



**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 SWABI
KHYBER PAKHTUNKHWA PROVINCE**

JUNE 2015



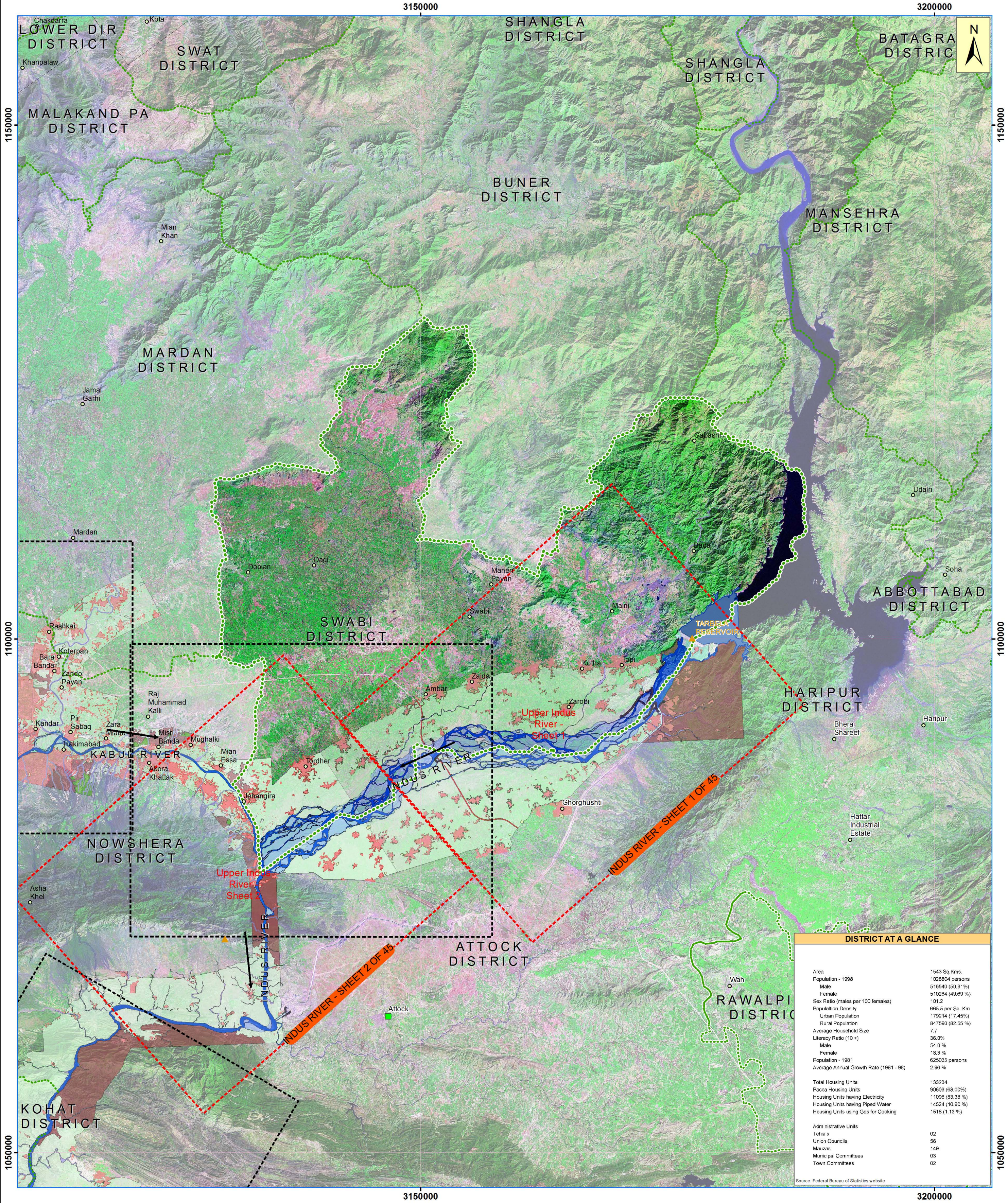
**NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT) LIMITED**
1-C, BLOCK-N, MODEL TOWN EXTENSION,
LAHORE - PAKISTAN

*in
association
with*



**DELTA RES
THE NETHERLANDS**
P.O. BOX 177, 2600 MH DELFT, ROTTERDAMSEWEG
185, 2629 HD DELFT, THE NETHERLANDS

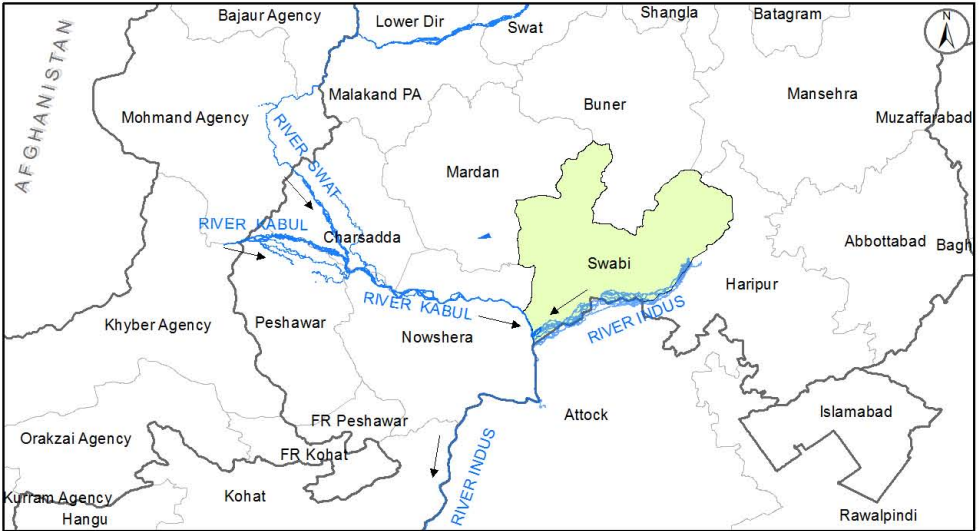
SWABI DISTRICT



DISTRICT AT A GLANCE

Area	1543 Sq. Kms.
Population - 1998	1026804 persons
Male	516540 (50.31 %)
Female	510264 (49.69 %)
Sex Ratio (males per 100 females)	101.2
Population Density	665.5 per Sq. Km
Urban Population	179214 (17.45 %)
Rural Population	847590 (82.55 %)
Average Household Size	7.7
Literacy Ratio (10 +)	36.0%
Male	54.0 %
Female	18.3 %
Population - 1981	625035 persons
Average Annual Growth Rate (1981 - 96)	2.96 %
Total Housing Units	133234
Pacca Housing Units	90603 (68.00%)
Housing Units having Electricity	11096 (83.38 %)
Housing Units having Piped Water	14524 (10.90 %)
Housing Units using Gas for Cooking	1518 (1.13 %)
Administrative Units	
Tehsils	02
Union Councils	56
Mauzas	149
Municipal Committees	03
Town Committees	02

Source: Federal Bureau of Statistics website



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

SWABI DISTRICT

Client :
FEDERAL FLOOD COMMISSION
Ministry of Water & Power

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

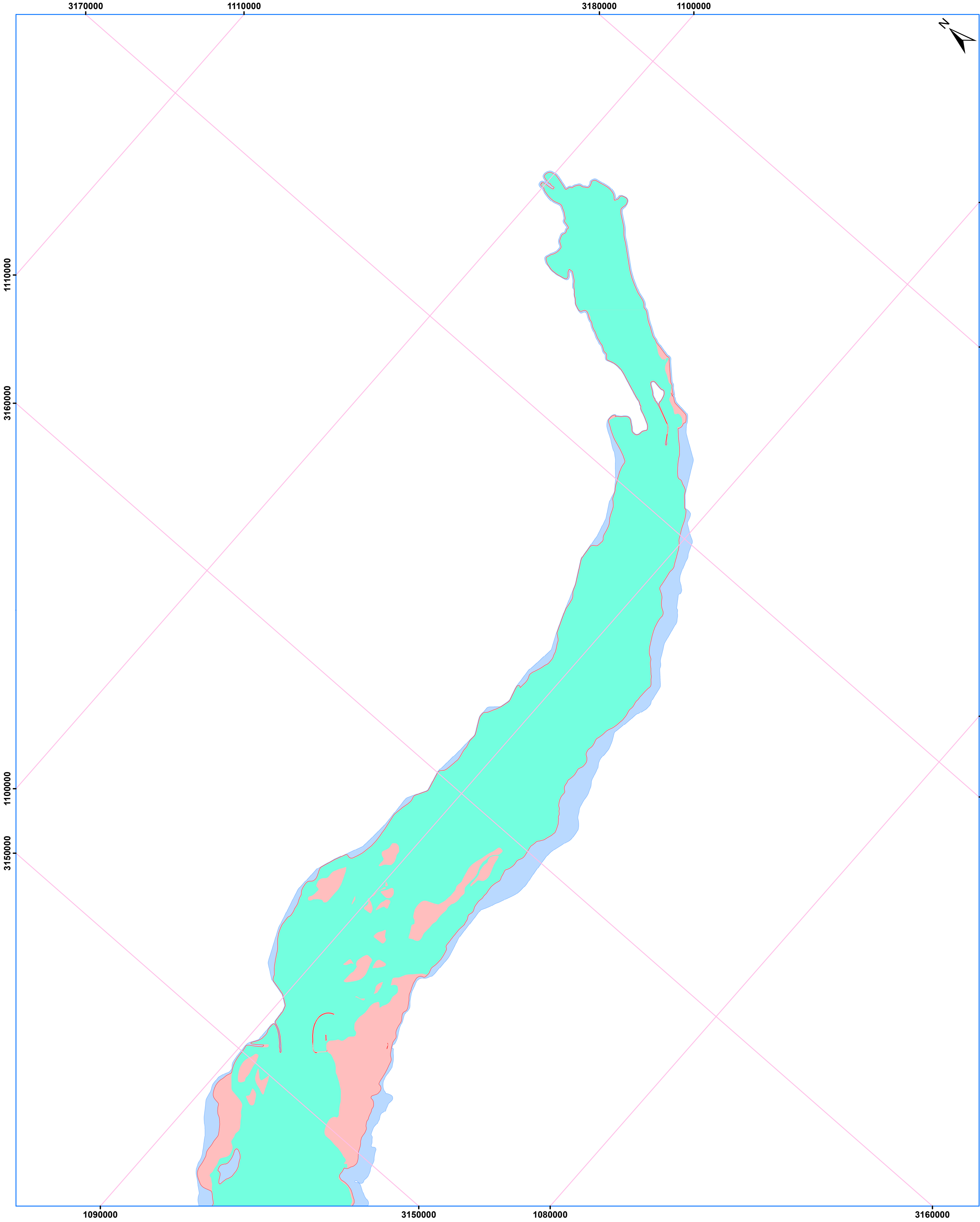
in association with
DELTAES, THE NETHERLANDS

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

Date: June 30, 2015

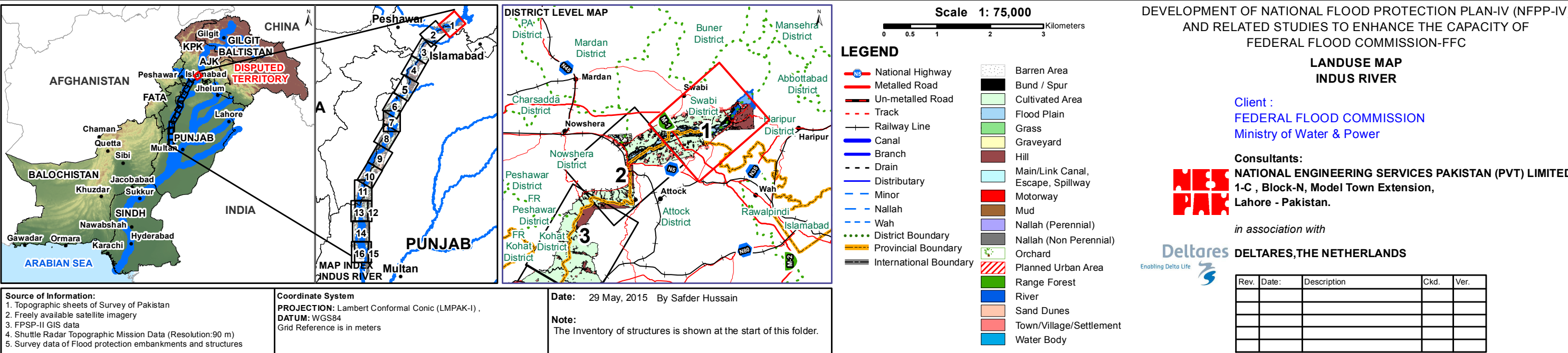


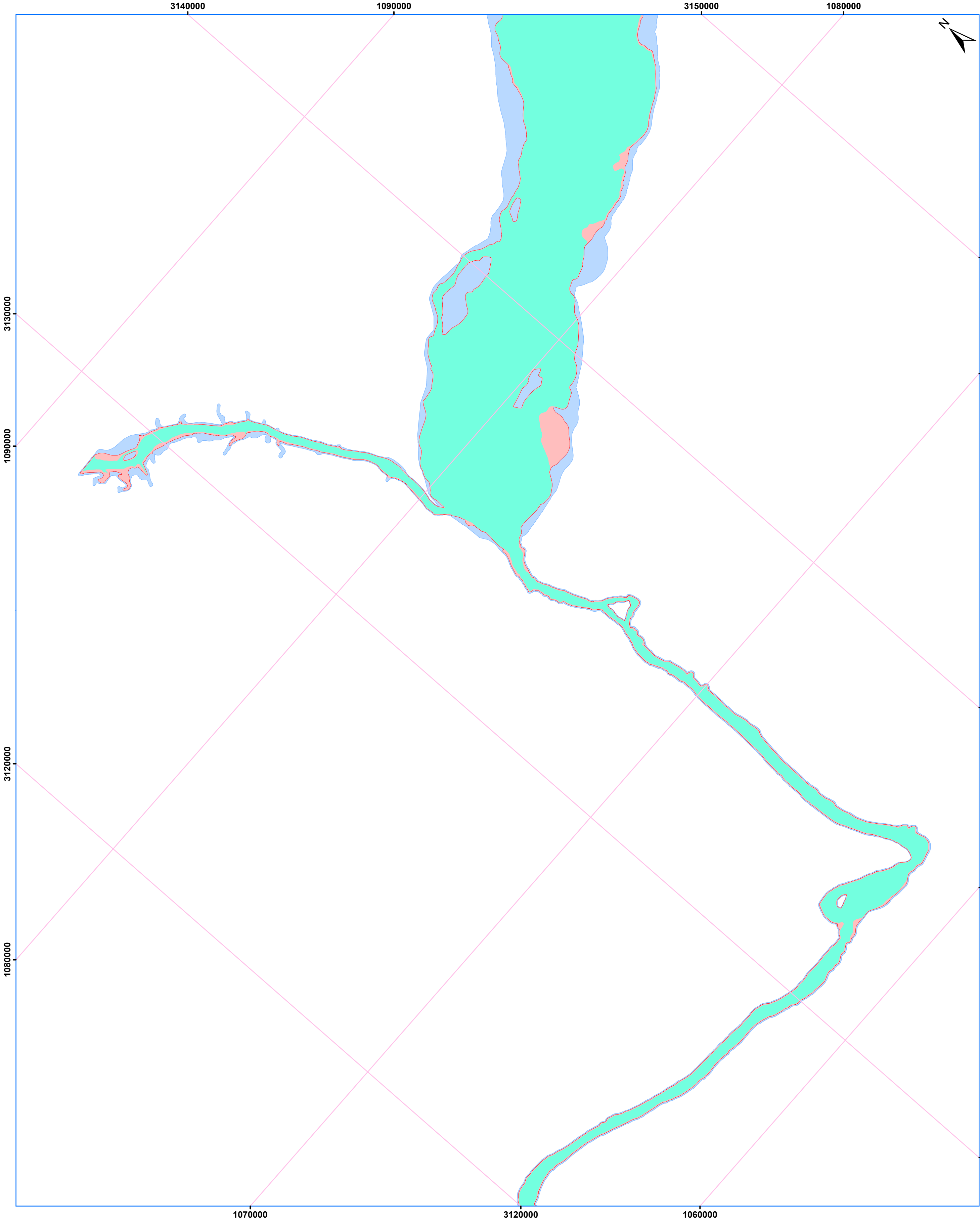
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0 0.5 1 2 3 Kilometers

LEGEND

- High Risk Zone (Inundation Extent Corresponding to discharge of 480,000 cusecs below Tarbela)
- Medium Risk Zone (Inundation Extent Corresponding to discharge of 600,000 cusecs below Tarbela)
- Low Risk Zone (Inundation Extent Corresponding to discharge of 770,000 cusecs below Tarbela)

Note: All flood extents are based on breachless conditions



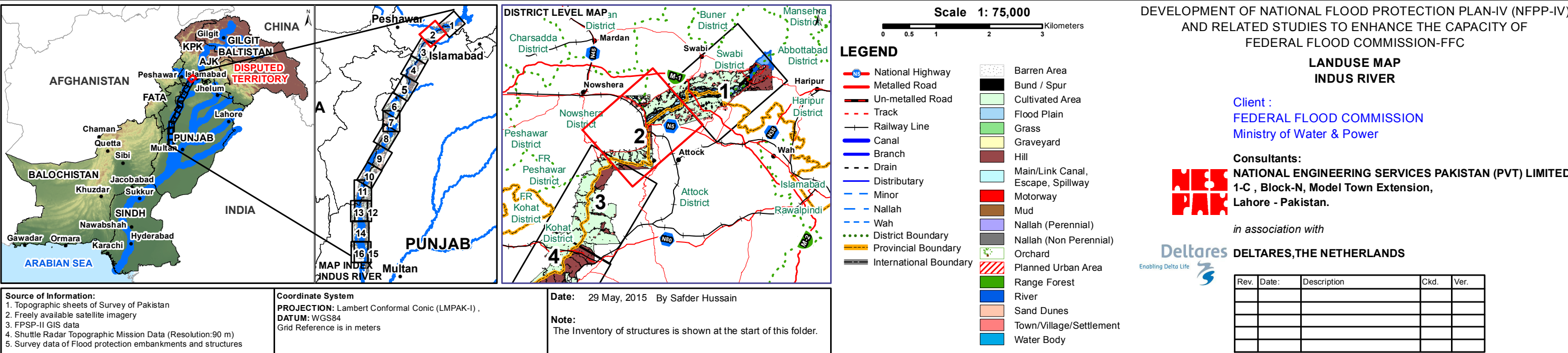


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Inundation Depth of Settlements in District Swabi

Upper Indus River - Sheet No. 1

Sr. No.	Settlement Name	Zone*	District	Inundation Depth at Discharge of 423,780 Cusec below Tarbela		Inundation Depth at Discharge of 494,410 Cusec below Tarbela		Inundation Depth at Discharge of 557,977 Cusec below Tarbela	
				Min (m)	Max (m)	Min (m)	Max (m)	Min (m)	Max (m)
1	Harian	L	Swabi	0.0	0.0	0.00	0.00	0.00	0.10
2	Hund	L	Swabi	0.0	0.0	0.00	0.00	0.00	0.10
3	1 settlement nearby Rana Dheri	L	Swabi	0.0	0.0	0.00	0.00	0.00	0.10

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