0.00	2.03	2.65	2.76	3.35	2.89	3.47
86	Murad Pur and nearby 6 Settlements	H,M,L	LODHRAN	0.00	0.00	0.77	2.77	1.28	3.28	1.51	3.51
87	Musa Wala and nearby 5 Settlements	H,M,L	MULTAN	0.00	0.00	2.67	3.34	3.33	4.02	3.46	4.15
88	Nai Basti and nearby 4 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	2.22	0.00	2.87	0.00	2.99
89	Nauraja Bhutta and nearby 9 Settlements	H,M,L	MULTAN	0.00	0.00	0.49	2.05	1.26	2.82	1.40	2.96
90	5 Settlements nearby Nunari	H,M,L	BAHAWALPUR	0.00	0.00	0.00	1.69	0.56	2.40	0.62	2.49
91	Pakka Munna and nearby 6 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	1.75	0.00	2.34	0.00	2.50
92	13 Settlements nearby Pipli Rajan	H,M,L	BAHAWALPUR	0.00	0.00	0.00	2.58	0.00	3.29	0.00	3.46
93	Pul Sodalwali and nearby 4 Settlements	H,M,L	LODHRAN	0.00	0.00	0.74	1.74	1.30	2.31	1.47	2.47
94	Qurashiwala and nearby 2 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	1.90	0.00	2.49	0.00	2.65
95	Saidiwala and nearby 12 Settlements	H,M,L	LODHRAN	0.00	0.00	0.99	2.99	1.58	3.50	1.75	3.74
96	Sajawal Pur	H,M,L	MULTAN	0.00	0.00	2.50	3.14	3.29	3.93	3.42	4.06
97	Sawewala and nearby 9 Settlements	H,M,L	MULTAN	0.00	0.00	2.06	3.17	2.80	3.94	2.97	4.09
98	Shajerawala and nearby 3 Settlements	H,M,L	MULTAN	0.00	0.00	1.24	2.59	1.91	3.28	2.04	3.41
99	Sher Girwan and nearby 2 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.92	1.53	1.49	2.11	1.62	2.24
100	Silband Wala and nearby 4 Settlements	H,M,L	LODHRAN	0.00	0.00	1.01	2.63	1.57	3.15	1.76	3.38
101	Sui Wala and nearby 3 Settlements	H,M,L	LODHRAN	0.00	0.00	0.00	2.49	0.00	3.07	0.00	3.23
102	Suk and nearby 1 Settlement	H,M,L	BAHAWALPUR	0.00	0.00	0.00	0.48	0.64	1.14	0.73	1.23
103	Tar Khanwala	H,M,L	LODHRAN	0.00	0.00	0.95	1.78	1.53	2.37	1.68	2.51
104	Tarkanwali and nearby 2 Settlements	H,M,L	MULTAN	0.00	0.00	1.98	3.20	2.71	3.93	2.87	4.08
105	Tibba Miani and nearby 1 Settlement	H,M,L	BAHAWALPUR	0.00	0.00	0.79	1.15	1.38	1.74	1.50	1.86
106	Tibbi Ghali Wah and nearby 3 Settlements	H,M,L	LODHRAN	0.00	0.00	1.06	2.37	1.60	2.93	1.80	3.12
107	1 Settlement nearby Totawala	H,M,L	MULTAN	0.00	0.00	0.00	2.06	0.00	2.81	0.00	2.96
108	Ukhan Wala	H,M,L	LODHRAN	0.00	0.00	0.83	1.29	1.42	1.88	1.56	2.02
109	Yusuf Wala and 1 Settlement	H,M,L	LODHRAN	0.00	0.00	1.83	2.14	2.47	2.78	2.59	2.90
110	Basti Jan Muhammad and nearby 3 Settlements	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77
111	Basti Main Muhammad Aslam Lindhar	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62
112	Basti Mughalwali and nearby 1 Settlement	L	LODHRAN	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.94

Inundation Depth of Settlements along Chenab River(Confluence Sheets)

Chenab River - Sheet No.17

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 200,000 Cusec below Trimmu		Inundation Depth at Discharge of 425,000 Cusec below Trimmu		Inundation Depth at Discharge of 615,000 Cusec below Trimmu		Inundation Depth at Discharge of 820,000 Cusec below Trimmu	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Bashira Di Basti and nearby 11 Settlements	VH,H,M,L	MULTAN	0.00	1.23	0.81	1.80	1.78	2.78	2.39	3.39
2	Basti Ghulam Muhammad and nearby 8 Settlements	VH,H,M,L	MULTAN	0.00	1.72	0.59	2.00	2.45	2.85	3.01	3.41
3	Basti Kach Pak and nearby 24 Settlement	VH,H,M,L	MULTAN	0.00	1.02	0.39	1.40	1.28	2.29	1.89	2.90
4	Basti Khuda Bakhsh and nearby 4 Settlements	VH,H,M,L	MULTAN	0.00	2.13	0.17	2.64	0.23	3.06	0.72	3.14
5	Basti Salah Qadir and nearby 23 Settlements	VH,H,M,L	MUZAFFARGARH	0.00	1.75	0.11	2.13	0.80	2.81	1.22	3.23
6	Basti Toni and nearby 5 Settlements	VH,H,M,L	MULTAN	0.00	2.13	1.94	2.61	2.85	3.52	3.43	4.09
7	Bhand and nearby 18 Settlements	VH,H,M,L	MUZAFFARGARH	0.00	1.95	0.14	2.46	1.08	3.40	1.72	4.03
8	1 Settlement nearby Gakhran di Basti	H,M,L	MULTAN	0.00	0.00	1.59	2.46	2.49	3.37	3.05	3.92
9	10 Settlements nearby Janjwala	H,M,L	MUZAFFARGARH	0.00	0.00	0.05	2.62	0.19	3.43	0.29	3.95
10	11 Settlements nearby Araianwala	H,M,L	MUZAFFARGARH	0.00	0.00	0.01	2.27	0.55	3.16	0.67	3.77
11	11 Settlements nearby Chah Barinwala	H,M,L	MUZAFFARGARH	0.00	0.00	0.02	2.01	0.49	2.90	0.97	3.51
12	12 Settlements nearby Basti Bullu Sandila	H,M,L	MULTAN	0.00	0.00	0.10	1.64	0.45	2.48	0.98	3.04
13	12 Settlements nearby Basti Khurwala	H,M,L	MULTAN	0.00	0.00	0.23	2.35	0.64	3.20	0.89	3.77
14	20 Settlements nearby Basti Moharan	H,M,L	MULTAN	0.00	0.00	0.15	3.20	0.85	3.89	1.10	4.03
15	6 Settlements nearby Basti Zahidan	H,M,L	MULTAN	0.00	0.00	0.06	2.72	0.21	3.19	0.65	3.46
16	Basti Nachang and nearby 7 Settlements	H,M,L	MULTAN	0.00	0.00	0.09	1.69	0.53	2.57	1.15	3.19
17	8 Settlements nearby Shahpur	H,M,L	MULTAN	0.00	0.00	0.71	3.07	0.88	3.57	1.30	4.01
18	Basira and nearby 8 Settlements	H,M,L	MULTAN	0.00	0.00	0.33	2.08	0.92	3.00	1.50	3.58
19	Basti Darhiwali and nearby 8 Settlements	H,M,L	MULTAN	0.00	0.00	0.31	2.43	1.26	3.37	1.88	4.00
20	Basti Drigh and nearby 12 Settlements	H,M,L	MULTAN	0.00	0.00	2.12	2.21	3.10	3.18	3.73	3.82
21	Basti Ganga and nearby 22 Settlements	H,M,L	MUZAFFARGARH	0.00	0.00	0.09	1.39	0.10	2.06	0.46	2.49
22	Basti Jam and nearby 6 Settlements	H,M,L	MULTAN	0.00	0.00	0.07	2.08	0.27	2.97	0.88	3.58
23	Basti Lag and nearby11 Settlements	H,M,L	MULTAN	0.00	0.00	2.02	2.23	2.17	3.18	2.81	3.82
24	Basti Langah and nearby 2 Settlements	H,M,L	MULTAN	0.00	0.00	0.15	1.86	1.02	2.73	1.59	3.30
25	Basti Sag and nearby 4 Settlements	H,M,L	MULTAN	0.00	0.00	0.06	1.15	0.17	2.14	0.58	2.76
26	Basti Walwat	H,M,L	MULTAN	0.00	0.00	1.02	2.22	1.98	3.18	2.61	3.81
27	Day di Basti and nearby 2 Settlements	H,M,L	MULTAN	0.00	0.00	0.80	3.03	1.68	3.19	2.25	3.76
28	Daye Di Basti and nearby 1 Settlement	H,M,L	MULTAN	0.00	0.00	0.19	1.50	1.15	2.46	1.78	3.09
29	Ganjarian Di Basti and nearby 6 Settlements	H,M,L		0.00	0.00	0.34	1.65	1.02	2.33	1.44	2.75
30	Gul Di Bhindi and nearby 16 Settlements	H,M,L	MULTAN	0.00	0.00	1.47	2.14	2.37	3.03	3.00	4.07
31	Janda Sandila and nearby 7 Settlements	H,M,L	MULTAN	0.00	0.00	0.16	0.76	0.21	2.83	0.36	3.43
32	JHANGi Ahmad Khan	H,M,L	MULTAN	0.00	0.00	0.04	0.61	0.06	1.51	0.11	2.11
33	Jhipal and nearby 4 Settlements	H,M,L		0.00	0.00	1.00	2.94	1.82	3.74	2.38	3.89
34	Kach Piran	H,M,L	MULTAN	0.00	0.00	0.88	3.09	1.76	3.30	2.38	3.59
35	Magwala	H,M,L	MUZAFFARGARH	0.00	0.00	0.32	2.06	0.66	2.95	1.27	3.56
36	Malkan and nearby 7 Settlements	H,M,L	MULTAN	0.00	0.00	0.43	2.82	1.32	3.71	1.93	3.93
37	Markana and nearby 6 Settlements	H,M,L	MULTAN	0.00	0.00	0.24	1.69	1.14	2.60	1.74	3.19
38	Maulvi Atta Di Basti and nearby 7 Settlements	H,M,L	MULTAN	0.00	0.00	2.00	3.03	2.93	3.95	3.48	4.05
39	Paladpur and nearby 4 Settlement	H,M,L	MULTAN	0.00	0.00	1.86	2.03	2.66	2.82	3.22	3.38
40	Qureshiwala and nearby 6 Settlements	H,M,L	MULTAN	0.00	0.00	1.16	1.74	1.83	2.41	2.26	2.84
41	Ranjhe di Basti and nearby 9 Settlements	H,M,L	MULTAN	0.00	0.00	1.17	3.03	2.06	3.21	2.67	3.82
42	Shahr Sultan and nearby 4 Settlements	H,M,L	MUZAFFARGARH	0.00	0.00	0.32	1.95	0.76	2.87	0.82	3.45
43	Shinni Miani and nearby 5 Settlements	H,M,L	MULTAN	0.00	0.00	0.41	3.03	1.40	3.24	2.02	3.85
44	Tharowali and nearby 2 Settlements	H,M,L	MULTAN	0.00	0.00	0.01	2.14	0.02	3.04	0.04	3.64
45	Thatta Makhdumpur and nearby 1 Settlement	H,M,L	MULTAN	0.00	0.00	0.07	0.63	0.40	1.30	0.83	1.73
46	Tibbi Khoranwali and nearby 8 Settlements	H,M,L	MUZAFFARGARH	0.00	0.00	0.04	2.93	0.21	3.60	0.63	4.03
47	Wachha Sandila and nearby 14 Settlements	H,M,L	MULTAN	0.00	0.00	0.93	2.28	1.49	3.19	2.19	3.78
48	Waddi Basti and nearby 10 Settlements	H,M,L	MUZAFFARGARH	0.00	0.00	0.01	1.75	0.09	2.44	0.29	2.85
49	1 Settlement nearby Jatla	M,L	MULTAN	0.00	0.00	0.00	0.00	0.34	1.90	1.23	2.33
50	1 Settlement nearby Mianwala Khu	M,L	MULTAN	0.00	0.00	0.00	0.00	0.88	2.66	1.72	3.21
51	2 Settlements nearby Faizpur	M,L	MUZAFFARGARH	0.00	0.00	0.00	0.00	0.25	1.58	0.76	2.12
52	5 Settlements nearby Wigwali	M,L	MUZAFFARGARH	0.00	0.00	0.00	0.00	0.08	2.72	1.88	3.29
53	Basti Arain and nearby 4 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	2.79	3.90	3.39	4.05
54	Basti Baknsha and nearby 4 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	0.09	2.05	0.67	2.63
55	Basti Jafar and nearby 4 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	1.00	2.53	1.56	3.10
56	Basti Jamwali and nearby 12 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	1.28	3.39	1.87	3.98
57	Basti Karmunwala and nearby 5 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	2.52	3.02	3.62	4.06
58	Basti Laliwala and nearby 3 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	0.16	3.82	0.29	3.94
59	Bhanda and nearby 14 Settlements	M,L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.06	1.68	0.66	2.28
60	Bindah and nearby 15 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	0.88	2.89	1.44	3.46
61	Indrar and nearby 10 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	0.80	3.36	1.96	3.95
62	Khan Bela and nearby 3 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	1.25	2.54	2.68	3.16
63	Langar and nearby 6 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	0.18	1.75	0.75	2.33
64	Lar Janub	M,L	MULTAN	0.00	0.00	0.00	0.00	0.84	3.60	1.45	4.21
65	Nauraja Bhutta and nearby 1 Settlement	M,L	MULTAN	0.00	0.00	0.00	0.00	0.13	1.65	0.76	2.26
66	Rai Da Kotla and nearby 9 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	1.92	2.55	2.53	3.16
67	Seri Shajra and nearby 5 Settlements	M,L	MULTAN	0.00	0.00	0.00	0.00	0.87	3.23	1.27	3.64
68	1 Settlement nearby Jalalpur Pirwala	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.91
69	1 Settlement nearby Shaikh Ismail	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.85
70	12 Settlements nearby Chah Aduwala	L	MUZAFFARGARH	0.00	0.00	0.00	0.00	0.00	0.00	0.06	3.92
71	4 Settlements nearby Basti Lang	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.12	3.47
72	Abaura Janubi and nearby 2 Settlements	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.62
73	Basti Darhi and nearby 3 Settlements	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	3.21	5.18
74	Basti Hafiz and nearby 4 Settlements	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.46	1.43
75	Basti Kachcha Pakka and nearby 1 Settlement	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.11	1.25
76	Basti Mihr Bakhsh and nearby 1 Settlement	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.56
77	Basti Ponta and nearby 17 Settlements	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	2.63	3.38
78	Basti Ramzanwal and nearby 13 Settlements	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.35
79	Basti Aziz	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.93
80	Chhatran Di Basti and nearby 7 Settlements	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.66	1.26
81	Darapur and nearby 3 Settlements	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.96
82	Darhiwala and nearby 6 Settlements	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.41	1.50
83	Gang	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.36	1.12
84	Nurwala and nearby 1 Settlement	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.85
85	Rawan and nearby 5 Settlements	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.52
86	Shujaatabad and nearby 8 Settlements	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.36	1.14
87	Tibbi Suhrab and nearby 3 Settlements	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.46
88	Ziarat Abdullah Bukhari	L	MULTAN	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08

Chenab River - Sheet No.18

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 200,000 Cusec below Panjnad		Inundation Depth at Discharge of 420,000 Cusec below Panjnad		Inundation Depth at Discharge of 640,000 Cusec below Panjnad		Inundation Depth at Discharge of 870,000 Cusec below Panjnad	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Adil Khan and nearby 6 Settlements	VH,H,M,L	BAHAWALPUR	0.00	2.51	2.66	3.00	3.19	3.53	3.57	3.91
2	BAHAWALPUR Chalwan and nearby 19 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.86	1.92	2.46	2.66	3.21	3.17	3.74
3	Basti Jalalwali and nearby 8 Settlements	VH,H,M,L	BAHAWALPUR	0.00	0.73	0.54	1.13	1.22	1.81	1.70	2.29
4	Basti Kachchi and nearby 21 Settlements	VH,H,M,L	MULTAN	0.00	2.21	0.09	2.67	0.68	3.43	1.17	3.93
5	Basti Kalarwali and nearby 3 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.14	0.01	1.52	0.28	2.22	0.77	2.72
6	Basti Muhammad Ali and nearby 4 Settlements	VH,H,M,L	BAHAWALPUR	0.00	2.27	0.37	2.70	0.98	3.32	1.41	3.76
7	Basti Panwan and nearby 9 Settlements	VH,H,M,L	BAHAWALPUR	0.00	2.38	0.06	2.82	0.29	3.29	0.34	3.65
8	Basti Tanwari and nearby 4 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.74	0.69	2.05	1.36	2.72	1.83	3.20
9	Basti Tanwian and nearby 5 Settlements	VH,H,M,L	MULTAN	0.00	2.08	0.81	2.63	1.46	3.28	1.91	3.74
10	Basti Zahidan and nearby 24 Settlements	VH,H,M,L	MULTAN	0.00	1.96	0.76	2.40	1.45	3.10	1.95	3.60
11	Bindah Kot Imam Din and nearby 24 Settlements	VH,H,M,L	MULTAN	0.00	1.87	0.67	2.02	1.41	2.76	1.91	3.25
12	Gadian Di Basti and nearby 4 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.91	0.12	2.15	1.08	2.59	1.79	3.31
13	Jhabil Ghulam Farid and nearby 3 Settlements	VH,H,M,L	MUZAFFARGARH	0.00	1.62	1.41	1.94	2.00	2.53	2.41	2.94
14	Kajjal Miani and nearby 13 Settlements	VH,H,M,L	MULTAN	0.00	0.91	0.72	1.09	1.36	1.92	1.84	2.46
15	Mahbubabad and nearby 4 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.12	0.66	1.30	1.22	1.86	1.62	2.26
16	Muhammad Kabirabad and nearby 10 Settlements	VH,H,M,L	MUZAFFARGARH	0.00	1.28	0.01	1.79	0.02	2.30	0.39	2.67
17	Pakke Di Basti and nearby 2 Settlements	VH,H,M,L	BAHAWALPUR	0.00	1.45	0.03	1.96	0.13	2.64	0.62	3.13
18	Puran Di Basti and nearby 1 Settlement	VH,H,M,L	BAHAWALPUR	0.00	0.83	0.20	1.24	0.42	1.79	0.82	2.20
19	1 Settlement nearby Basti Ghulam Muhammad	H,M,L	MULTAN	0.00	0.00	2.15	4.60	3.02	5.47	3.58	6.03
20	1 Settlement nearby Basti Langah	H,M,L	MULTAN	0.00	0.00	0.57	2.03	1.41	2.89	1.96	3.45
21	1 Settlement nearby Ilahi Bakhsh Jam	H,M,L	BAHAWALPUR	0.00	0.00	2.27	3.23	2.88	3.84	3.31	4.28
22	13 Settlements nearby Dammarwala	H,M,L	MUZAFFARGARH	0.00	0.00	0.04	2.37	0.46	3.10	0.67	3.57
23	3 Settlements nearby Basti Chalbani	H,M,L	MUZAFFARGARH	0.00	0.00	0.10	3.17	0.64	3.29	0.93	3.93
24	4 Settlements nearby Basti Jafar	H,M,L	MULTAN	0.00	0.00	0.08	2.85	0.12	3.72	0.56	4.29
25	4 Settlements nearby Basti Toni	H,M,L	MULTAN	0.00	0.00	0.13	4.37	0.57	5.22	0.68	5.77
26	4 Settlements nearby Inayatpur	H,M,L	BAHAWALPUR	0.00	0.00	0.10	3.13	0.65	3.34	0.94	3.54
27	Basti Adil Khan and nearby 3 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	1.33	2.84	1.84	3.35	2.22	3.73
28	Basti Arain and nearby 9 Settlements	H,M,L	MULTAN	0.00	0.00	0.66	2.52	1.35	3.20	1.81	3.67
29	Basti Borian and nearby 4 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	1.77	2.61	2.34	3.19	2.75	3.62
30	Basti Chakar and nearby 8 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.58	2.84	1.15	3.43	1.56	3.85
31	Basti Jhalin and nearby 9 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.39	2.07	1.00	2.68	1.45	3.13
32	Basti Nur Muhammad and nearby 2 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.08	2.19	0.28	2.75	0.69	3.16
33	Basti Nar	H,M,L	BAHAWALPUR	0.00	0.00	1.12	3.17	1.67	3.71	2.06	4.01
34	Binda Paolian and nearby 3 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.42	2.66	0.80	3.13	1.22	3.48
35	Jhipal	H,M,L	BAHAWALPUR	0.00	0.00	0.01	2.94	0.06	3.74	0.40	4.03
36	Julian Di Basti	H,M,L	BAHAWALPUR	0.00	0.00	0.08	2.46	0.21	3.01	0.62	3.42
37	Khairpur Daha and nearby 4 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	1.53	2.28	2.05	2.80	2.44	3.19
38	Khurampur and nearby 5 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	1.02	2.35	1.29	2.98	1.56	3.43
39	Qaster Di Basti and nearby 1 Settlement	H,M,L	BAHAWALPUR	0.00	0.00	0.11	1.24	0.64	1.78	1.03	2.17
40	Sari Basti and nearby 5 Settlements	H,M,L	BAHAWALPUR	0.00	0.00	0.06	2.34	0.63	2.92	1.05	3.34
41	1Settlement nearby Basti Gabbal	M,L	MUZAFFARGARH	0.00	0.00	0.00	0.00	0.32	1.47	0.74	2.03
42	Hassu Di Basti	M,L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.63	3.16	0.86	3.54
43	Tahraned Bisharat and nearby 2 Settlements	M,L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.11	0.32	0.49	0.71
44	1 Settlement nearby Basti Jangre	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	1.03	1.53
45	Rattar Lal Khan	L	BAHAWALPUR	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.03

Zone*

VH= Inundation Extent Corresponding to PID Medium flood limit

H= High Risk Inundation Zone corresponds to 5 yr return period flood
M= Medium Risk Inundation Zone corresponds to 15 yr return period flood
L= Low Risk Inundation Zone corresponds to 50 yr return period flood