



# PRABHA ENERGY PRIVATE LIMITED



Air & Gas Compression



Workover and Drilling Rigs



Integrated Services



Marginal Fields



Oil & Gas Exploration



CBM

# Prabha Energy Private Limited

## Company Overview



Prabha Energy Private Ltd.

- Prabha Energy Private Limited (“PEPL”) is a subsidiary company of Deep Industries Limited focusing on CBM Exploration & Production business
- PEPL has expertise in upstream, midstream and downstream activities relating to exploration and production of natural gas from Coal Bed Methane



# Prabha Energy Private Limited

## Mission & Vision

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Prabha Energy Private Ltd.

### Mission

- To achieve sustainable development and highly profitable growth by using superior and, advanced technology, capabilities and knowledge
- To deliver outstanding operating and financial results by efficiently building and managing a balanced portfolio of CBM and Oil & Gas properties with an assortment of growth opportunities covering a range of risks and rewards
- Build a work culture committed to effective management, improvement with time, and pure performance

### Vision

- To grow as a profitable upstream exploration and production company, focused on core areas in safe and environmentally acceptable norms and in a responsible manner for the long-term benefit of our shareholders and society
  - To develop and nurture a long-term strategic vision that drives company's growth and profitability, by continually innovating and improving our operational and organizational performance and aim to meet or exceed the success of our peers
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- Financial

Ensure long term growth for benefit of shareholders, customer and employees. Exceed customer's expectations in terms of product, service and quality

- Integrity & Honesty

Practice highest standards of ethics, honesty and personal integrity. Foster and maintain trust and confidence of our customers, employees and suppliers

- Respect for employees, customers & suppliers

Developed and motivated employees to meet the challenges ahead. Provide customers with unsurpassed value-added services. Demonstrate respect, understanding and sound business practices with customers and suppliers

- Health, Safety and Environment

Maintain high standards in Environment, Health and Safety. Be responsible for personal safety, employee's health, environment and company property

- Technical

Develop world-class industry professionals and technical solutions. Adopt latest technologies and implement best practices thus achieving world – class performance. Achieve competitive advantage based on continuously improving processes and finding innovative solution to the technical challenges in meeting the needs of our customers

# Prabha Energy Private Limited

## Experienced & Cohesive Manpower

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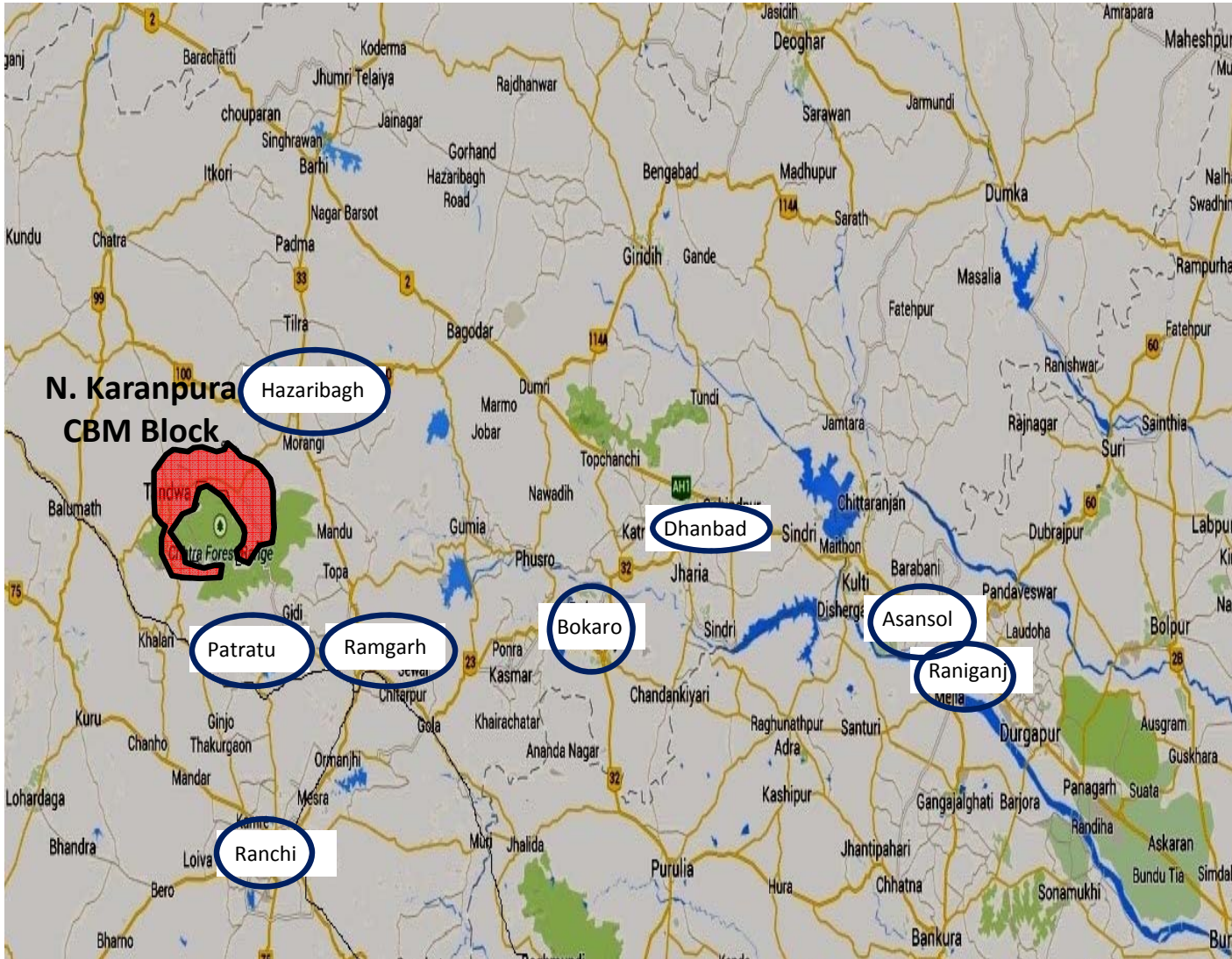
Prabha Energy Private Ltd.

- Well diversified group of geoscientists, explorationists, drilling and production engineers, financial and commercial professionals having a high level of qualifications and experience in the Oil & Gas and CBM E&P business
  - Exposure to different conventional and unconventional fields of USA, UK and Australia and participated in national and international forums on the subject, besides publishing technical articles in leading journals
  - PEPL's Multi Discipline Team (MDT) approach facilitates the use of resources in personnel, hardware / software and the right alliances to adopt best practices in Exploration & Development
  - PEPL has an infrastructure comprising of personnel and equipment of international standards
  - Team of professionals involved in the most significant oil & gas projects in India, and is highly regarded for their project management, time management and quality
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# North Karanpura CBM Block General Information



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Locality Name	Distance from block	Remarks
Ranchi (State Capital)	50 km	Nearest airport
Patratu	30 km	Nearest railway station
Hazaribagh	50 km	Nearest township
Ramgarh	50 km	Nearest industry township
Bokaro	140 km	Industry township
Dhanbad	170 km	Industry township

# North Karanpura CBM Block Block Information

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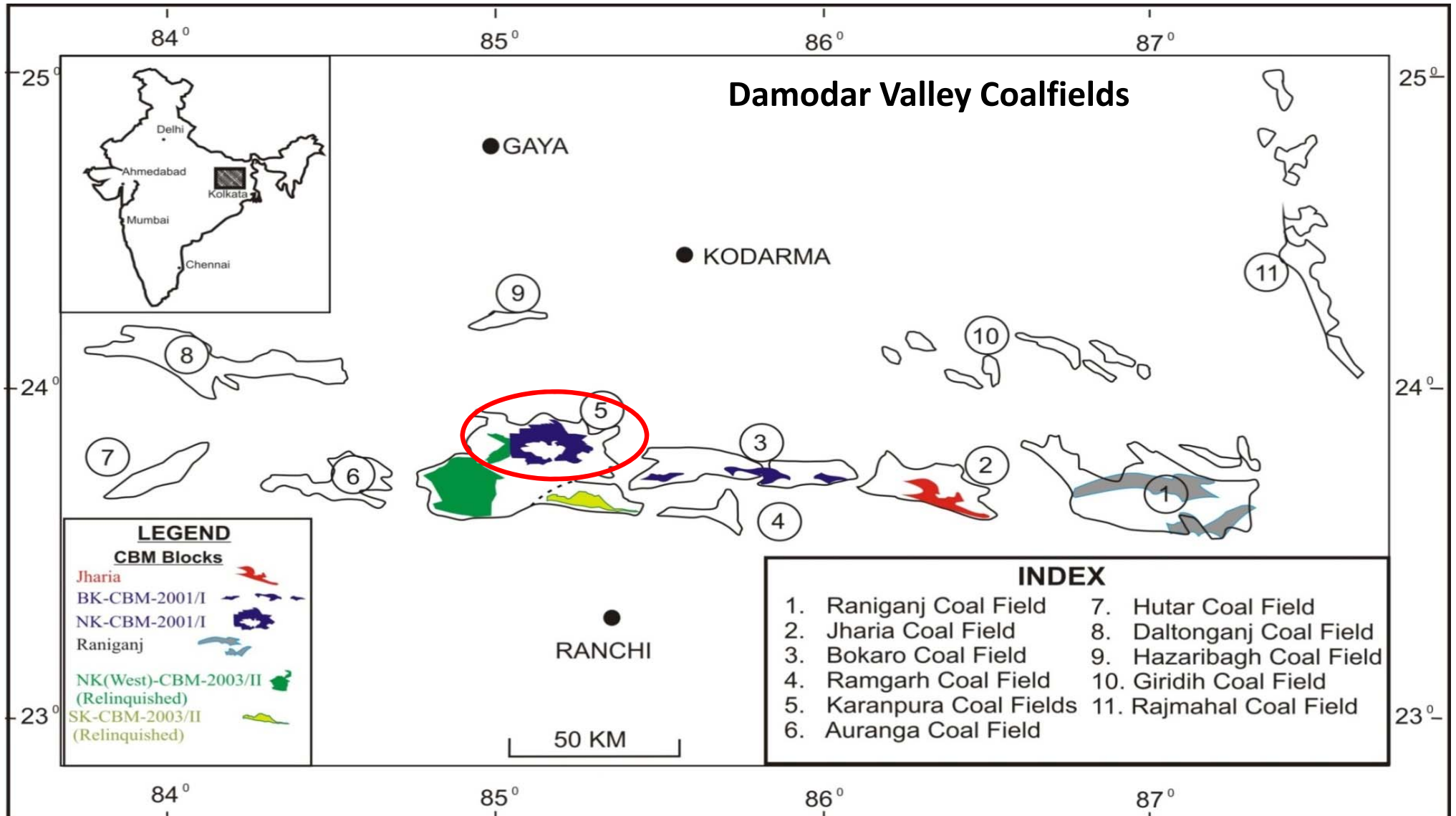
Block Name : NK-CBM-2001/I  
Coalfield : North Karanpura  
State : Jharkhand  
Consortium : ONGC-IOC-PEPL

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# North Karanpura CBM Block Location Map



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# North Karanpura CBM Block

## Geological Setting

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- North Karanpura coal field is the westernmost field in the Damodar valley coalfields which forms a horseshoe shaped configuration around Mahadeva hill
  - The North Karanpura basin is bounded by the Archean metamorphics of Ranchi plateau in the south and is delimited in the north by the shield of Hazaribagh plateau
  - The basin exhibits complete succession of Gondwana sediments starting from the Karharbari to Mahadeva formations, of which Raniganj, Barakar and Karharbari formations are coal bearing
  - The Mahadeva Formation occurs in the isolated hillocks in the central, western and south-western part of the basin
  - Talchir formation is quite thin and occurs in a discontinuous manner mostly along the fringe of the coalfield
  - Barakar Formation, which is the chief contributor of coal in the area, is exposed in about 45% of the basinal area
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# North Karanpura CBM Block

## Coal seams

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- The Barakar Formation contains a number of regionally persistent coal seams showing wide variation in thickness, quality and rank across the basin
  - Cumulative thickness of these coal seams is in the range of 30-90m and are prime targets for CBM development.
  - The seams are high volatile bituminous A to medium volatile bituminous in rank, good for CBM development. The gas content of the seams is variable, but increases with depth
  - The maximum vertical well depths are expected to be in the range of 1000 – 1200m
  - The formation pressure is expected to be hydrostatic, with a pressure gradient of 0.43 psi/ft. However, abnormal pressures might be encountered, though chances are remote
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- Highest priority given to Health, Safety and Environment to achieve the project objectives
- Safety given importance at the time of awarding contracts for services and strictly monitored as per the OMR guidelines
- It is ensured that the work environment and operations of the Company are free of occupational illness by controlling and minimizing occupational hazards
- Safety Code of practices for operations are set as per DGMS rules and followed strictly
- All risks reduced to a level, which is as low as reasonably practicable (ALARP)
- CSR would be done as per the standard practices following the new Companies Act, 2013



## Prabha Energy Private Limited

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