



# NLC India Limited

*A "Navratna" – Government of India Enterprise*

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## Corporate Presentation

May 2023

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-  **1** Company Overview & Performance Highlights
-  **2** Financial & Operational Performance
-  **3** Market Opportunity
-  **4** Growth Plans
-  **5** Corporate Social Responsibility



# Company Overview & Performance Highlights



- ✓ A 'Navratna' CPSE incorporated in 1956. Under the administrative control of Ministry of Coal
- ✓ Paid up Equity Share Capital - Rs. 1,386.64 Crore (GoI holding - 79.20% as on 17.05.2023)
- ✓ Mining , Power Generation , Trading of Power and Consultancy Services
- ✓ Regional Presence to National Level Presence
- ✓ Advanced Technology
- ✓ Robust Financial Performance in Revenue, Profit and Net worth. Highest domestic credit rating . Consistent track record of Dividend.
- ✓ Skilled Manpower
- ✓ Present Composition of Board - Total 11 Directors (5 Functional Directors including CMD, 2 Government Nominee and 4 Independent Directors).\*

\* Govt. of India has sanctioned totally 16 Directors but present composition of the Board is 11. Ministry of Coal , the Administrative Ministry, has been appraised to fill up for one functional director and four independent directors.

# Board of Directors



**Shri M. Prasanna Kumar**  
Chairman and Managing Director

## Part-time Official Director



**Smt. Vismita Tej (IRS)**  
Additional Secretary,  
Ministry of Coal, GoI.



**Shri Ramesh Chand Meena (IAS)**  
Additional Chief Secretary to Govt. of  
Tamil Nadu, Energy Department

## Functional Directors



**Shri Mohan Reddy**  
Director - Planning & Projects



**Dr. Suresh Chandra Suman**  
Director - Mines  
Director / Finance ( Addl. Charge)



**Shri Samir Swarup**  
Director – Human Resource



**Shri M. Venkatachalam**  
Director – Power

## Independent Directors



**Shri Subrata Chaudhuri**  
Independent Director



**Shri Prakash Mishra**  
Independent Director



**Prof. Nivedita Srivastava**  
Independent Director



**Shri M.T.Ramesh**  
Independent Director

Note : Composition of the board as on 15.05.2023

# Vision , Mission and Core Values

## Vision

*To emerge as a leading Mining and Power Company, with social responsiveness accelerating Nation's growth*

### ESG Vision :

*To continue to be a socially responsive company.*

## Mission

- *Continue to develop and sustain expertise in Power and Mining with focus on growth and financial strength*
- *Be socially responsive, achieve sustainable development and be sensitive to emerging environmental issues*
- *Strive to achieve excellence in processes and practices*
- *To nurture talent, encourage innovation and foster collaborative culture*

### ESG Mission

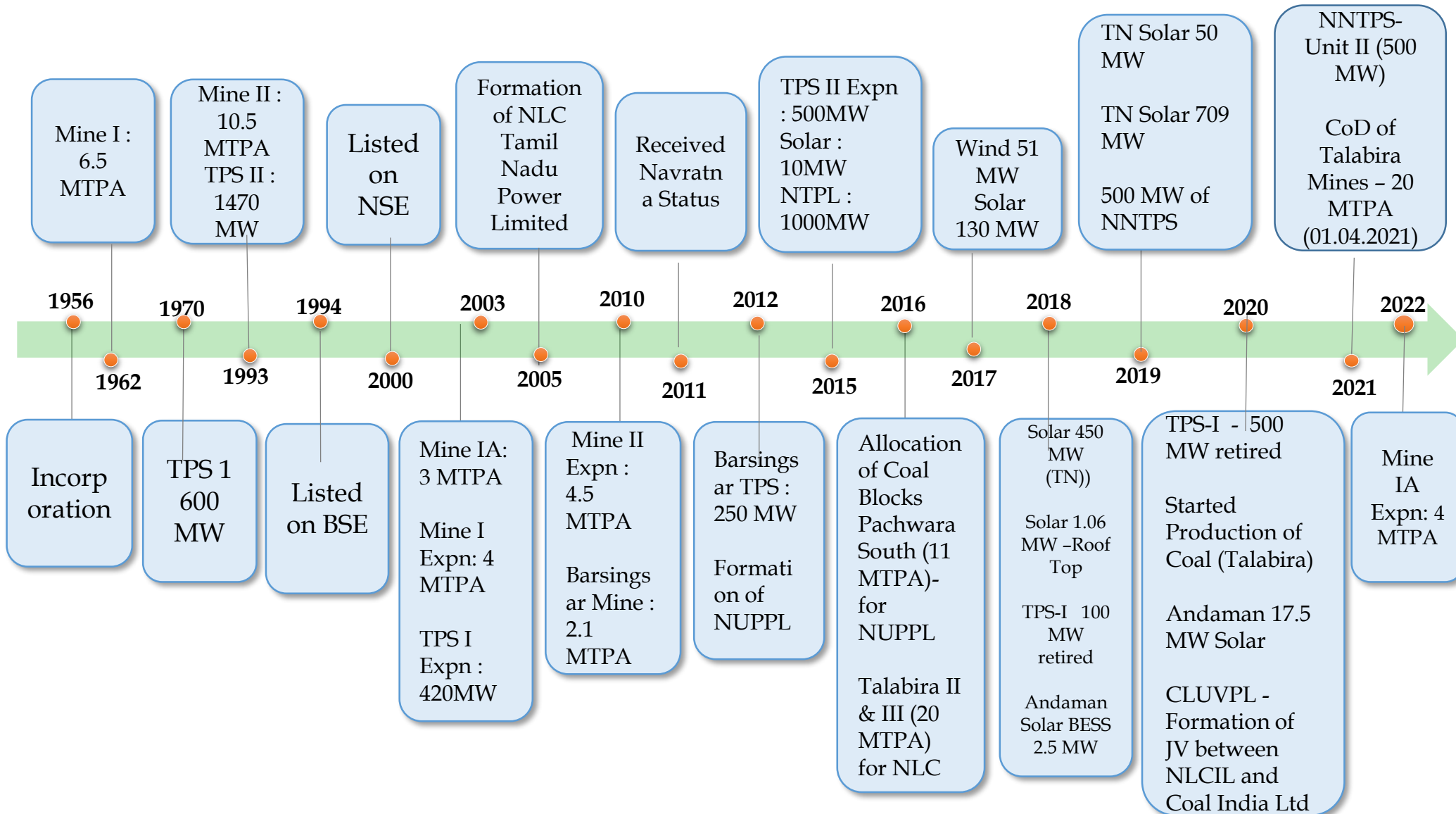
- *To play an active role in society and be sensitive to emerging environment issues.*

## Values

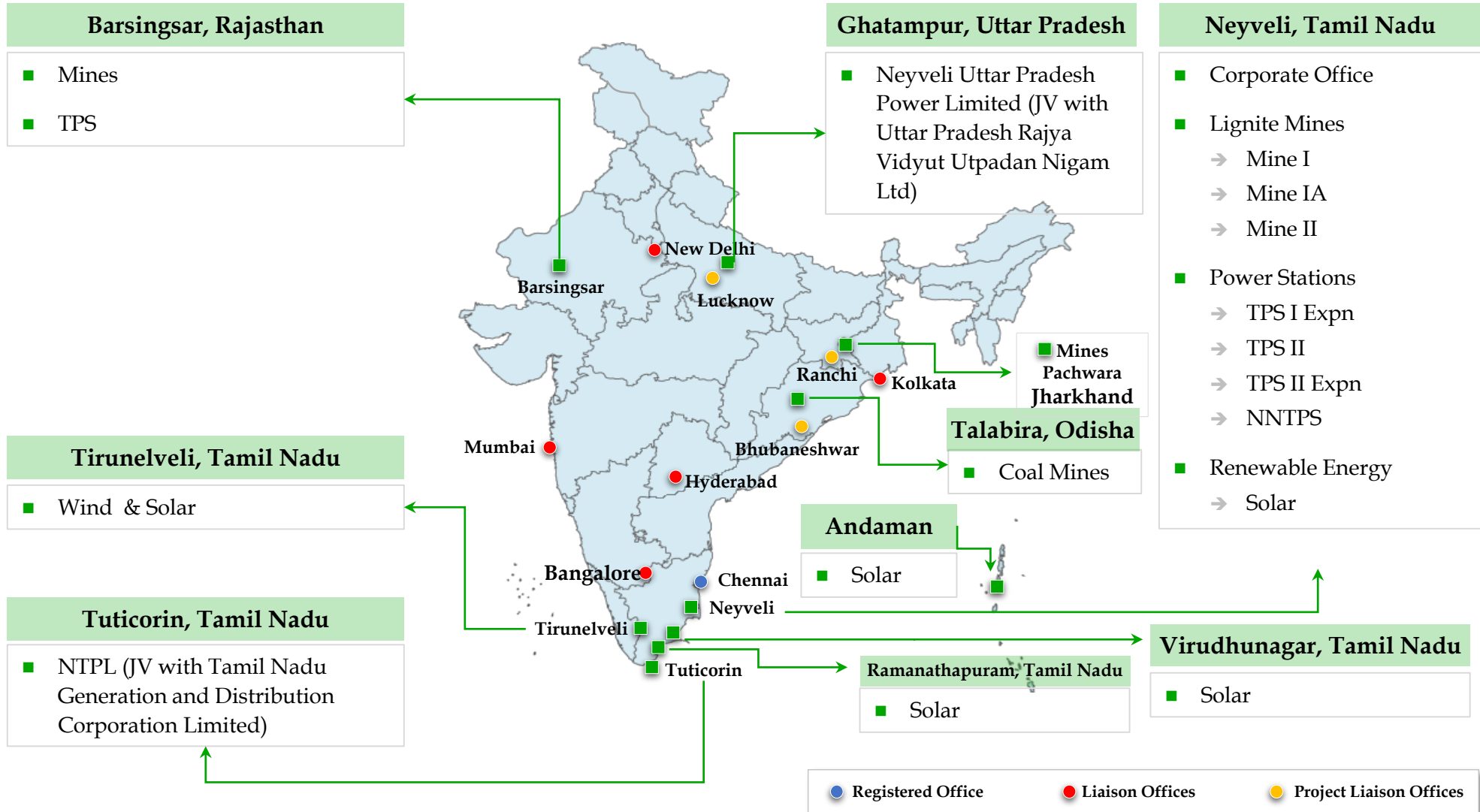
**N- National Orientation**  
**L - Learning , Development and Resilience**  
**C- Commitment to Excellence**  
**I - Innovation and Creativity**  
**L- Leadership and Loyalty**

**C- Customer Focus**  
**O- Organizational Pride and Growing Together**  
**M- Mutual Trust and Team Work**  
**M- Motivation**  
**I - Integrity, Accountability and Transparency**  
**T- Total Quality and Total Wellness**  
**S- Safety and Sustainability**







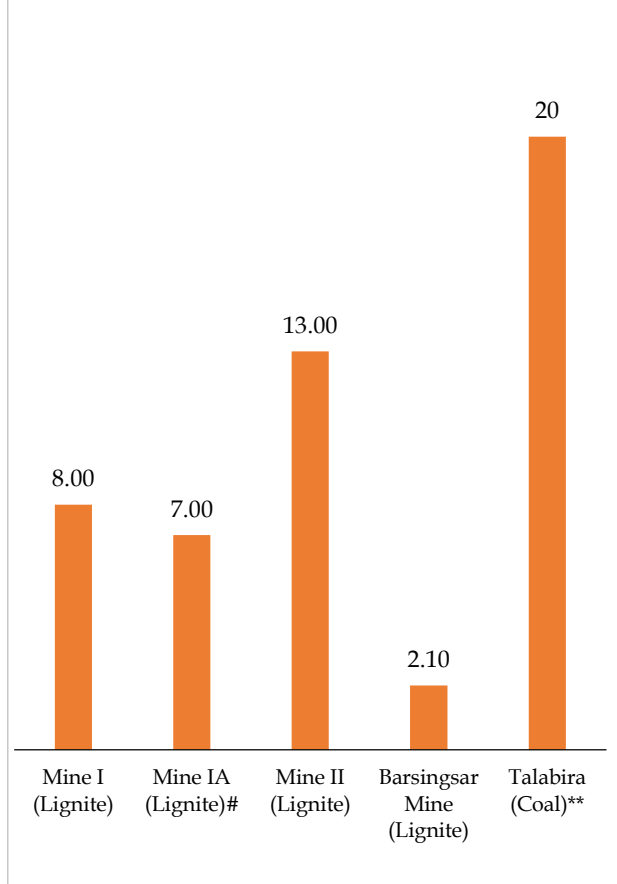


Note:- Map not to scale;

TPS = Thermal Power Station.

## Mining

**Total Mining Capacity - 50.10 MTPA\***

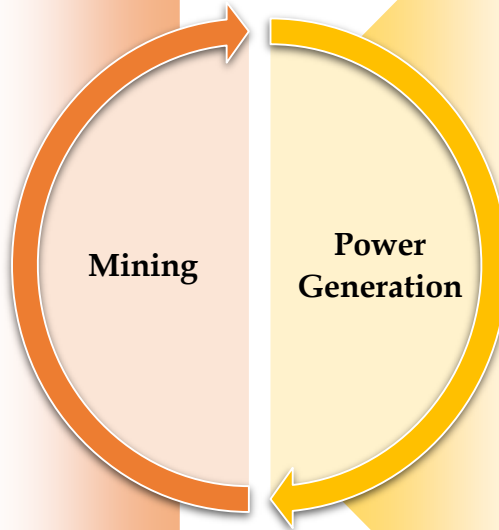
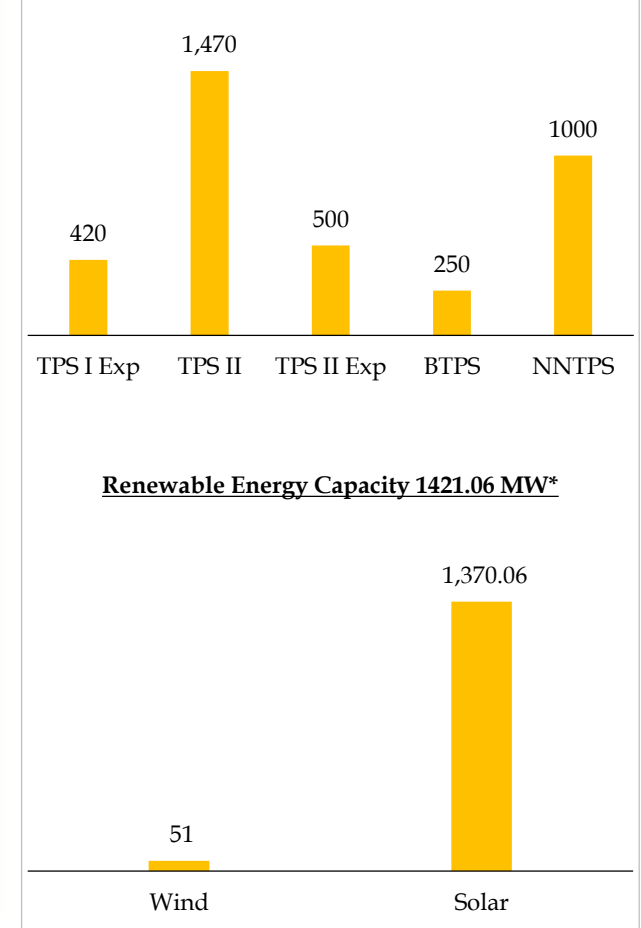


\*Existing Capacity as on 31.03.2023.

\*\* CoD of Talabira Coal Mines is on 01.04.2021 Achievement of Full Capacity expected by Jan 2027

## Power Generation

**Thermal Power Station - Capacity 3,640MW\***

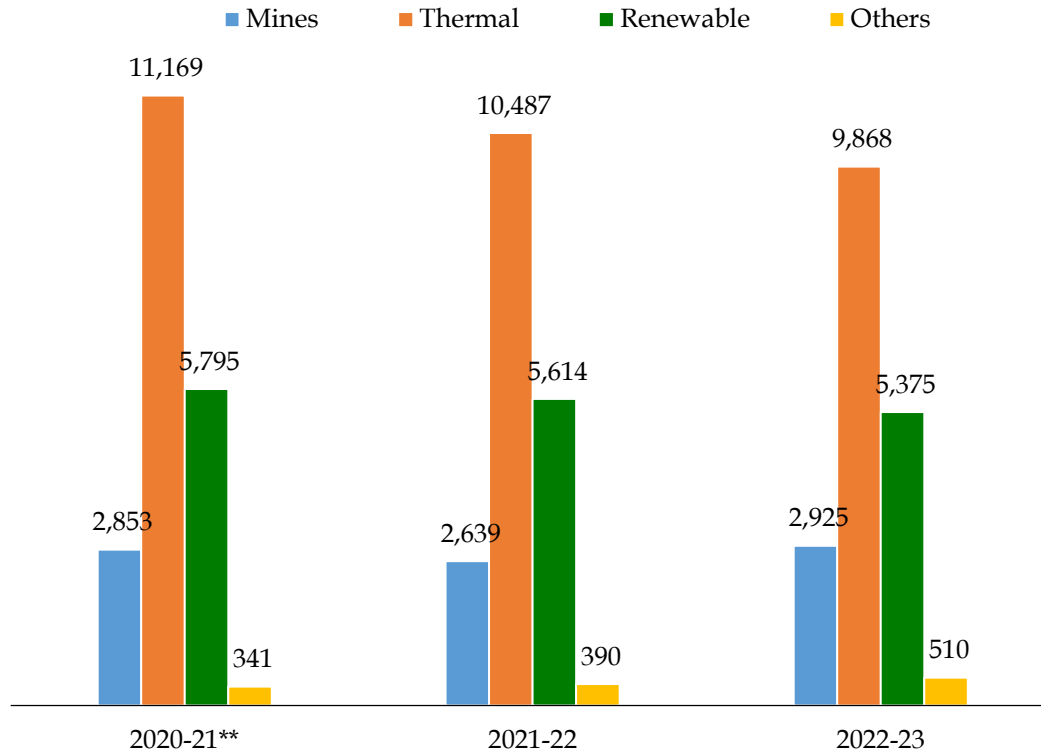


# CoD of Mine IA Exp is on 01.04.2022 and achievement of full capacity of 4 MTPA expected by 2028

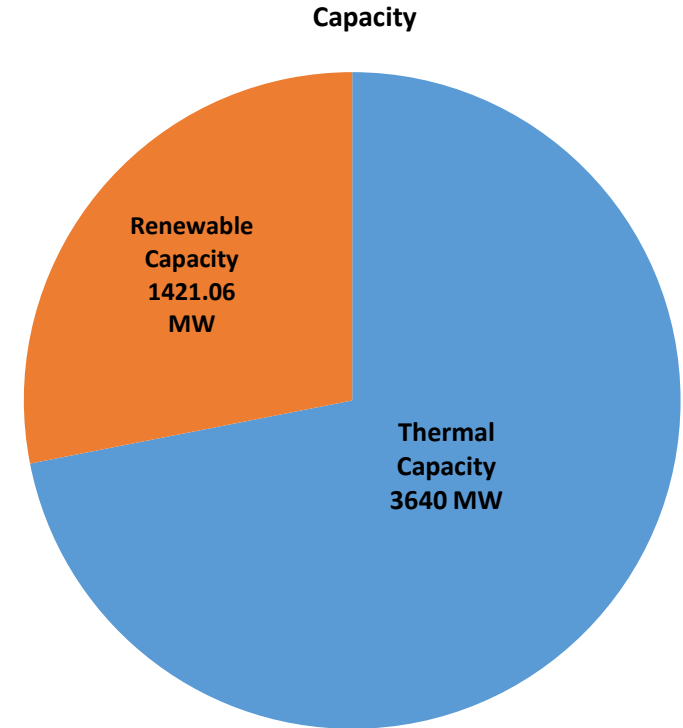
# Segment Investments & Green Portfolio

Net Book Value\*

Rs in Crore



Installed Generation Capacity#



\*Note : Source from NLCIL Financial Results / Annual Reports and figures representing NLCIL Standalone as on 31<sup>st</sup> March'2023

\*\* Restated

#As on 31.03.2023

## Expertise in Open Cast Mining & Power Generation

### Mining

- Vast experience in operation, maintenance and project management and consultancy in open- cast mining
- Asset bank of specialised mining equipments for open cast mining:
  - German excavation technology
  - 34 Numbers of Bucket Wheel Excavators
  - 5 Number of Reclaimers
  - Conveyor length -114.86 KMs

### Power Generation

- Experience in operating lignite based thermal power station and consultancy in Renewable power project.
- Average of all thermal PLF **68.86(%)** are running at higher PLF than All India average PLF (**64.15%**)
- NLCIL is the 1<sup>st</sup> Company to cross 1 GW of renewable energy, which is highest ever achieved by any CPSE.

## Lignite / Coal Resources for Captive Consumption

- Captive fuel source with power plants located at the pit heads of Lignite mines
- Greater flexibility in terms of adjusting the lignite production to adjust for variations in power demands and power generation at thermal power plants
- Out of total measured lignite reserves of 7374.10 Million Tonne in India as on 31.03.2022 Neyveli Lignite Field, Barsingsar, Bithnok and Hadla of NLCIL accounts for 5107.33 Million Tonne.
- Coal from Talabira is presently transferred /sold to NTPL, NTPC and Open sales
- Talabira Coal mines Production in FY 2022-23 is **10.03 MT**

## Lignite / Coal Mining of NLCIL

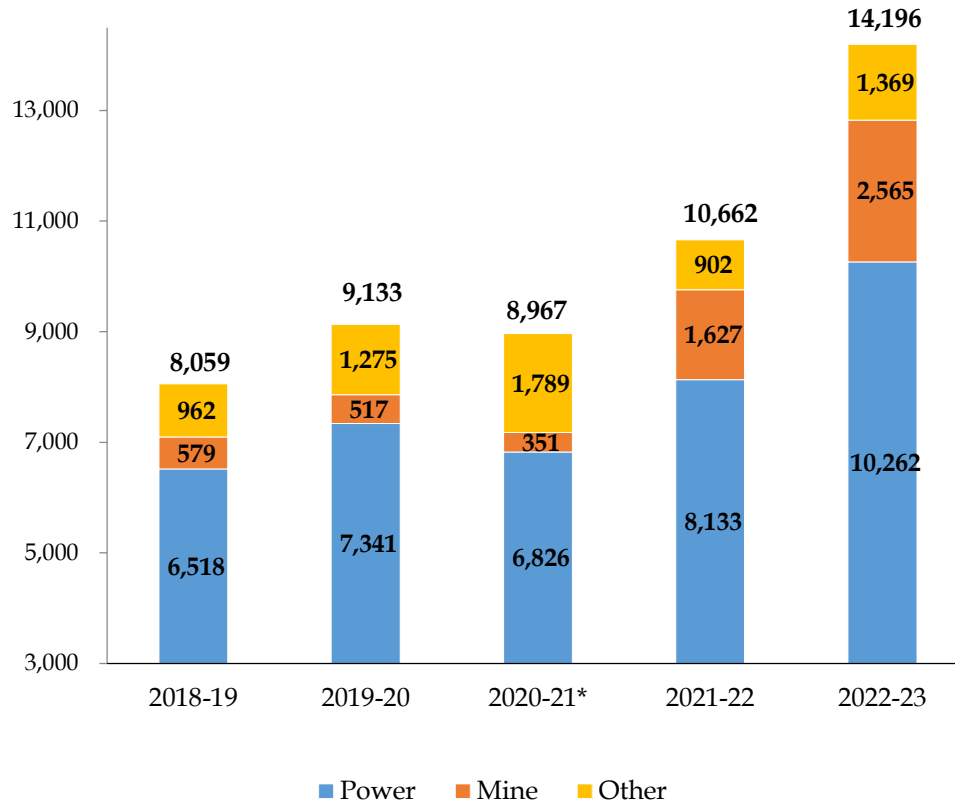
- All India Lignite production during 2022-23 is 42.48 Million Tonne. Out of the same NLCIL share is 23.53 Million Tonne, which is 55.39% as compared to 52.32% in FY 2021-22.
- Operating the Talabira Coal mine through MDO Mode with target of attaining full rated capacity by 2027-28



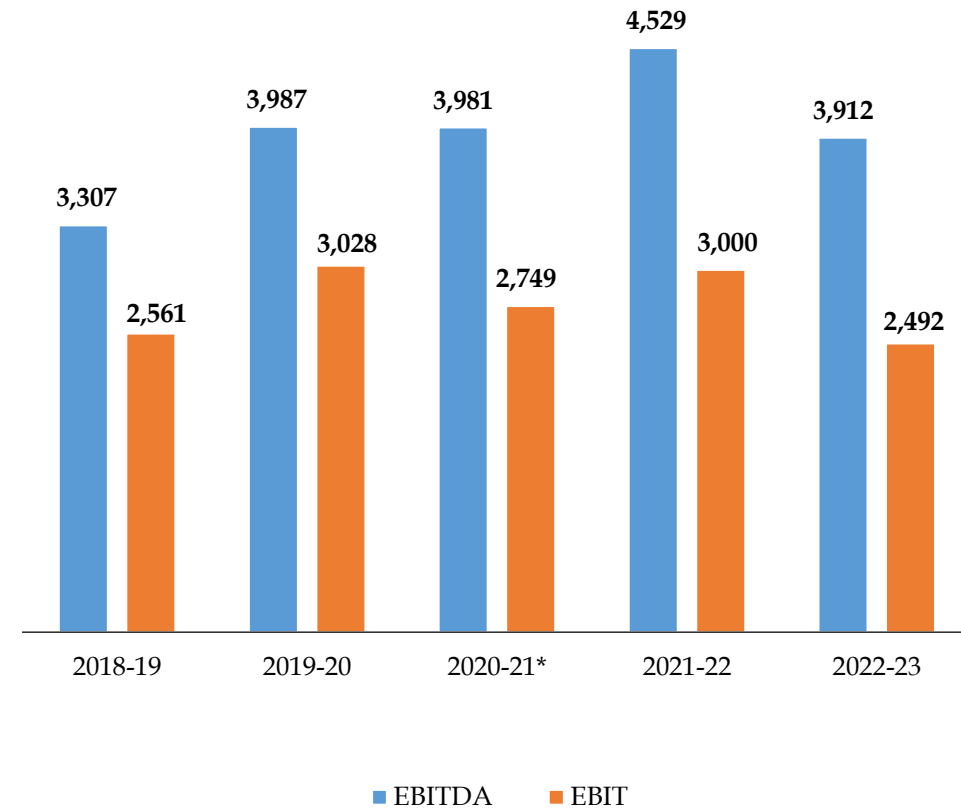
2

# Financial & Operational Performance

## Total Income (Rs in Crore)



## EBITDA & EBIT^ (Rs in Crore)

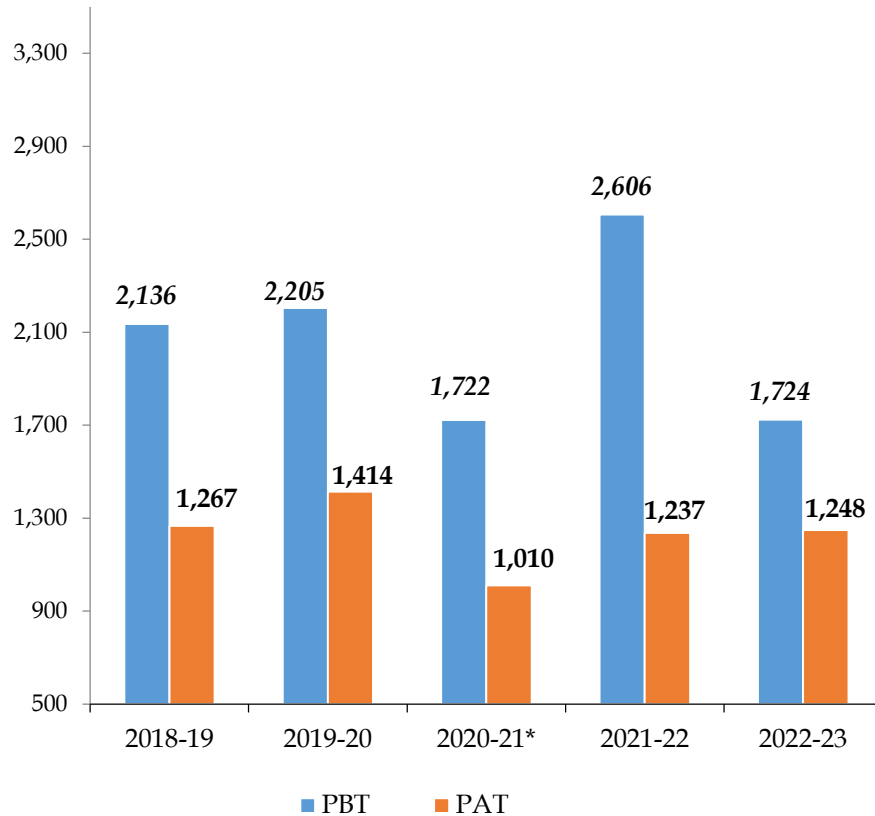


\* Restated 2020-21

^ EBITDA, EBIT computed considering Net Movement in Regulatory Expenses / Income and without considering Exceptional Item.

Note : Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone;

## # PBT & PAT (Rs in Crore)



## Key Financial Ratios

	2018-19	2019-20*	2020-21*	2021-22	2022-23
OPM^ (%)	20.58	22.90	13.65	21.66	11.73
NPM (%)	15.72	15.48	13.78	12.47	11.71
ROCE (%)	4.58	4.59	9.10	11.29	9.27
RONW (%)	10.22	11.85	7.86	9.03	8.53
Current Ratio	1.12	1.22	1.23	1.64	1.85
Quick Ratio	0.94	1.06	1.06	1.38	1.67

\* Restated financials as at 01.04.2020 and FY 2020-21

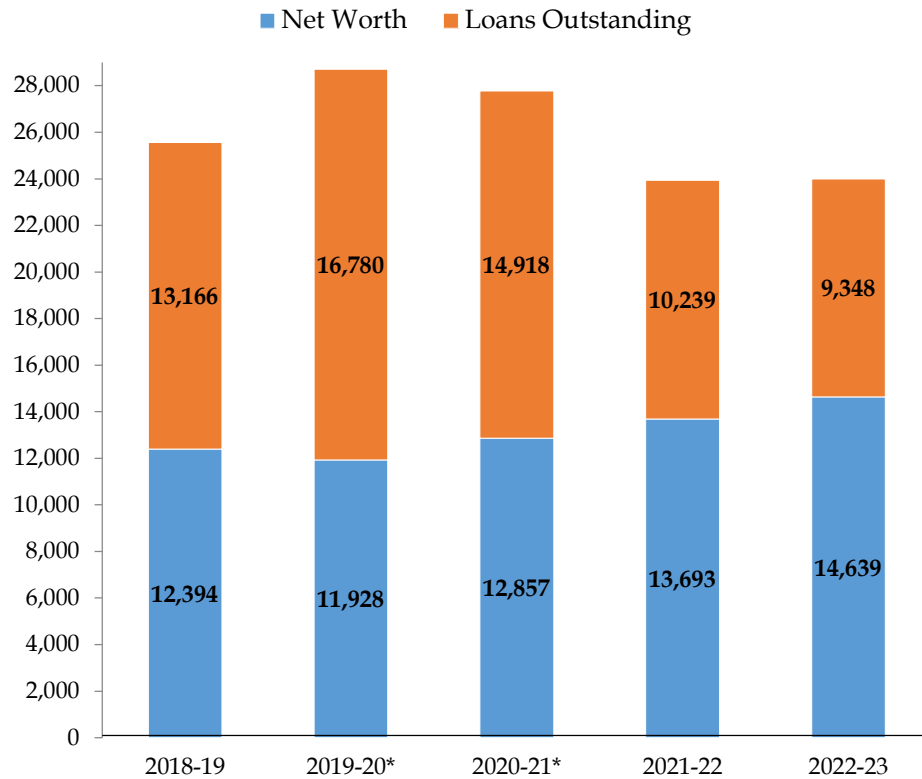
^ OPM computed considering Net Movement in Regulatory Expenses/Income and without considering Exceptional Item.

# PBT considering Net Movement in Regulatory Deferral Income/Expenses. ROCE is EBIT without Exceptional/ Capital Employed

Note : Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone;



## Networth & Loans Outstanding (Rs in Crore)



## Credit Ratings (Long Term Borrowings)

Agency	Rating
CRISIL	AAA/Stable
ICRA	AAA/Stable
CARE	AAA/Stable
Infomercials	AAA/Stable
India Rating	AAA/Stable

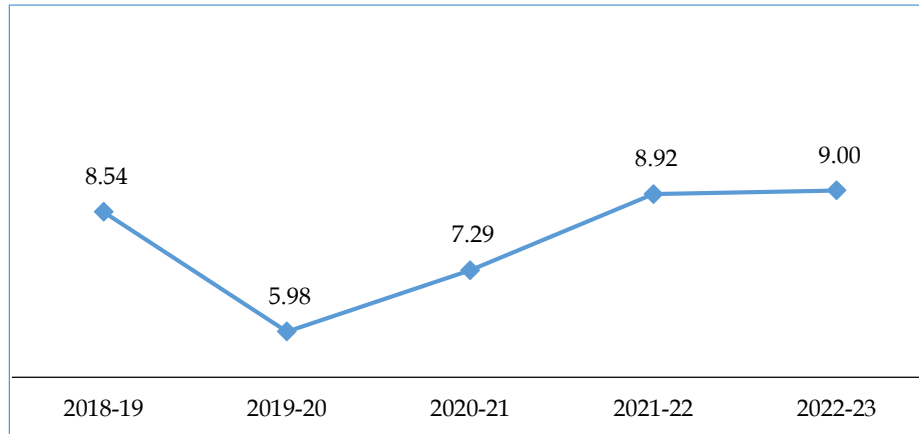
## Credit Ratings ( Commercial Paper)

Agency	Rating
CARE	A 1+
India Rating	A 1+

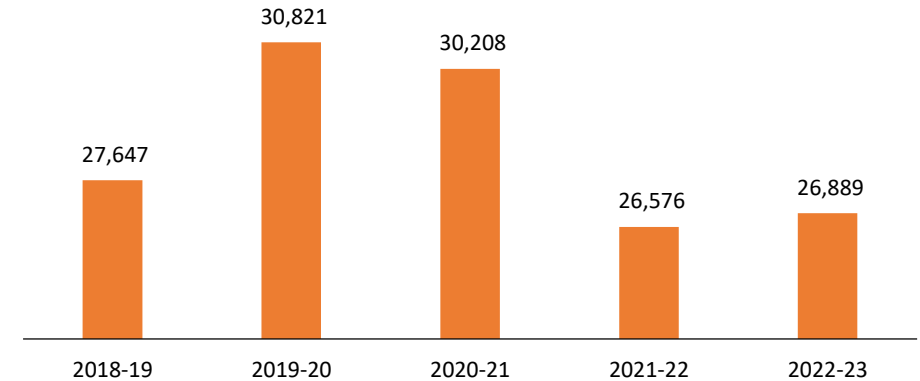
Note : Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone as on 31<sup>st</sup> March'2023

\* Restated financials as at 01.04.2020 and FY 2020-21

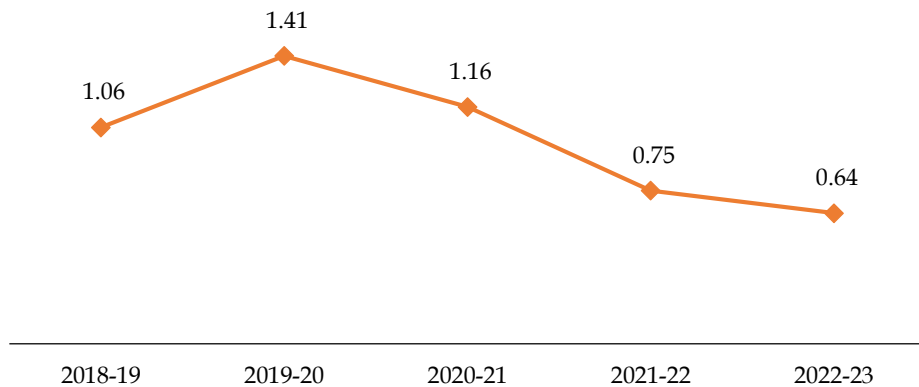
## Earnings Per Share\* (Rs.)



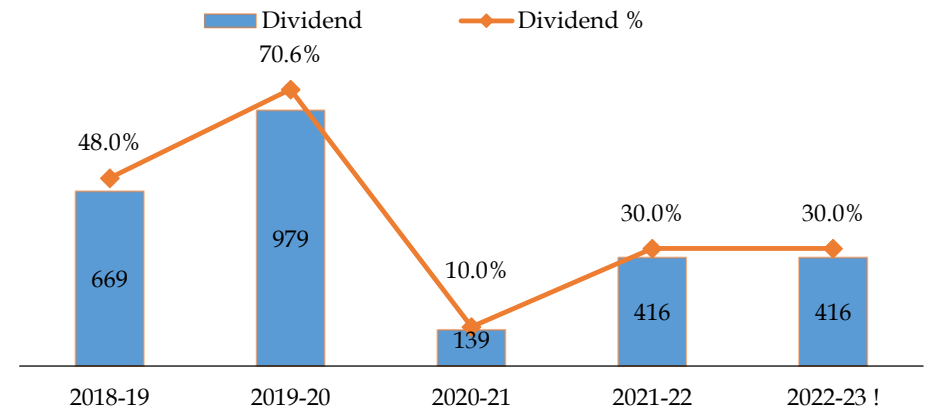
## #Capital Employed\* (Rs in Crore)



## Debt-Equity ratio\*



## ^Dividend Trend (Rs in Crore)



\*Restated FY : 2020-21

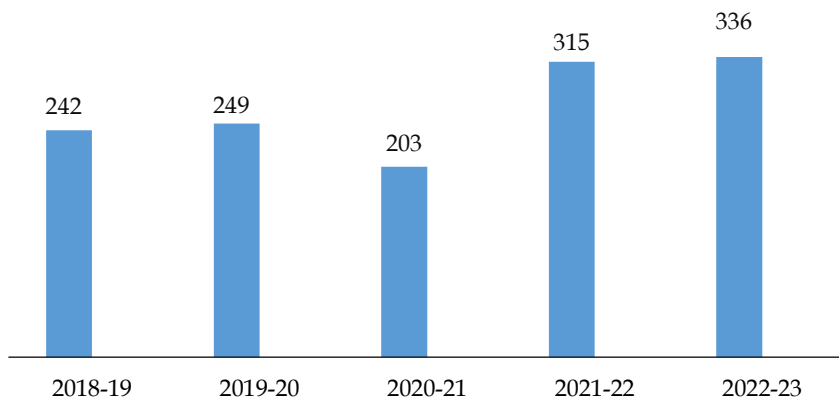
# Capital employed is tangible net worth plus outstanding borrowings and DTL less Intangible Assets

Note : Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone

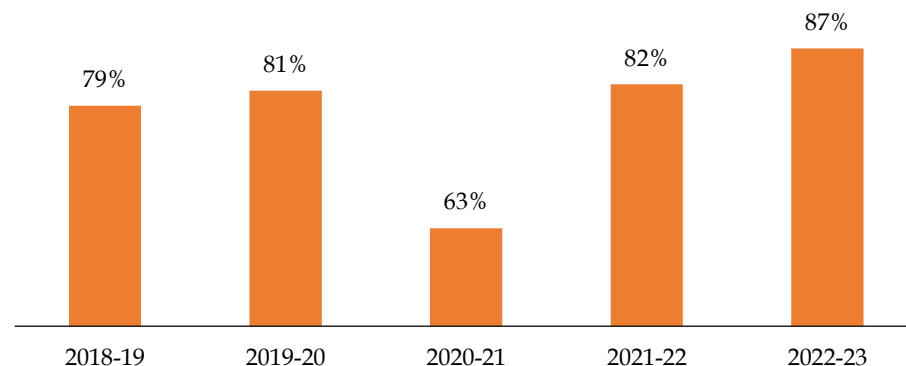
^ Dividend is on Payment basis

! Final Dividend @20% for FY 2022-23 recommended, subject to approval of shareholders

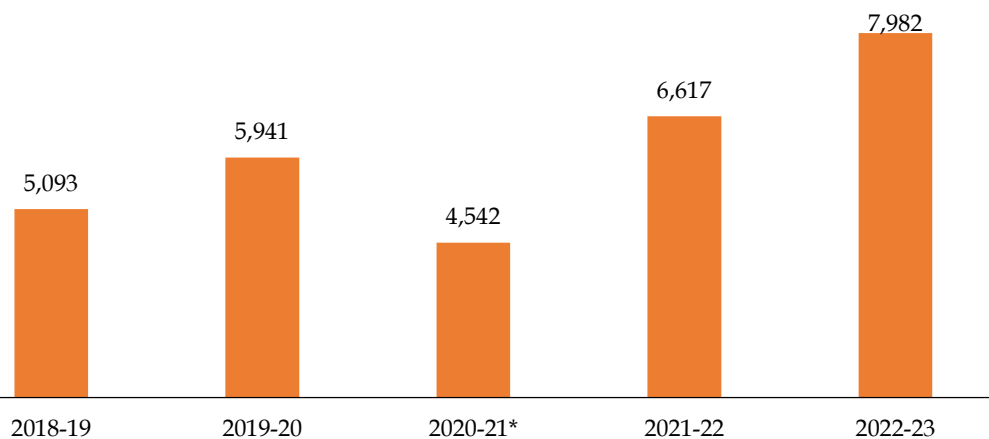
## Lignite & Coal Production (LT)\*\*



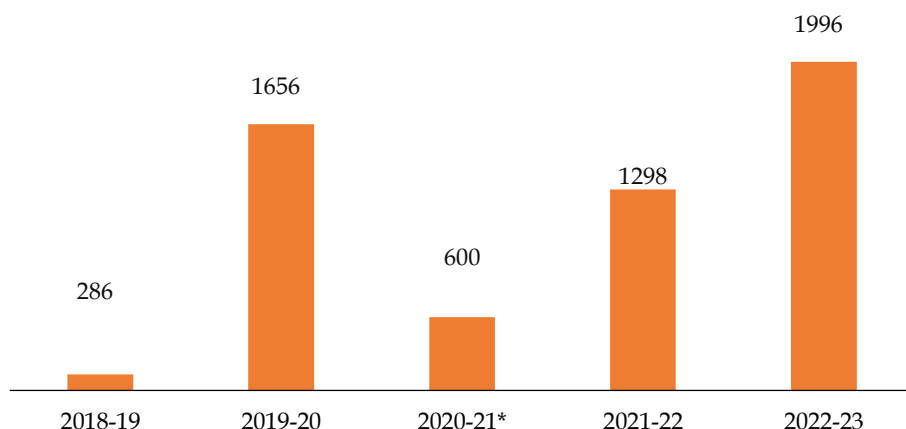
## #Capacity Utilization (%)



## Revenue (Rs in Crore)

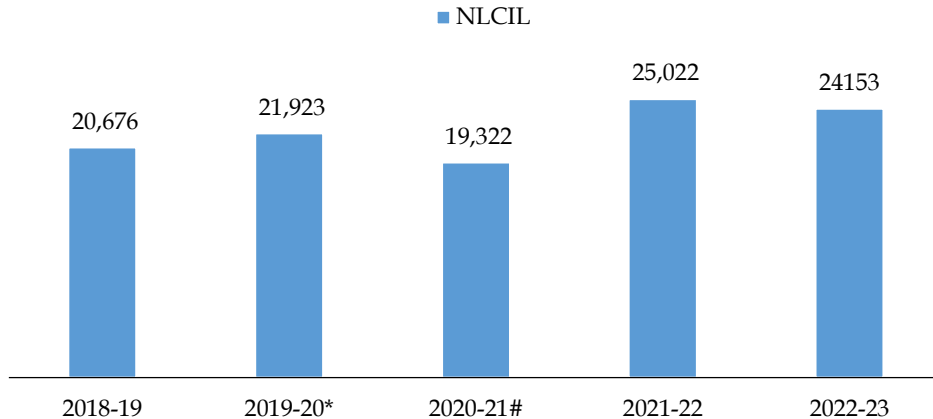


## Segment Results (Rs in Crore)

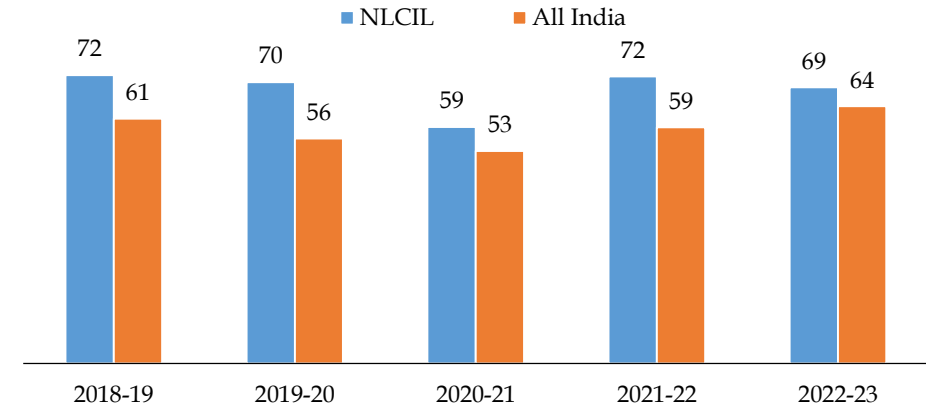


\*Restated financials as at 01.04.2020 and FY 2020-21 # Capacity utilisation for Lignite mines \*\* includes coal production of 10.13 LT in FY:2020-21, 63.58 LT in FY:2021-22 & 100.26 LT in FY22-23  
 Note : Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone financial statements

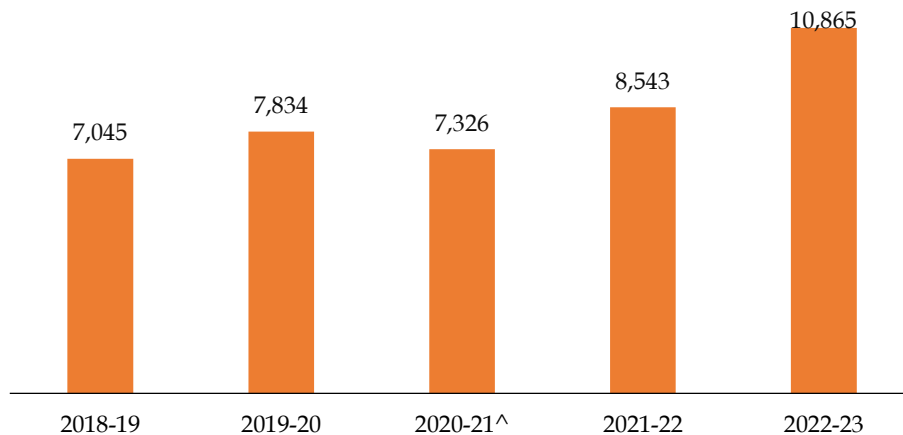
## Power Generation (MU)



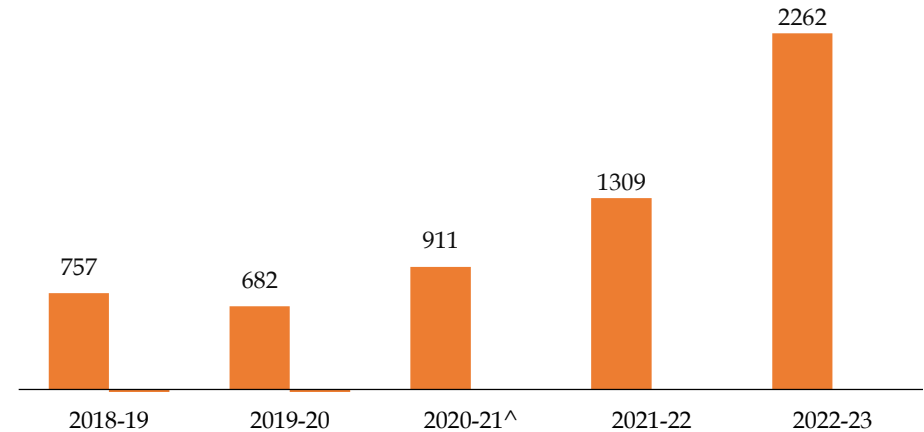
## PLF (%) Comparison - Thermal



## Revenue from Operations (Rs in Crore)



## Segment Results (Rs in Crore)



\* Includes infirm power of NNTPS Unit-I and 709 MW Solar

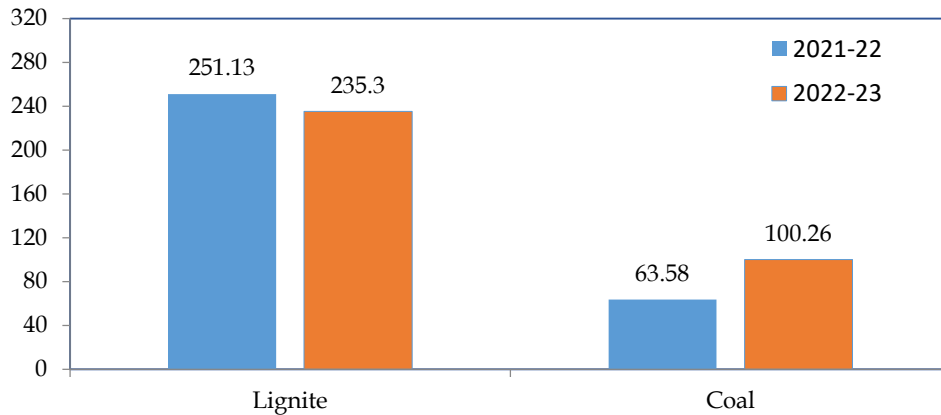
#Includes infirm power of NNTPS Unit II

Source: Standalone Financial Results FY 2022-23

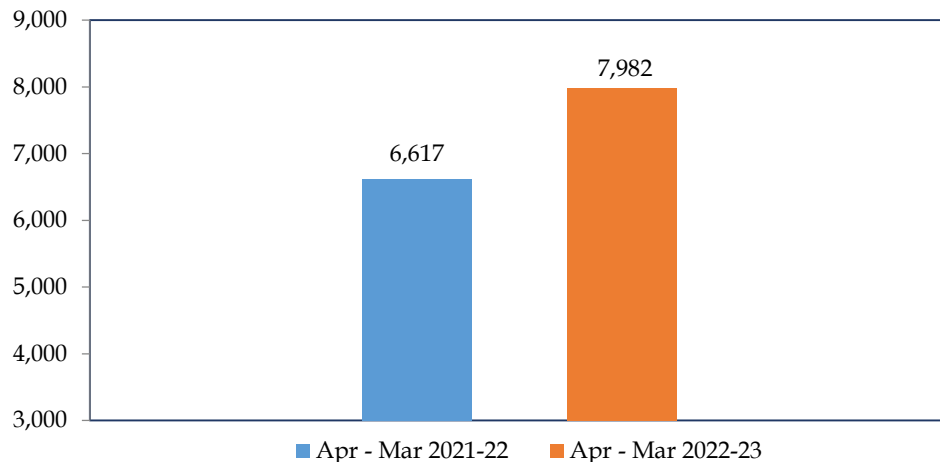
^ Restated FY:2020-21

## Mining

### Lignite and Coal Production (LT)



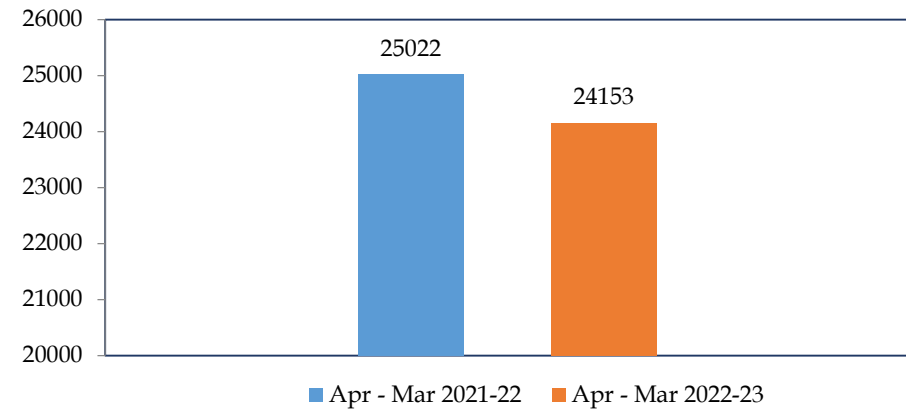
### Revenue (Rs in Crore)



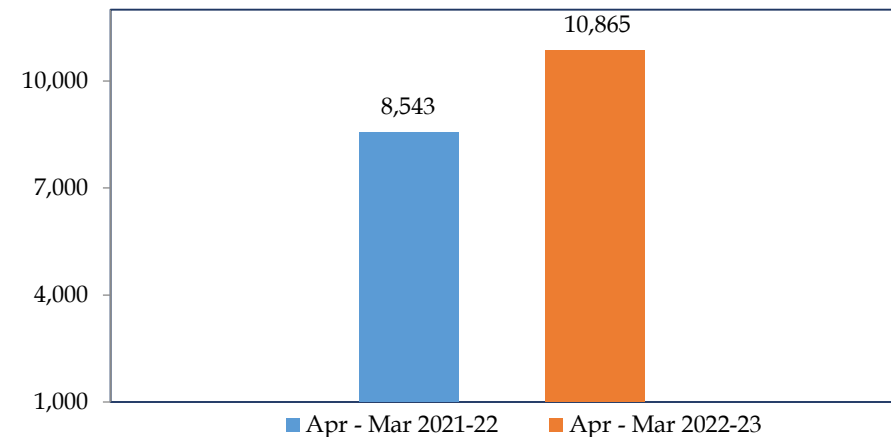
Source: Quarterly financial results

## Power

### Power Generation (MU)

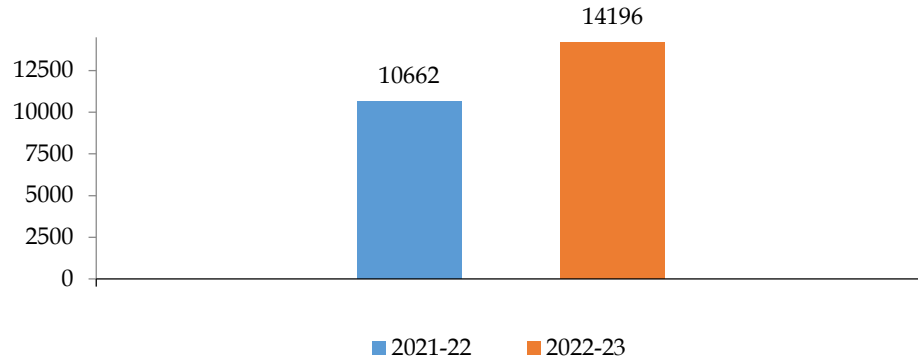


### Revenue (Rs in Crore)

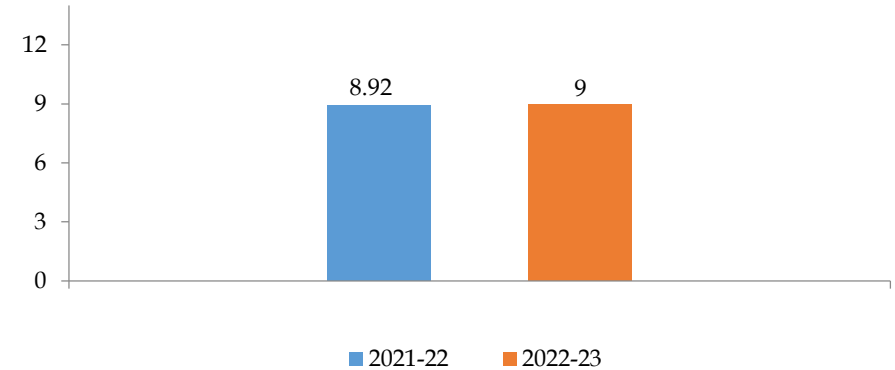


# Standalone Performance - (2021-22 Vs. 2022-23)

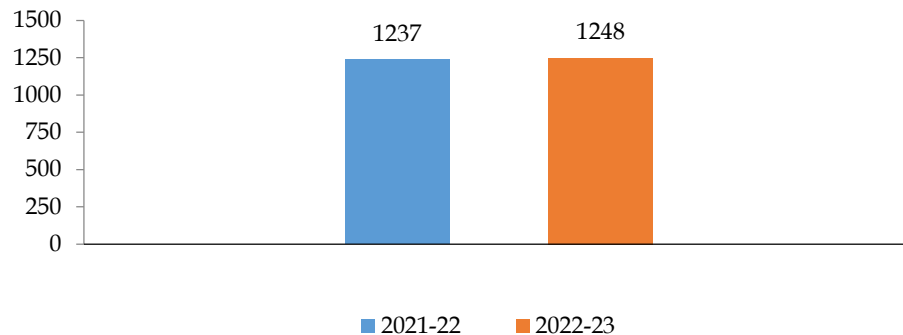
## Total Income (Rs in Crore)



## Earning Per Share (Rs.)- EPS



## Profit After Tax (Rs in Crore)



## Income Statement (Rs in Crore)

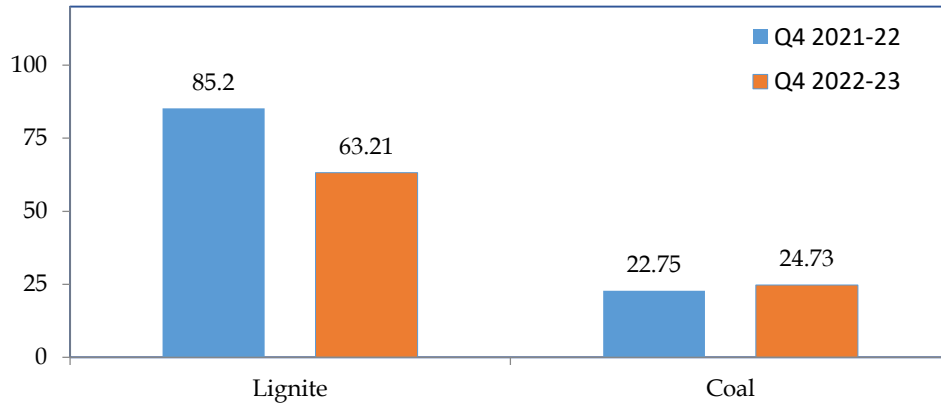
Particulars	FY 20-21	FY 21-22	FY 22-23
Total Income	8,967	10,662	14,196
EBITDA *	3,981	4,529	3,912
EBITDA Margin (%)	44.40%	42.47%	27.56%
PAT	1,010	1,237	1,248
PAT Margin (%)	11.27%	11.60%	8.79%

Source: Quarterly financial results

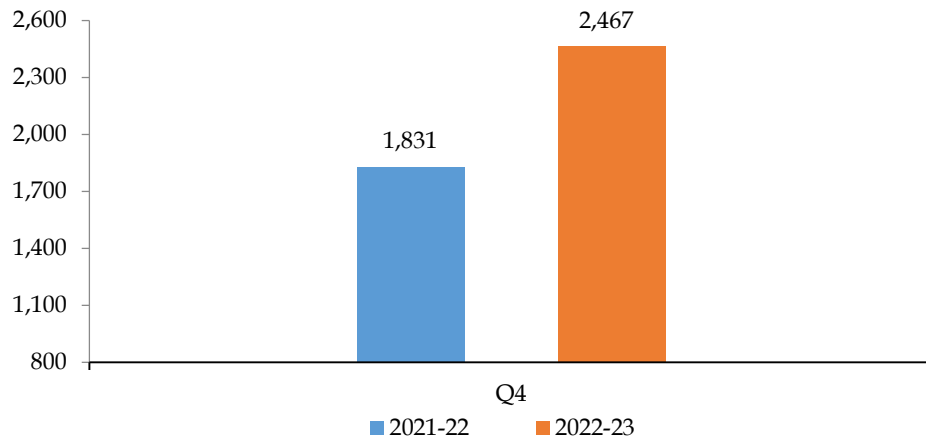
\* EBITDA computed considering Net Movement in Regulatory Expenses/Income and without considering Exceptional Item.

## Mining

### Lignite and Coal Production (LT)

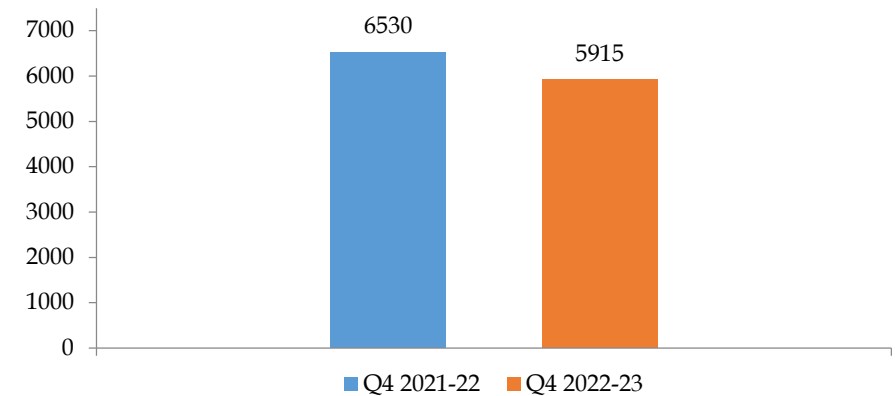


### Revenue (Rs in Crore)

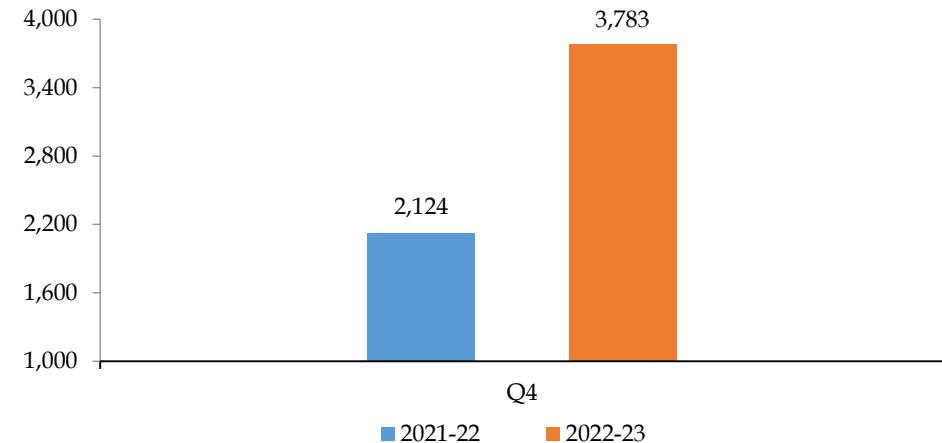


## Power

### Power Generation (MU)



### Revenue (Rs in Crore)

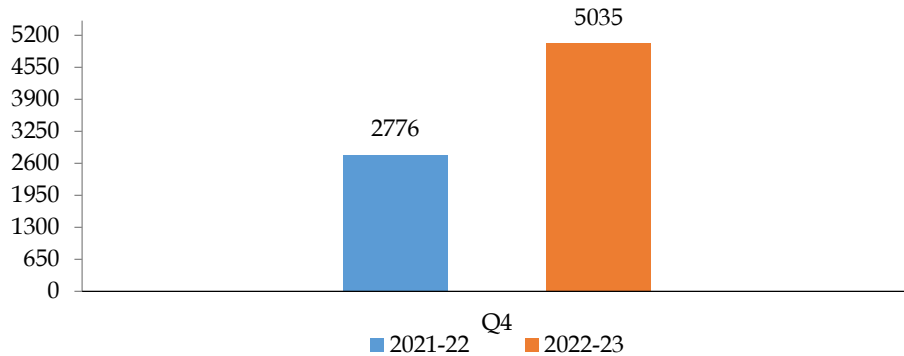


Source: Quarterly financial results

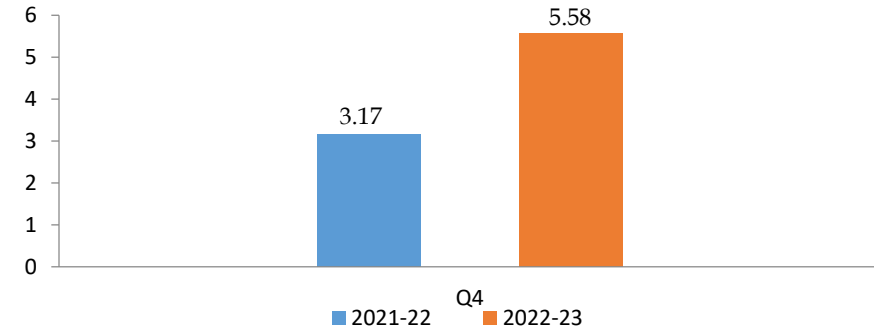


# Quarter 4 Standalone Performance - (2021-22 Vs. 2022-23)

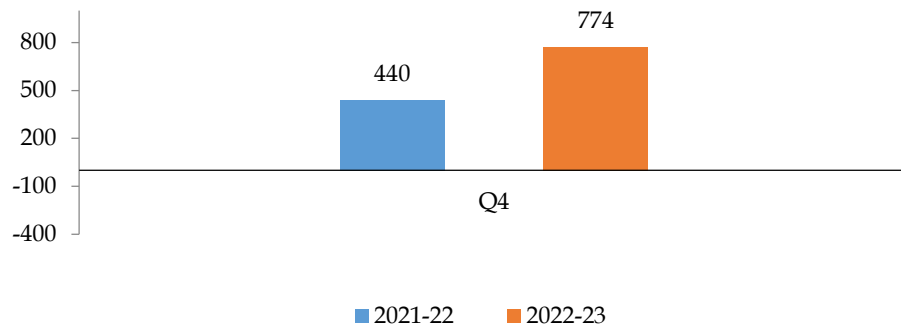
## Total Income (Rs in Crore)



## Earning Per Share (Rs.)- EPS



## Profit After Tax (Rs in Crore)



## Quarterly Income Statement (Rs in Crore)

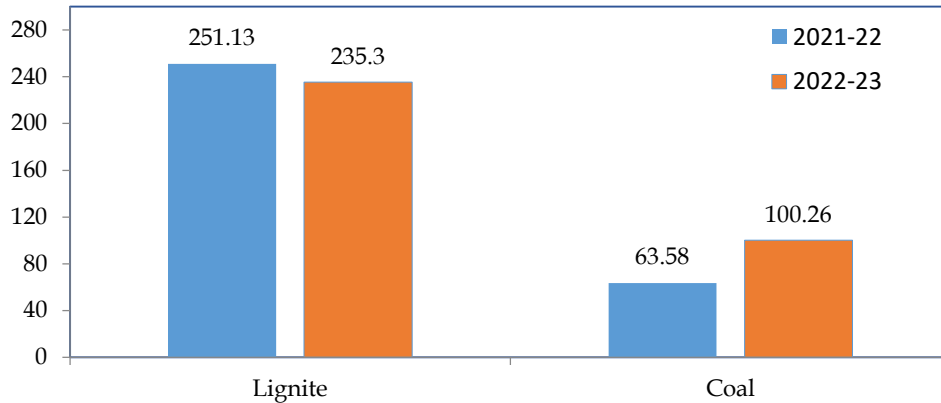
Particulars	Jun-22	Sep-22	Dec 22	Mar 23
Total Income	3176.54	2821.14	3163.11	5,035.11
EBITDA *	1270.21	1126.93	(185.42)	1,700.08
EBITDA Margin (%)	39.99%	39.95%	(5.86)%	33.76%
PAT	506.08	367.21	(398.84)	773.80
PAT Margin (%)	15.93%	13.02%	(12.61)%	15.37%

Source: Quarterly financial results

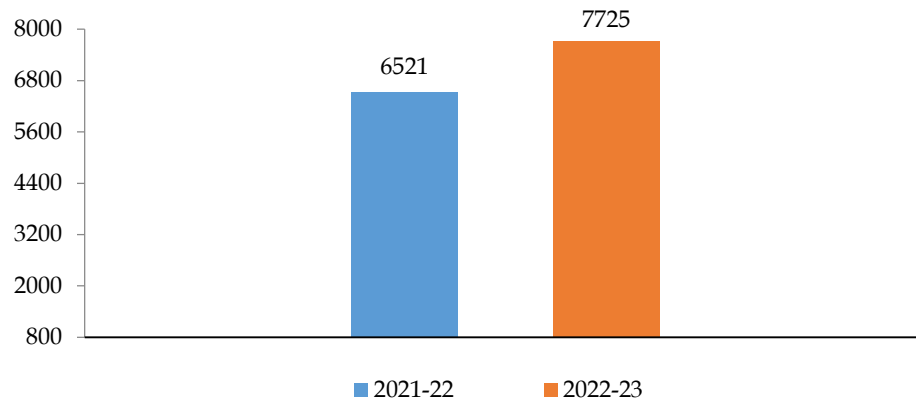
\* EBITDA computed considering Net Movement in Regulatory Expenses/Income and without considering Exceptional Item.

## Mining

### Lignite and Coal Production (LT)

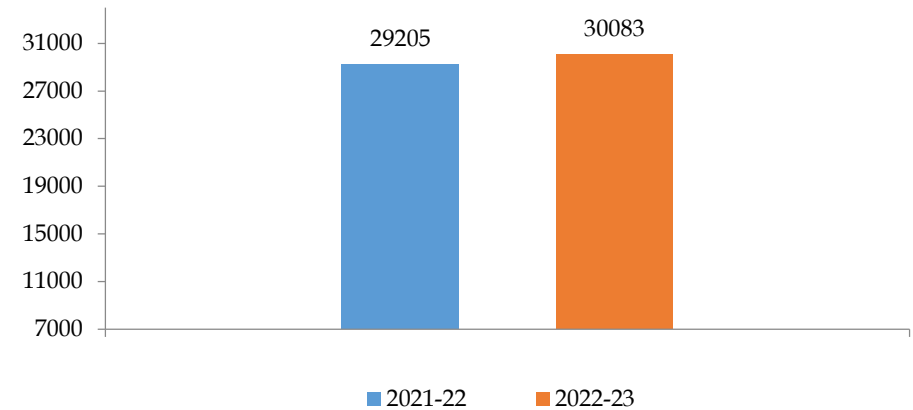


### Revenue (Rs in Crore)

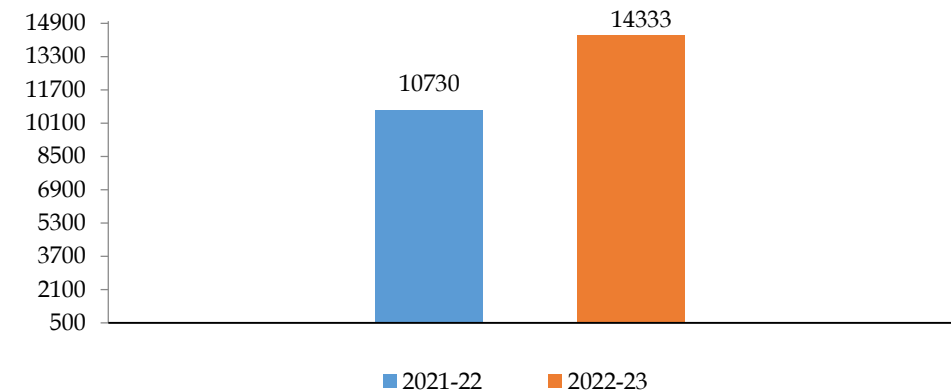


## Power

### Power Generation (MU)



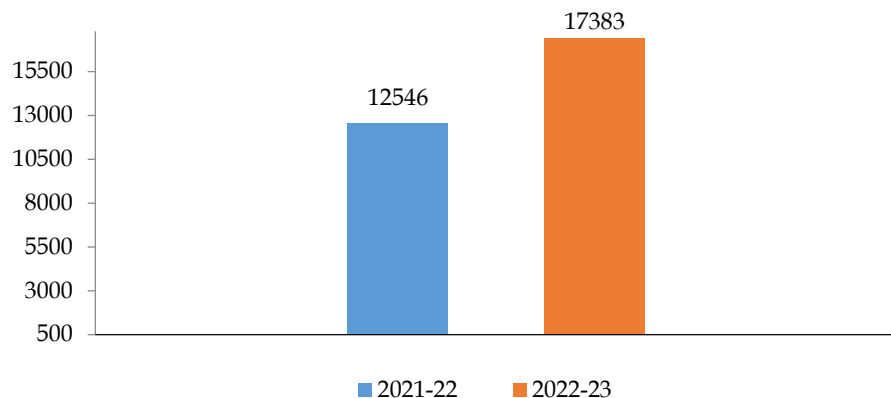
### Revenue (Rs in Crore)



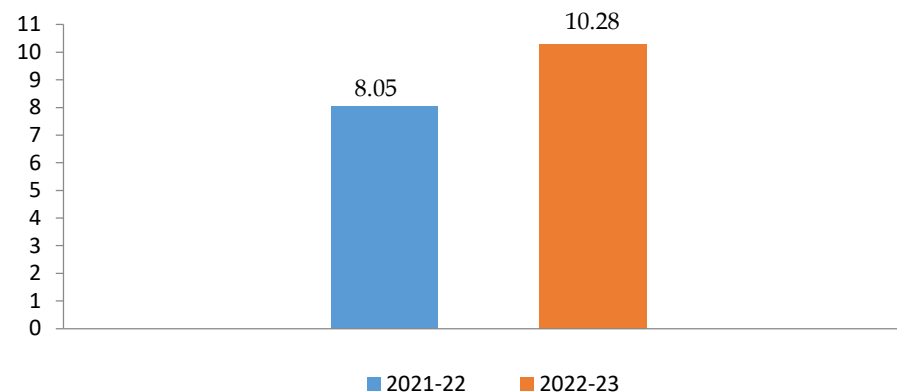
Source: Quarterly financial results

# Consolidated Performance - (2021-22 Vs. 2022-23)

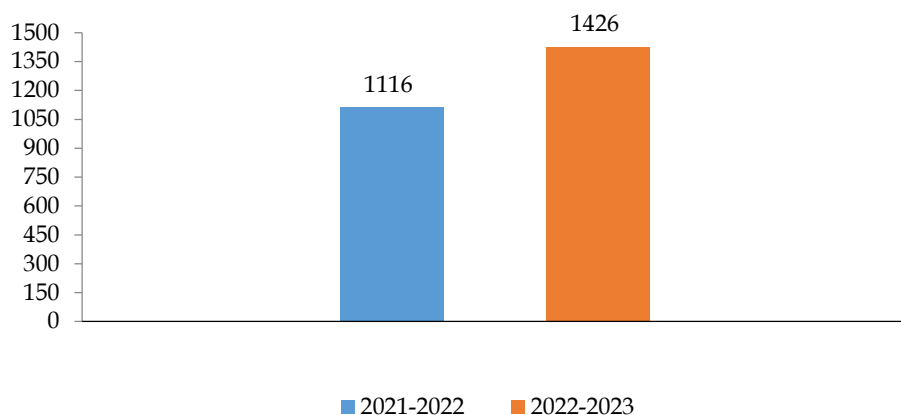
## Total Income (Rs in Crore)



## Earning Per Share (Rs.)- EPS



## Profit After Tax (Rs in Crore)



## Income Statement (Rs in Crore)

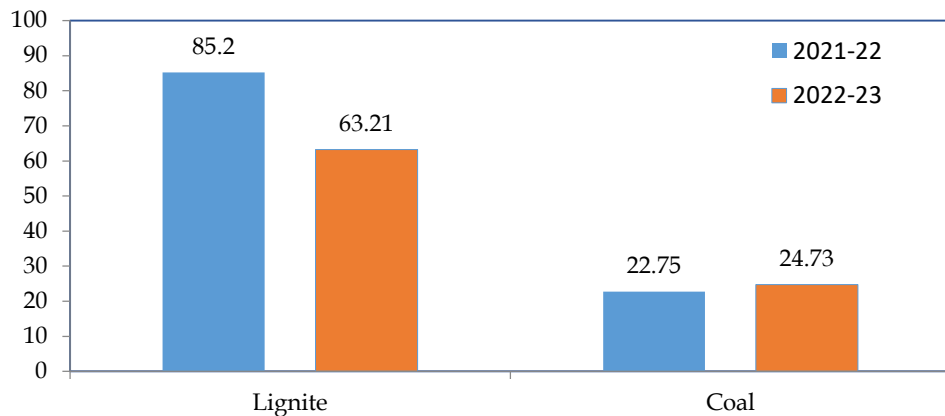
Particulars	FY 20-21	FY21-22	FY 22-23
Total Income	11,798	12,546	17,383
EBITDA *	5,218	5,106	4,881
EBITDA Margin (%)	44.23%	40.70%	28.08%
PAT	1314	1,116	1,426
PAT Margin (%)	11.14%	8.89%	8.20%

Source: Quarterly financial results

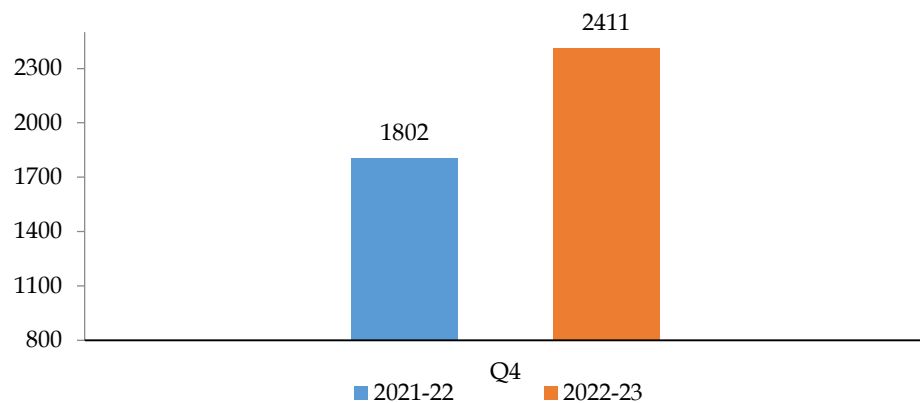
\* EBITDA computed considering Net Movement in Regulatory Expenses/Income and without considering Exceptional Item.

## Mining

### Lignite and Coal Production (LT)\*

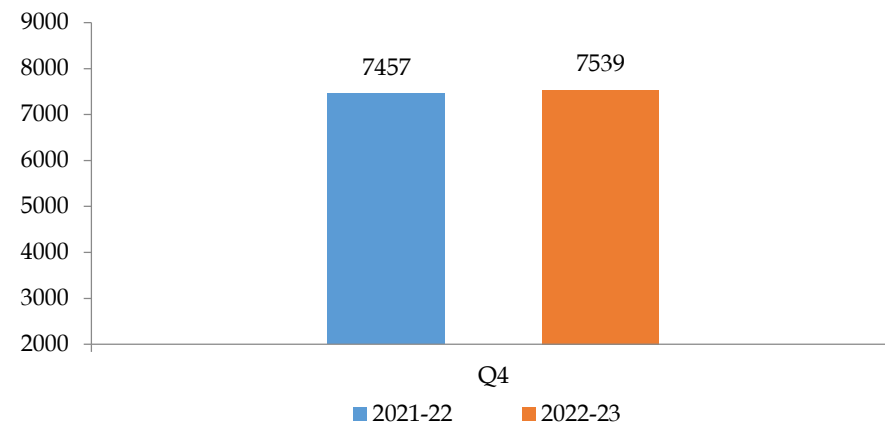


### Revenue (Rs in Crore)

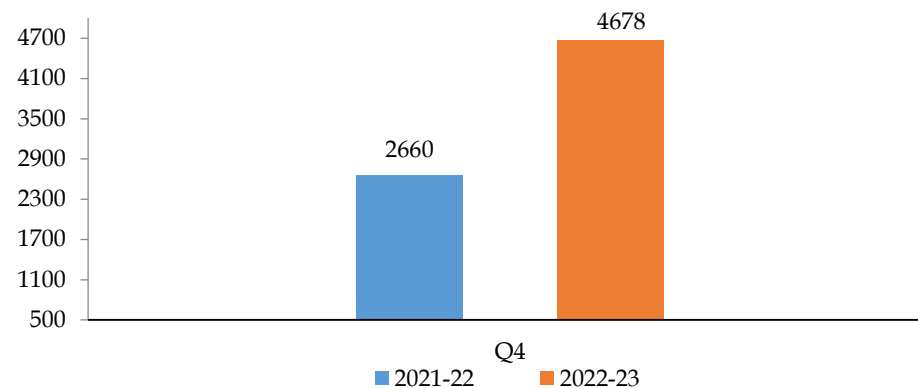


## Power

### Power Generation (MU)

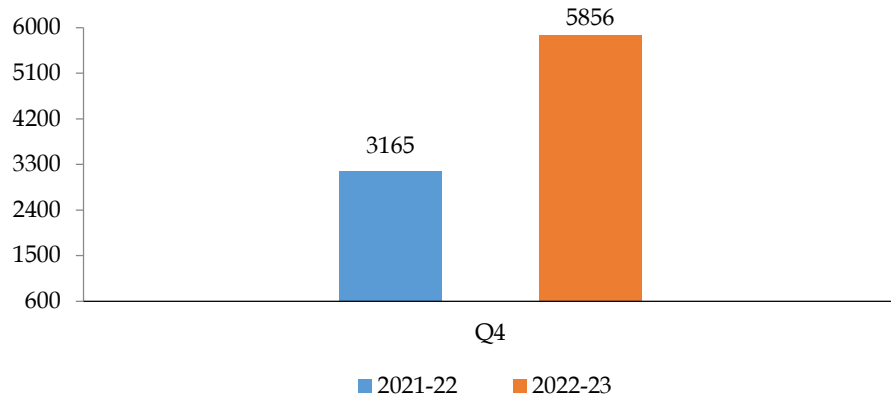


### Revenue (Rs in Crore)

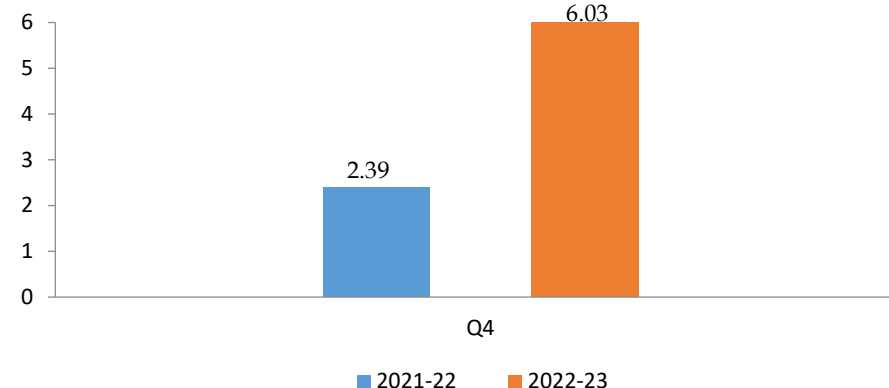


Source: Quarterly financial results

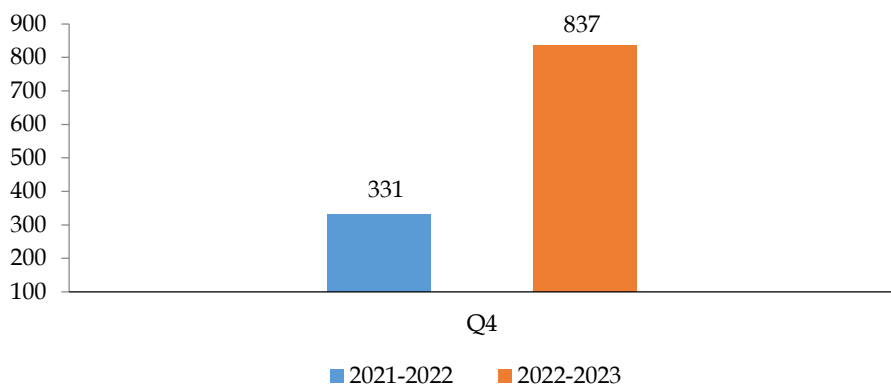
## Total Income (Rs in Crore)



## Earning Per Share (Rs.)- EPS



## Profit After Tax (Rs in Crore)

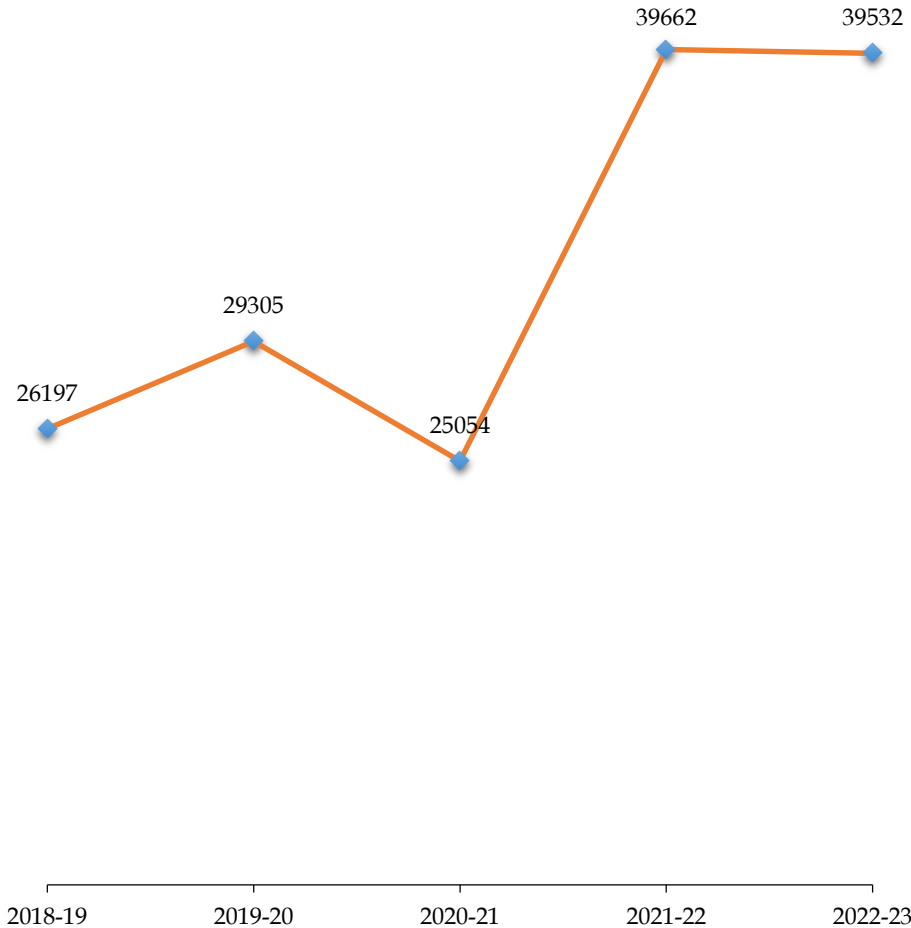


## Quarterly Income Statement (Rs in Crore)

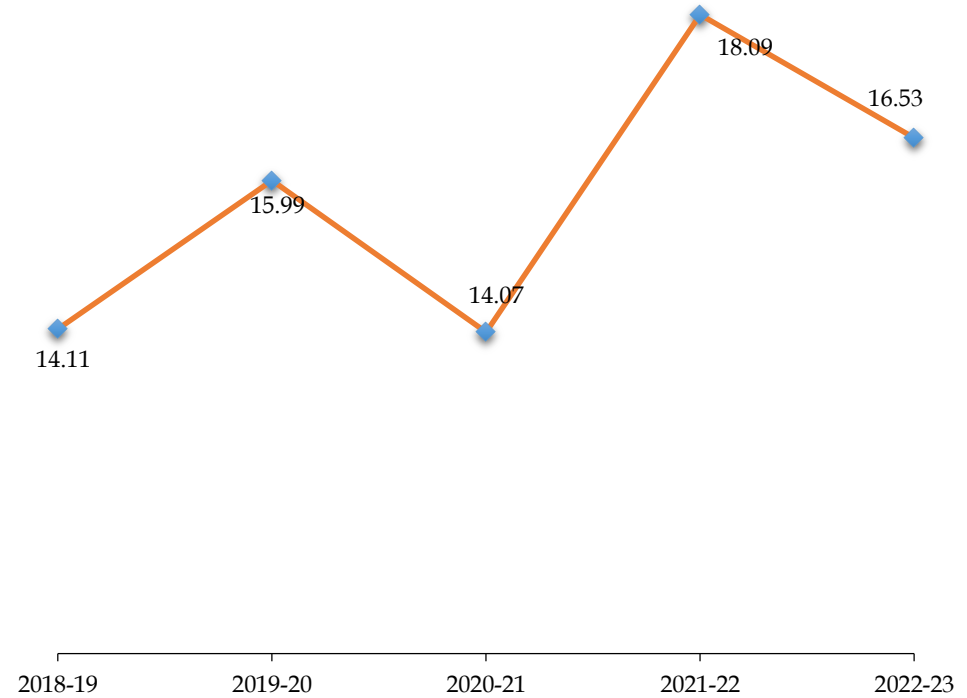
Particulars	Jun-22	Sep-22	Dec 22	Mar 23
Total Income	3966.01	3579.15	3982.49	5855.57
EBITDA *	1511.14	1386.75	25.13	1957.57
EBITDA Margin (%)	38.10%	38.75%	0.63%	33.43%
PAT	568.83	417.03	(396.35)	836.59
PAT Margin (%)	14.34%	11.65%	(9.95%)	14.29%

Source: Quarterly financial results \*EBITDA computed considering Net Movement in Regulatory Expenses/Income and without considering Exceptional Item.

## Output per Man Shift - Power (KWhr)\*



## Output per Man Shift - Lignite (in Tonne)\*



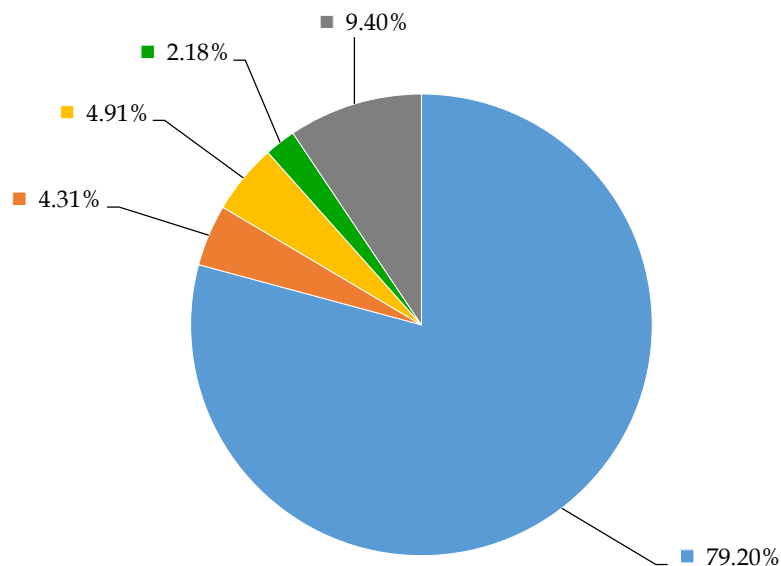
\* Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone



## Market Opportunity



## Shareholding Pattern\*



**Total No. of Shares - 138,66,36,609**

- Govt. of India
- State Govt. Sponsored Institutions
- Mutual Funds, Financial Institutions & Banks
- Insurance Companies
- Others

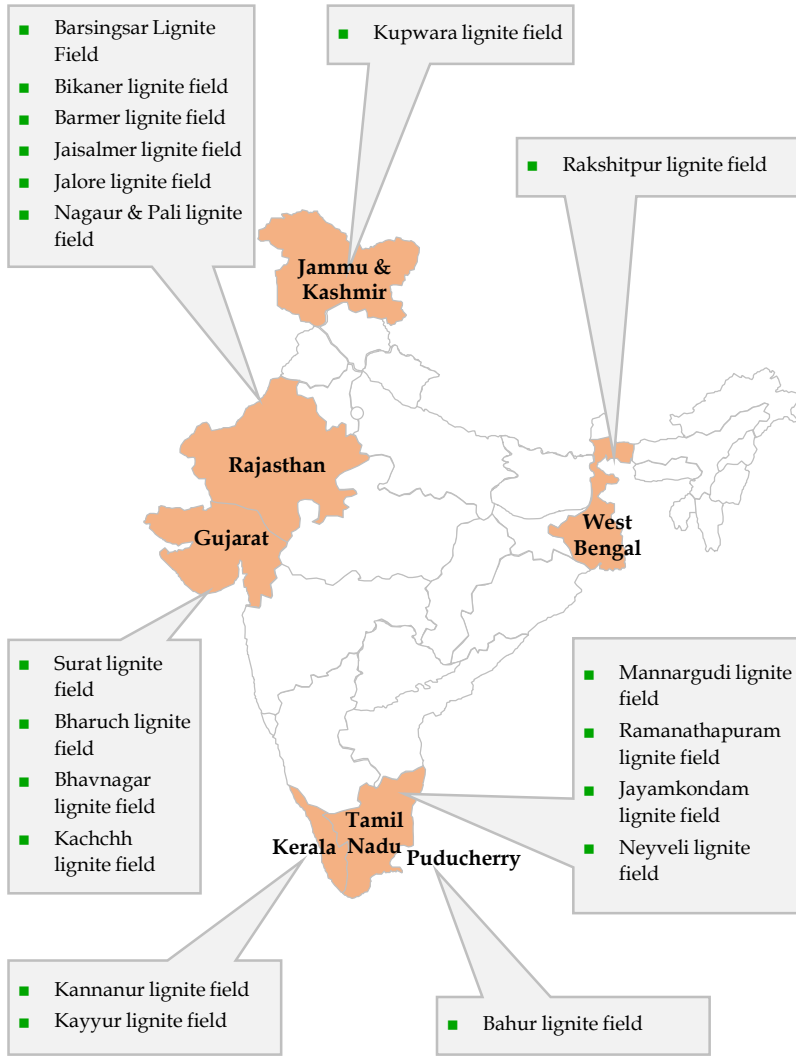
## No. of Shareholders

<b>(A) Promoter &amp; Promoter Group</b>	
Govt. of India	1
<b>(B) Public</b>	
State Govt. - Sponsored Institutions	5
Mutual Funds, Financial Institutions & Banks	48
Insurance	7
Others	1,83,414
<b>Total</b>	<b>1,83,475</b>

**Market Cap - Rs. 11,959.74 Crore#**

\*Shareholding Pattern as on 05.05.2023

#Market Cap as on 12.05.2023 (Closing Price of BSE @ Rs. 86.25)



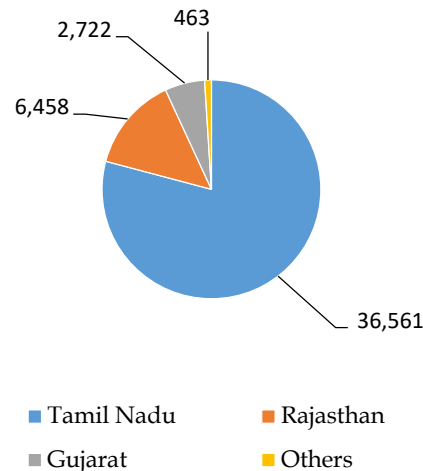
Map not scale

\*Source : Indian Coal and Lignite Resources - 2022 by GSI as on 31.03.2023.

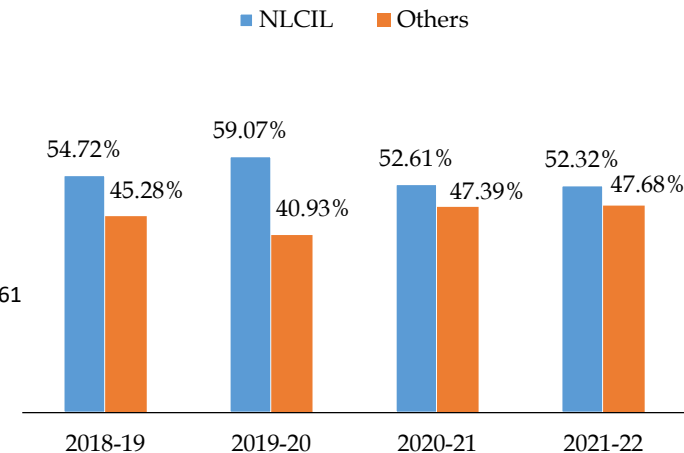
## State wise Geological resources in MT as on 01.04.2022 \*

STATE	Measured	Indicated	Inferred	Total	Total (%)
Puducherry	0.00	405.61	11.00	416.61	0.90
Tamil Nadu	4926.92	21981.20	9652.62	36560.72	79.13
Rajasthan	1168.53	3029.78	2259.41	6457.72	13.98
Gujarat	1278.65	283.70	1159.70	2722.05	5.89
J&K	0.00	20.25	7.30	27.55	0.06
Kerala	0.00	0.00	9.65	9.65	0.02
West Bengal	0.00	1.13	2.80	3.93	0.01
Odisha	0.00	0.00	5.93	5.93	0.01
<b>Total</b>	<b>7374.10</b>	<b>25721.70</b>	<b>13108.40</b>	<b>46204.16</b>	<b>100.00</b>

## Lignite Reserves (MT)\*



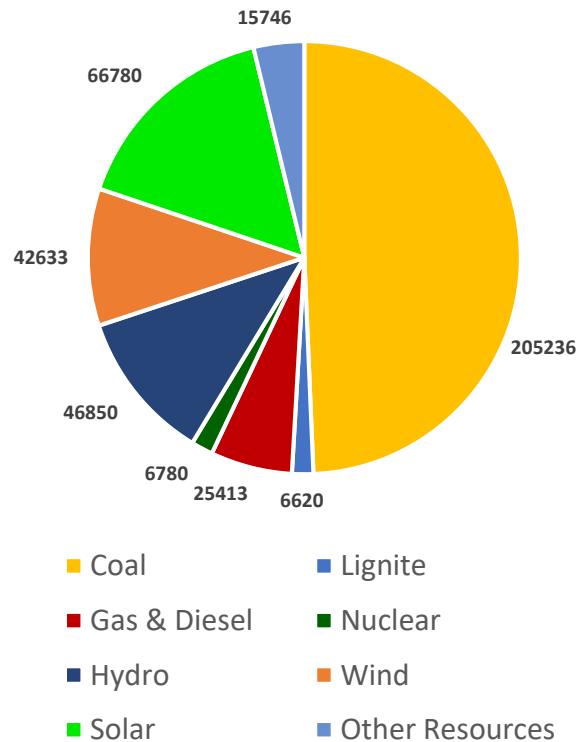
## Market Share of Lignite Production



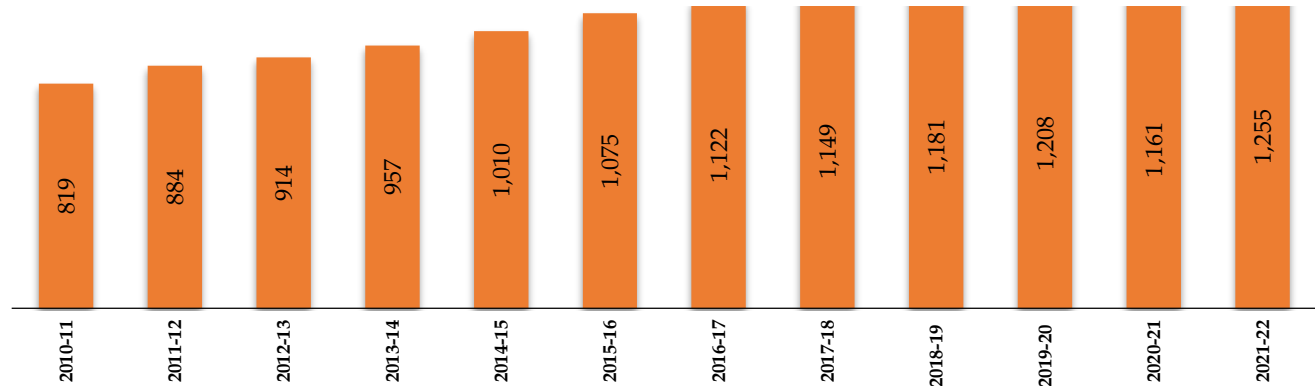
## Installed Capacity as on 31.03.2023

**416058.886 MW**

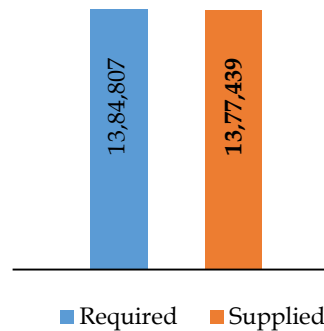
### Installed Capacity



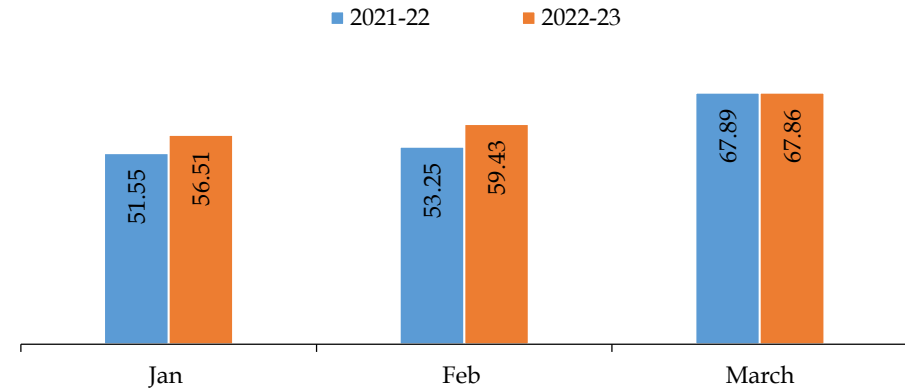
## Per Capita Consumption (kWhr)



## All India Energy Requirement & Supply (MU) : Apr-22 to Feb-23- MU



## All India Plant Load Factor of Thermal Plants(Excluding Gas Based Plants) %



Source :Central Electricity Authority - Executive Summary March- 2023 Report



## Growth Plans

# NLCIL Growth Plan 2030

Sl. No	Project	Existing Capacity	Addition Proposed	Total
1	Lignite (MTPA)	30.10*	8.00**	38.10
2	Coal (MTPA)	20.00^	24.00	44.00
	<b>Total Mining (MTPA)</b>	<b>50.10</b>	<b>32.00</b>	<b>82.10</b>
3	Power - Lignite Based (MW)	3,640	1,320	4,960
4	Power - Coal Based (MW)	1,000	5,180	6,180
5	Power - Renewable (MW)	1,421	4,610	6,031
	<b>Total Power (MW)</b>	<b>6,061</b>	<b>11,110</b>	<b>17,171</b>

\*Existing Capacity as on 31.03.2023 includes Mine IA Exp which is commissioned on 01.04.2022 and achievement of full capacity of 4 MTPA expected by 2028.

^Coal Production started on 26<sup>th</sup> April 2020. Achievement of Full Capacity expected by Jan 2027.

\*\*Addition Proposed is adjusted for reduction in Existing Mines Capacity by 3.5 MT

Source : NLCIL Corporate Plan 2030.

## Growth Plan over 3 Years

Sl. No	Project	Existing Capacity	Addition Proposed	Total
1	Lignite (MTPA)	30.10*	-	30.10
2	Coal (MTPA)^	20.00^	24.00	44.00
	<b>Total Mining (MTPA)</b>	<b>50.10</b>	<b>24.00</b>	<b>74.10</b>
3	Power - Lignite Based (MW)	3,640	-	3,640
4	Power - Coal Based (MW)	1,000	1,980	2,980
5	Power - Renewable (MW)	1,421	2,610	4,031
	<b>Total Power (MW)</b>	<b>6,061</b>	<b>4,590</b>	<b>10,651</b>

\*Existing Capacity as on 31.03.2023 includes Mine IA Exp which is commissioned on 01.04.2022 and achievement of full capacity of 4 MTPA expected by 2028.

^Coal Production started on 26<sup>th</sup> April 2020. Achievement of Full Capacity expected by Jan 2027.

Source :NLCIL Corporate Plan 2030.

## On Going Mining Projects

Project	MT	Estimated Cost (₹ Cr)	Expected COD
South Pachwara Coal Block *	9.00	2,281.12	Sept 2028
<b>Total</b>	<b>9.00</b>	<b>2,281.12</b>	

\* FR & BR submitted to MoC in Mar,23 for further approval from PIB

## On Going Thermal Power Projects

Project	MW	Approved cost (₹ Cr)	Expected COD
NUPPL - UP	1,980	19,406.13	Unit I - Jul 23 Unit II - Oct 23 Unit III - Dec 23
<b>Total</b>	<b>1,980</b>	<b>19,406.13</b>	

## On Going Renewable Power Projects

Project	MW	Estimated cost (₹ Cr)	Expected COD
Solar-Ground Mounted-Neyveli	10	42.94	April 2023
Solar 500 MW IREDA	500	2,735.13	Sep 2024
150 MW Wind-Solar Hybrid	150	922.32	Mar 2024
Solar 50 MW (In Neyveli at Mined out land area )	50	295	Tender floating is under process
<b>Total</b>	<b>710</b>	<b>3,995.39</b>	

## Upcoming Projects

Renewable Power Projects	MW	Estimated cost (₹ Cr)	Expected COD
Wind Project unit - 2	100	525.00	Project is under Planning Stage
250 MW Solar	250	1,212.50	
500 MW Under CPSU Scheme	500	2,500.00	
600 MW Under CPSU Scheme	600	3,000.00	
500 MW RE Power	500	2,500.00	
500 MW RE Power	500	2,500.00	
500 MW RE Power	500	2,500.00	
500 MW RE Power	500	2,500.00	
500 MW RE Power	450	2,250.00	
<b>Total</b>	<b>3900</b>	<b>19,487.50</b>	

Thermal Power Projects	MW	Estimated cost (₹ Cr)	Expected COD
Odisha Pit Head TPS ( Phase I)	2400 (3*800)	19,422	EPC Tender Floated and Bids under Evaluation
Odisha Pit Head TPS (Phase II)	800 (1*800)	6474	Project is under Planning Stage
TPS II 2 <sup>nd</sup> Exp	1320	11,189.20	EPC Tender floated
<b>Total</b>	<b>4520</b>	<b>37,085.20</b>	

Mining Projects	MT	Estimated Cost (₹ Cr)	Expected COD
Mine III Neyveli	11.50	3,755.71	Project is under Planning Stage
Commercial Coal Block	15.00	1,921.85	
<b>Total</b>	<b>26.50</b>	<b>5677.56</b>	



## MOU with Assam for 1000 MW

- Solar 1000 MW through JV in phased manner
- MoU signed between NLCIL & APDCL on 09.08.2022 for the installation of 1000 MW RE power .Estimated CAPEX – Rs.5500 crore
- Land identification and JV formation is under progress

## Lignite to Methanol

- Proposed capacity of Lignite gasification – based Methanol Project – 1200TPD
- The Project is expected to complete by March-2027
- NLCIL engaged M/s EIL as Project Management Consultant for implementation
- Tender for Lignite to Gasification & Methanol blocks , floated and bid opening scheduled on 07.06.2023.
- **CFS Scheme :**
- Submitted request for Rs.1000 Crores as Project Linked Incentive under category-I

## Lignite to Diesel

- Proposal has been received from the firm for pilot Plant of 290t/day of Lignite (Diesel - 40 t/day and Naphtha- 9.2 t/day)
- The CAPEX for the proposed plant - Rs.208.92 Crore

## Overburden to Sand

- It is found that around 34% to 94% of sand can be recovered from overburden.
- The Sand Grade found is suitable for construction applications.
- DFR & Financial due diligence completed
- At Mine IA : LOA issued on 31.03.2023
- At Mine I : Tendering is in active stage



## Corporate Social Responsibility

## Details of CSR expenditure (Rs. Cr)

Year	Norm	Actual
2020-21	46.74	46.74
2021-22	40.80	41.03*
2022-23	39.65	43.07

\* Includes Rs. 0.23 Cr spent on CER Expenses of Talabira Project

## Green belt development

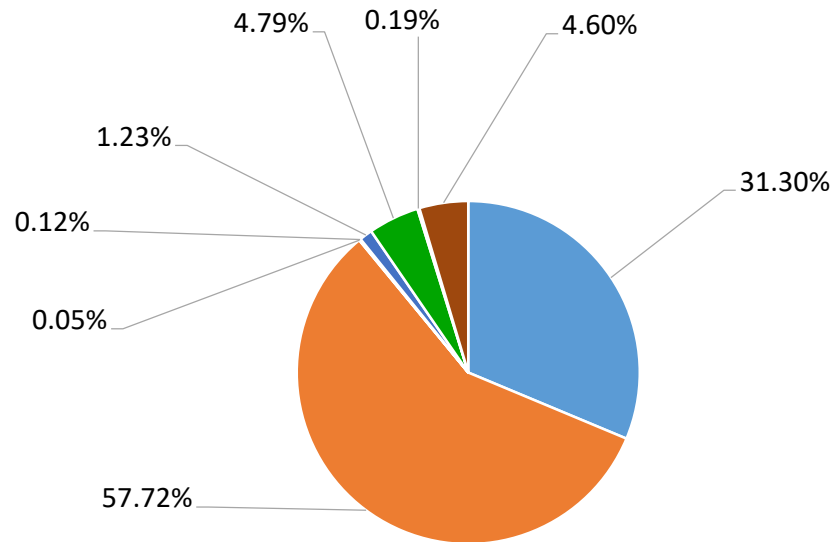


*Neyveli Township  
Overview  
Green Cover with  
191 lakh trees.*



*Paddy field on  
Reclaimed Mined land  
at Neyveli*

## % of amount spent on CSR Activities in 2022-23



CSR Expenditure FY 2022-23: Rs. 4307.00 Lakh

- Promoting Health care and Sanitation
- Promoting Education and Employment Enhancing Skills
- Protection of national heritage, art and culture
- Measures for the benefit of armed forces veterans
- Promoting Rural Sports
- Rural development project
- Disaster Management, including relief, rehabilitation and reconstruction activities
- Administrative Over Heads



## Energy Conservation

- Formed 14 industrial service units for adoption of energy conservation measures
- Installation of energy efficient equipments
- Energy Audit for Thermal Power Stations
- Minimisation of idle running hours in crushers in TPSs
- Timer Processor units are being installed in outdoor lights
- Adding of capacitor banks through induction motors
- 50.77 MU of energy conserved through energy efficiency measures

## Technology Absorption

- Techno Economic Feasibility done for solar drying of lignite.
- Development of Micro Hydel power generation
- Extraction of construction grade sand from overburden materials
- Studies on Zeolite based catalyst for mitigation of exhaust gas pollution
- Exploring alternate use of lignite is in progress.

## R & D Initiatives

- Prevention of Premature Failures and Enhancing Life of Bottom Rollers used in Bucket Wheel Excavators
- Feasibility of Setting up a pilot plant for Lignite to Syngas Integrated with Clean Power Generation by IGCC & Production of Value Added Chemicals
- Extraction of Diesel from Lignite
- Membrane-less, Chemical free, Plug and Play, Hassle Free; Water & Wastewater Treatment
- Smart IoT Controlled Cultivation of Herbal Crop
- Hydroponics Farming in the Backfilled Mines Area of NLCIL
- Development and Demonstration of Durable, Inexpensive and Scale able Supercapacitors for Energy Storage
- Development of Eco-Friendly Geo-Polymer Ash Based green bricks using solar heating
- Activated carbon development using lignite – HA sludge

- Risk in Land acquisition
- Realisation of Dues from DISCOMs
- Surrender of Power by beneficiaries
- Denial of agreed tariff due to delay in commissioning of projects.
- Competition consequent to de – regulation in Indian power sector
- Risk due to stringent Environmental norms
- Stringent Norms prescribed by regulatory authority affecting power tariff.
- Cost and time overrun of projects under execution
- Higher cost of lignite Mining



# Thank You