

Volume - 2

# VULNERABILITY ATLAS

J A F F E R A B A D   A N D   N A S E E R A B A D













# Contents

Sections	Sr.#	Description	Page No.
Basic Information Maps	01	Overview Map of Target Districts	01
	02	Topographic Map of Target Districts and Surroundings	02
	03	Overall Physical Features	03
	04	Land Cover and Land Use Map	04
Hazards and Vulnerability Maps	05	Settlements Distribution Map	05
	06	Population Distribution Map	06
	07	Map of Irrigation System	07
	08	Earthquake Occurrences (1966-2013)	08
	09	Seismic Zones Map	09
	10	Floods 2010 – Inflow of Water into Balochistan (Map A)	10
	11	Floods 2010 – Inflow of Water into Balochistan (Map B)	11
	12	Floods 2010 – Inflow of Water into Balochistan (Map C)	12
	13	Floods 2010 – Inflow of Water into Balochistan (Map D)	13
	14	Floods 2010 – Inflow of Water into Balochistan (Map E)	14
	15	Floods 2010 – Inflow of Water into Balochistan (Map F)	15
	16	Overlay of the Extents of Past Floods	16
	17	Comparison of Past Floods in Sample Area	17
	18	Flood Prone Area	18
	19	Settlements at Risk during Repeated Floods	19
	20	Population at Risk during Repeated Floods	20
	21	Possible Safe Areas during Floods	21
Survey Assessment Maps	22	Sample Frame for Jafferabad and Naseerabad Districts	22
	23	Demographic Pattern of Sample Households	23
	24	House Ownership in Sample Households	24
	25	Family Vulnerability in Sample Households	25
	26	Source of Income in Sample Households	26
	27	Average Monthly Income of Sample Households	27
	28	Wall Types of Constructions in Sample Households	28
	29	Roof Types of Constructions in Sample Households	29
	30	Room Types in Sample Households	30
	31	Type of Plaster for Roof in Sample Households	31
	32	Type of Plaster for Walls in Sample Households	32
	33	Status of Latrines Facilities in Sample Households	33
	33	Functionalities of Latrines in Sample Households	33



# Basic Information Maps

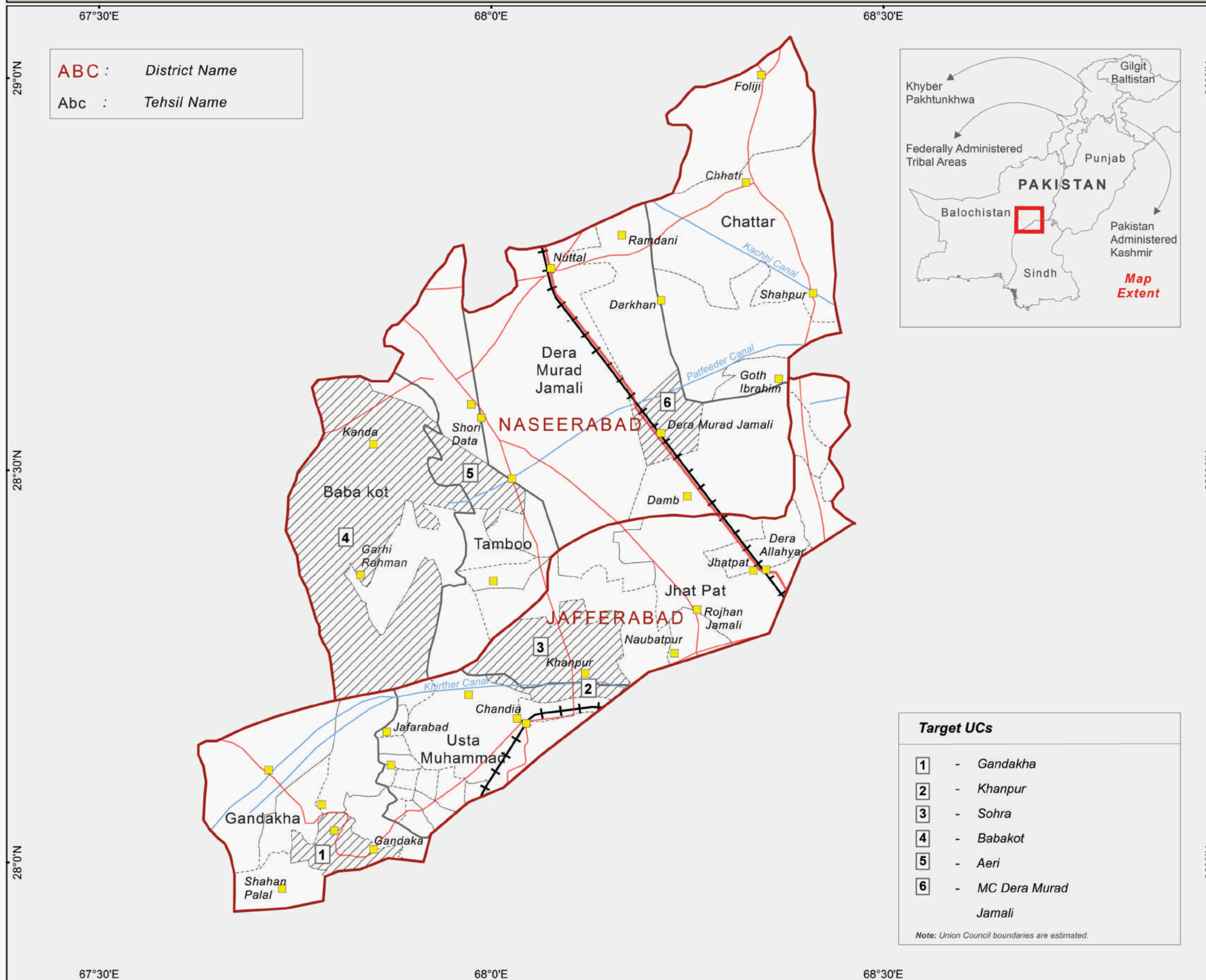




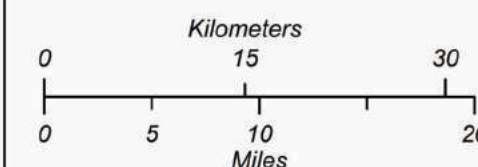
# OVERVIEW MAP OF TARGET DISTRICTS

## LEGEND

- City/Town
- Highway
- Road
- +— Railroad
- Main Canal
- District Boundary
- Tehsil Boundary
- UC Boundary
- /// Target UC



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA, MODIS  
**Map:** bal\_brf\_overview\_a3\_ls\_20141125  
**Creation Date:** November 25, 2014  
**Datum/Projection:** Geographic/WGS 84  
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 FOR DELIVERING POLICY ADVICE  
 Naseerabad and Jafferabad**

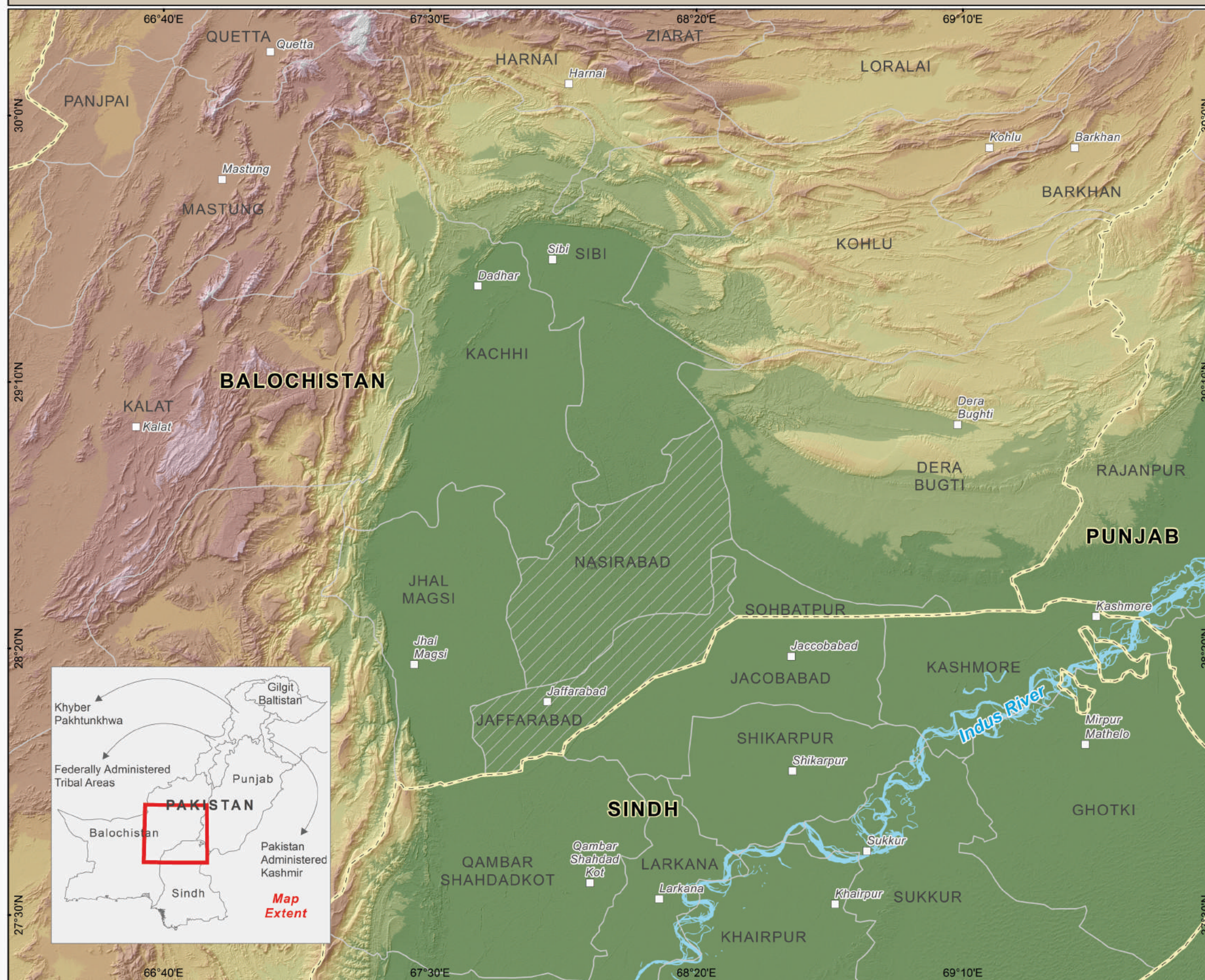


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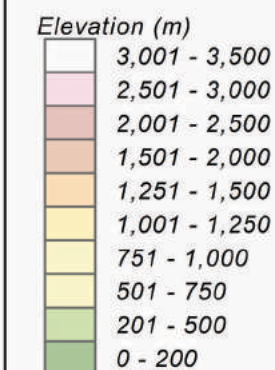


# TOPOGRAPHIC MAP OF TARGET DISTRICTS AND SURROUNDINGS

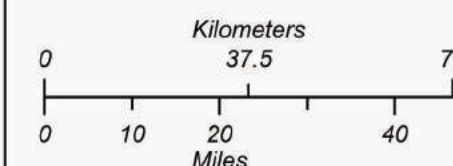


## LEGEND

- Main City/Town
- River
- Target District
- District Boundary



Nominal Scale 1:1,250,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_topography\_a3\_ls\_201400921  
**Creation Date:** September 21, 2014  
**Datum/Projection:** Geographic/WGS 84  
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 FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**



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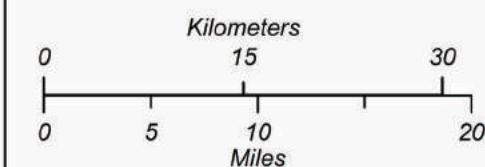
# OVERALL PHYSICAL FEATURES

## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA, MODIS  
**Map:** bal\_br\_satellite\_view\_a3\_ls\_201400921  
**Creation Date:** September 21, 2014  
**Datum/Projection:** Geographic/WGS 84

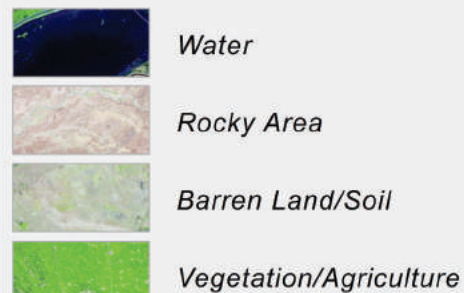
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## VULNERABILITY ASSESSMENT FOR DELIVERING POLICY ADVICE Naseerabad and Jafferabad



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### Features Interpretation



**ABC :** District Name  
**Abc :** Tehsil Name



### Target UCs

- 1** - Gandakha
- 2** - Khanpur
- 3** - Sohra
- 4** - Babakot
- 5** - Aeri
- 6** - MC Dera Murad Jamali

*Note: Union Council boundaries are estimated.*

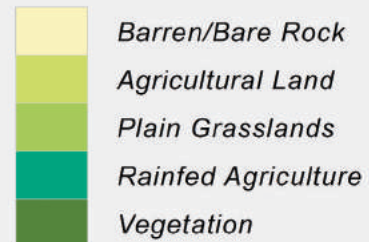




# LAND COVER AND LAND USE MAP

## LEGEND

### Land Cover/Land Use



ABC : District Name

Abc : Tehsil Name



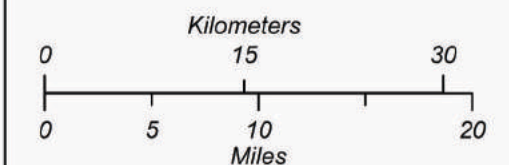
### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.



Nominal Scale 1:512,000 for A3 Size



Data Source: UN-Habitat, PCO/OCHA  
 Map: bal\_brf\_landcover\_a3\_ls\_201400921  
 Creation Date: September 21, 2014  
 Datum/Projection: Geographic/WGS 84

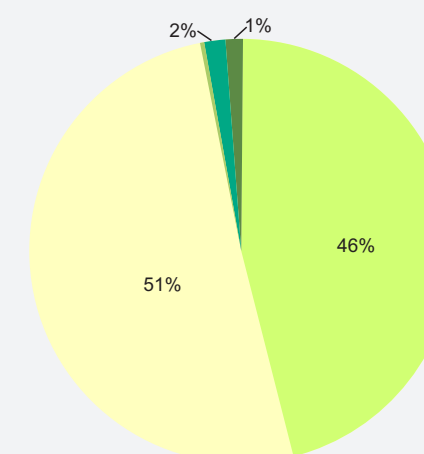
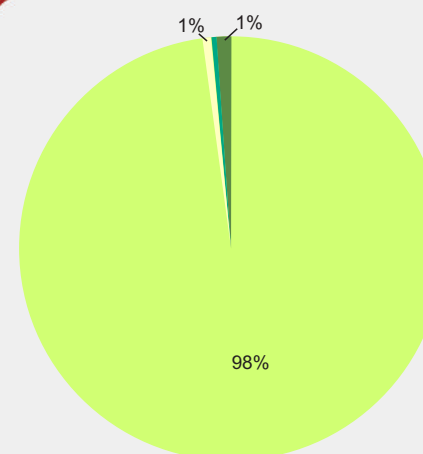
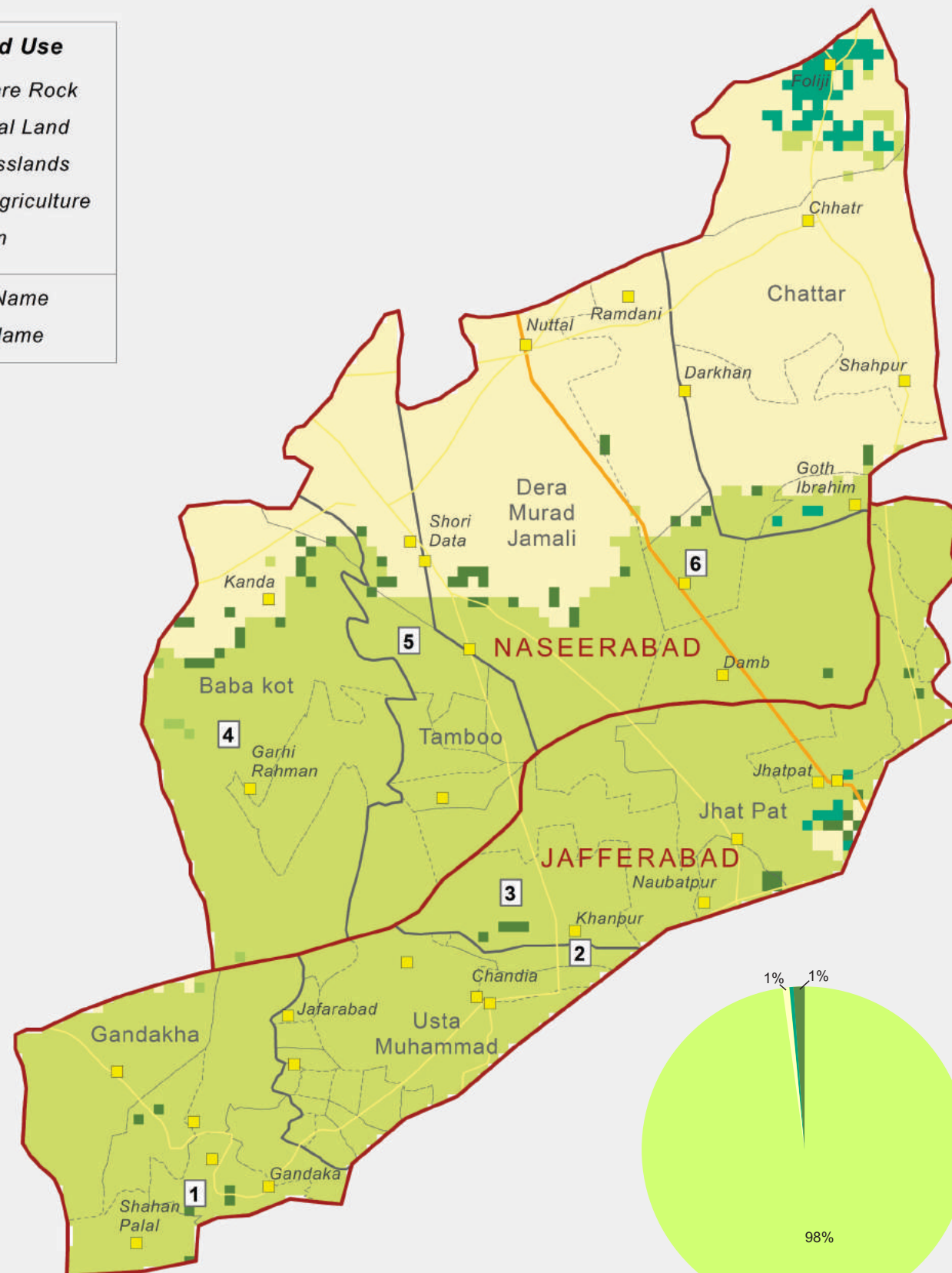
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Naseerabad and Jafferabad



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Land Cover Data Source:  
Global Land Cover Facility (GLCF)



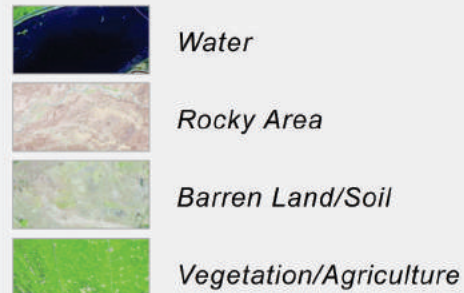


# SETTLEMENTS DISTRIBUTION MAP

## LEGEND

- City/Town
- ✱ Settlement
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary

### Features Interpretation



ABC : District Name  
Abc : Tehsil Name

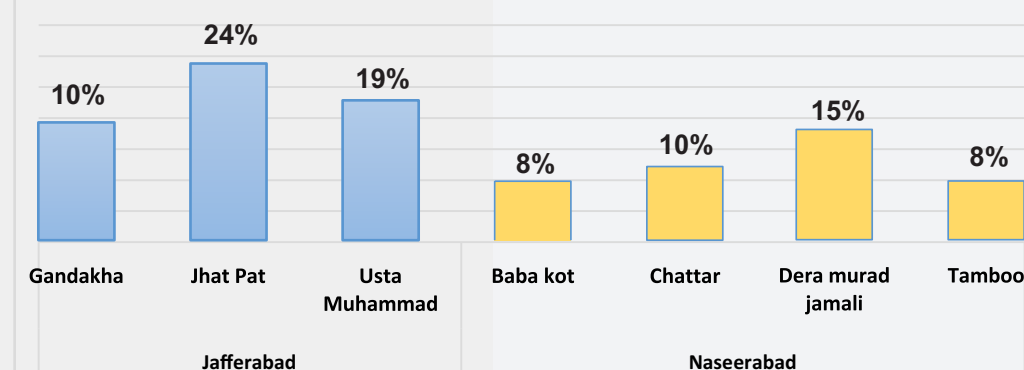


### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.

### Tehsil wise Settlements Distribution



**Data Source:** UN-Habitat, PCO/OCHA, MODIS  
**Map:** bal\_brf\_settlements\_a3\_ls\_20141125  
**Creation Date:** November 25, 2014  
**Datum/Projection:** Geographic/WGS 84  
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FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**







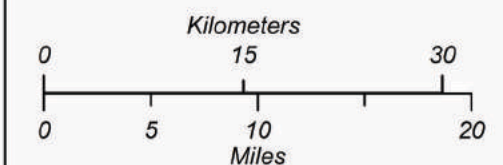
# POPULATION DISTRIBUTION MAP

## LEGEND

- City/Town
- Highway
- Road
- ▭ District Boundary
- ▭ Tehsil Boundary
- ▭ UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_pop\_density\_areas\_a3\_ls\_20141126  
**Creation Date:** November 26, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

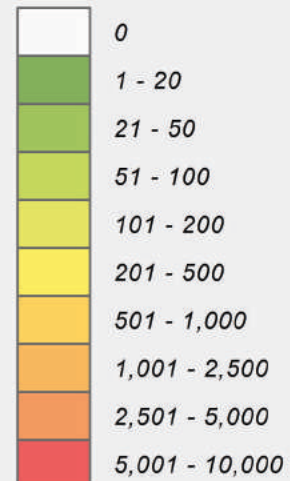
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### Population Distribution

Persons per sq. km.



ABC : District Name

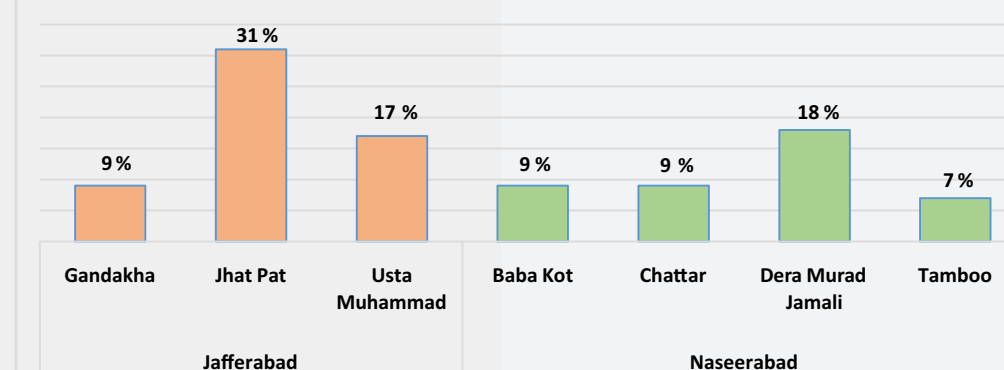
Abc : Tehsil Name

### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.

### Tehsil wise Population Distribution

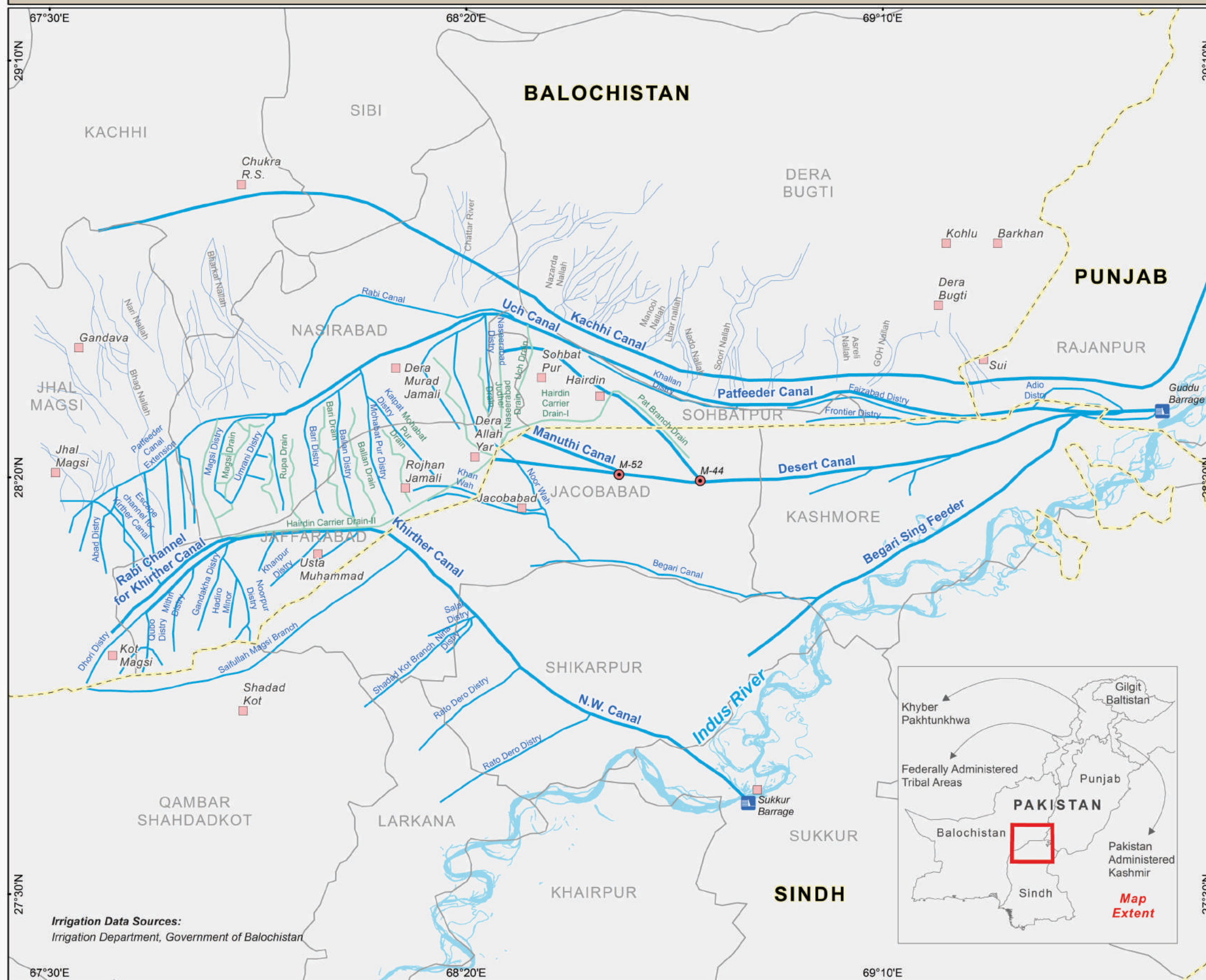


Population Data Source: Landsat 2011





# MAP OF IRRIGATION SYSTEM



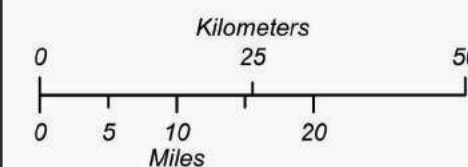
**Irrigation Data Sources:**  
Irrigation Department, Government of Balochistan

## LEGEND

- Main City/Town
- Telemetry Station
- Barrage
- Main Canal
- Minor Canal/Distributary
- Drain
- Nallah
- River
- District Boundary
- Province Boundary



Nominal Scale 1:800,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_irrigation\_system\_a3\_ls\_20141125  
**Creation Date:** November 25, 2014  
**Datum/Projection:** Geographic/WGS 84  
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**Naseerabad and Jafferabad**



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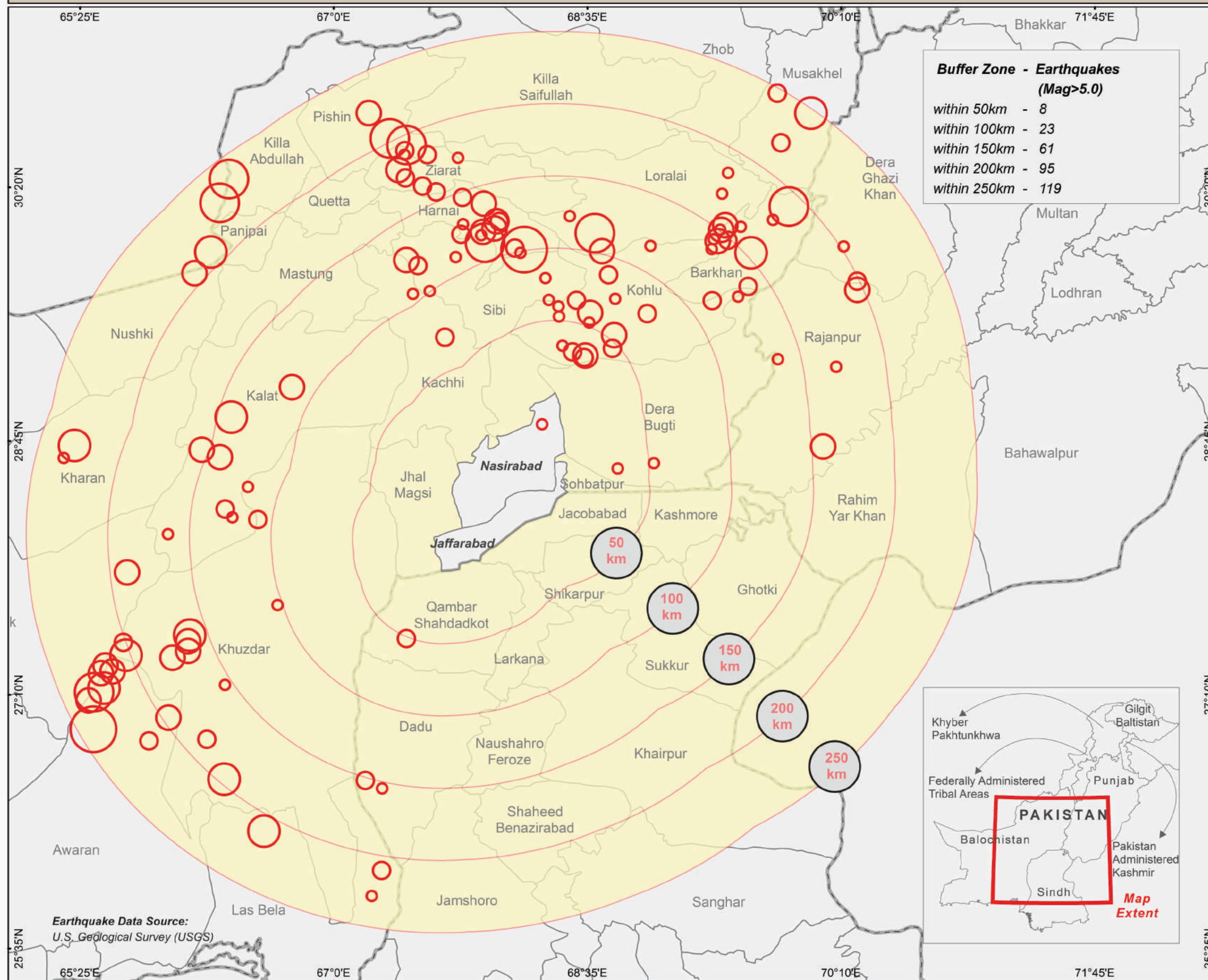




# Hazards & Vulnerability Maps



# EARTHQUAKE OCCURRENCES (1966-2013)



## LEGEND

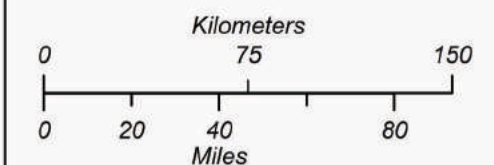
### Epicenter with Magnitude

- 5.0 - 5.10
- 5.11 - 5.40
- 5.41 - 5.70
- 5.71 - 6.00
- 6.01 - 6.80
- 6.81 - 7.70

- Buffer Zone
- Province Boundary
- District Boundary



Nominal Scale 1:2,500,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_eq\_hazard\_a3\_ls\_20141211  
**Creation Date:** December 11, 2014  
**Datum/Projection:** Geographic/WGS 84  
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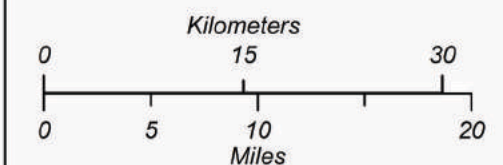
# SEISMIC ZONES MAP

## LEGEND

-  Earthquake Epicenter
-  City/Town
-  Highway
-  Road
-  District Boundary
-  Tehsil Boundary
-  UC Boundary
- Seismic Zones**  
**As per Explosiveness**
-  2A - Low
-  2B - Moderate
-  3 - High



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_seismic\_zones\_a3\_ls\_20141126  
**Creation Date:** November 26, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

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### Target UCs

- 1** - Gandakha
- 2** - Khanpur
- 3** - Sohra
- 4** - Babakot
- 5** - Aeri
- 6** - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.

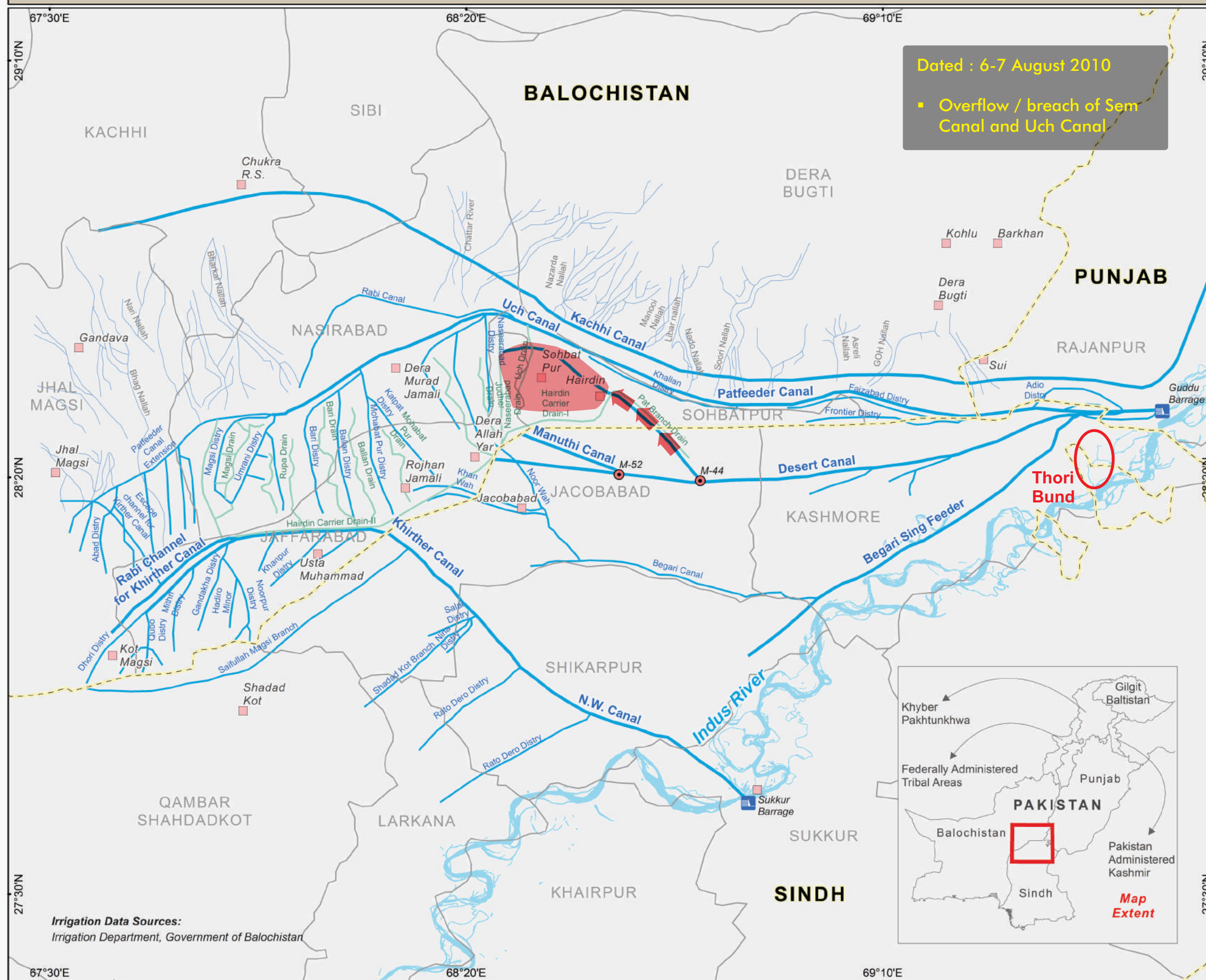
ABC : District Name  
 Abc : Tehsil Name

Seismic Zonation Data Source: Building Code of Pakistan





# FLOODS 2010 - INFLOW OF WATER INTO BALOCHISTAN

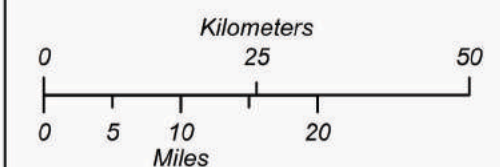


## LEGEND

- Main City/Town
- Telemetry Station
- Barrage
- Main Canal
- Minor Canal/Distributary
- Drain
- Nallah
- River
- District Boundary
- Province Boundary
- Inundated Area
- Flow of Water



Nominal Scale 1:800,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_water\_inflow\_a3\_ls\_20141125  
**Creation Date:** November 25, 2014  
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**Naseerabad and Jafferabad**

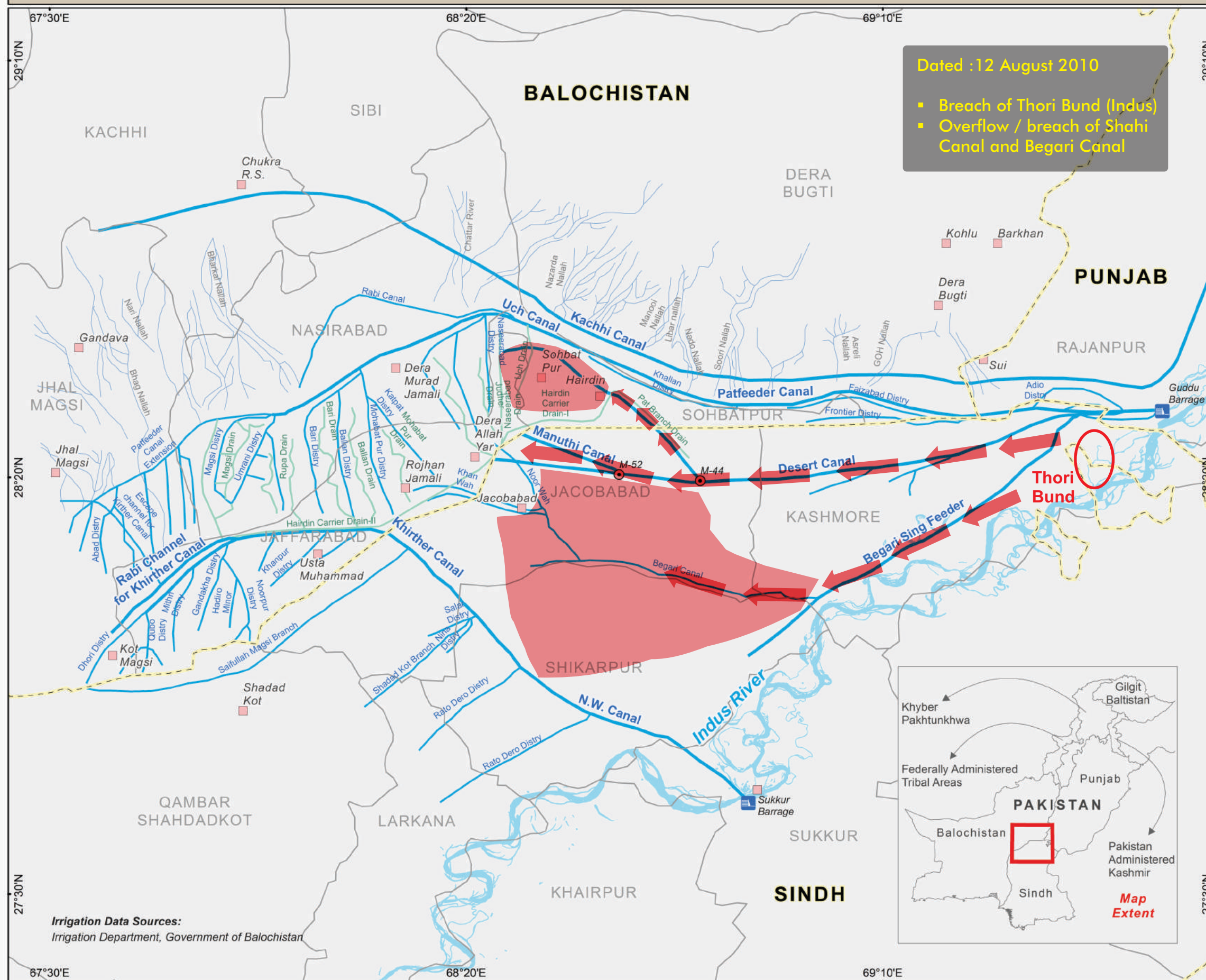


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# FLOODS 2010 - INFLOW OF WATER INTO BALOCHISTAN

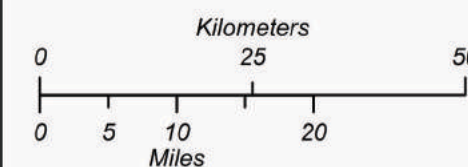


## LEGEND

- Main City/Town
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- Minor Canal/Distributary
- Drain
- Nallah
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- District Boundary
- Province Boundary
- Inundated Area
- Flow of Water



Nominal Scale 1:800,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_water\_inflow\_a3\_ls\_20141125  
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**Naseerabad and Jafferabad**

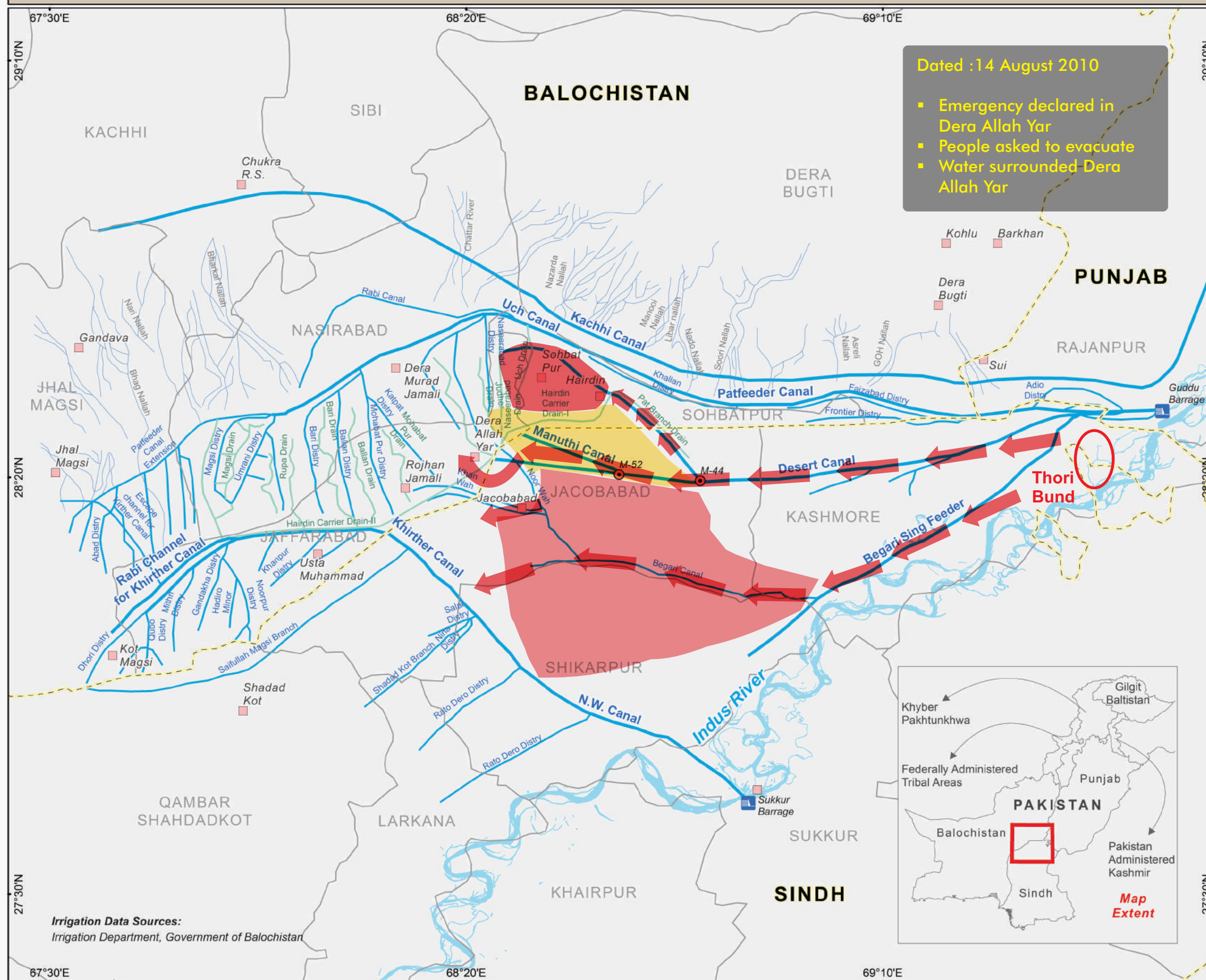


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# FLOODS 2010 - INFLOW OF WATER INTO BALOCHISTAN

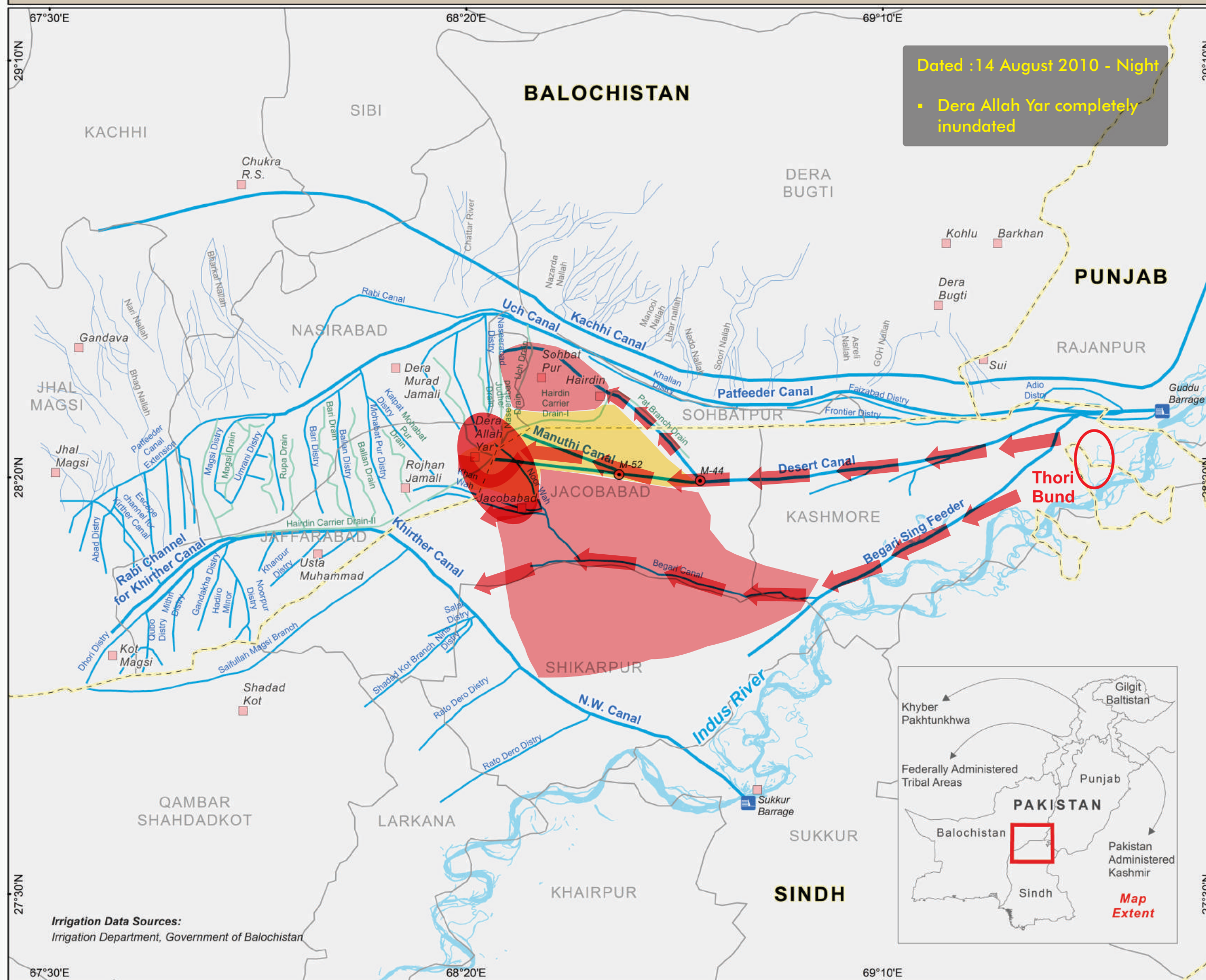


Information and Technology Support Unit, UN-Habitat Pakistan, Email: mailbox@unhabitat.org.pk, tel:92-51-8357358





# FLOODS 2010 - INFLOW OF WATER INTO BALOCHISTAN

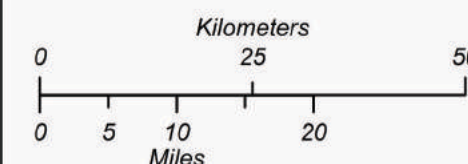


## LEGEND

- Main City/Town
- Telemetry Station
- Barrage
- Main Canal
- Minor Canal/Distributary
- Drain
- Nallah
- River
- District Boundary
- Province Boundary
- Inundated Area
- Flow of Water



Nominal Scale 1:800,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_water\_inflow\_a3\_ls\_20141125  
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**Naseerabad and Jafferabad**

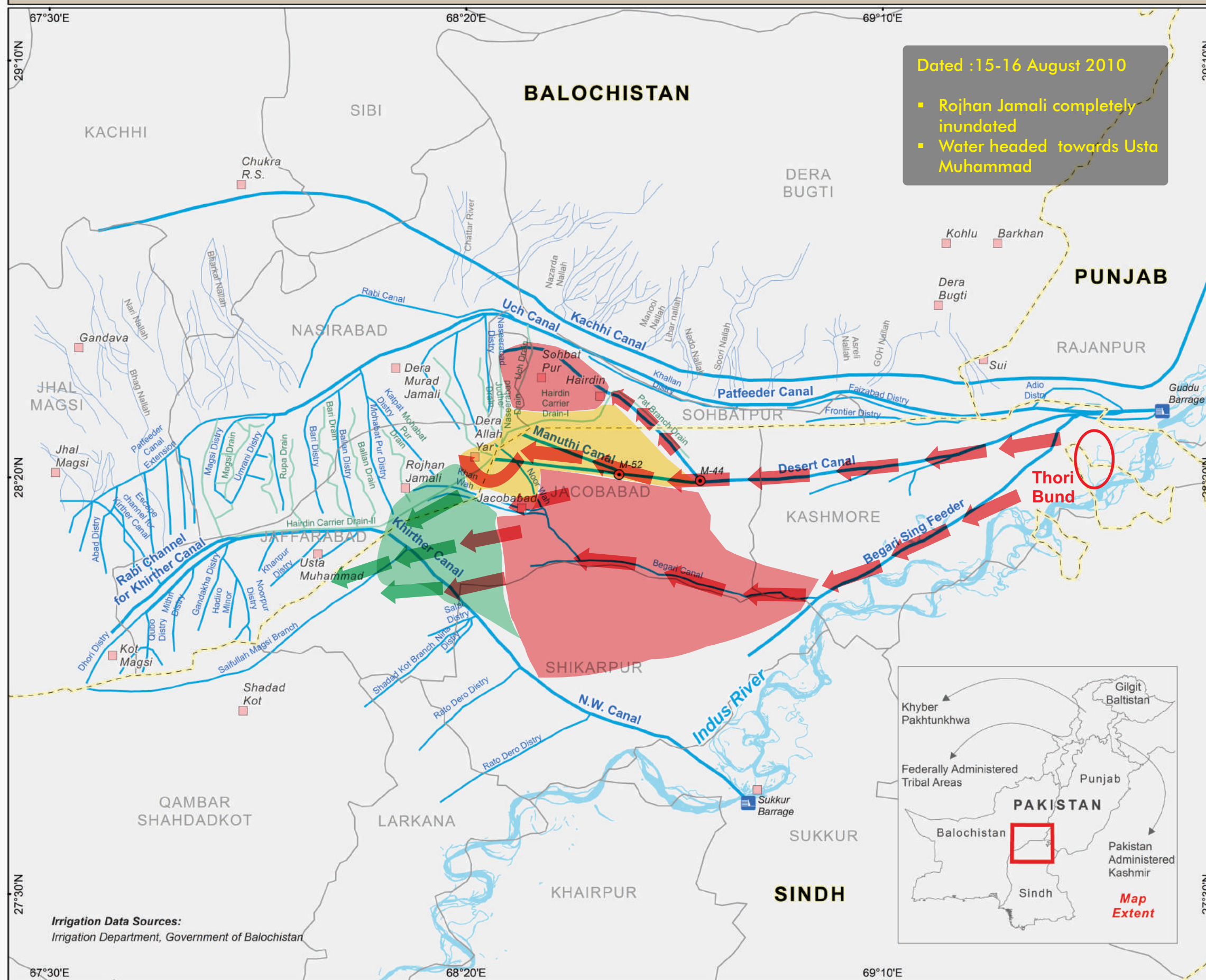


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# FLOODS 2010 - INFLOW OF WATER INTO BALOCHISTAN

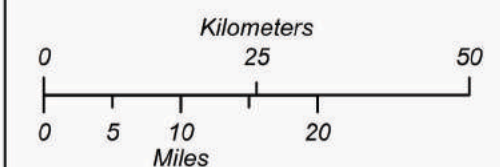


## LEGEND

- Main City/Town
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- Inundated Area
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 FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**



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# FLOODS 2010 - INFLOW OF WATER INTO BALOCHISTAN

Dated : 17 August 2010

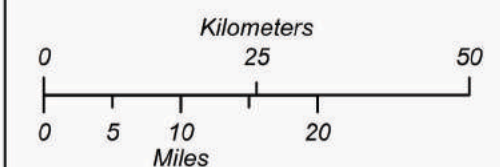
- Water skirted away from Usta Mohammad in the south west direction
- Ghari Khairu & Gandakha inundated.
- Bachao bund was breached on 19 Aug; water headed towards Barkhan; Usta Mohammad was saved.

## LEGEND

- Main City/Town
- Telemetry Station
- Barrage
- Main Canal
- Minor Canal/Distributary
- Drain
- Nallah
- River
- District Boundary
- Province Boundary
- Inundated Area
- Flow of Water



Nominal Scale 1:800,000 for A3 Size

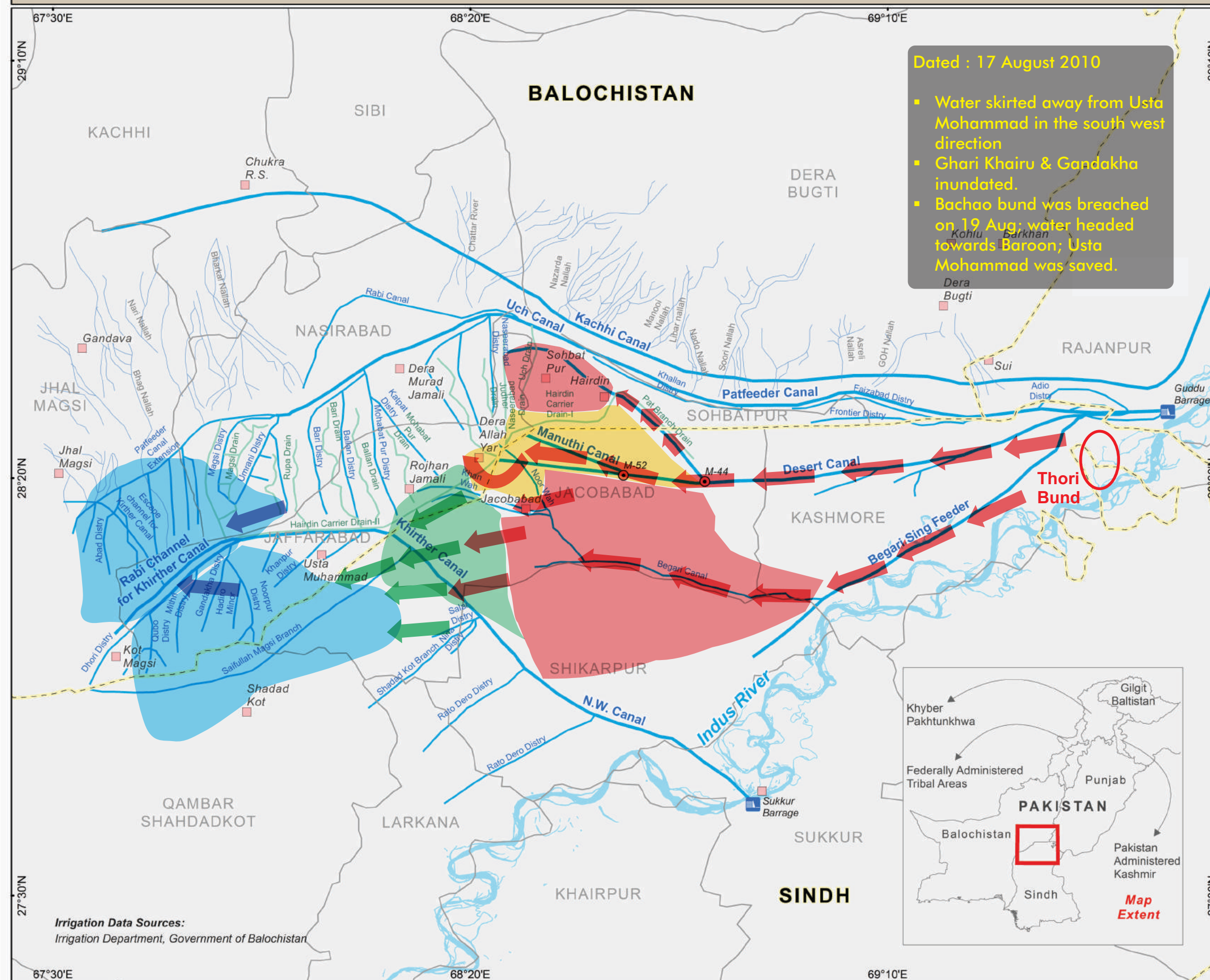


**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_water\_inflow\_a3\_ls\_20141125  
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 FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**



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**Irrigation Data Sources:**  
 Irrigation Department, Government of Balochistan





# OVERLAY OF THE EXTENT OF PAST FLOODS

## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary
- Flooded in 2010 & 2012
- Flooded in 2012 only
- Flooded in 2010 only



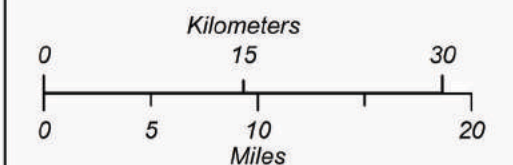
### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.



Nominal Scale 1:512,000 for A3 Size

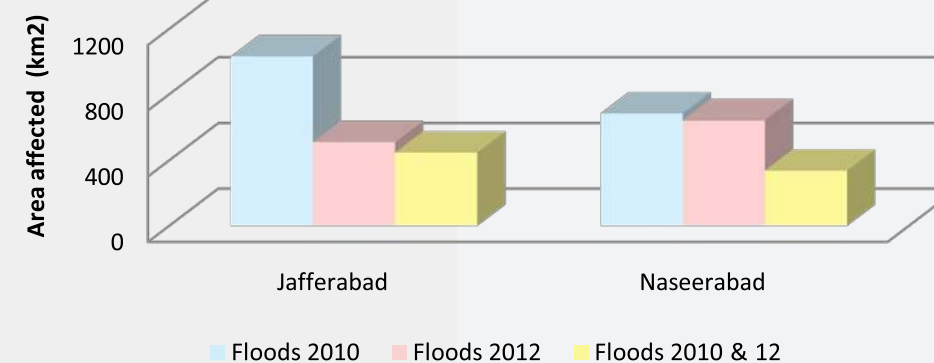
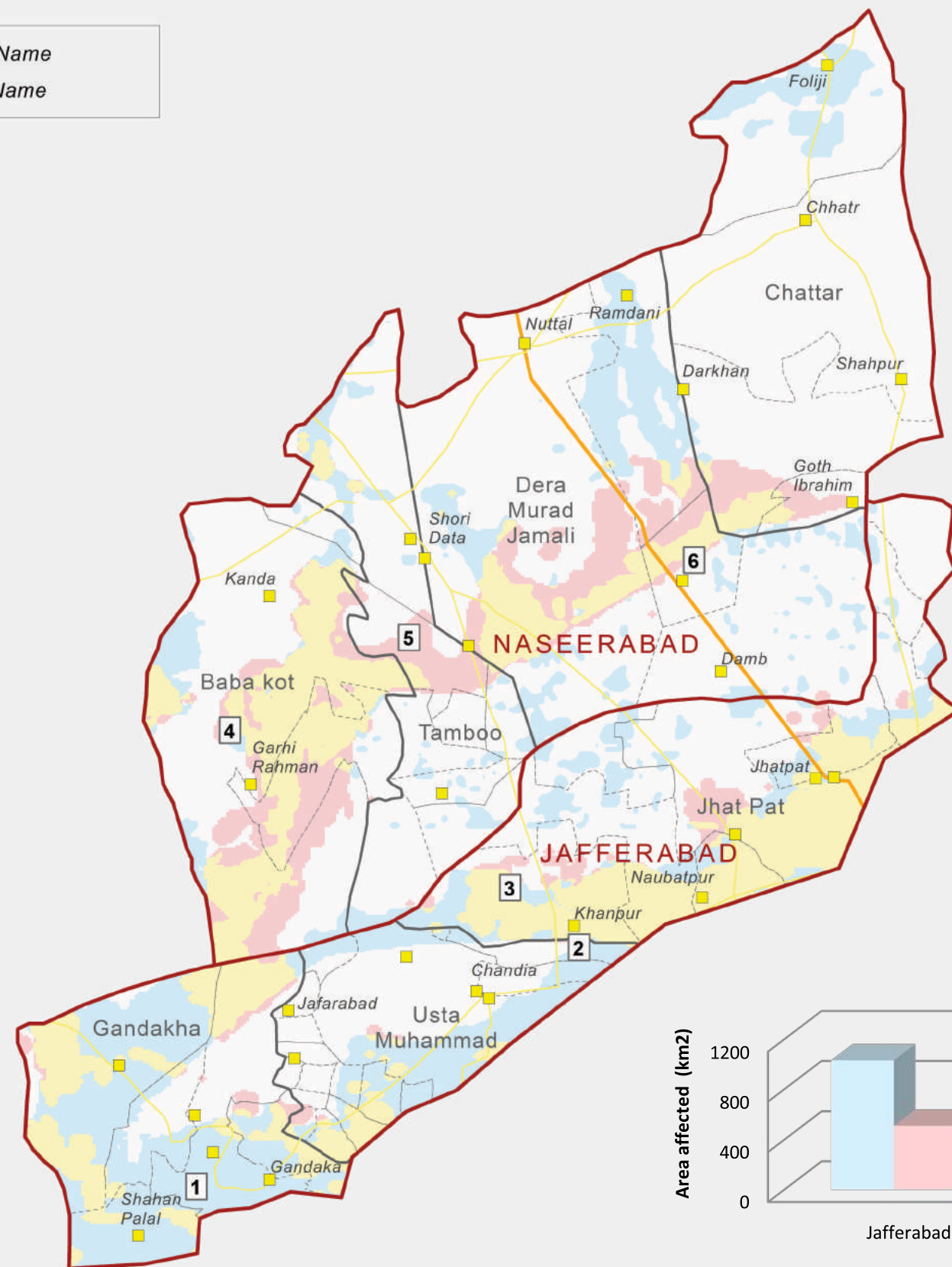


**Data Source:** UN-Habitat, PCO/OCHA, MODIS  
**Map:** bal\_brf\_floods\_overlay\_a3\_ls\_20141126  
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Floods Data Source: UNITAR-UNOSAT, MODIS

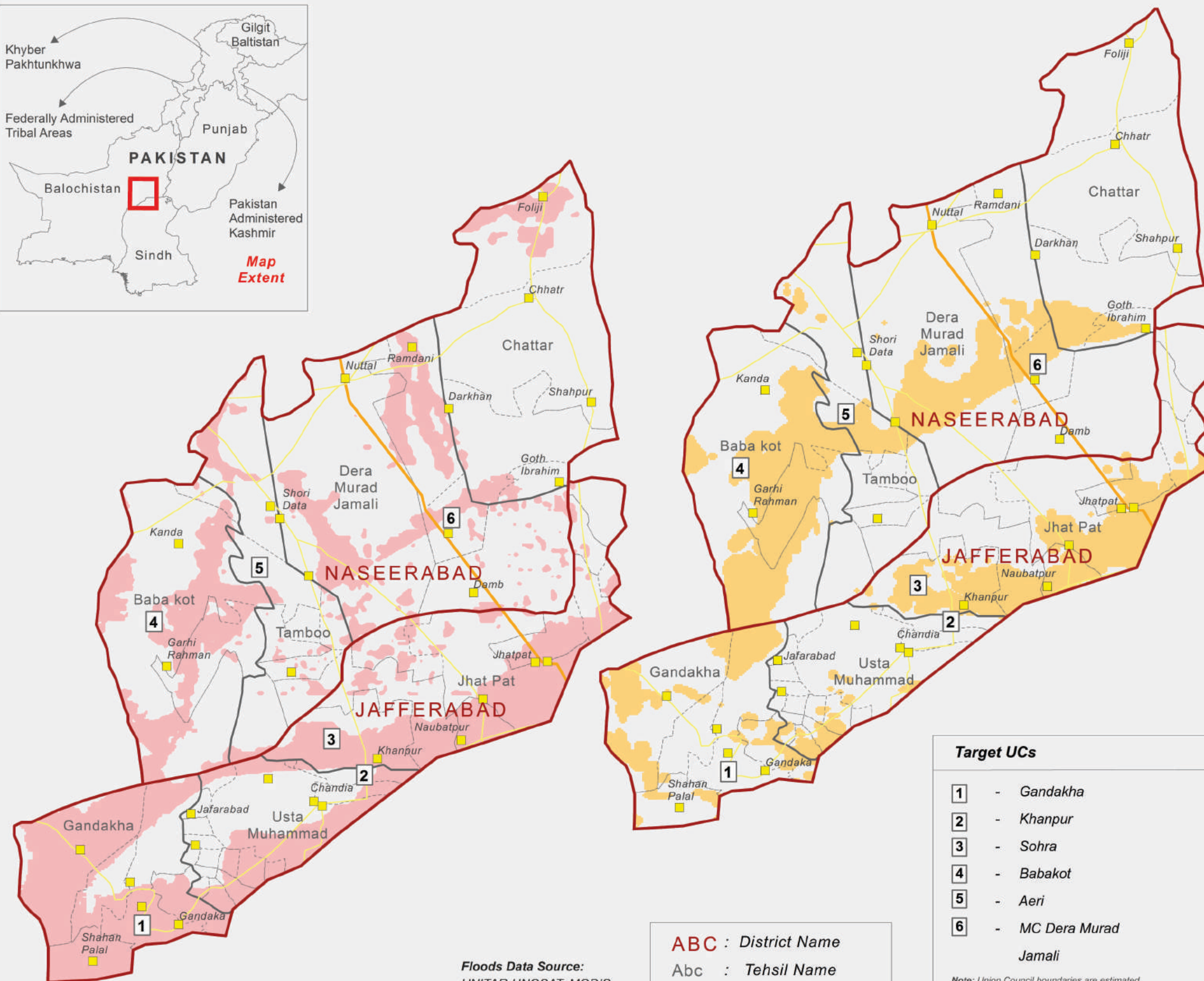




# COMPARISON OF PAST FLOODS IN SAMPLE AREA

## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary
- Flood Extent 2010
- Flood Extent 2012



Floods Data Source:  
UNITAR-UNOSAT, MODIS

ABC : District Name  
Abc : Tehsil Name

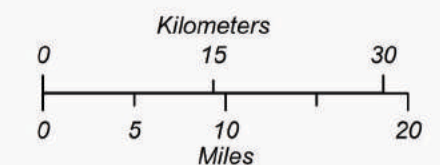
### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.



Nominal Scale 1:600,000 for A3 Size



Data Source: UN-Habitat, PCO/OCHA  
Map: bal\_brf\_past\_floods\_a3\_ls\_20141125  
Creation Date: November 25, 2014  
Datum/Projection: Geographic/WGS 84  
Disclaimer: The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

**VULNERABILITY ASSESSMENT  
FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**



**UN HABITAT**  
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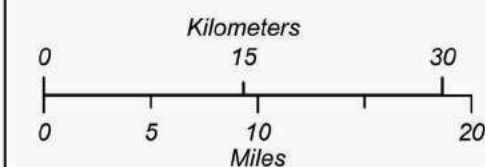
# FLOOD PRONE AREAS

## LEGEND

- City/Town
- Highway
- Road
- ▭ District Boundary
- ▭ Tehsil Boundary
- ▭ UC Boundary
- High Flood Prone Area
- Less Flood Prone Area



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA, MODIS  
**Map:** bal\_brif\_flood\_prone\_areas\_a3\_ls\_20141126  
**Creation Date:** November 26, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

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**Naseerabad and Jafferabad**



**UN HABITAT**  
 UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME

### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.

ABC : District Name  
 Abc : Tehsil Name

Note: Flood prone areas are extracted from past flood extents.





# SETTLEMENTS AT RISK DURING REPEATED FLOODS

## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary

### Settlements at

- High Risk
- Low Risk
- Safe

### Features Interpretation

- Water
- Rocky Area
- Barren Land/Soil
- Vegetation/Agriculture

**Note:** Settlements at tentative risk were determined from flood prone areas

**ABC :** District Name  
**Abc :** Tehsil Name



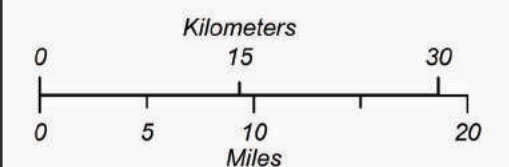
### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

**Note:** Union Council boundaries are estimated.



Nominal Scale 1:512,000 for A3 Size

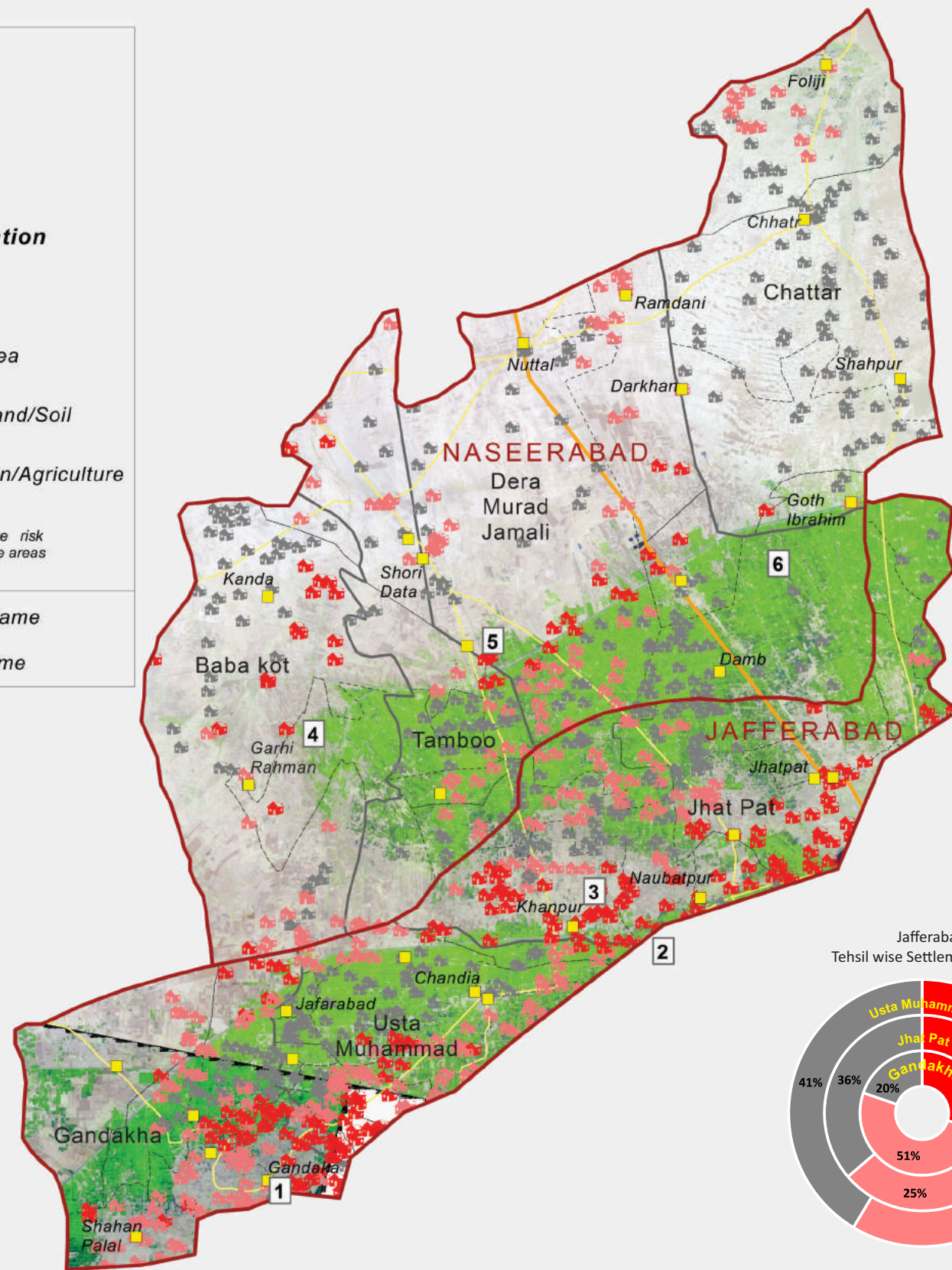


**Data Source:** UN-Habitat, PCO/OCHA, MODIS  
**Map:** bal\_brf\_settlements\_risk\_a3\_ls\_20141211  
**Creation Date:** December 11, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

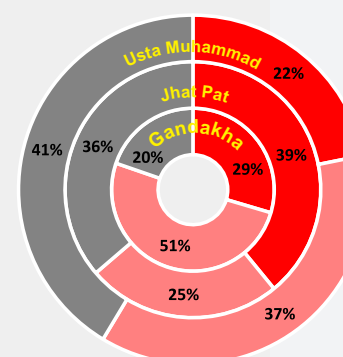
## VULNERABILITY ASSESSMENT FOR DELIVERING POLICY ADVICE Naseerabad and Jafferabad



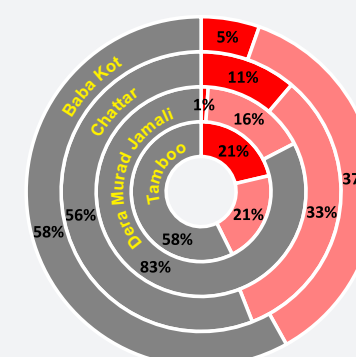
**UN HABITAT**  
UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME



Jafferabad  
Tehsil wise Settlements Status



Naseerabad  
Tehsil wise Settlements Status



■ At High Risk ■ At Low Risk ■ Safe





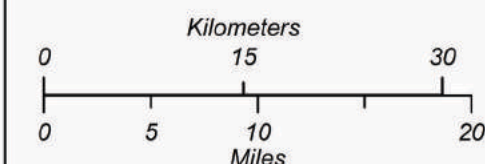
# POPULATION AT RISK DURING REPEATED FLOODS

## LEGEND

- City/Town
- Highway
- Road
- ▭ District Boundary
- ▭ Tehsil Boundary
- ▭ UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_pop\_risk\_a3\_ls\_20141126  
**Creation Date:** November 26, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

## VULNERABILITY ASSESSMENT FOR DELIVERING POLICY ADVICE Naseerabad and Jafferabad



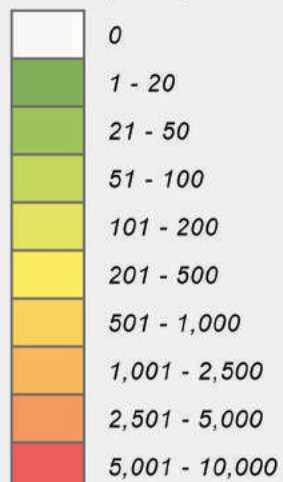
**UN HABITAT**  
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### Population at

- ▭ High Risk
- ▭ Low Risk

### Population Distribution

Persons per sq. km.



**Note:** Population at tentative risk was determined from flood prone areas

**ABC :** District Name

**Abc :** Tehsil Name

Population Data Source: Landsat 2011

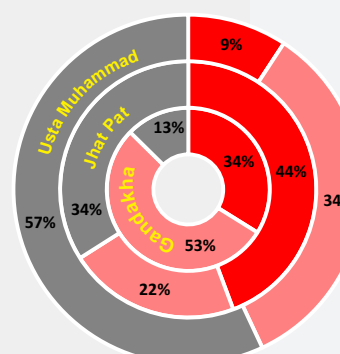


### Target UCs

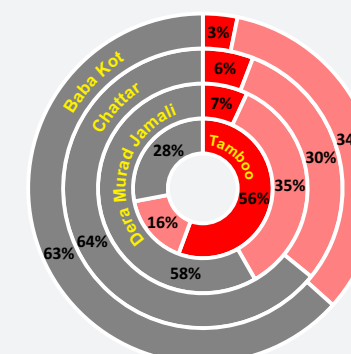
- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

**Note:** Union Council boundaries are estimated.

Jafferabad  
Tehsil wise Population Status



Naseerabad  
Tehsil wise Population Status



■ At High Risk ■ At Low Risk ■ Safe





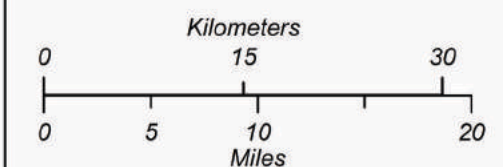
# POSSIBLE SAFE AREAS DURING FLOODS

## LEGEND

- City/Town
- Highway
- Road
- Possible Safe Area
- District Boundary
- Tehsil Boundary
- UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA, MODIS  
**Map:** bal\_br\_safe\_areas\_a3\_ls\_20141125  
**Creation Date:** November 25, 2014  
**Datum/Projection:** Geographic/WGS 84

**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

**VULNERABILITY ASSESSMENT  
 FOR DELIVERING POLICY ADVICE  
 Naseerabad and Jafferabad**



**UN HABITAT**  
 UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME

### Features Interpretation

- Water
- Rocky Area
- Barren Land/Soil
- Vegetation/Agriculture

**ABC :** District Name

**Abc :** Tehsil Name

### Note:

Possible safe areas are modelled from past floods extents and Digital Elevation Model. Actual situation on ground may differ from derived results.

### Target UCs

- 1** - Gandakha
- 2** - Khanpur
- 3** - Sohra
- 4** - Babakot
- 5** - Aeri
- 6** - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.



# Survey Assessment Maps

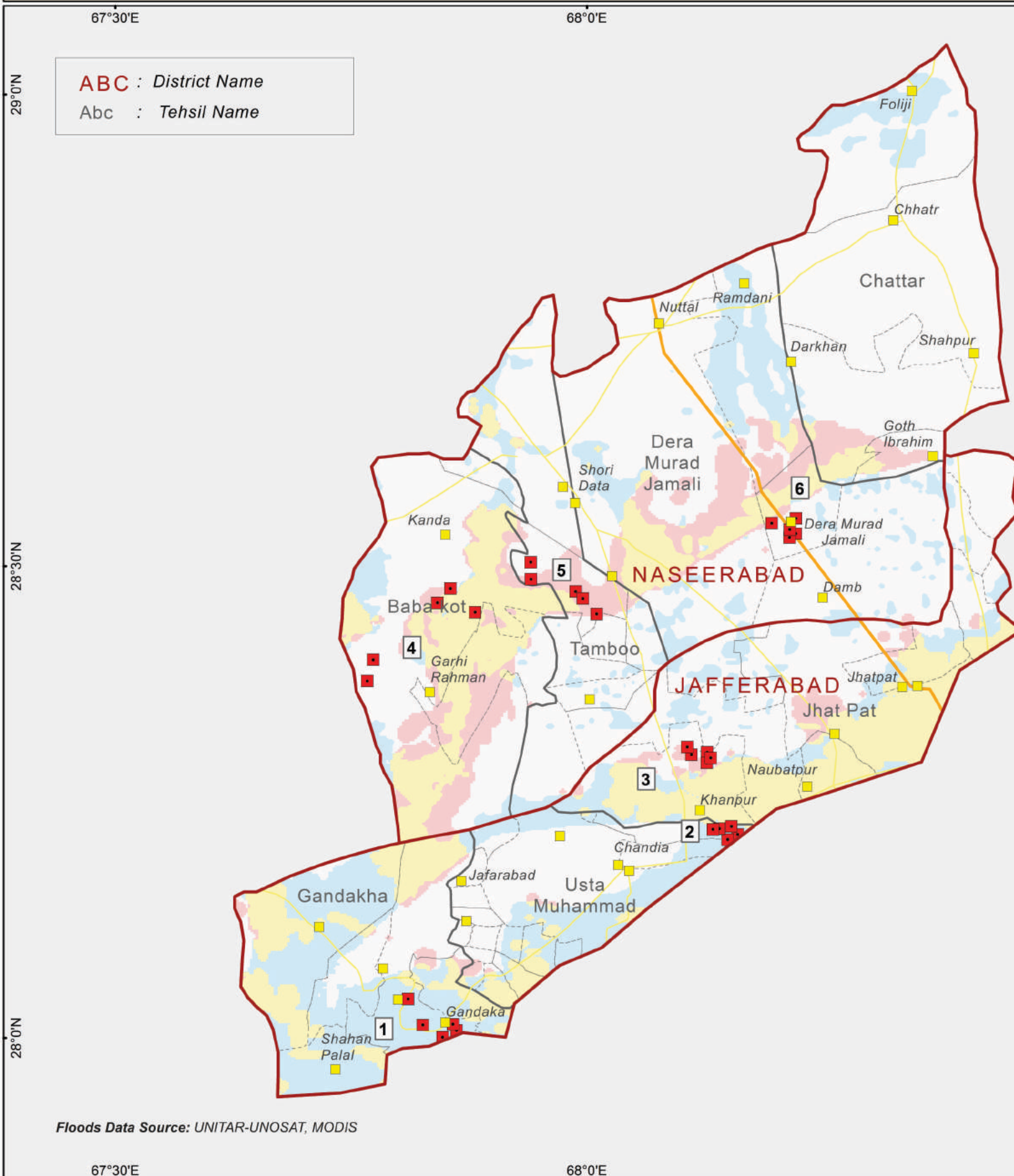




# SAMPLE FRAME FOR JAFFERABAD AND NASEERABAD DISTRICTS

## LEGEND

- Surveyed Village
- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary
- Flooded in 2010 & 2012
- Flooded in 2012 only
- Flooded in 2010 only



### Target UCs

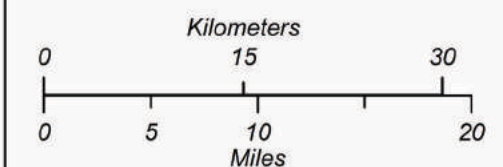
- |   |                        |
|---|------------------------|
| 1 | - Gandakha             |
| 2 | - Khanpur              |
| 3 | - Sohra                |
| 4 | - Babakot              |
| 5 | - Aeri                 |
| 6 | - MC Dera Murad Jamali |

Note: Union Council boundaries are estimated.

Floods Data Source: UNITAR-UNOSAT, MODIS



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_sample\_frame\_a3\_ls\_20141211  
**Creation Date:** November 26, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

**VULNERABILITY ASSESSMENT  
FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**



**UN HABITAT**  
UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME





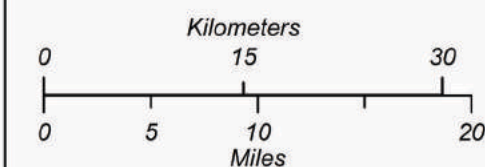
# DEMOGRAPHIC PATTERN OF SAMPLE HOUSEHOLDS

## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_demography\_a3\_ls\_20141202  
**Creation Date:** December 02, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

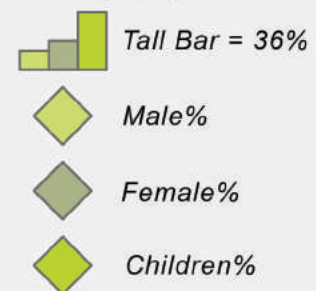
## VULNERABILITY ASSESSMENT FOR DELIVERING POLICY ADVICE

### Naseerabad and Jafferabad



**UN HABITAT**  
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### Demography



ABC : District Name  
 Abc : Tehsil Name

### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.





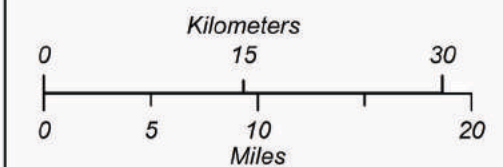
# HOUSE OWNERSHIP IN SAMPLE HOUSEHOLDS

## LEGEND

- City/Town
- Highway
- Road
- ▭ District Boundary
- ▭ Tehsil Boundary
- ▭ UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brh\_house\_ownership\_a3\_ls\_20141202  
**Creation Date:** December 02, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

**VULNERABILITY ASSESSMENT  
 FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**



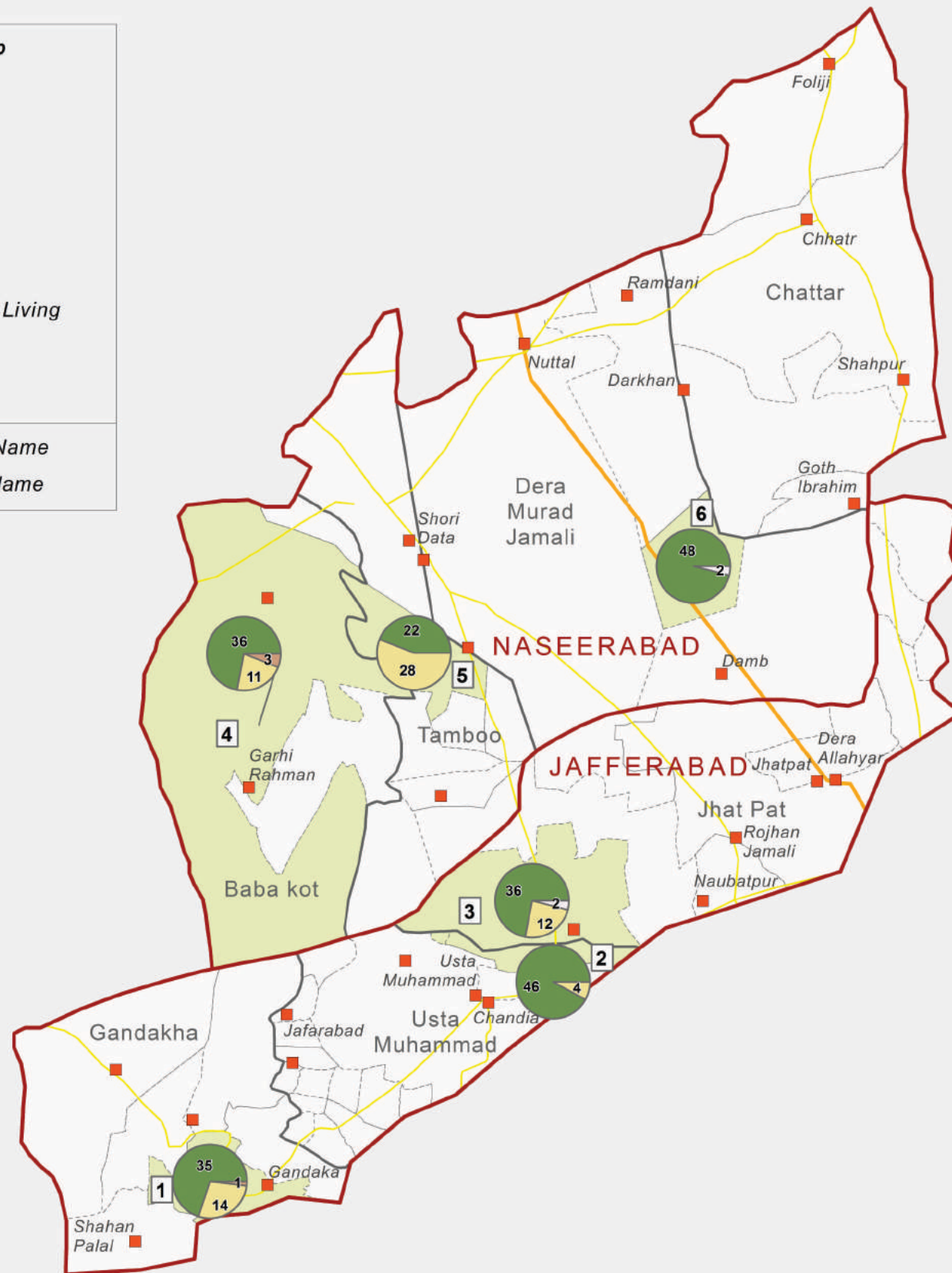
**UN HABITAT**  
 UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME

### House Ownership



- ◆ Owner
- ◆ Tenant
- ◆ Rent Free Living
- ◆ Other

**ABC** : District Name  
**Abc** : Tehsil Name



### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

*Note: Union Council boundaries are estimated.*





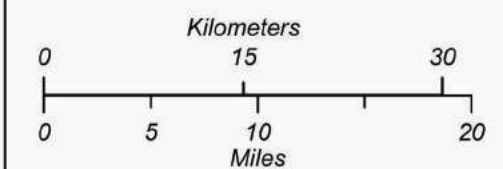
# FAMILY VULNERABILITY IN SAMPLE HOUSEHOLDS

## LEGEND

- City/Town
- Highway
- Road
- ▭ District Boundary
- ▭ Tehsil Boundary
- ▭ UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_family\_vulnerability\_a3\_ls\_20141202  
**Creation Date:** December 02, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

**VULNERABILITY ASSESSMENT  
 FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**



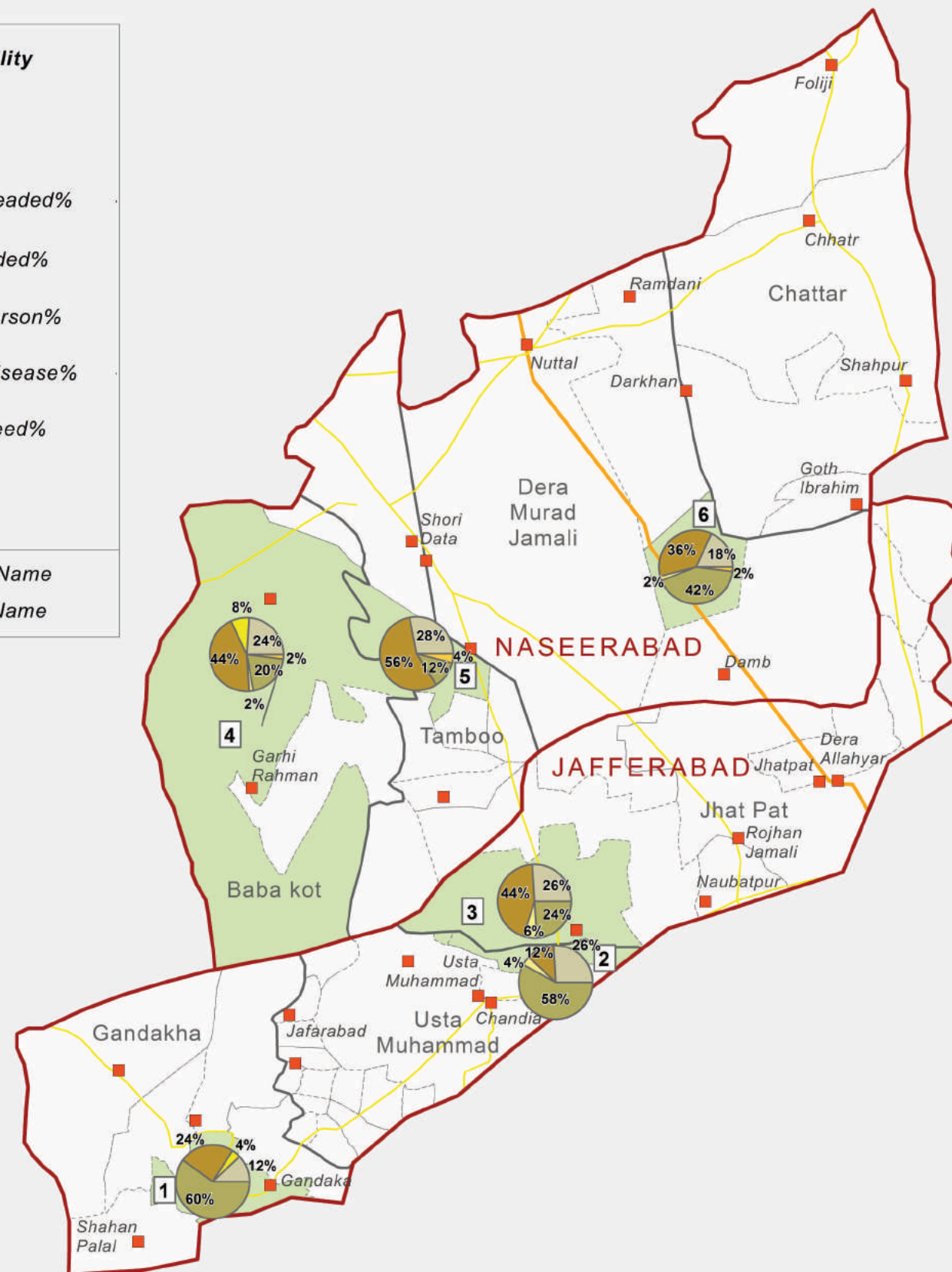
**UN HABITAT**  
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### Family Vulnerability



- ◆ Female headed%
- ◆ Child headed%
- ◆ Elderly person%
- ◆ Chronic disease%
- ◆ Special need%
- ◆ Others%

**ABC :** District Name  
**Abc :** Tehsil Name



### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

*Note: Union Council boundaries are estimated.*





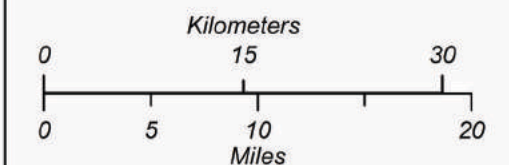
# SOURCE OF INCOME IN SAMPLE HOUSEHOLDS

## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_income\_source\_a3\_ls\_20141209  
**Creation Date:** December 09, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

## VULNERABILITY ASSESSMENT FOR DELIVERING POLICY ADVICE Naseerabad and Jafferabad

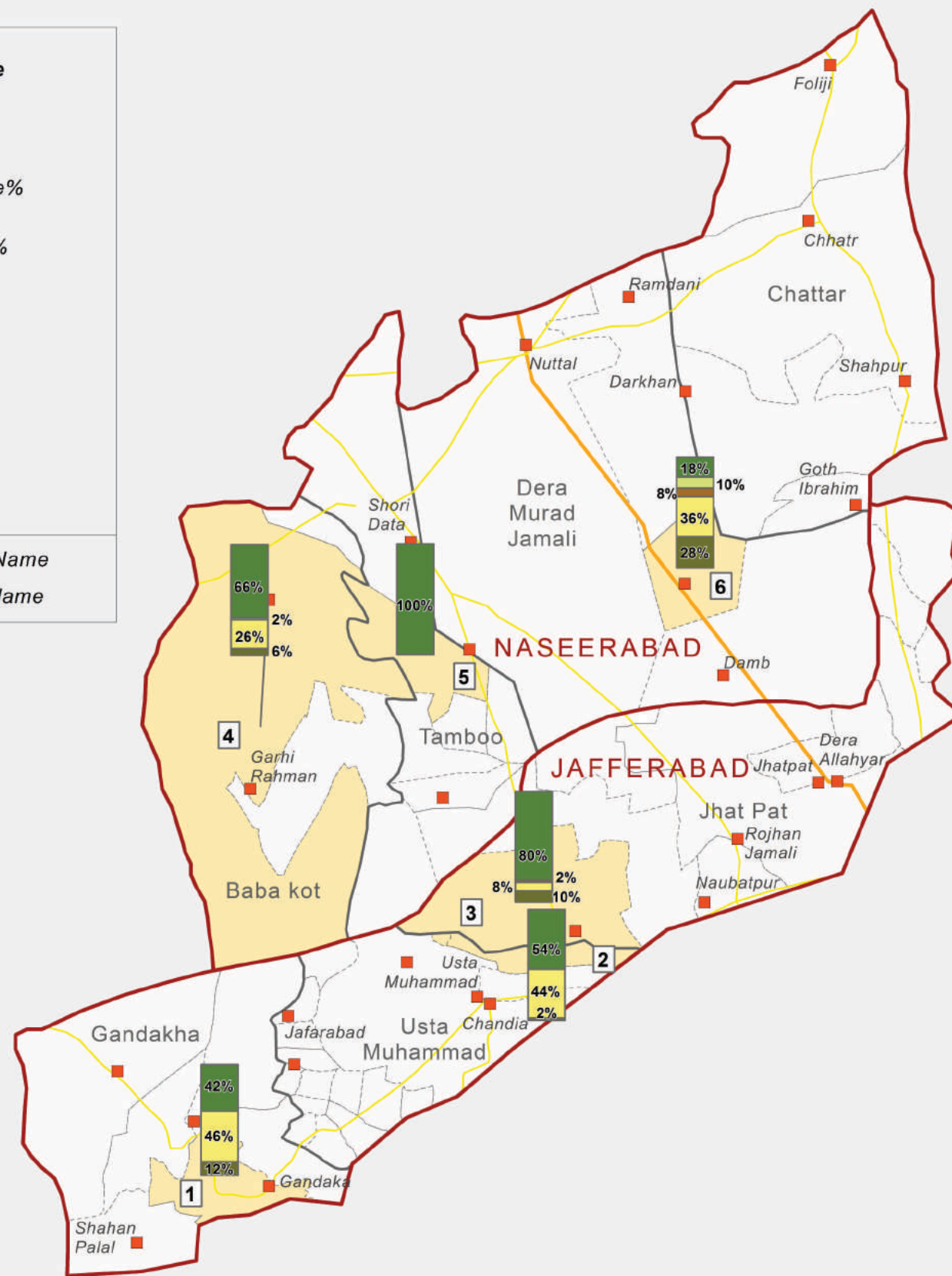


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### Source of Income

- Agriculture%
- Livestock%
- Trade%
- Crafts%
- Labor%
- Others%

ABC : District Name  
 Abc : Tehsil Name



### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.







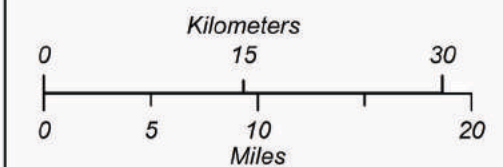
# AVERAGE MONTHLY INCOME OF SAMPLE HOUSEHOLDS

## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_monthly\_income\_a3\_ls\_20141210  
**Creation Date:** December 10, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

**VULNERABILITY ASSESSMENT  
 FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**



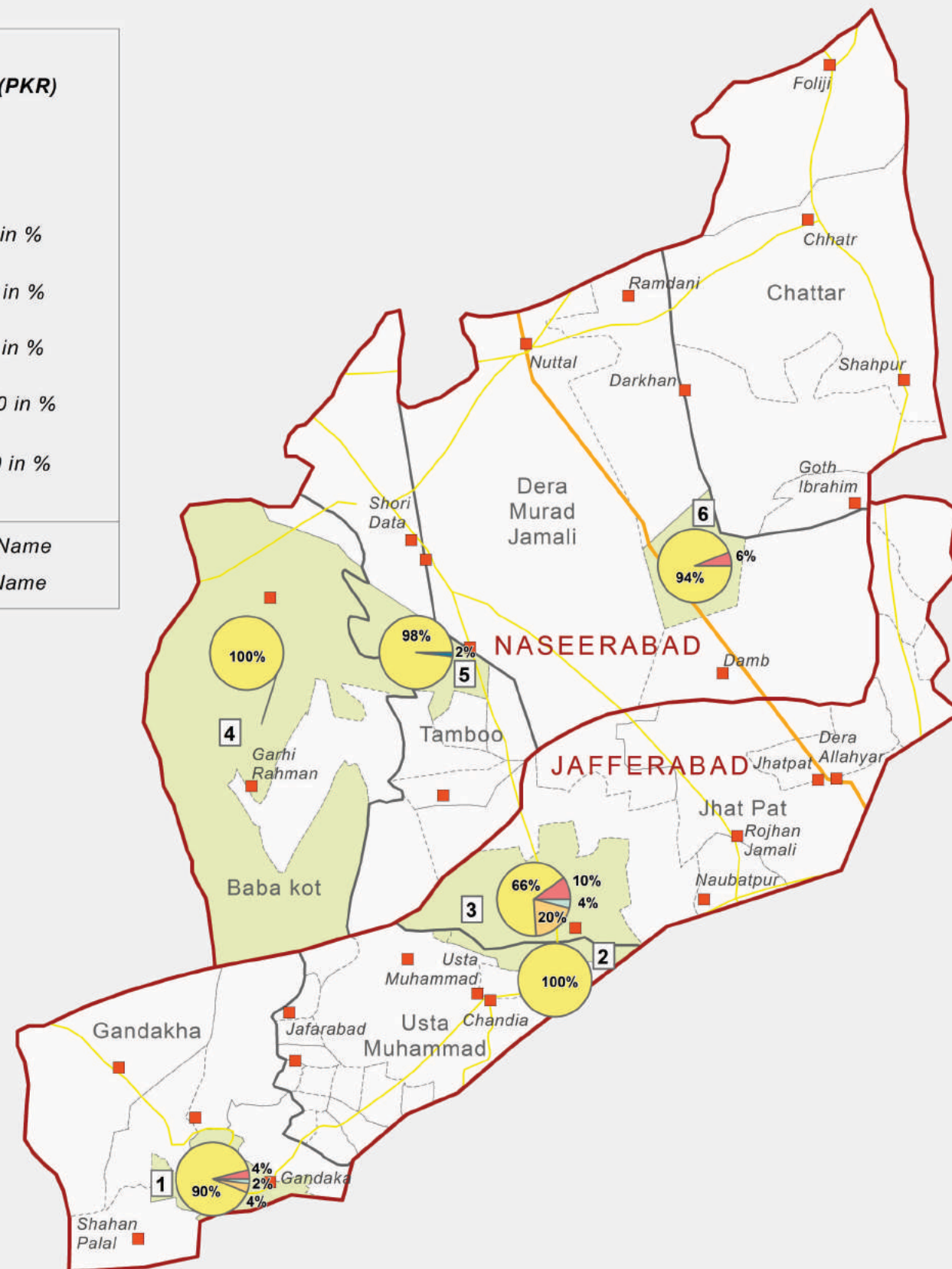
**UN HABITAT**  
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### Household Avg. Monthly Income (PKR)



- ◆ No Income in %
- ◆ Up to 5000 in %
- ◆ Up to 7000 in %
- ◆ Up to 10000 in %
- ◆ Over 10000 in %

ABC : District Name  
 Abc : Tehsil Name



### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.





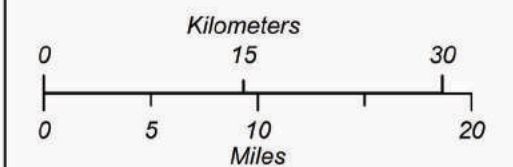
# WALL TYPES OF CONSTRUCTIONS IN SAMPLE HOUSEHOLDS

## LEGEND

- City/Town
- Highway
- Road
- ▭ District Boundary
- ▭ Tehsil Boundary
- ▭ UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_wall\_type\_a3\_ls\_20141210  
**Creation Date:** December 10, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

## VULNERABILITY ASSESSMENT FOR DELIVERING POLICY ADVICE Naseerabad and Jafferabad



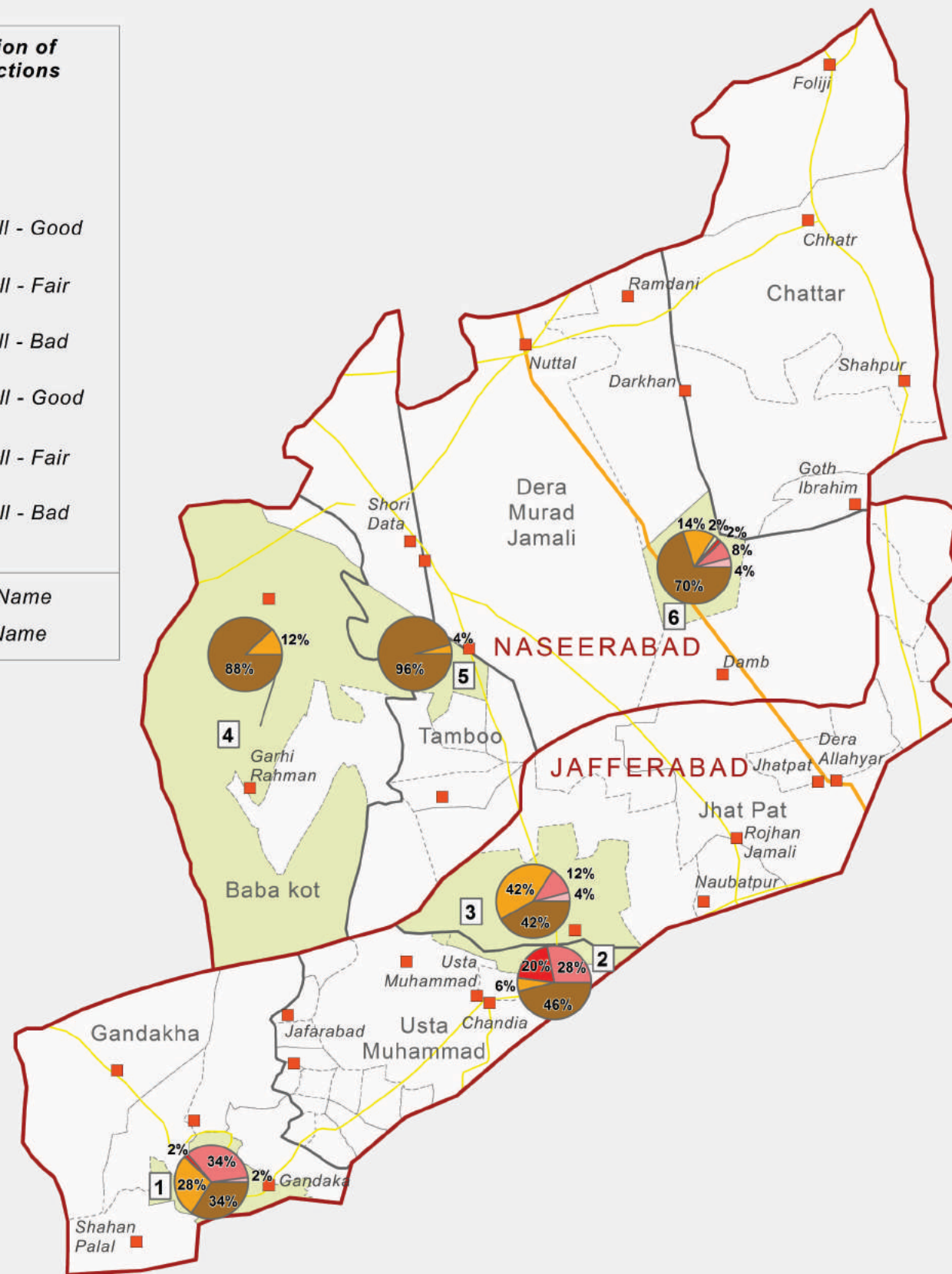
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### Type and Condition of Walls of constructions



- Pacca Wall - Good
- Pacca Wall - Fair
- Pacca Wall - Bad
- Kacha Wall - Good
- Kacha Wall - Fair
- Kacha Wall - Bad

ABC : District Name  
 Abc : Tehsil Name



### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.





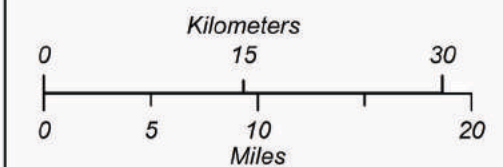
# ROOF TYPES OF CONSTRUCTIONS IN SAMPLE HOUSEHOLDS

## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brf\_roof\_type\_a3\_ls\_20141210  
**Creation Date:** December 10, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

## VULNERABILITY ASSESSMENT FOR DELIVERING POLICY ADVICE Naseerabad and Jafferabad



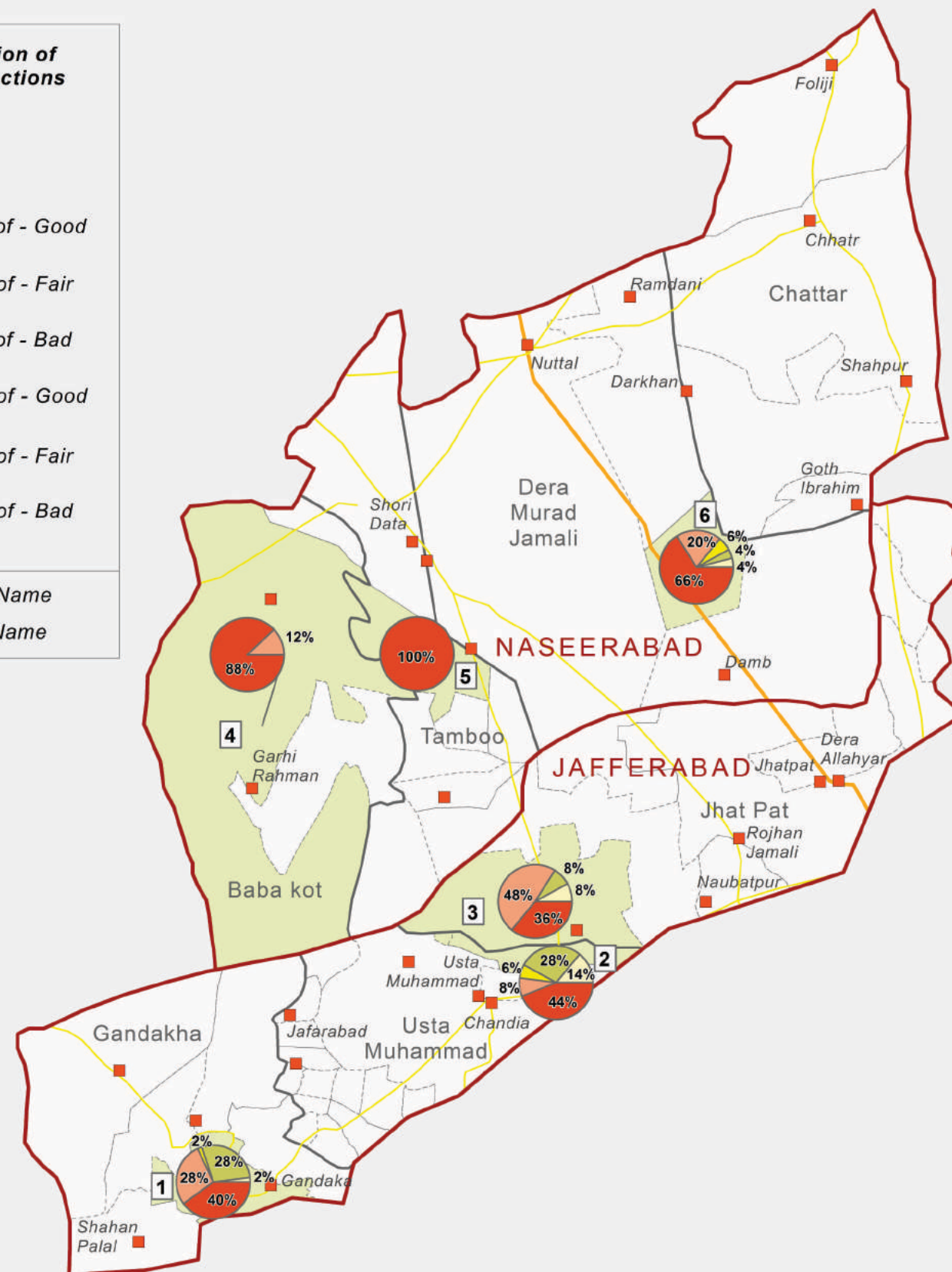
**UN HABITAT**  
UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME

### Type and Condition of Roofs of constructions



- ◆ Pacca Roof - Good
- ◆ Pacca Roof - Fair
- ◆ Pacca Roof - Bad
- ◆ Kacha Roof - Good
- ◆ Kacha Roof - Fair
- ◆ Kacha Roof - Bad

ABC : District Name  
 Abc : Tehsil Name



### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.





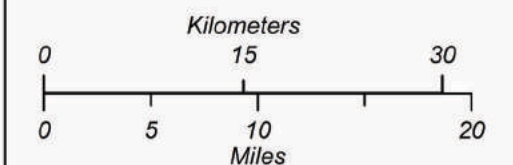
# ROOM TYPES IN SAMPLE HOUSEHOLDS

## LEGEND

- City/Town
- Highway
- Road
- ▭ District Boundary
- ▭ Tehsil Boundary
- ▭ UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** bal\_brif\_rooms\_a3\_ls\_20141210  
**Creation Date:** December 10, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

## VULNERABILITY ASSESSMENT FOR DELIVERING POLICY ADVICE Naseerabad and Jafferabad

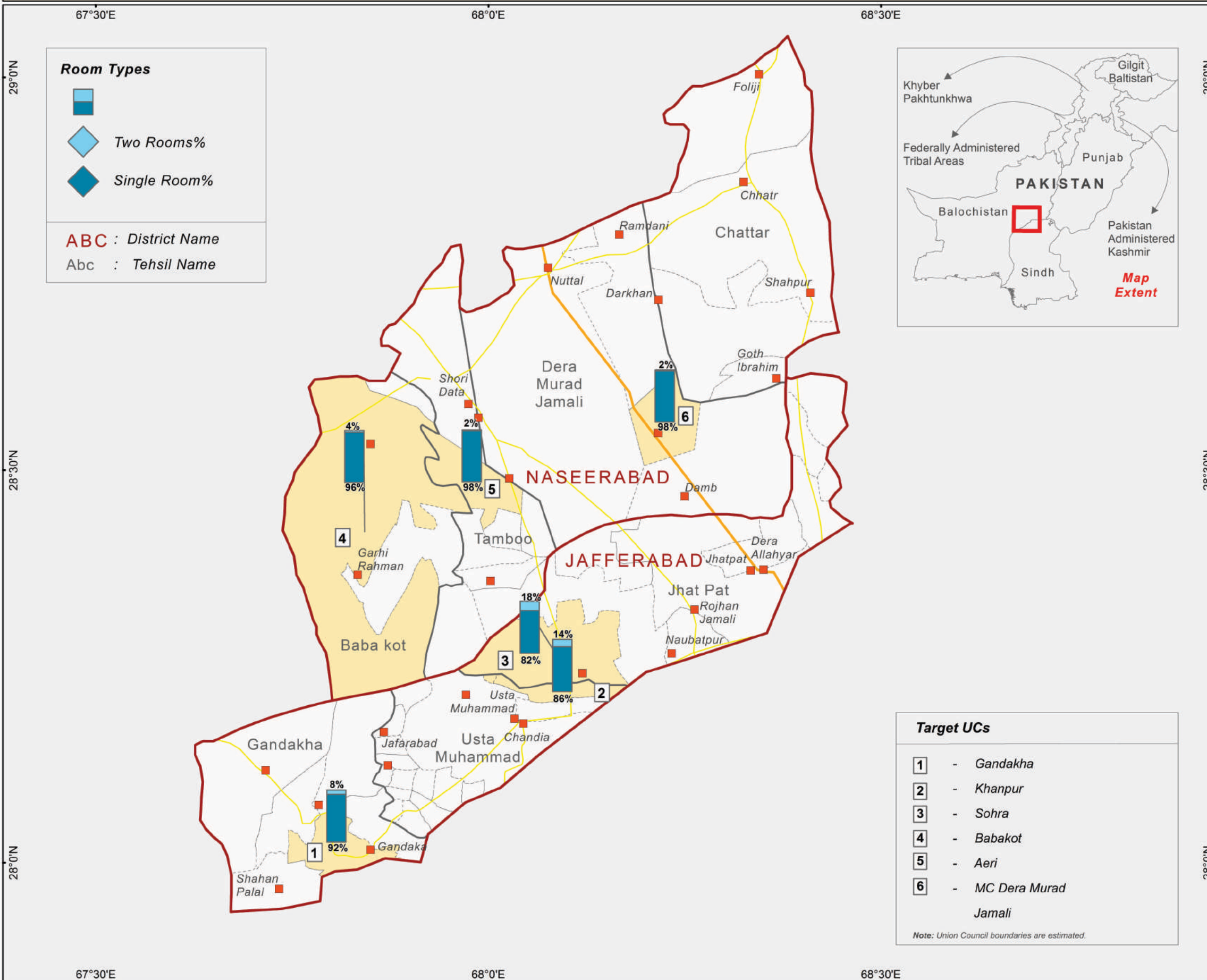


**UN HABITAT**  
UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME

### Room Types



ABC : District Name  
 Abc : Tehsil Name



### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.





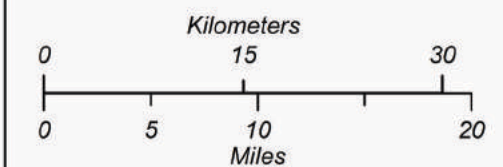
# TYPE OF PLASTER FOR ROOFS IN SAMPLE HOUSEHOLDS

## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** 28\_bal\_brf\_plaster\_roofs\_a3\_ls\_20141222  
**Creation Date:** December 22, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

**VULNERABILITY ASSESSMENT  
 FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**



**UN HABITAT**  
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### Type of Plaster for Roofs

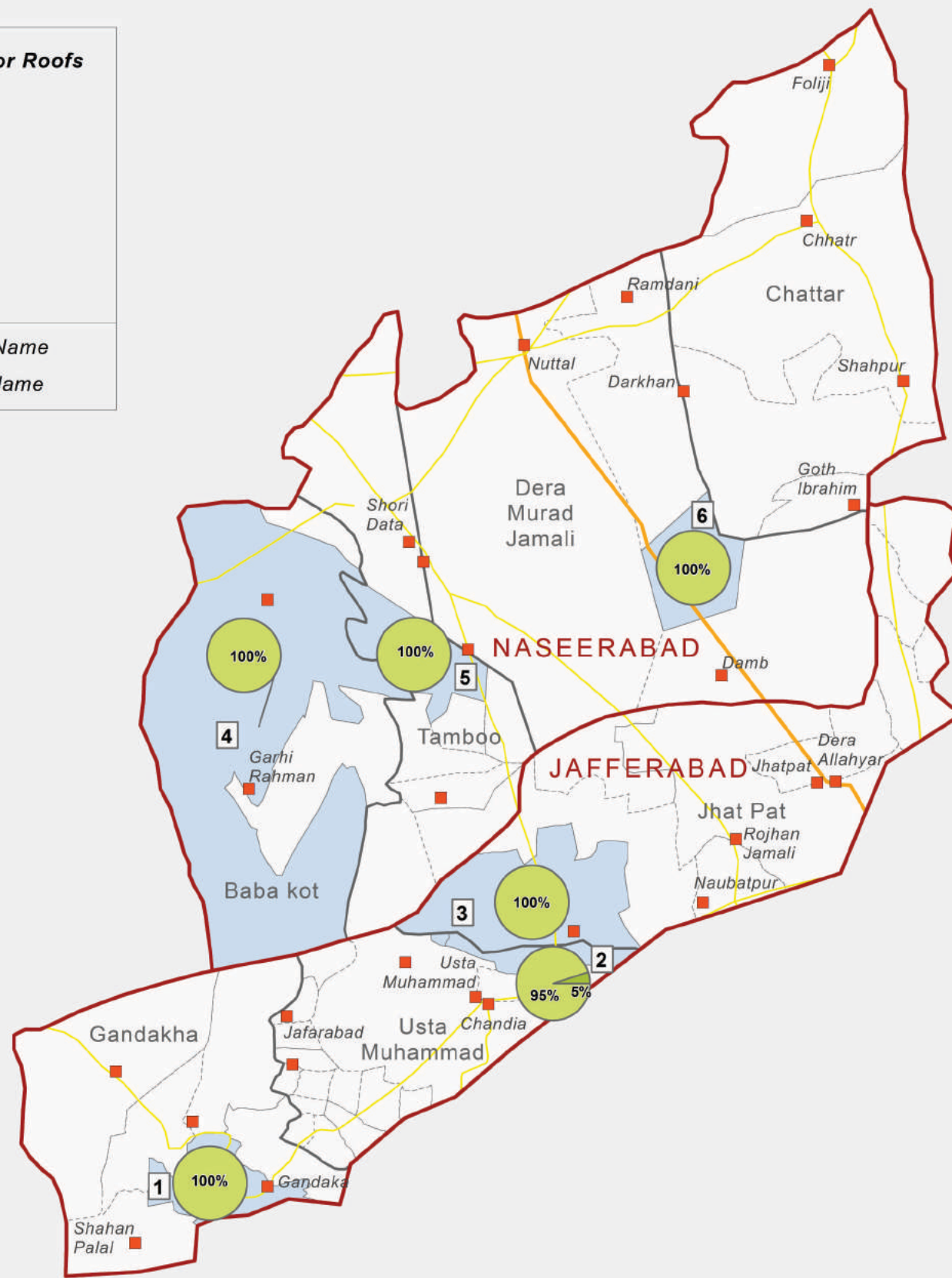


Cement%

Mud Plus%

ABC : District Name

Abc : Tehsil Name



### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.





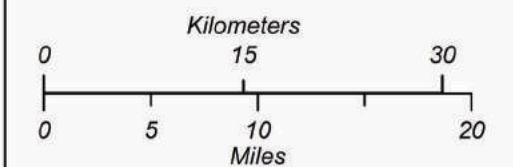
# TYPE OF PLASTER FOR WALLS IN SAMPLE HOUSEHOLDS

## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** 29\_bal\_brf\_plaster\_walls\_a3\_ls\_20141222  
**Creation Date:** December 22, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

## VULNERABILITY ASSESSMENT FOR DELIVERING POLICY ADVICE Naseerabad and Jafferabad



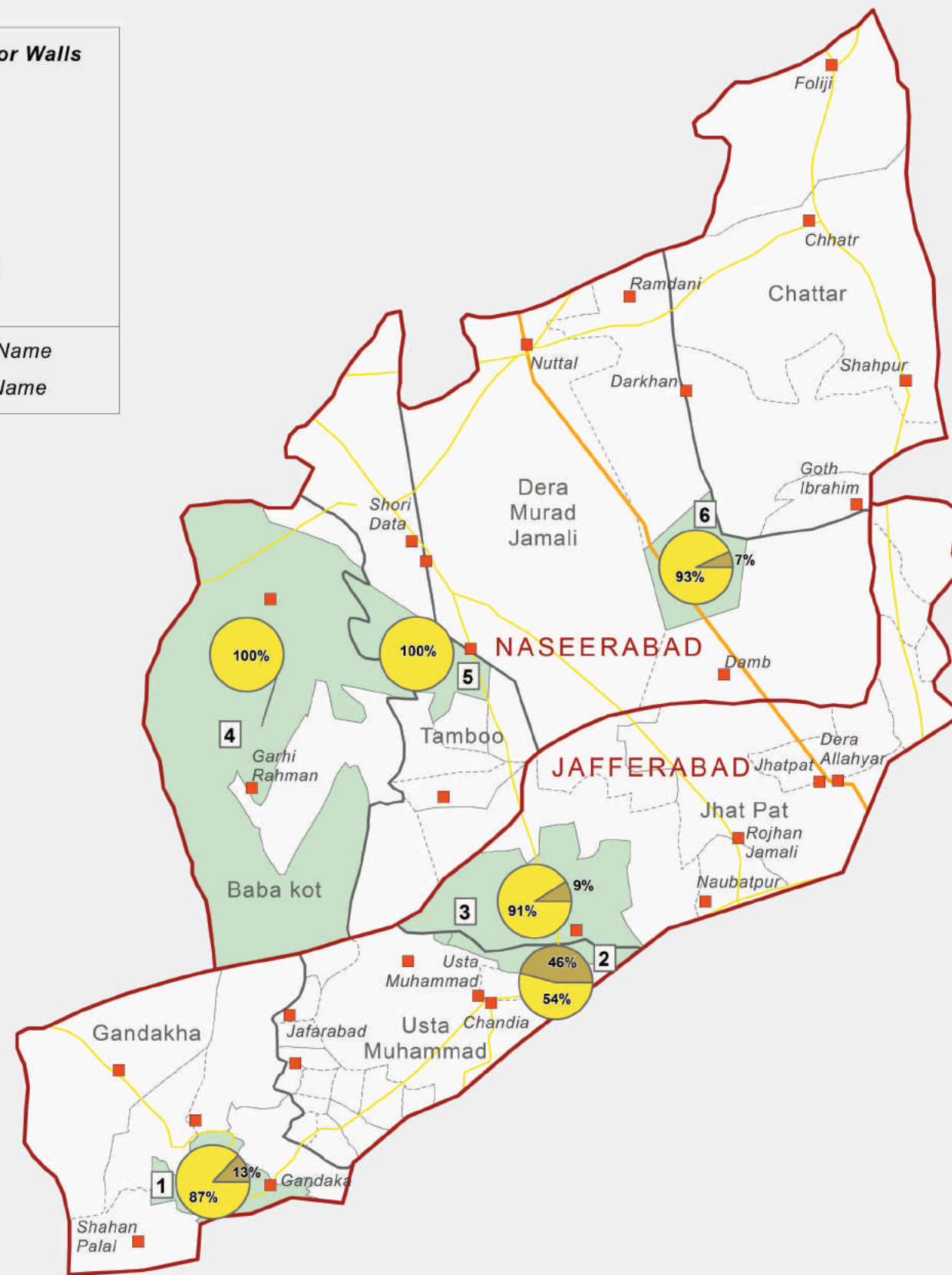
**UN HABITAT**  
UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME

### Type of Plaster for Walls



- ◆ Cement%
- ◆ Mud Plus%

ABC : District Name  
 Abc : Tehsil Name



### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.





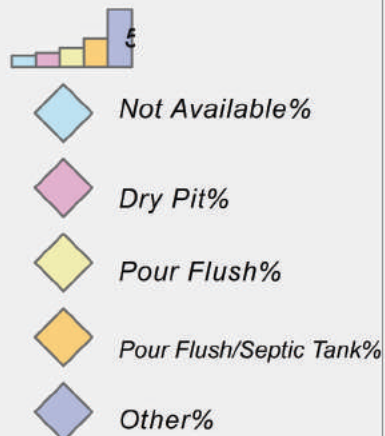


# STATUS OF LATRINE FACILITIES IN SAMPLE HOUSEHOLDS

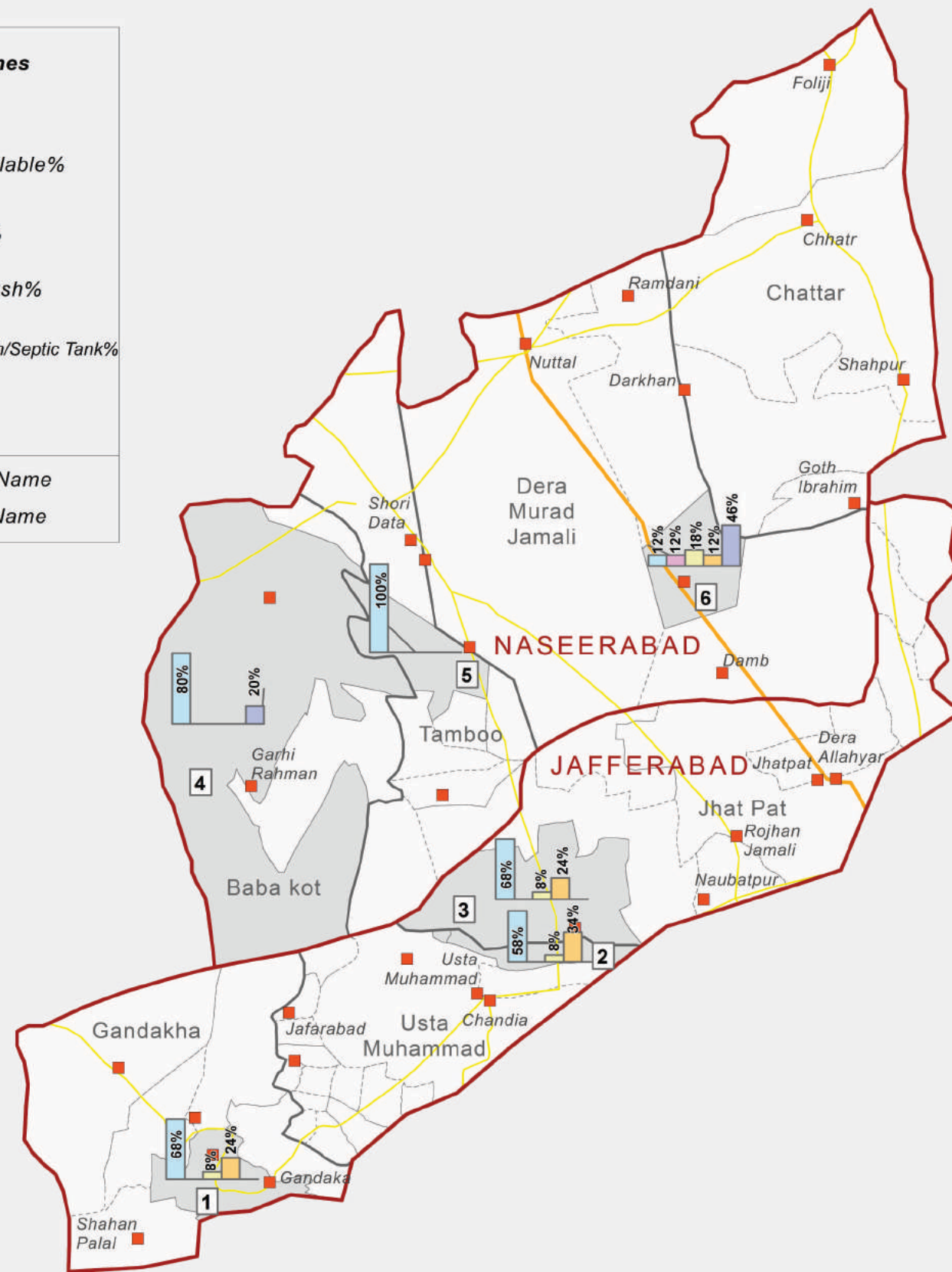
## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary

### Status of Latrines



ABC : District Name  
Abc : Tehsil Name



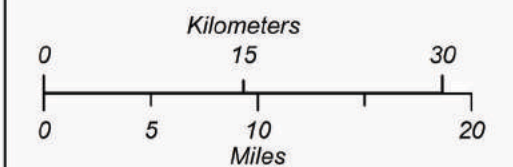
### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map:** 30\_bal\_brif\_latrine\_status\_a3\_ls\_20141222  
**Creation Date:** December 22, 2014  
**Datum/Projection:** Geographic/WGS 84  
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**VULNERABILITY ASSESSMENT  
FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**



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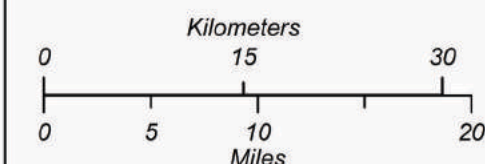
# FUNCTIONALITY OF LATRINES IN SAMPLE HOUSEHOLDS

## LEGEND

- City/Town
- Highway
- Road
- District Boundary
- Tehsil Boundary
- UC Boundary



Nominal Scale 1:512,000 for A3 Size



**Data Source:** UN-Habitat, PCO/OCHA  
**Map31\_bal\_brf\_latrine\_functionality\_a3\_ls\_20141222**  
**Creation Date:** December 22, 2014  
**Datum/Projection:** Geographic/WGS 84  
**Disclaimer:** The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

**VULNERABILITY ASSESSMENT  
 FOR DELIVERING POLICY ADVICE**  
**Naseerabad and Jafferabad**



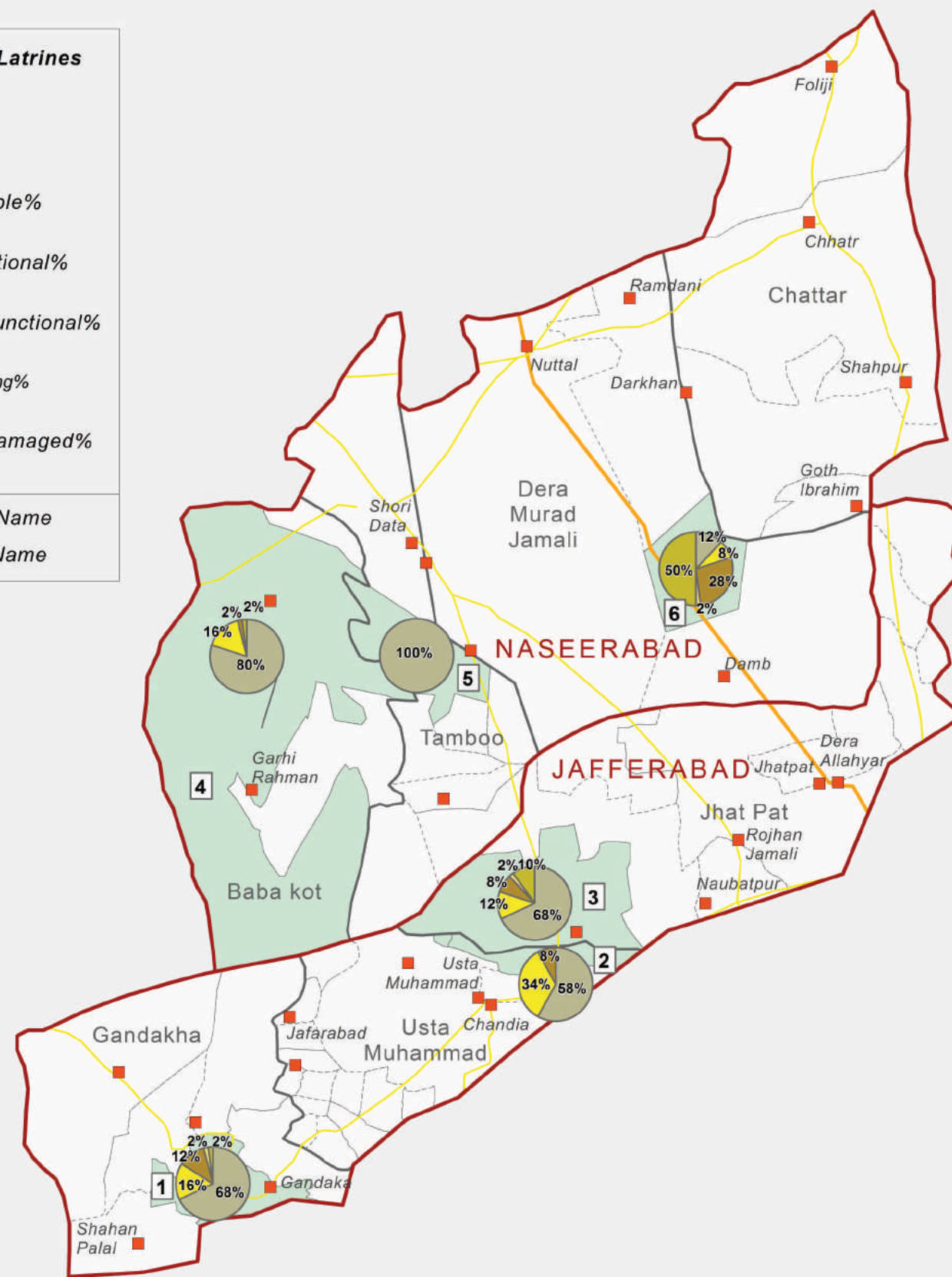
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### Functionality of Latrines



- Not Available%
- Fully Functional%
- Partially Functional%
- Need Cleaning%
- Partially Damaged%

**ABC** : District Name  
**Abc** : Tehsil Name



### Target UCs

- 1 - Gandakha
- 2 - Khanpur
- 3 - Sohra
- 4 - Babakot
- 5 - Aeri
- 6 - MC Dera Murad Jamali

Note: Union Council boundaries are estimated.



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