



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

**Water Sector Capacity Building and Advisory
Services Project (WCAP)**

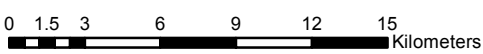
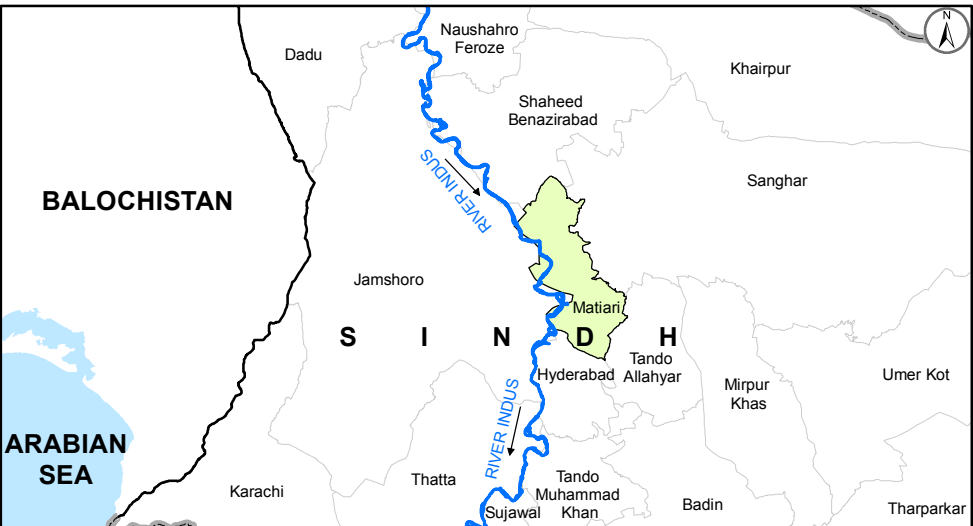
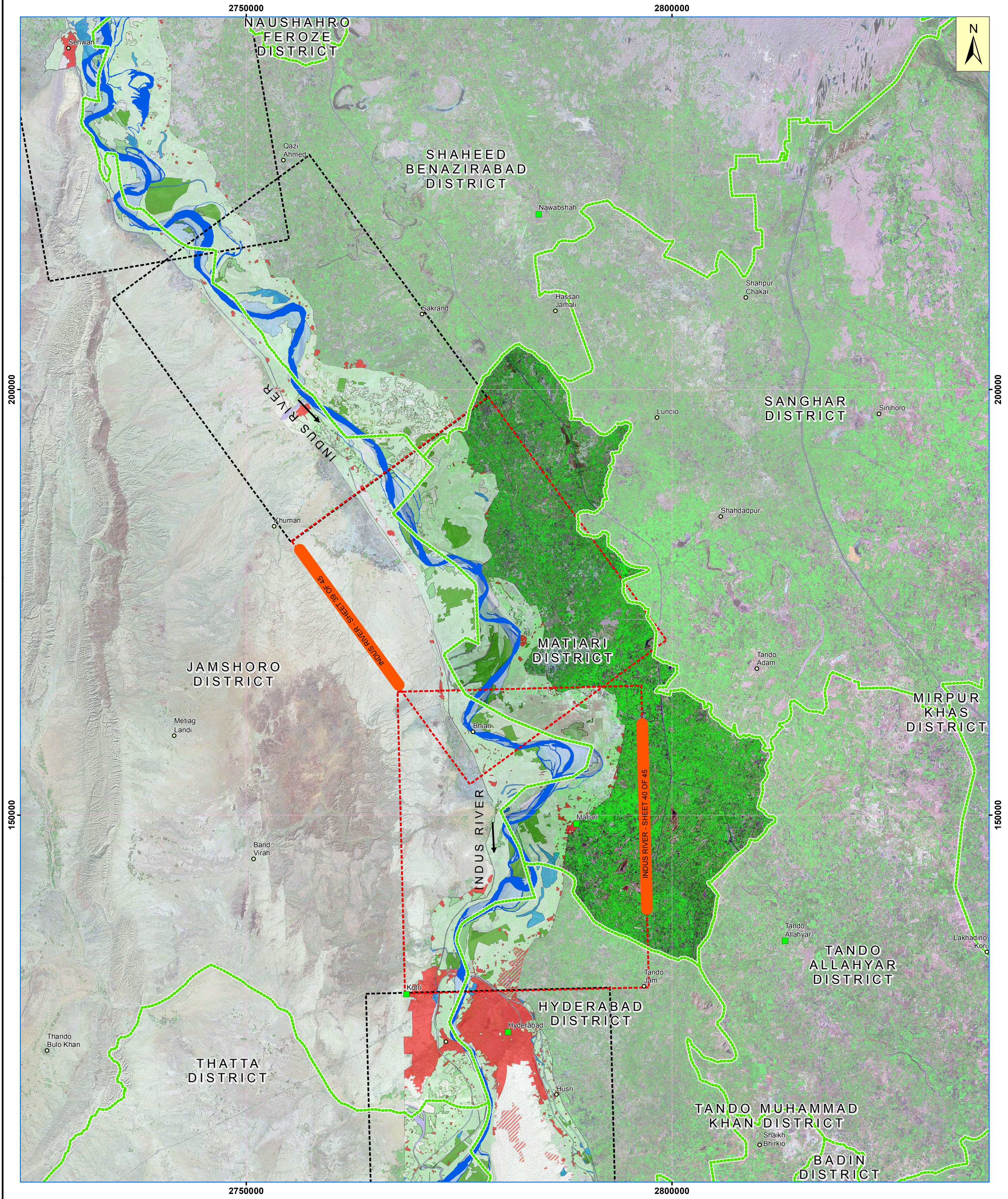
**Development of National Flood Protection Plan-IV (NFPP-IV)
and Related Studies to Enhance the Capacity of
Federal Flood Commission-FFC**

**LANDUSE AND
DISTRICT LEVEL SUBMERGENCE PLANS**

**DISTRICT MATIARI
SINDH PROVINCE**

JUNE 2015

DISTRICT MATIARI



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

DISTRICT MATIARI

Client :
FEDERAL FLOOD COMMISSION
Ministry of Water & Power

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

in association with
DELTAES, THE NETHERLANDS

Rev.	Date:	Description	Ckd.	Ver.

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: March 16, 2015

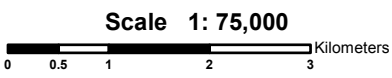
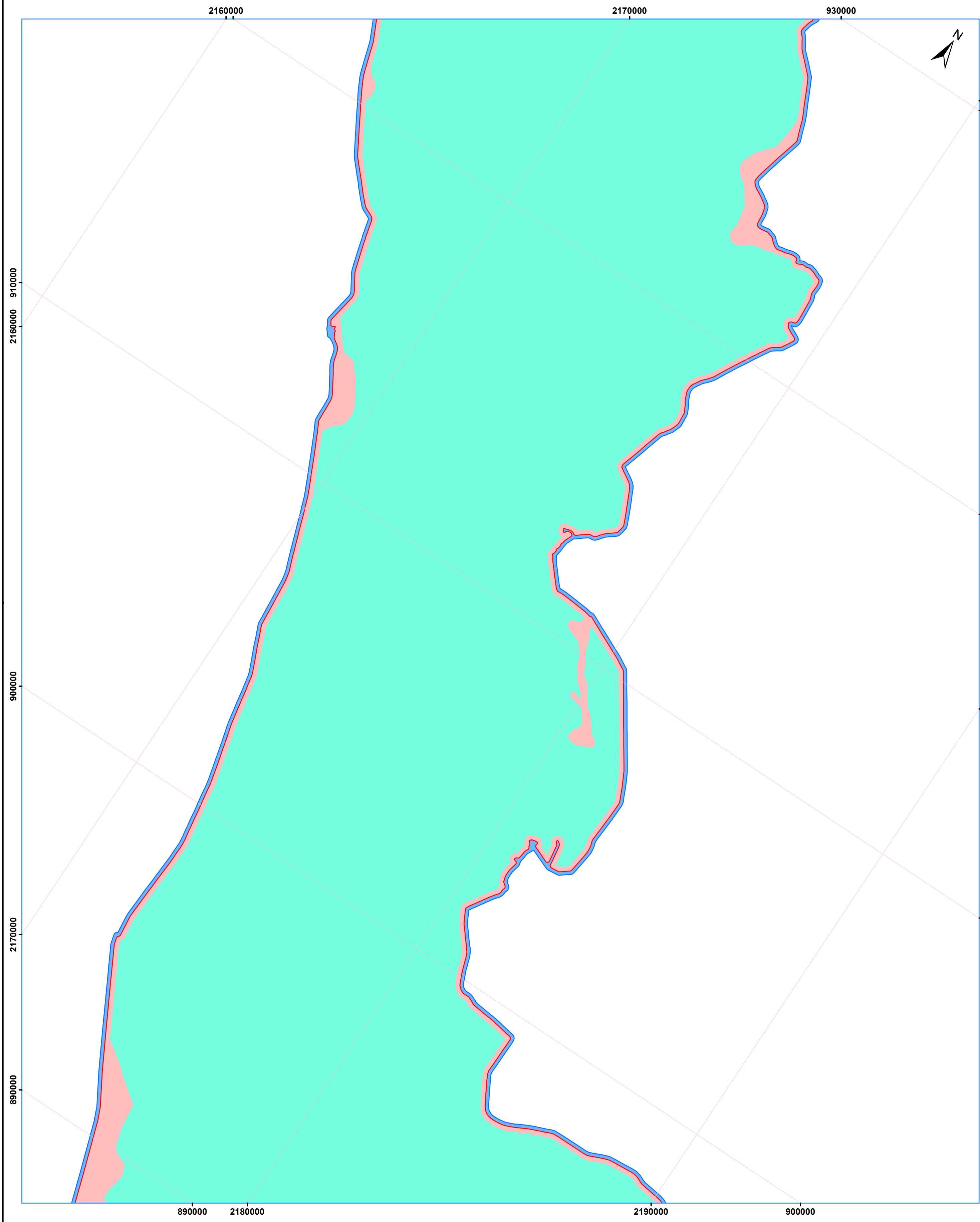
Existing Flood Structures Inventory

Sheet No. 39

Structure No.	Existing Flood Structure	Inventory Code
356	Sann Veeh Dari Bund	S260
357	S.M Bund Mile 123/0 to 137/6 First Defence Line.	S82
358	New Fatehpur Loop Bund Mile 0/0 to 4/4 (Acting as Front Bund).	S83
359	Kaurejo Loop Bund Mile 0/0 to 1/5 Second Defence Line.	S116
360	Hala Loop Bund Mile 0/0 to 4/1 Second Defence Line.	S117
361	Old Fatehpur Loop Bund Mile 1/1 to 2/2. (Acting as Front Bund).	S84
362	Hala Cross Bund Mile 0/0 to 0/7 Second Defence Line.	S119
363	Old Fateh Pur Loop Bund Mile 2/0 to 4/2 Second Defence Line.	S120
364	Cross Bund Mile 0/0 to 0/4 First Defence Line.	S85

Sheet No. 40

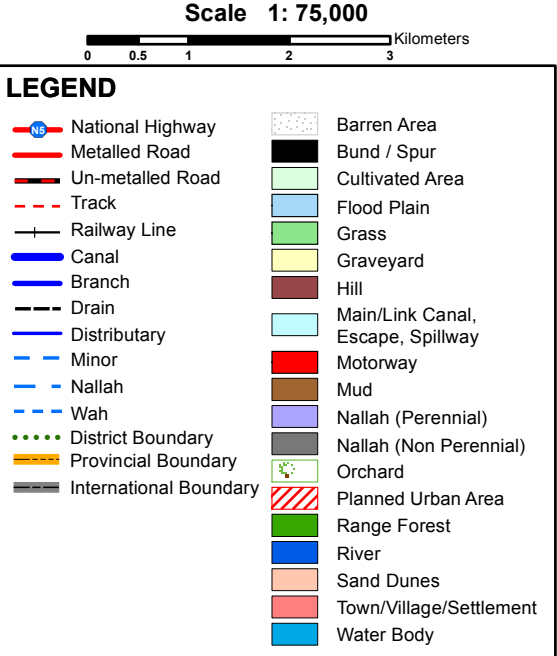
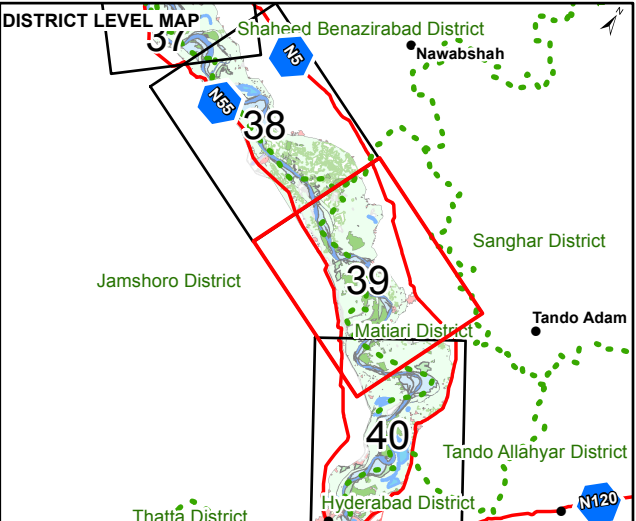
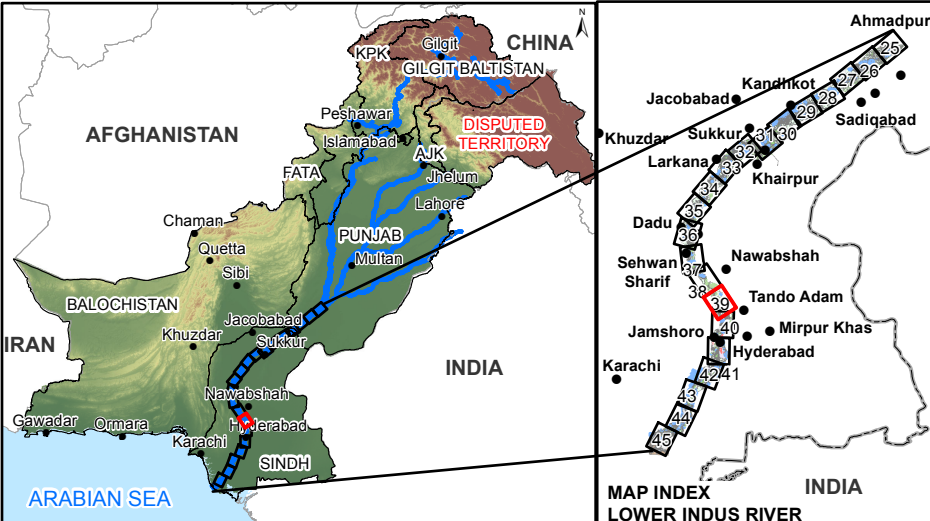
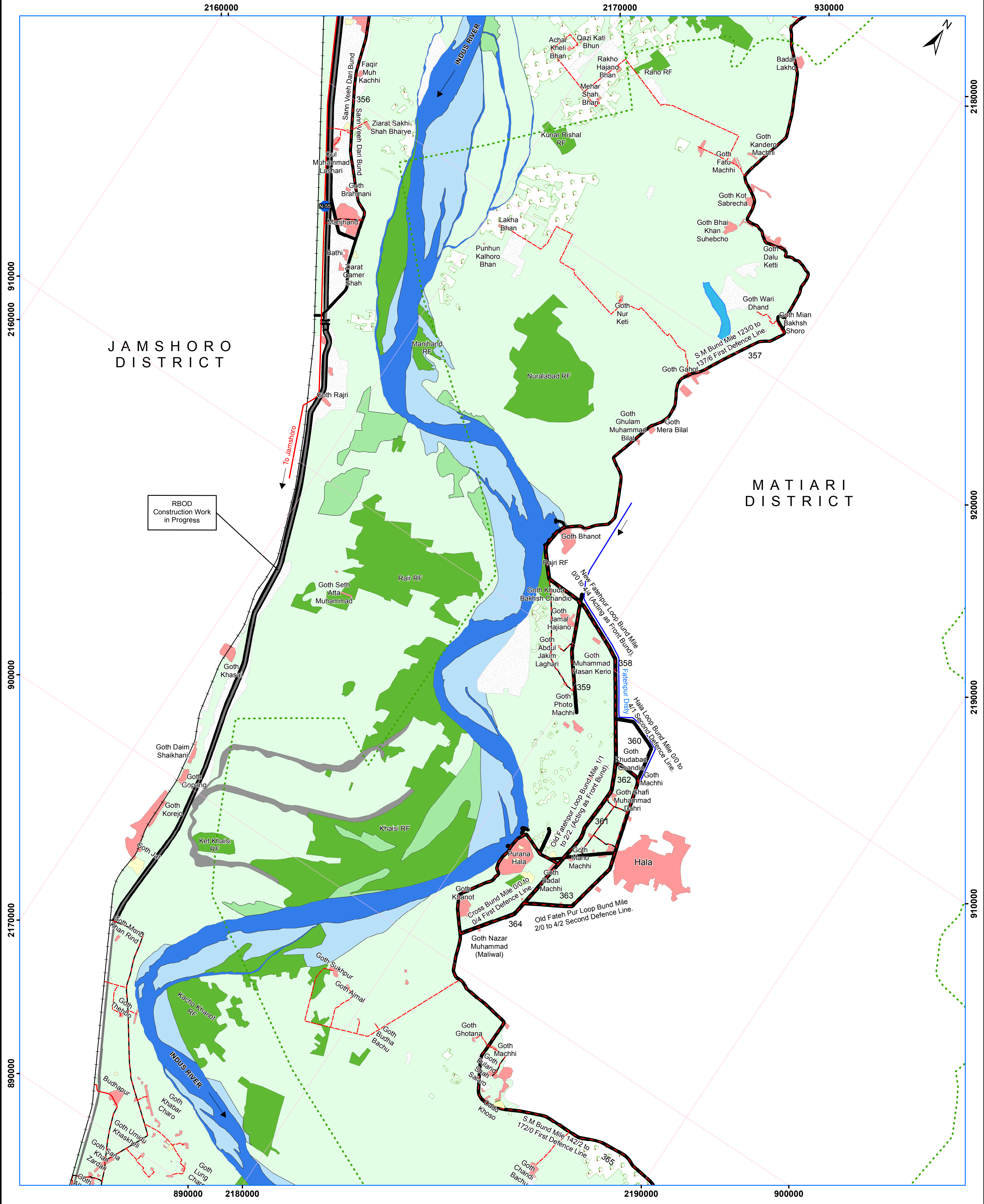
Structure No.	Existing Flood Structure	Inventory Code
365	S.M Bund Mile 142/2 to 172/0 First Defence Line.	S86
366	Matlari Loop Bund Mile 0/0 to 2/6 Second Defence Line.	S118
367	Ghallian Front Bund Mile 0/0 to 12/7	S207



LEGEND

-  High Risk Zone (Inundation Extent Corresponding to discharge of 803,000 cusecs below Sukkur)
-  Medium Risk Zone (Inundation Extent Corresponding to discharge of 1,122,000 cusecs below Sukkur)
-  Low Risk Zone (Inundation Extent Corresponding to discharge of 1,455,000 cusecs below Sukkur)

(Please note that discharge values are based on breachless conditions)



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

LANDUSE MAP LOWER INDUS RIVER

Client :
FEDERAL FLOOD COMMISSION
Ministry of Water & Power

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

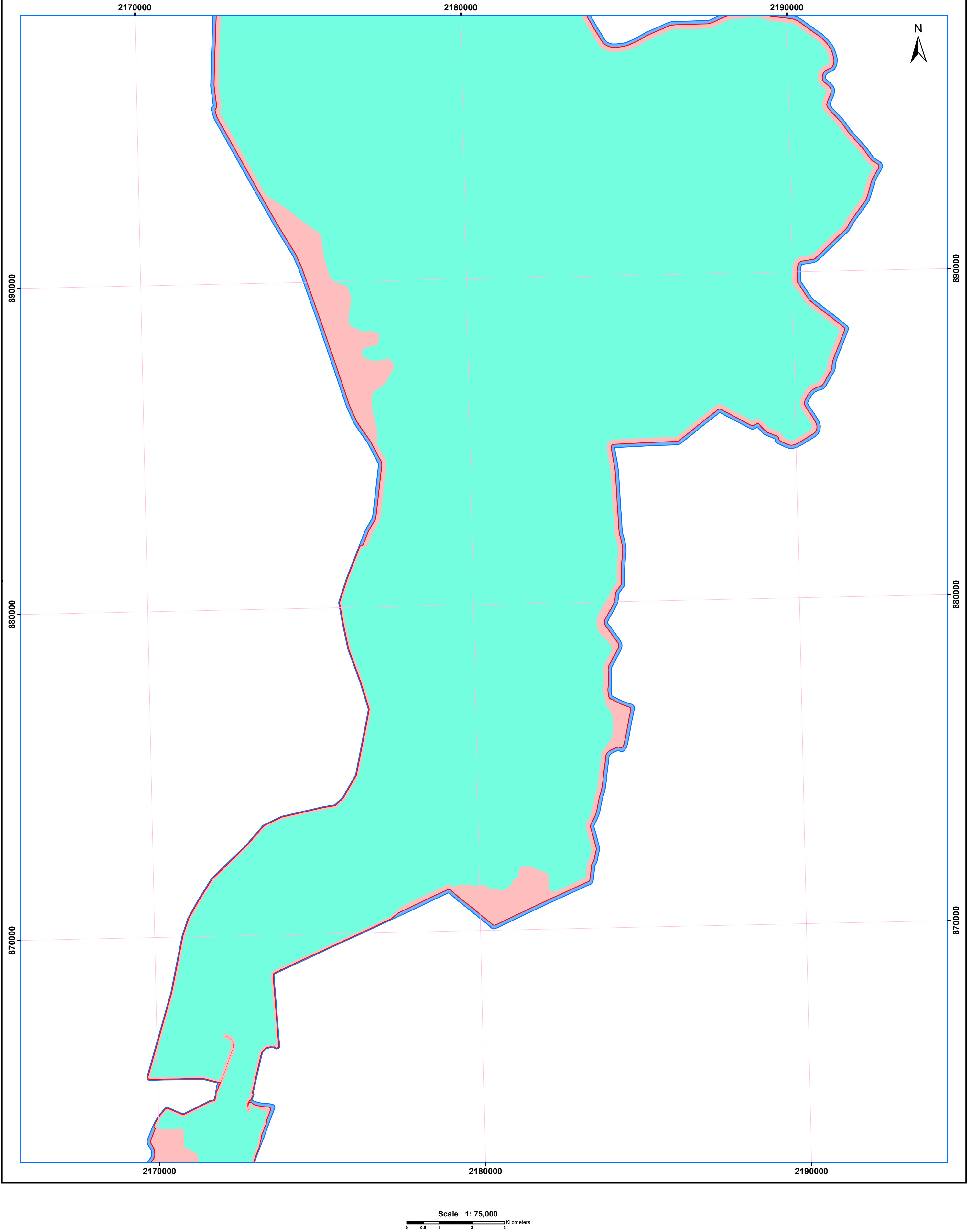
in association with
DELTAES, THE NETHERLANDS

Rev.	Date:	Description	Ckd.	Ver.

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-II) ,
DATUM: WGS84
Grid Reference is in meters

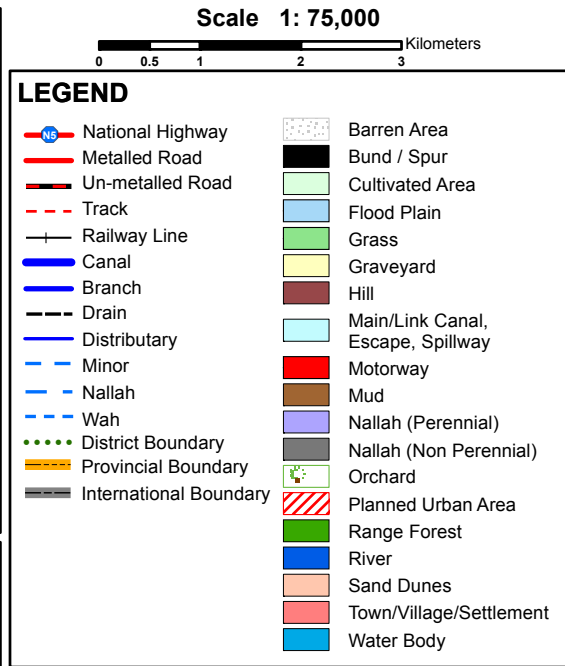
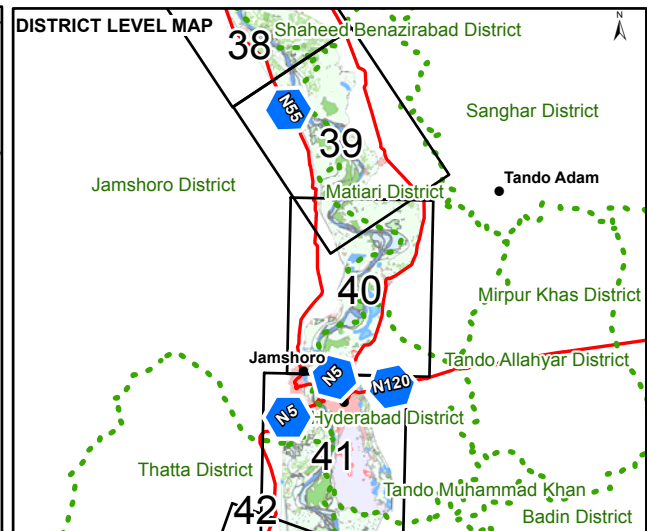
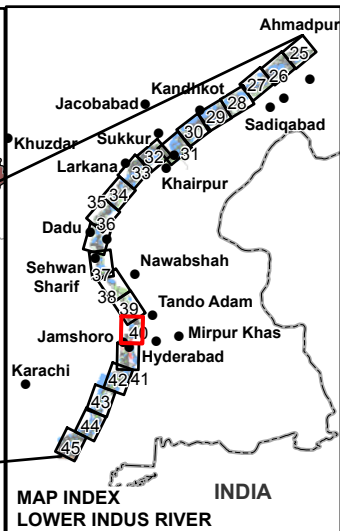
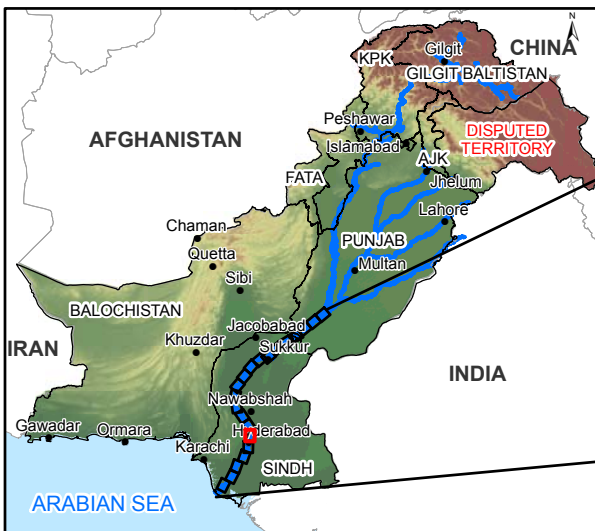
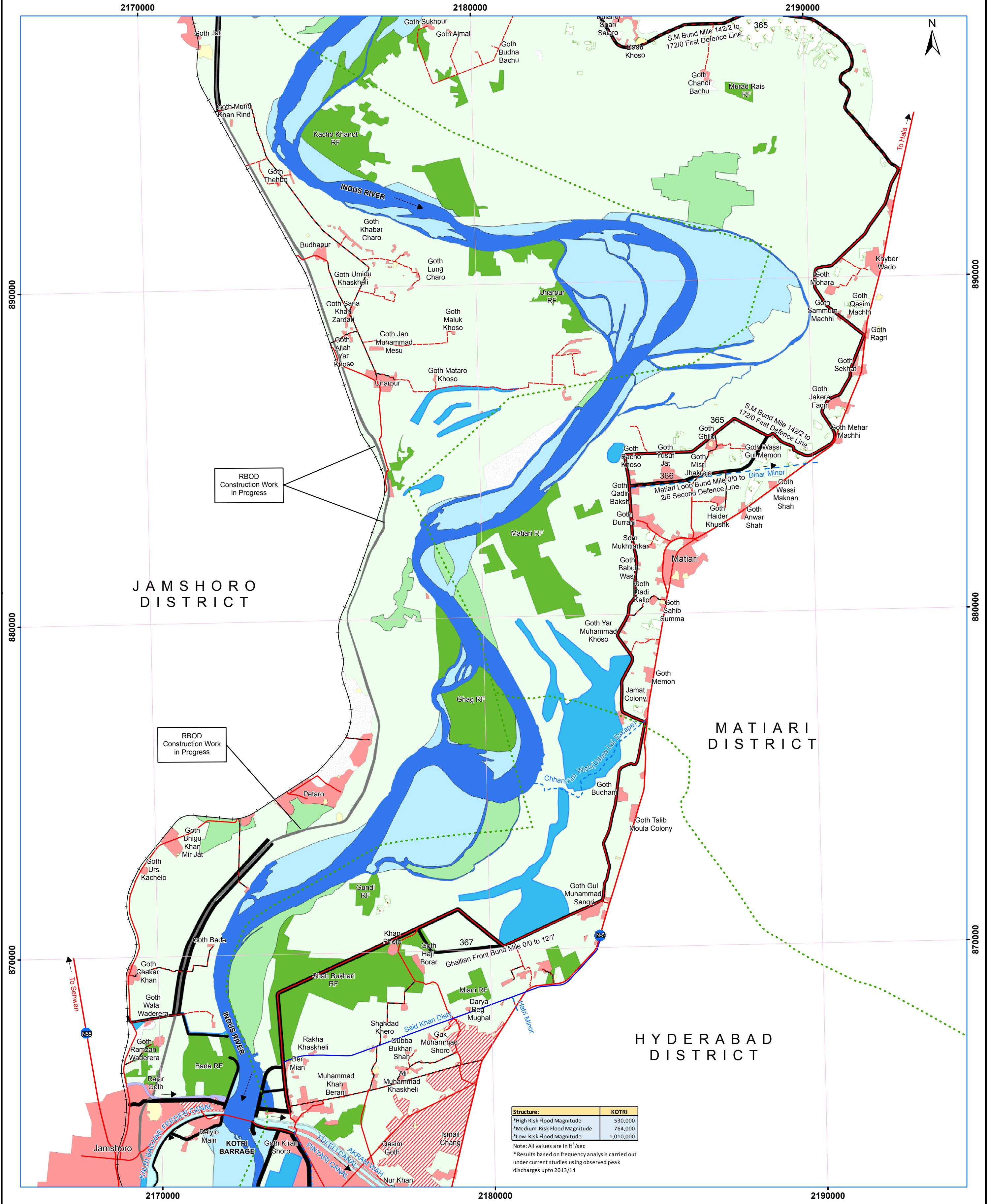
Date: 30 June, 2015
Note:
The Inventory of structures is shown at the start of this folder.



LEGEND

- High Risk Zone (Inundation Extent Corresponding to discharge of 803,000 cusecs below Sukkur)
- Medium Risk Zone (Inundation Extent Corresponding to discharge of 1,122,000 cusecs below Sukkur)
- Low Risk Zone (Inundation Extent Corresponding to discharge of 1,455,000 cusecs below Sukkur)

(Please note that discharge values are based on breachless conditions)



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

**LANDUSE MAP
LOWER INDUS RIVER**

Client :
FEDERAL FLOOD COMMISSION
Ministry of Water & Power

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

in association with
DELTAIRES, THE NETHERLANDS

Rev.	Date:	Description	Ckd.	Ver.

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-II) ,
DATUM: WGS84
Grid Reference is in meters

Date: 30 June, 2015
Note: The Inventory of structures is shown at the start of this folder.

Inundation Depth of Settlements in District Matiari

Lower Indus River - Sheet No.39

Sr. No.	Name	Zone*	District	Inundation Depth at Discharge of 803,000 Cusec below Sukkur		Inundation Depth at Discharge of 1,122,000 Cusec below Sukkur		Inundation Depth at Discharge of 1,455,000 Cusec below Sukkur	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Goth Abdur Jakim Laghari	H,M,L	Matiari	0.02	0.21	0.85	1.05	1.44	1.64
2	Goth Ajmal	H,M,L	Matiari	0.00	0.16	0.00	0.48	0.76	1.08
3	Goth Budha Bachu and nearby 1 Settlement	H,M,L	Matiari	1.18	1.26	2.03	2.11	2.63	2.71
4	Goth Chandi Bachu	H,M,L	Matiari	0.69	1.45	1.56	2.32	2.17	2.93
5	Goth Fatu Machhi and nearby 2 Settlements	H,M,L	Matiari	0.00	0.56	0.00	1.31	0.00	1.82
6	Goth Ghotana and nearby 2 Settlements	H,M,L	Matiari	0.29	0.58	1.14	1.44	1.74	2.04
7	Goth Jamal Hajjano and nearby 2 Settlements	H,M,L	Matiari	0.00	0.95	0.00	1.80	0.00	2.39
8	Goth Nur Keti	H,M,L	Matiari	0.00	0.10	0.00	0.13	0.00	0.24
9	Goth Shafi Muhammad Dahri	H,M,L	Matiari	1.00	1.24	1.85	2.09	2.45	2.69
10	Goth Sukhpur	H,M,L	Matiari	0.00	0.13	0.00	0.29	0.00	0.89
11	Lakha Bhan	H,M,L	Matiari	0.00	0.04	0.00	0.07	0.07	0.59
12	Pathan Wari Dhand	H,M,L	Matiari	0.86	1.11	1.65	1.90	2.19	2.43
13	Punhun Kalthoro Bhan	H,M,L	Matiari	0.00	0.02	0.19	0.24	0.71	0.76
14	Goth Bhai Khan Suhebcho	M,L	Matiari	0.00	0.00	0.00	2.48	0.00	3.00
15	Goth Khuda Bakhsh Chandio	M,L	Matiari	0.00	0.00	0.00	1.01	0.00	1.37
16	Goth Kot Sabrecho	M,L	Matiari	0.00	0.00	0.00	0.54	0.00	1.05
17	Goth Muhammad Hasan Kerio and nearby 1 Settlement	M,L	Matiari	0.00	0.00	0.00	1.08	0.00	1.67
18	Goth Photo Machhi and nearby 2 Settlements	M,L	Matiari	0.00	0.00	1.02	1.56	1.61	2.15

Zone*

- 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