

7th Roundtable Conference on Coal

24.09.2019

New Delhi

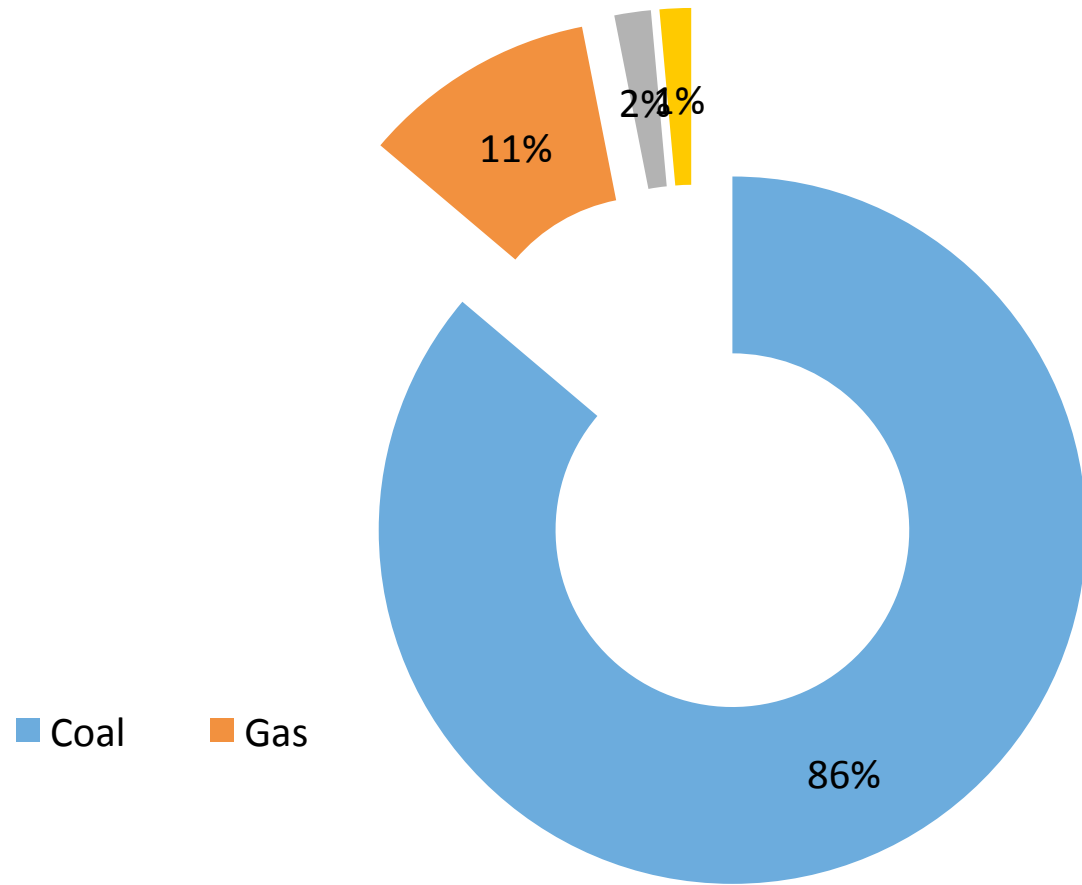


FOREWORD

- **NTPC caters to 1/4th of India's Power requirement**
- **10th largest power utility, Globally, in terms of capacity**
- **Currently operating 55 GW of capacity (48 GW Thermal)**
- **130 GW Capacity Target by 2032**
- **512 in Forbes Global 2000 list**
- **1 IPP in Platts Global Ranking 2018.**
- **Ranked 14th “ Great Place to Work ” in 2019**

- ❖ **Present installed capacity 55,786 MW**
 - including 7,801 MW through JVs/Subsidiaries
- ❖ **Comprising of 53 NTPC Stations**
 - 22 Coal based stations,
 - 7 combined cycle gas/liquid fuel based stations,
 - 2 Hydro based station,
 - 1 Wind based Station
- ❖ **10 Joint Venture stations**
 - 9 coal based
 - 1 gas based
- ❖ **11 renewable energy projects**
- ❖ **Target 130 GW by 2032** with diversified fuel mix

NTPC Capacity at a Glance



Fuel	Capacity (in MW)
Coal	48074 (31 Plants)
Gas	5984.31 (8 Plants)
RES	928 (11 Solar Projects)
Hydro	800 (1 Project)
Total	55786.31

Coal Sourcing(2018-19)

Station Capacity	47,414 MW
Coal Consumption	188.23 MMT
Coal receipt	176.74 MMT – ACQ 7.7 MMT – MOU 1.76 MMT– E-Auction 6.3 MMT – Captive Mine 1.16 MMT – Import Coal Total- 193.66
Coal Requirement at 85% PLF	229 MMT



NTPC Coal Mining Projects



Our Objectives

- ❖ **To have fuel Security**
- ❖ **To secure assured Quality and Quantity of coal supply**
- ❖ **To attain price competitiveness on the delivered coal**

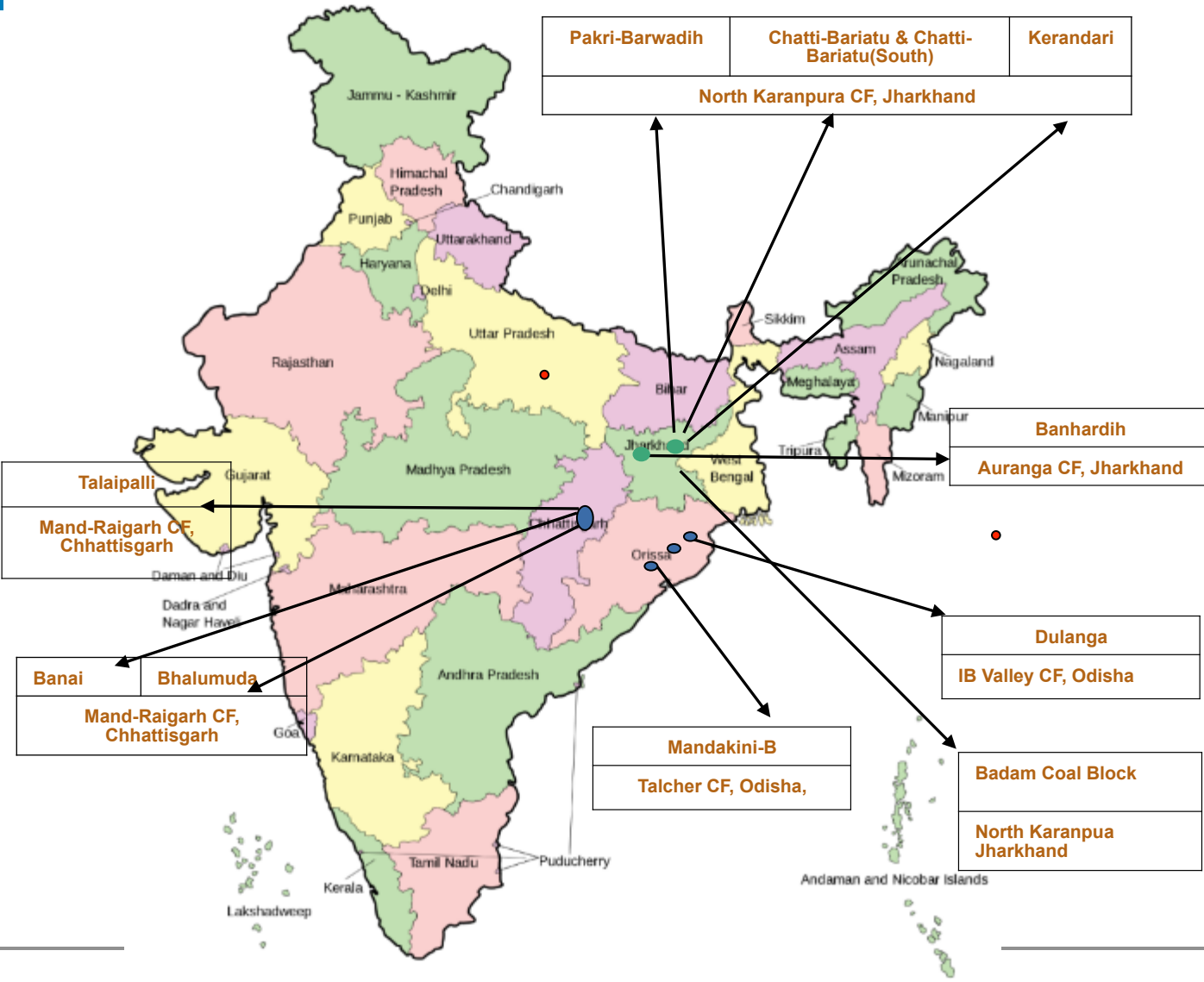
Foray into Coal Mining

- Re-allocation of Coal blocks to NTPC - 2015.
- Mining commenced in Pakri-Barwadih CMP – May,2016.
- Dulanga CMP operationalized –Feb,2018
- Functioning of “Coal Mining Head Quarters ,Ranchi” –Aug,2018.
- “NTPC Mining Ltd” a wholly owned subsidiary, launched in Aug,19
- Tallaipali (South) commencement scheduled in Nov’19
- Kerendari CMP scheduled in Nov’19(Limited Outsourcing)
- Tallaipali (W) & Chatti-Bariatu(S) scheduled in Dec,2019

NTPC's Coal Mining Projects

Sl	Name of Coal Blocks	Est. Mine Capacity (MTPA)	EUP (End use Plant)
1	Pakri-Barwadih	18	Basket mine
2	Chatti-Bariatu & Chatti-Bariatu (South)	7	Barh-II
3	Kerandari	6	Tanda-II
4	Dulanga	7	Darlipalli
5	Talaipalli	18	Lara
6	Banai	12	Barethi-I
7	Bhalumuda	11	Kudgi
8	Mandakini - B	20	Telengana
9	Banhardih (JV)	8	Patratu
10	Badam (JV)	3	Baruni-II
TOTAL		110	

Coal Based Plants	22 Nos
Coal Reserve	7.2 Billion Tonne
Estimated Coal Production	110 MT



Production Plan of Coal Mining Projects

Fig. in million tonnes

Name of block/Year	2019-20	2020-21	2021-22	2022-23	2030-31
Pakri-Barwadih	8.63	10.0	11.0	12.0	18.0
Dulanga	2.5	4.5	7.0	7.0	8.0
Talaipalli(South)	0.5	4.0	8.0	13.0	18.0
Kerendari	0.3	2.6	3.3	6.0	6.0
Chatti-Bariatu	-	1.0	3.0	5.0	7.0
Mandakini-B	-	0.5	2.0	4.0	20.0
Banai& Bhalumuda	-	-	-	-	12.0
Banhardih	-	-	-	-	8.0
Badam	-	-	-	-	3.0
Total	11.93*	22.6	34.3	47	100

- Renewable Energy
- Land Acquisition
- Coal Sourcing
- Environmental Compliances
 - Ash Utilization
- Market Share
- Regulatory Changes

Mining Risks



Our Challenges

Technological	Regional	Legal	Administrative
<ul style="list-style-type: none">• Steep Seam• Adverse stripping Ratio• Deep seated deposits• Partly explored block• Coal evacuation system• HEMM procurement• Faster ramp up	<ul style="list-style-type: none">• Thickly populated terrains• Dense Forest• Varied State R&R policies• Law & Order	<ul style="list-style-type: none">• Contract Labour Exemption• Compliant entity• Switch over to departmental mining	<ul style="list-style-type: none">• Formative Stage• Statutory framework• Sustainability• Securing brand image of NTPC with Coal Mining footprint

Our USPs

- Innovation & Excellence.
- Health & Safety
- Rigid Compliances
- Employee empowerment
- Unique work culture
- Flexible Role Orientation
- Integrity & Work ethics

Inductions on the anvil ..

Establishment	<ul style="list-style-type: none">• Widening Coal Organization Structure• Regional Head Quarters
Technology	<ul style="list-style-type: none">• Continuous Mining System• In-pit crushing & conveying• Electrical-Hybrid HEMM (High capacity Shovels & Dumpers)• Geo-fencing• Mine Automation
Environment	<ul style="list-style-type: none">• Water Positivity• Fly ash Utilization

Our partners..

- Thriveni Sainik Mining Ltd in Pakri Barwadih Project-18 MTY
- Sainik Mining Allied Services in Dulanga Project- 7 MTY
- Chatwal Infra Pvt Ltd in Tallaipali(South)-2 MTY

- Tecpro
- L&T

Thank You