



Smart Solutions for Today's Geoscientist



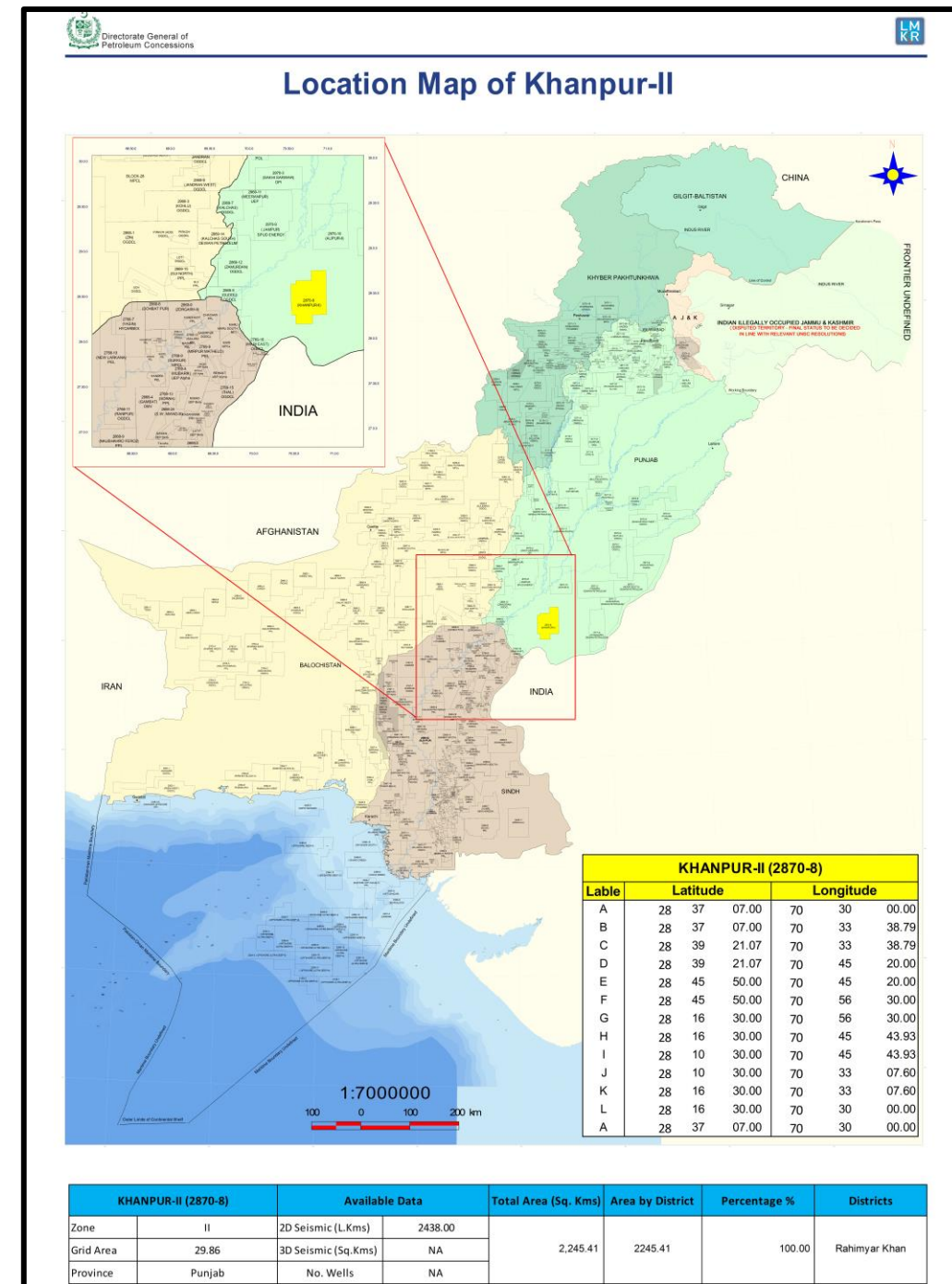
# BLOCK: KHANPUR-II (2870-8)

ONSHORE BLOCK BIDDING ROUND 2025

MINISTRY OF ENERGY PETROLEUM DIVISION (DGPC)

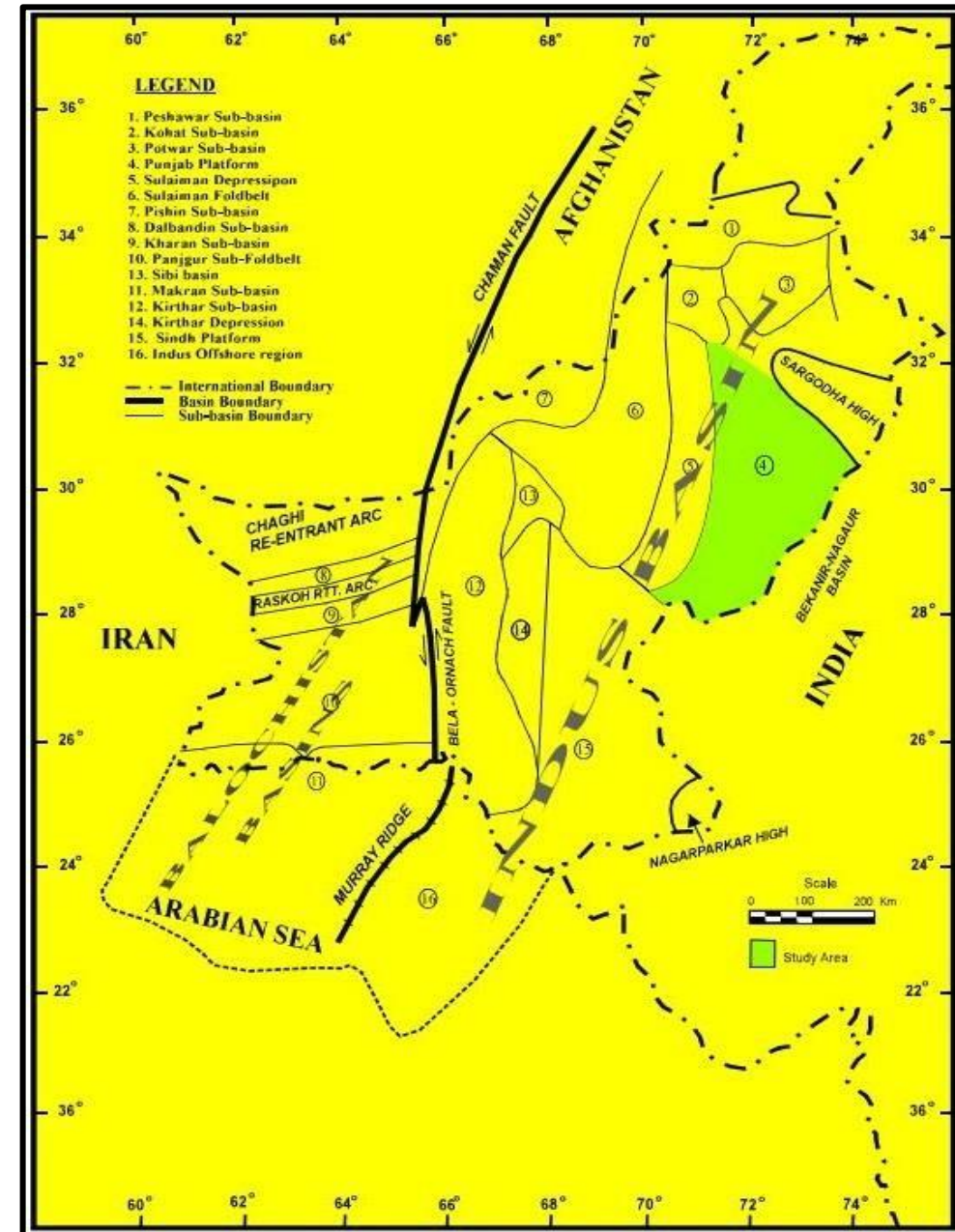
# Introduction

- Khanpur-II Block covers an area of 2245.41 Sq. Kms.
- Location: Rahimyar khan district, Punjab, Pakistan
- Geological Basin: Punjab Platform, Pakistan.
- The block falls in Prospectivity Zone II.
- Estimated Resources of the Central Indus Basin:
  - Oil: 2880 million barrels
  - Gas: 69.12 trillion cubic feet
- AMOCO, OGDCL, POGC and JAP acquired some 2D data approximately 2438.91 L. Kms in the block within the years 1976, 1983, 1984, 1991, 1992, 1993, 1998 and 2006 and 2014.
- The Block is surrounded by Khangarh (East), Mari East (South-West), Alipur (North) and Guddu (West) blocks.
- The well drilled in the vicinity is Sheikhan Bhutta-01.



# Geological Map

- The basins of Potwar and Kohat Formation formed as a result of compressional tectonics over the leading edge of the salt range decollement.
- The slabs of rock (Kohat and Potwar) were uplifted over the continued thrusting of the decollement and extend towards the Main Boundary thrusts.
- The structures formed therein are mostly fault bounded and heavily thrust including reverse faults, duplex structures, compartmentalization and imbrication.
- Thick skinned tectonics are prevalent in these Basins, wherein a floor thrust is common from which various horse-splays of faults may arise.



# Petroleum System

## Source Rocks:

- Sembar Formation (Cretaceous) and Intra-Formational Shale units are the source rocks in the area.

## Reservoirs:

- Pirkoh (Late Eocene), Habib Rahi(Middle Eocene) , Sui main Limestone (Eocene), Dunghan (Paleocene) and first three sand intervals of Lower Goru Formation (Early Cretaceous) are reservoirs of the area.

## Seal:

- Upper Goru Formation (Cretaceous), Ghazij Shale (Eocene) along with Sirki Shale (Eocene) acts as a seal.

## Trap:

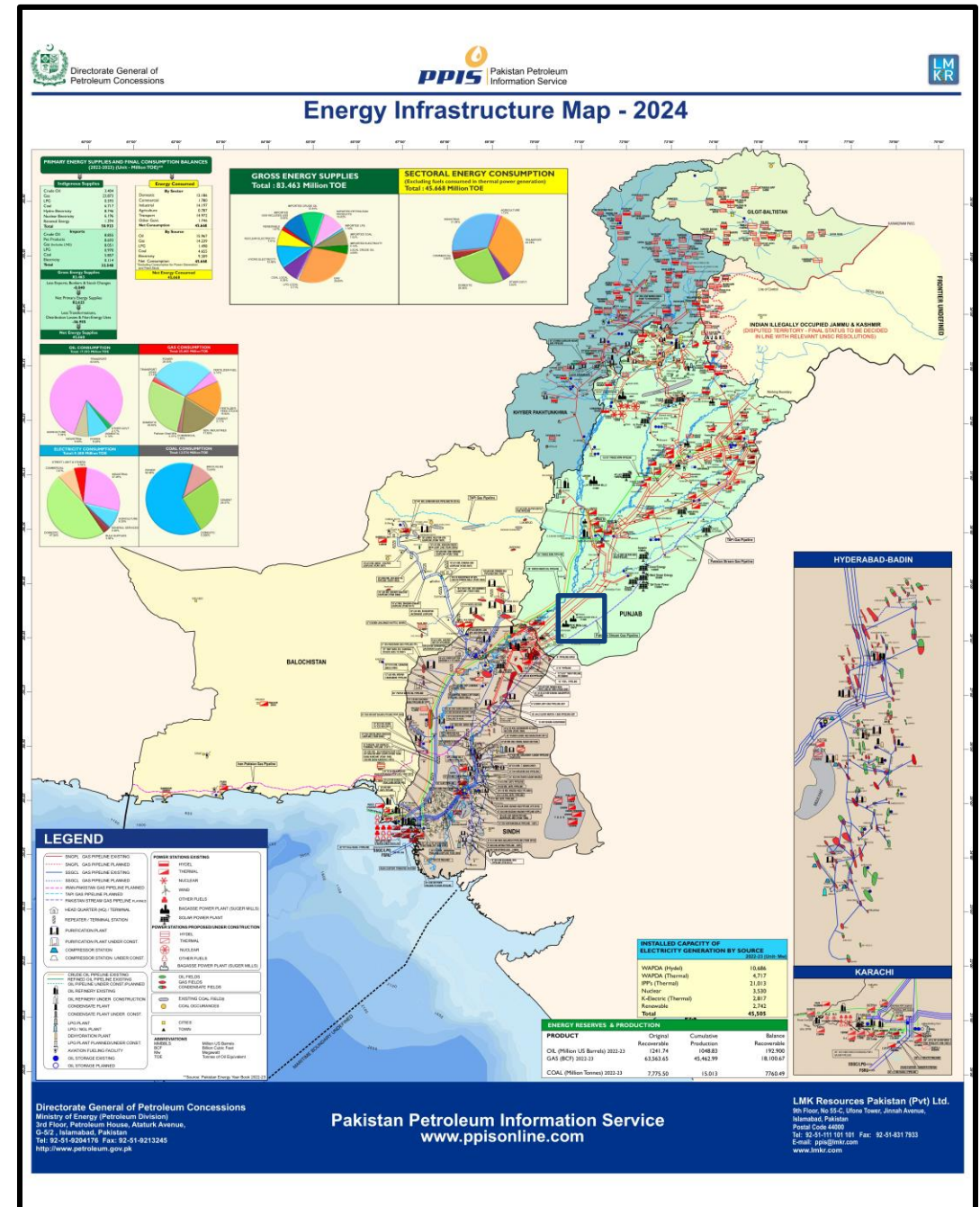
- Both structural and stratigraphic traps are present.

AGE	STRATIGRAPHY	LITHOLOGY	RESERVOIR POTENTIAL			OIL / GAS SHOWS	FIELDS	
			SOURCE	CAPROCK	RESERVOIR			
RECENT / PLIOCENE	ALLUVIUM / SIWALIKS							
E O C E N E	KIRTHAR FM.	DRAZINDA MB.		C				
		PIRKOH MB.			R			
		SIRKI MB.		C				
		HABIB RAHI MB.			R	*	Mari	
	LAKI FM.	GHAZIJ MB.		C				
		SUI MAIN LST. MB.			R	*	Kandhkot, Sui Qadirpur, Pirkoh	
P A L E O C E N E	DUNGHAN FM.		C		R	*	Zarghun	
	RANIKOT FM.		C			*	Pirkoh	
	PARH FM.				R			
U P P E R C R E T A C E O U S	UPPER GORU MB.							
		SHALE INTERVAL	S	C				
	LOWER GORU MB.	"D" INTERVAL			C			
		"C" INTERVAL	S	C	R	*	Sawan, Mari Latif	
		"B" INTERVAL	S	C	R	*	Miano, Rehmat, Kadanwari	
		"A" INTERVAL			R	*		
LOWER CRETACEOUS	SEMBAR		S					
JURASSIC	CHILTAN							



# Infrastructure Map

- Government support to companies for infrastructure development.
- Gas fields exist near the block.
- Thermal power stations exist near the block.



# Investment Benefits

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- Low risk, high reward.
- Largest gas discovery in the geographic province.
- Low cost on infrastructure development within limited timeframe.
- Return on Investment within 3 years.
- Attractive government policies for foreign investors.
- Excellent purchase rate set by the Government against the discovered commodity.
- Government will guarantee to buy the gas or oil discovered.
- Attractive price in case of tight gas discovery.

# Block Summary

Item	Indicators
Probable multiple sources in the region	Positive Indicator
Discoveries in Geographical Province	Positive Indicator
Nearby Infrastructure	Positive Indicator
ROI in 3 Years	Positive Indicator



# THANK YOU

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