



**Coal India Limited**  
A Government of India Undertaking  
A Maharatna Company

**77**  
**Azadi Ka**  
**Amrit Mahotsav**

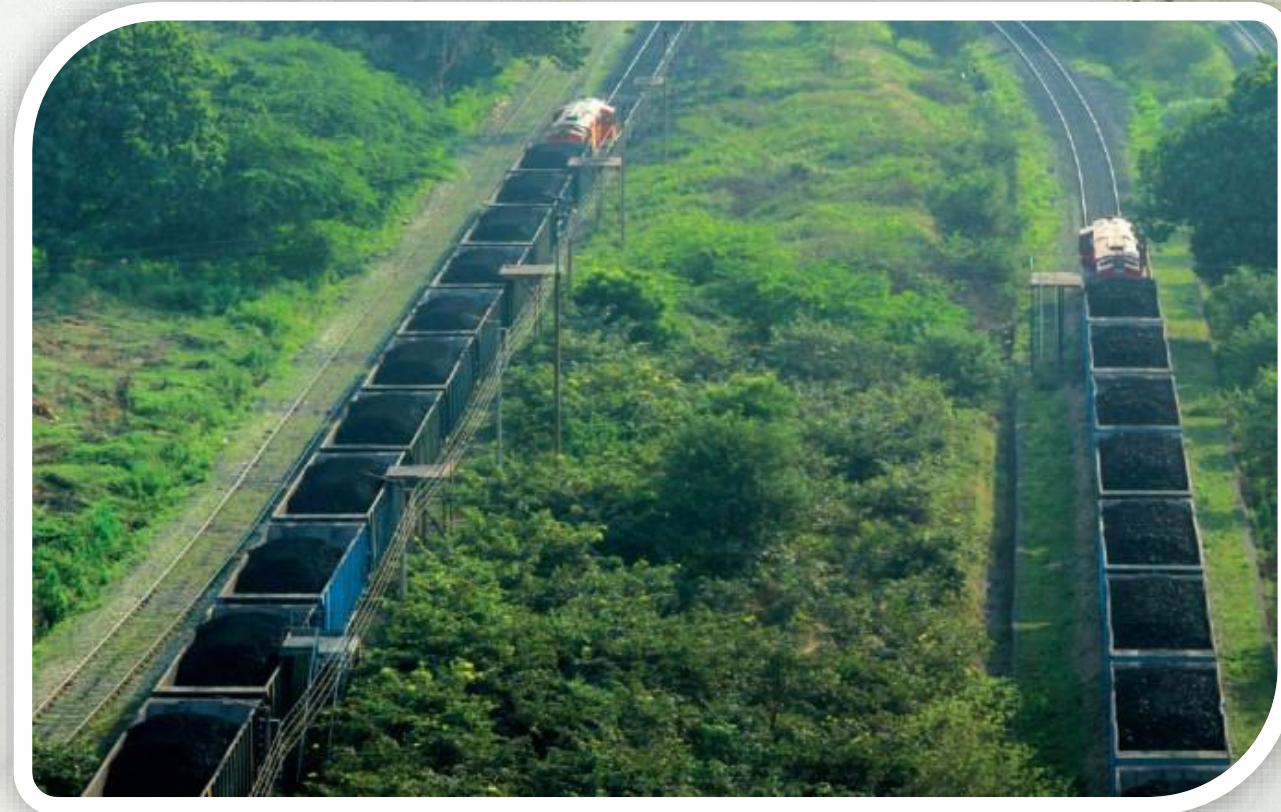


INTERNATIONAL YEAR OF  
**MILLETS**  
2023

*... Committed to fulfil the energy aspirations of the Nation*

- Highest ever Coal Production , Offtake & OB removal in FY 22-23.
- Highest ever profit achieved in FY 22-23 since inception.

**FY 2022-23**  
**COAL INDIA LIMITED**



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# Coal India – Vision & Mission , Key Value Propositions , Our Genesis

## Vision

To emerge as a global player in the primary energy sector committed to provide energy security to the country by attaining environmentally & socially sustainable growth through the best practices from mine to market.

## Mission

To produce and market the planned quantity of coal and coal products efficiently and economically in an eco-friendly manner with due regard to safety, conservation and quality.

## Key Value Propositions

Peak Coal Production of 703.2 Mt in FY 2022-23 , target to achieve 1BT by FY 2025-26

Manpower productivity to improve significantly

Mechanization & closure of unviable mines to lower costs

Evacuation and transportation infrastructure improvement

Improved ESG compliance and disclosures

Predictable capital allocation

Experienced management team

Aim to be a **'Net Zero Emission'** company at the earliest

As per IEA's World Energy Outlook 2022, India became the world's second-largest coal producer in 2021 (in energy terms), overtaking Australia and Indonesia and Coal supply is projected to increase from about 450 Mtce (million tonnes of coal equivalent ) in 2021 to 550 Mtce in 2030 (stated policies scenario).

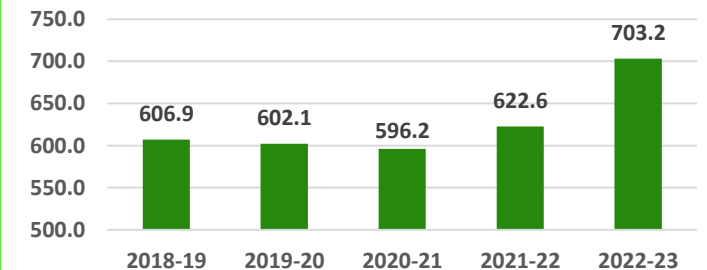
## 1975

- Nationalized coal mines under Coal Mines Authority Ltd. re-organised as Coal India Ltd.
- Coal Production ~ 79 Mt

## 2023

- Largest pure play coal producer in the world
- 'Maharatna'
- Highest ever coal production of 703.2Mt in FY 22-23

## Production (In Mill.Te.)



# Location of the Subsidiary Companies



## A. CIL - Coal Producing Subsidiaries

- (1) Eastern Coalfields Ltd.(ECL)
- (2) Bharat Coking Coal Ltd.(BCCL)
- (3) Central Coalfields Ltd.(CCL)
- (4) Northern Coalfields Ltd.(NCL)
- (5) Western Coalfields Ltd.(WCL)
- (6) South Eastern Coalfields Ltd (SECL)
- (7) Mahanadi Coalfields Ltd.(MCL)

## B. Planning & Design Subsidiary of CIL-

Central Mine Planning & Design Institute (CMPDIL)

## C. Diversification Subsidiaries of CIL-

- (1) CIL Solar PV Limited , Kolkata
- (2) CIL Navikarniya Urja Limited , Kolkata

# Key Company Highlights – Record Breaking FY 22-23

## Highest ever Production, Offtake & OBR in FY 22-23

### Highest ever PBT , PAT , Total Revenue from Operations & Net Sales in FY 22-23

**1** Highest ever Coal production of 703.20 MT and OBR of 1656.85 MCuM was achieved during FY 22-23 with a growth of 12.9% and 21.6% respectively against last year.

**2** Highest ever Offtake of 694.70 MT in FY 2022-23.

**2** Highest ever dispatch to Power Sector of 586.59 MT in FY 2022-23



**3** Highest ever FY Profit- CIL recorded the highest ever profit in any FY since inception. CIL recorded PBT of Rs. 38,001 Crores & PAT of Rs. 28,125 Crores in FY 22-23 .The growth in PBT is Rs. 14,385 Crores i.e. 61% over previous year. The growth in PAT is Rs. 10,747 Crores i.e. 62% over previous year. This year an amount of Rs. 8152.75 Crores have been provided towards National Coal Wage Agreement-XI for the salary of Non-Executives.

**4** Highest ever FY Total Revenue from Operations & Net Sales - CIL (Consolidated) recorded Total Revenue from Operations of Rs. 1,38,252 Crores in FY 22-23 an increase of Rs. 28,536 Crores i.e. 26% over FY 21-22 and Net Sales of Rs. 1,27,627 Crores in FY 22-23 an increase of Rs. 27,065 Crores i.e. 27% over FY 21-22.

# Key Company Highlights

## Organizational Commitment to Sustainable Development

- ◆ High focus on social, environmental and health & safety initiatives .
- ◆ Documented CSR policy .
- ◆ Committed to improve on all ESG parameters

## Positive Margins & Returns

- ◆ FY 22-23 EBITDA<sup>1</sup> margin of 32%.
- ◆ FY 22-23 RoAE<sup>2</sup> of 56%.
- ◆ Last 5 year avg Dividend Payout Ratio<sup>3</sup> of 55%

## Cost Leadership with Stable Realizations

- ◆ Higher proportion of open cast mining operations and increasing labor productivity.
- ◆ Improving productivity & efficiency through use of higher capacity equipment for higher output.

## World's Largest Pure Play Coal Producer

- ◆ Highest ever production of 703.20 million tons in FY 22-23 across 318 working mines.
- ◆ 178 bn tons of resources and 54 bn tons of reserves

## Growth Drivers

- ◆ Favorable demand expected from key sectors such as power and steel.
- ◆ Highest ever offtake of 694.70 million tons FY 22-23 .

## Extensive Mining Capabilities

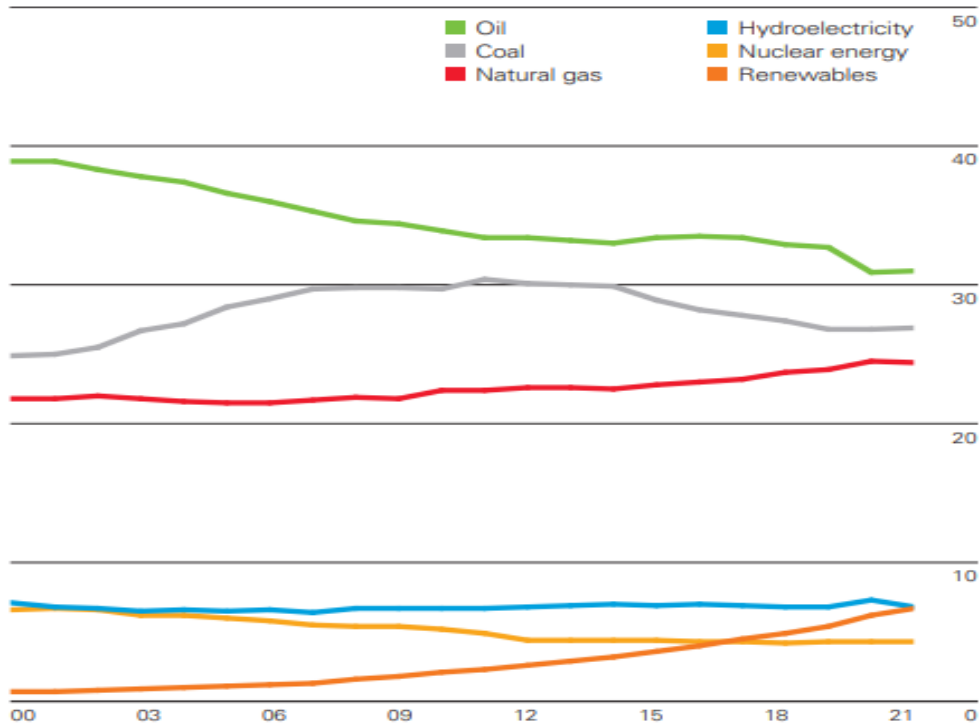
- ◆ Advanced technology in open cast mining.
- ◆ Focus on meeting commitments to the power sector.
- ◆ Tapping capabilities of other players through MDO.

### Notes:

1. EBITDA has been calculated by adjusting (adding back) with profit before tax the finance cost, depreciation / amortization / impairment and deducting interest income. EBITDA margin is EBITDA to Net Sales.
2. RoAE FY 22-23 is calculated as the ratio of Profit after taxes to the average shareholders' equity for FY 22-23.
3. Dividend payout ratio is the ratio of dividend declared to PAT. Including Final Dividend of ₹ 4.00 per share for FY 22-23 which has been recommended by the Board subject to approval in the ensuing AGM and has been considered in the above.

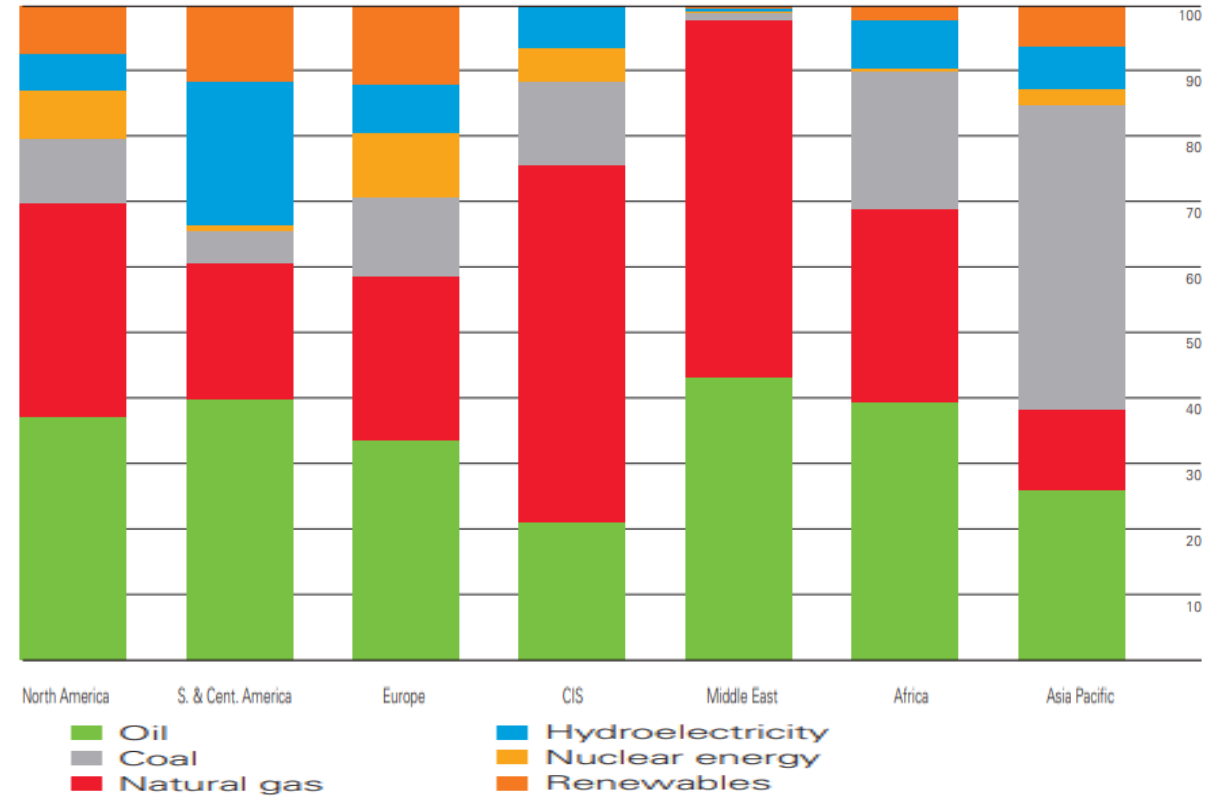
# Global Primary Energy Consumption\*

Share of global primary energy (%)



**Coal is the second largest fuel for primary energy consumption.**

Regional consumption pattern (%)

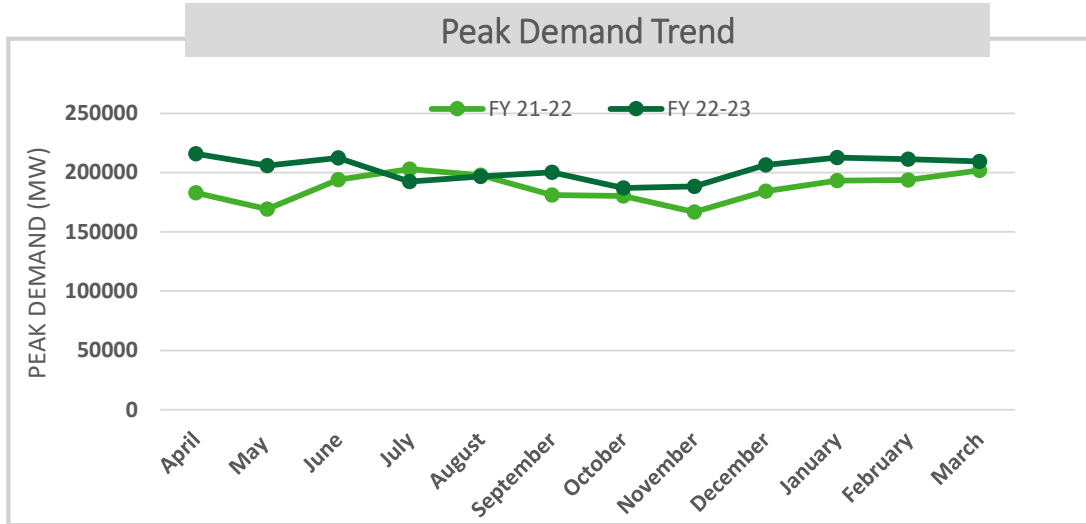


**Coal is the dominant fuel in the Asia Pacific region.**

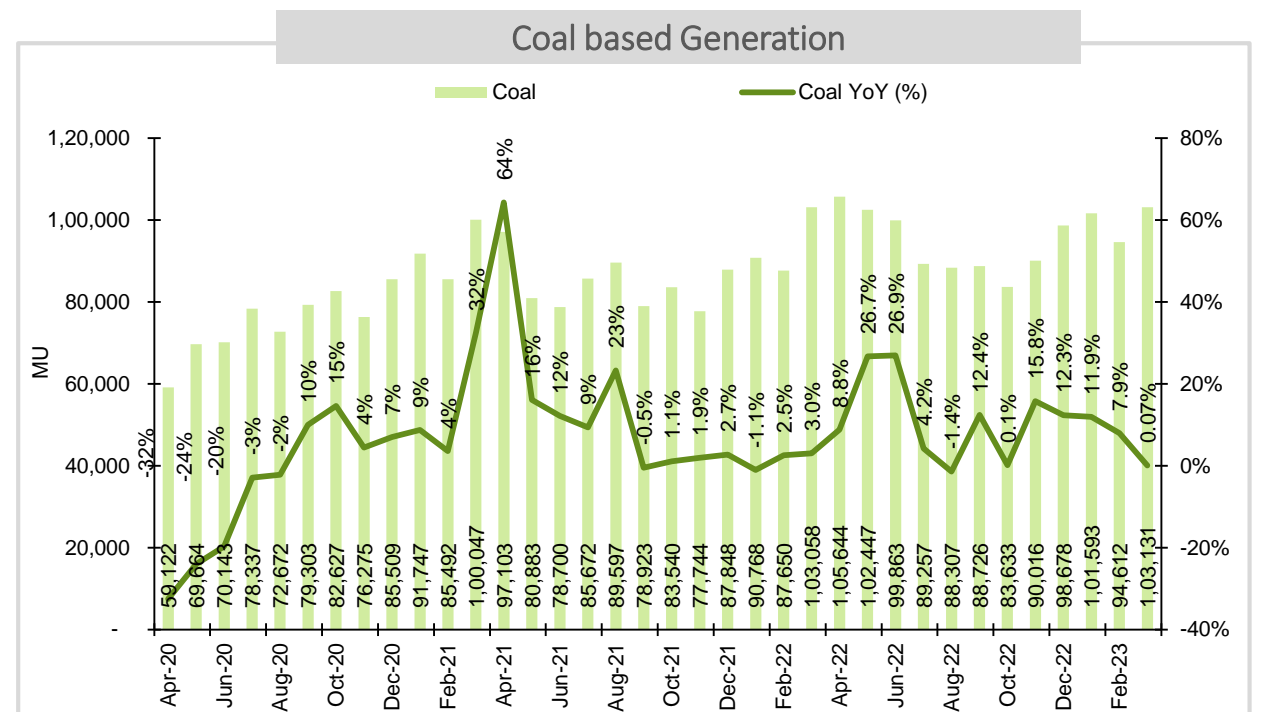
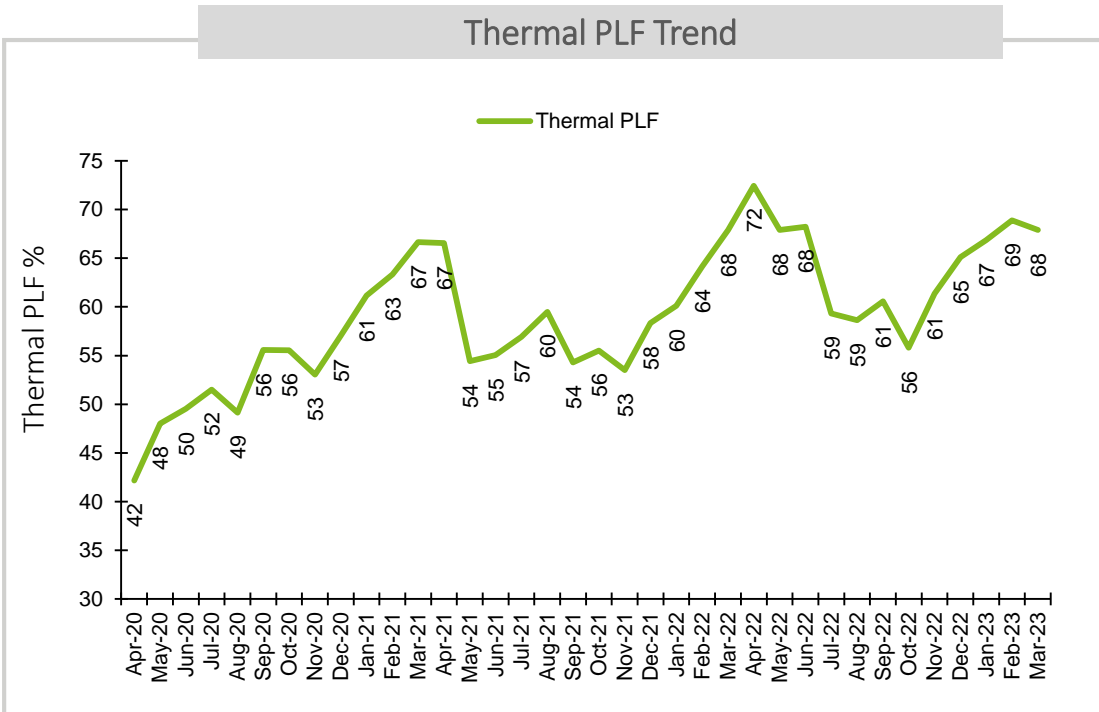
**At a global level, Coal remained the dominant fuel for power generation in 2021, with its share increasing to 36%, up from 35.1% in 2020.\***

\* Source : Based on the figure of 2021 as per BP Statistical Review of world energy 2022

# Increasing Power Demand in FY 22-23

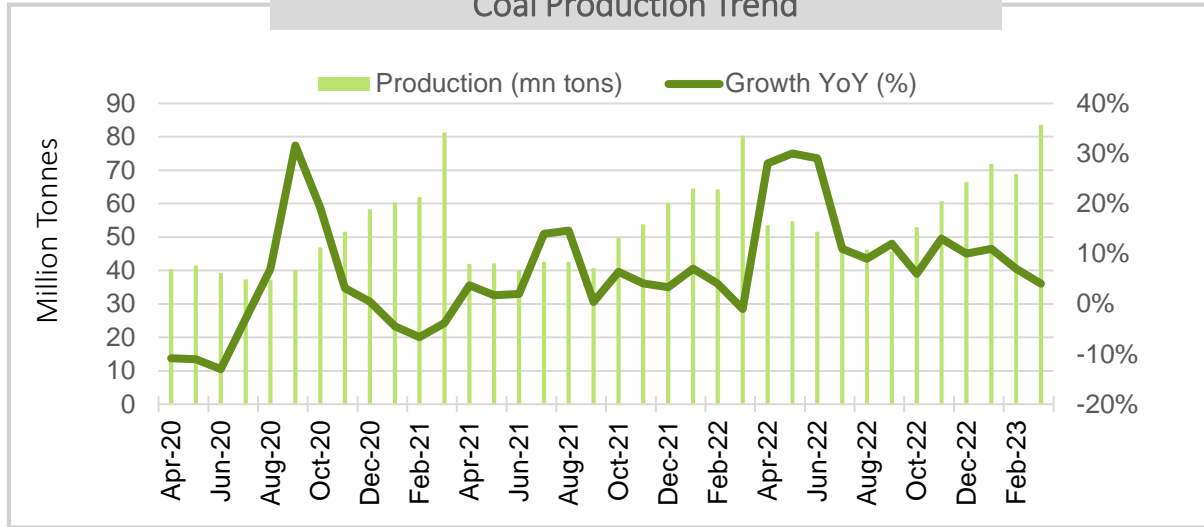


- Power demand increased during FY 22-23 as compared to FY 21-22.
- Coal based generation followed a similar trend.
- As per the CEA, thermal PLF reached 72% (approx.) in April'22 & 69% (approx.) in Feb'23.

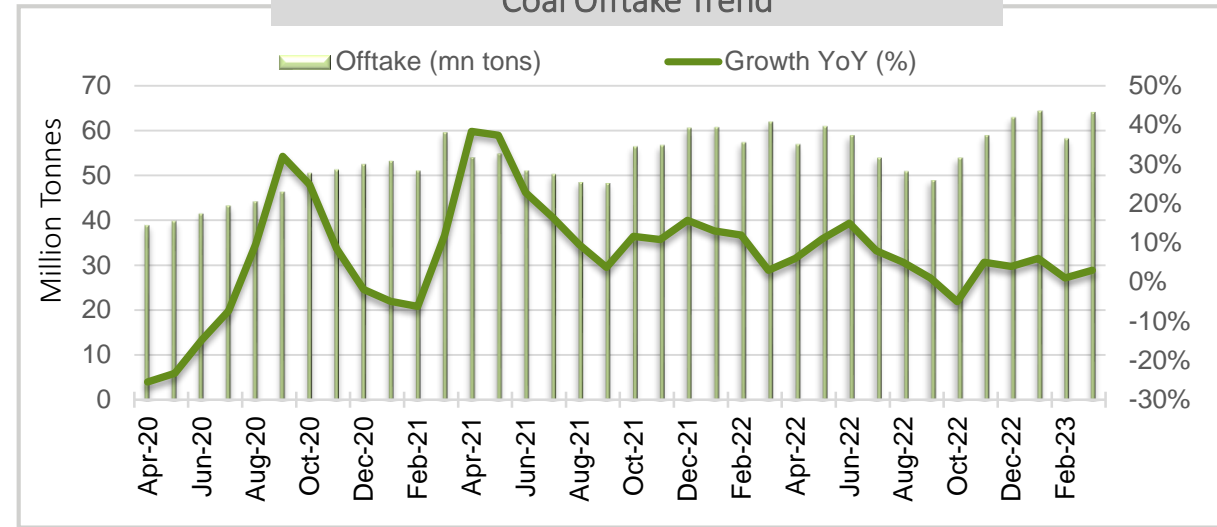


# Consequently, Demand for Coal increased

### Coal Production Trend



### Coal Offtake Trend



Subsidiary	Production						Offtake					
	Q4 FY23	Q4 FY22	YoY %	FY23	FY22	YoY %	Q4 FY23	Q4 FY22	YoY %	FY23	FY22	YoY %
ECL	11.2	11.2	0.6	35.0	32.4	8.0	10.4	9.7	7.9	35.5	36.1	-1.7
BCCL	10.2	10.4	-1.7	36.2	30.5	18.6	9.5	9.2	3.0	35.6	32.3	10.3
CCL	26.8	26.1	2.7	76.1	68.8	10.5	20.6	20.5	0.5	75.0	71.8	4.5
NCL	33.9	36.1	-6.0	131.2	122.4	7.1	33.1	33.5	-1.2	133.5	125.7	6.2
WCL	25.9	23.5	10.3	64.3	57.7	11.4	19.3	18.2	5.7	62.2	64.2	-3.1
SECL	60.4	50.7	19.2	167.0	142.5	17.2	44.7	42.4	5.3	160.0	155.5	2.9
MCL	55.6	51.0	8.9	193.3	168.2	14.9	49.3	46.8	5.4	192.7	176.4	9.3
NEC	0.1	0.03	-	0.2	0.03	-	0.1	-	-	0.2	-	-
<b>CIL -Total</b>	<b>224.2</b>	<b>209.0</b>	<b>7.3</b>	<b>703.2</b>	<b>622.6</b>	<b>12.9</b>	<b>186.9</b>	<b>180.2</b>	<b>3.7</b>	<b>694.7</b>	<b>661.9</b>	<b>5.0</b>





## Environment Clearance (EC)

- In FY23, 40 Proposals with incremental EC capacity of 87.32 MTY have been secured.
- In FY22, 20 no. of proposals with incremental EC capacity of 21.94 MTY has been secured.



## Forest Clearance (FC)

- In FY23, seven (7) proposals of FC (Stage-I) for 1920.147 Ha. of forest land have been secured and in FY22, Stage-I FC for five (05) no. proposals for 51.42 Ha of forest land secured .
- In FY23, seven (7) FC proposals (Stage-II) of 885.855 Ha. have been secured and in FY22 Stage-II FC for five (05) no. of proposals totaling 1081.24 Ha of forest land secured .



## Land Possession

- In FY23 possession of land -2090 Ha and in FY22 Possession of Land – 3731.05 Ha.
- In FY23 Notification u/s 9 of CBA (A&D) Act, 1957 – 2582.14 Ha & in FY22– 1727.07 Ha .
- In FY23 Notification u/s 11 of CBA (A&D) Act, 1957 - 1495.03 Ha & in FY22 –1364.11 Ha.



## Approval of Project Report

- In FY23, CIL has approved 24 Coal Mining Projects with a total capacity of 140.30 MTY and incremental capacity of 58.98 MTY.
- In FY22, CIL has approved 16 Coal Mining Projects with a total capacity of 99.84 MTY and incremental capacity of 56.66 MTY and 3 non-mining projects costing Rs. 5551.09 Crs.

# Railway Lines for Coal Evacuation – Key to Capacity Building

- In order to have a seamless evacuation system for the projected production, an action plan to enhance and strengthen the infrastructure of coal evacuation for existing, ongoing and future projects of subsidiary companies is in place. Rail infrastructure is being built both on ‘Deposit Basis’ as well as by forming SPVs with Rail PSUs and the concerned State Govt.




## Commissioned so far

- Tori-Shivpur New BG Double line (43.70 KM) to evacuate ~65 MTPA was funded by CIL and commissioned in Dec’2019. Construction for the third line is underway and targeted to be completed by Dec’2023. This shall enhance its capacity to evacuate ~ 100 MTPA of coal from the North Karanpura coalfield of CCL. (On Deposit Basis by EC Railway)
- Jharsuguda –Barpali- Sardega New BG line (52.41 KM) to evacuate ~ 35 MTPA was funded by CIL and commissioned on 05.04.2018. Construction of doubling of this rail line along with loading bulbs at Barpali and flyover complex at Jharsuguda is underway to enhance its evacuation capacity to ~ 65 MTPA. (On Deposit Basis by SE Railway). (Doubling works targeted to be completed by Dec’2023).
- The Rail Connectivity of Lingaraj SILO with Deulbeda siding at Talcher Coalfields of MCL was Commissioned on 18th May,2021 (On Deposit Basis by East Coast Railway).
- Mahanadi Coal Rail Ltd (MCRL) - Angul- Balram rail link (14.22 Km) in Talcher coalfield of Odisha commissioned on 14.11.2022. It shall facilitate additional evacuation of ~ 15 MTPA coal.

# Railway Lines for Coal Evacuation – Key to Capacity Building

## Under Construction

- 
- Chhattisgarh East Rail Ltd (CERL) - East Rail Corridor in the state of Chhattisgarh – CERL Phase – I – Main corridor between Kharsia to Dharamjaigarh (0-74 KM) commissioned on 21st June'2021. Commercial notification of Chaal feeder line issued on 31.07.2022. Commercial notification of Baroud feeder line issued on 16.03.2023. It shall evacuate around 62 MTPA of coal and anticipated to be commissioned by Dec'2023. CERL Phase – II - Land acquisition under process. Anticipated to be commissioned by March'2026.
  - Chhattisgarh East West Rail Ltd (CEWRL) – East West Rail Corridor in the state of Chhattisgarh –to evacuate ~ 65 MTPA of coal. Construction works under execution. Anticipated to be commissioned by Dec'2024.
  - The Shivpur - Kathautia rail connectivity is being executed by Rail JV, JCRL (Jharkhand Coal Railway Limited) formed among CCL (Central Coalfields Limited), Govt. of Jharkhand and Indian Railway represented by IRCON, in the state of Jharkhand. About 25 MTPA coal from the mines of CCL is planned to be evacuated through this line . Financial Closure achieved on 05.05.2022 . Anticipated to be commissioned by March 2025.

## Infrastructure Building – First Mile Connectivity Projects

- *CIL has taken steps to upgrade the mechanized coal transportation and loading system under 'First Mile Connectivity' projects (Aug'2019) .*
- *Phase-I: 35 projects of 414.5 MTPA awarded at a capital investment of INR 10,750 Cr.; 7 projects of 92 MTPA have been commissioned till date. (PG Test for Jayant FMC (15 MTPA) commenced from 09.01.2023 and targeted to be completed by Jun'23). The balance remaining projects are anticipated to be completed by FY 24-25.*
- *Phase-II: 09 projects with total capacity of 57 MTPA with an estimated investment of about INR 2,500 Cr. are under implementation. Work has started in 3 FMC Projects of 14 MTPA capacity and tender is under finalization in 3 FMC projects of 13.5 MTPA capacity. (Targeted to be completed by FY 24-25)*
- *Phase-III: 17 projects with total capacity of 317 MTPA has been planned at an estimated investment of about INR 11,000 Cr for which tenders would be floated by FY 25-26 and targeted to be completed by FY 28-29.*
- *These FMC Projects shall enable increased mechanized evacuation from 151 MTPA (as on Aug'2019) to 940 MTPA by FY 28-29.*
- *Total investment of INR 24,250 crore*
- *Company expects improvement in coal quality, savings in under-loading charges and a positive impact on the environment.*
- *Substantial reduction in cost on evacuation & transportation charges.*

# Quality Control



As per Third Party Sampling results in terms of quantity sampled and analyzed, Grade conformity from Apr'22 to Mar'23 has been 70% as compared to 66 % for the last year i.e. April'21 to Mar'22.



The difference between weighted average of declared Gross Calorific Value (with reference to midpoint GCV of respective grades) and analyzed GCV of coal samples during the year considering the results received and accepted so far show the variation to be around 16 Kcal/Kg for FY 21-22 and 03 Kcal/Kg only for FY 2022-23.

For resolution of quality-related issues , inter-alia, the following measures were adopted:

1 Review of complaints by CCO/MOC

2 Committees comprising of members from coal companies, consumers and third party agency (Apex Committee & Executive Committee) to resolve quality issues are functioning.

3 Adoption of modern techniques (a) Deployment of continuous miners under permissible geo-mining conditions in UG mines (b) Use of surface miners for coal production in opencast mines entail blast free selective mining leading to better quality and consistent sized coal output.

4 Utilization of mechanical scraping to remove extraneous material

5 Use of mobile crushers for augmenting coal sizing capacity, wherever necessary.

6 Development of First Mile Connectivity (FMC) Projects.

# Import Substitution

- Under the backdrop of 'Aatma Nirbhar Bharat' mandate to promote usage of domestic coal in the country, CIL took various steps :

## *Steps taken by CIL to substitute import in FY 2022-23*

- 1** Dispatch to Power sector increased from 540.57 Mill. Te to 586.59 Mill. Te during April'22-March'23 in comparison to last year i.e. growth in supply for Power sector is 8.5% during April'22-March'23
- 2** After meeting FSA commitment, 53.4 MT has been allocated through E-Auction route during April'22-March'23, which helped in reducing import of coal in India.
- 3** In order to reduce coal import by Power-Non Power sector, CIL is periodically conducting Linkage Auction (Long Term, Medium Term & Short Term) for Power Sector and to cater the demand of Non Power Consumers on Long Term basis Linkage is being issued through NRS Linkage Auction route that helps to curb the import of Coal by NRS consumers.

# Cost Control Measures

01

Attrition of manpower: Around 5% reduction in manpower annually for the next 5-10 years (FY23 base of 2,39,210 employees)

03

First mile connectivity & infrastructure creation to reduce costs.

02

Emphasis on digitization of mines for increasing efficiency in overall capacity utilization resulting in higher volumes of coal at lower costs

04

Closure of unviable mines: 141 underground mines employ around 39.86% of the workforce whereas contributes 3.6% of total production. Action is being taken to close the unviable mines in CIL in a phased manner. Production from 18 (12 mines in 2020-21, 02 mines in 2021-22 and 4 mines in 2022-23) Underground Mines has already been suspended.

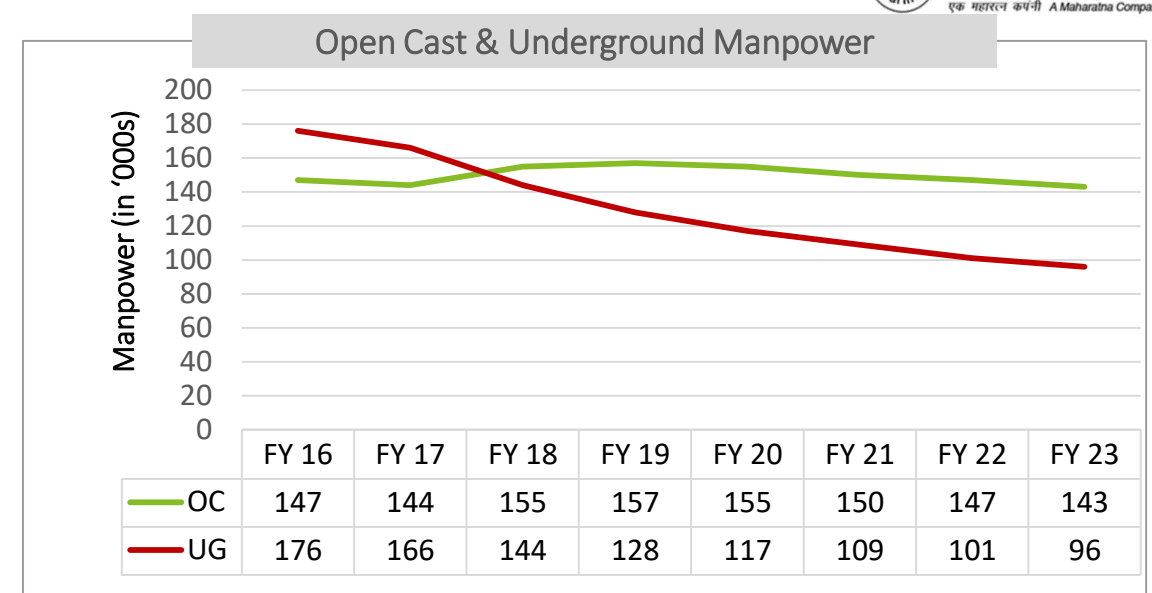
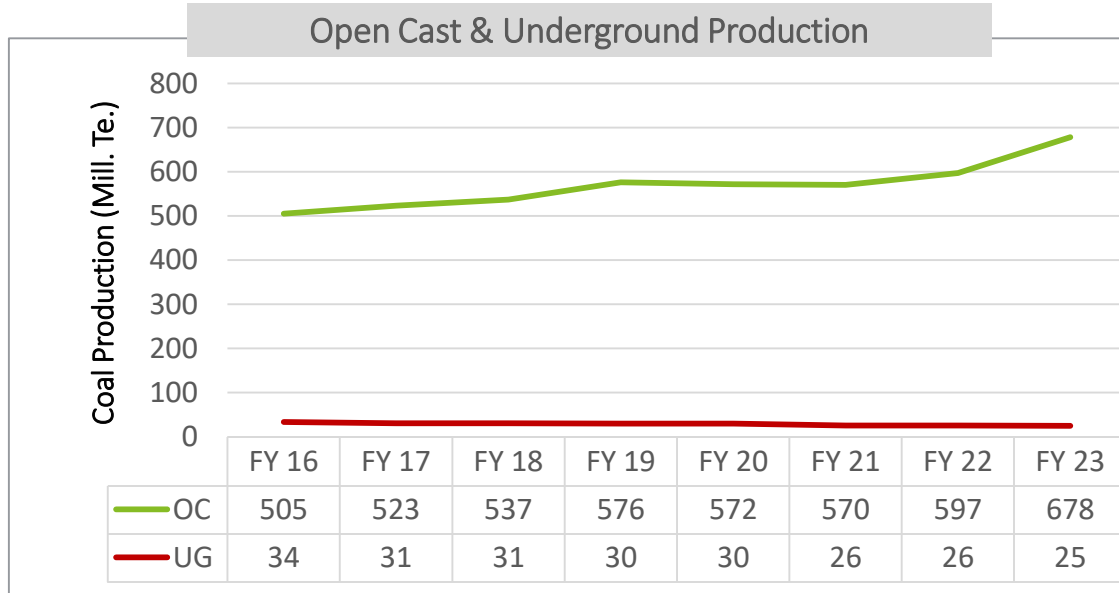
## Output enhancement through MDO (Mine Developer cum Operators)

For efficient operationalization of greenfield projects, CIL devised a transformative plan to engage MDO for 15 projects (11 OC and 4 UG) with combined total targeted capacity of about 169 MTY.

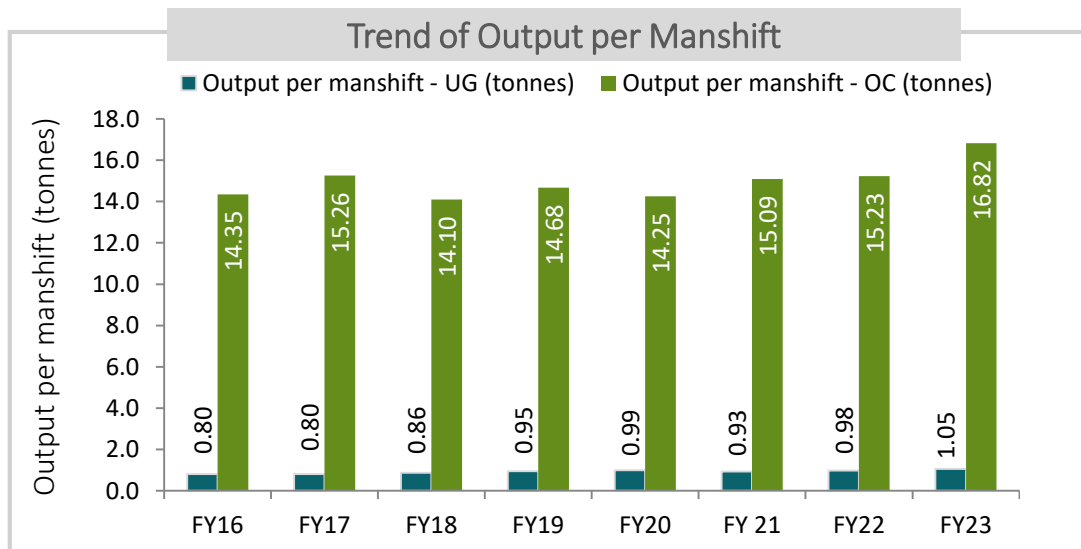
Out of the 15 projects,

- LOA issued for 11 projects of 132.10 MTY (out of which Agreement has been signed for 7 Projects of 99.77 MTY)
- Out of 11 Projects for which LoA has been issued, mining activities have started in 3 Projects.
- Bid under evaluation – 1 Projects of 10 MTY.
- To be retendered – 3 Projects of 26.51 MTY.

# Cost Control Measures – Closure of Unviable Mines



In FY 21 production from 12 UG mines , in FY 22 production from 02 UG mines & in FY 23 production from 4 UG mines has been suspended.



- Overall OMS of 10.89 Tonnes/Manshift in FY 22-23 vis-à-vis 9.53 Tonnes/Manshift in FY 21-22 .

Subsidiary	FY 22-23		Manpower 01.04.2023
	Production (MT)		
	UG	OC	
ECL	9.0	26.1	51074
BCCL	0.7	35.5	37037
CCL	0.9	75.2	34975
NCL	0.0	131.2	13753
WCL	2.9	61.4	34390
SECL	11.6	155.4	41965
MCL	0.4	192.8	21827
NEC	0.0	0.2	667
CIL HQ+CMPDIL			3522
<b>Total</b>	<b>25.5</b>	<b>677.7</b>	<b>239210</b>

- Coking Coal Production of **54.62** MT & Non Coking Coal Production of **648.58** MT in **FY 22-23**



# Moving towards Clean Coal

## Coal Gasification

- 4 Surface Coal Gasification (SCG) projects identified in ECL (WB), SECL (CG), WCL(MH) and MCL(OD).
- ECL(CIL-GAIL SCG Project)- PDIL has been submitted final PFR for Coal to SNG plant on 13.03.2023.
- SECL(CIL-IOCL SCG Project)- PDIL has been submitted final PFR for Coal to DME plant on 14.03.2023.
- MCL(CIL-BHEL SCG Project)- PDIL has been submitted final PFR for Coal to Ammonium Nitrate plant on 24.03.2023.
- The 450th CIL Board Meeting held on 19.04.2023 has accorded approval of the above PFRs, including approval for taking-up Pre-Project and Tendering Activities.
- WCL- Currently, the project is in the tendering stage. The tender has been invited on 06.03.2023 and scheduled bid submission end date is 12.09.2023.
- INR 44,722 crore (±25%) investment through LSTK/BOO model in ECL, SECL, MCL & WCL.
- Three MoUs have been executed on 12.10.2022 between CIL & IOCL, CIL & BHEL and CIL & GAIL for SCG based Coal to Chemical business. JVA is under advanced stage of negotiations.

## Coal Bed Methane

- Tenders floated for 3 projects for CBM Development through CBMD (Coalbed Methane Developer) in: Jharia CBM Block-I (CAPEX: INR 1879 Cr.) Raniganj CBM Block (CAPEX: INR 595 Cr.) & Sohagpur CBM Block-I (CAPEX: INR 202.72 Cr.). Offer received for Jharia CBM Block-I only. [Capex as per Pre-Feasibility Reports]
- Revenue sharing contract signed with successful bidder for Jharia CBM Block-I. The Block is in Exploration Phase.
- Global bid document for Raniganj CBM Block published thrice and twice for Sohagpur CBM Block-I, however no bid was received.

## Washeries

- 13 coal washeries, (11 coking coal and 2 non-coking coal) with total capacity of 24.9 mtpa operational
- Construction of Madhuband washery (5 mtpa) is completed. Awaiting Performance Guarantee Test (PGT).
- 4 new coking coal washeries in BCCL totaling 12 mtpa, 5 new coking coal washeries in CCL totaling 14.5 mtpa and 1 non-coking coal washery in MCL of 10 mtpa capacity being set up.

### Washed Coking Coal production (in Mill Tonnes)

	FY 23	FY 22	Growth (%)
BCCL	1.431	1.209	18.4
CCL	0.721	0.400	80.2
<b>CIL</b>	<b>2.152</b>	<b>1.609</b>	<b>33.7</b>

- 10 washeries to be built – estimated investment of about INR 4,000 crore
- Work Orders worth over INR 13,277 crore (as per DFR) have been awarded by Talcher Fertilizers Limited in Sept'19 for setting up of Coal Gasification plant and Ammonia-Urea plant on Lump Sum Turnkey (LSTK) basis. The plant will have an installed capacity of 12.7 lakh tonne per annum, thereby saving on urea imports and improving its availability for farmers in the region.
- Union Cabinet has approved an "exclusive subsidy policy" for urea fertiliser produced through coal-gasification by TFL. Clean coal technology will be adopted for the gasification process at the plant.

# Diversification and foray into Renewables

#1



## Solar Generation

- Aim to set up 3GW capacity of solar power projects to become net-zero.
- An MOU was executed between CIL and Rajasthan Rajya Vidyut Utpadan Nigam Limited (RVUNL) on 13th Oct 2022 for setting up the 1190 MW solar power plant at the solar park of RVUNL.
- Ground Mounted Solar project of 200 MW capacities are awarded at different subsidiaries and 100 MW project at Gujarat. These projects are under different stages of installation and further capacity addition at vacant/mined out land parcel is being considered.
- Approximately 11 MW of rooftop solar projects have been commissioned and are generating cleaner energy. 20 MW additional Rooftop Projects are identified and under finalization.
- 2 subsidiaries namely CIL Navikarniya Urja Limited and CIL Solar PV Limited have been incorporated to venture into Solar Power Business.

#2



## Aluminium Value Chain

- Third party feasibility studies completed
- Approval of High Level Clearance Authority (HLCA) of Govt. of Odisha (GoO) for Refinery-Smelter-CPP under the Integrated Greenfield Aluminium Project at Odisha received.
- EIL has submitted final land and water assessment study report for the proposed Aluminium Project in Dec '22
- Currently, CIL has initiated formal communication with Odisha Mining Corporation (OMC) for procuring bauxite through Long Term Agreement.
- Through SPV/partnership

- As an alternative environment friendly green energy source, to power our mining operations, solar power generation lists high on our diversification where CIL is venturing to set up 3,000 MW renewable power capacity by 2025-26.
- During 2022-23, a total of 6.83 million units were generated from solar installations commissioned at various subsidiaries
- Other than Solar initiatives, CIL will look for partners for its diversification plans.

# Diversification – Solar Power Generation



CIL is implementing overall 379 MW of ground mounted solar projects and 20 MW of rooftop solar projects in FY 23-24. Work has been awarded for execution of 300 MW SPV Solar Projects at MCL(50 MW), NCL(50 MW) ,SECL(40 MW), WCL(15 MW), BCCL (25 MW) ,CCL (20 MW) & 100 MW Solar Plant for GUVNL. Projects approved and under stages of award: 79 MW (ECL-35 MW, BCCL- 20 MW, CCL-24 MW).



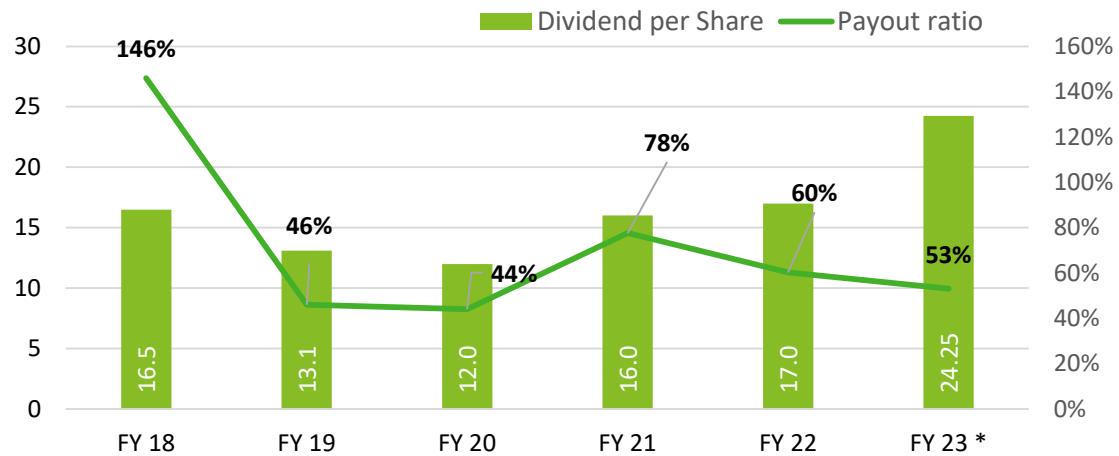
CIL has entered in an MOU with Rajasthan Rajya Vidyut Utpadan Nigam Ltd to develop Solar Power Project at Solar Park, Distt.- Bikaner , Rajasthan.



CIL is implementing energy efficiency measures for Carbon reduction for CIL and its subsidiaries. i.e. Decentralized Solar Program(rooftop and ground mounted), Electric Vehicles, EV Charging Infrastructure, Smart meters, Building Energy Efficiency Programs etc.

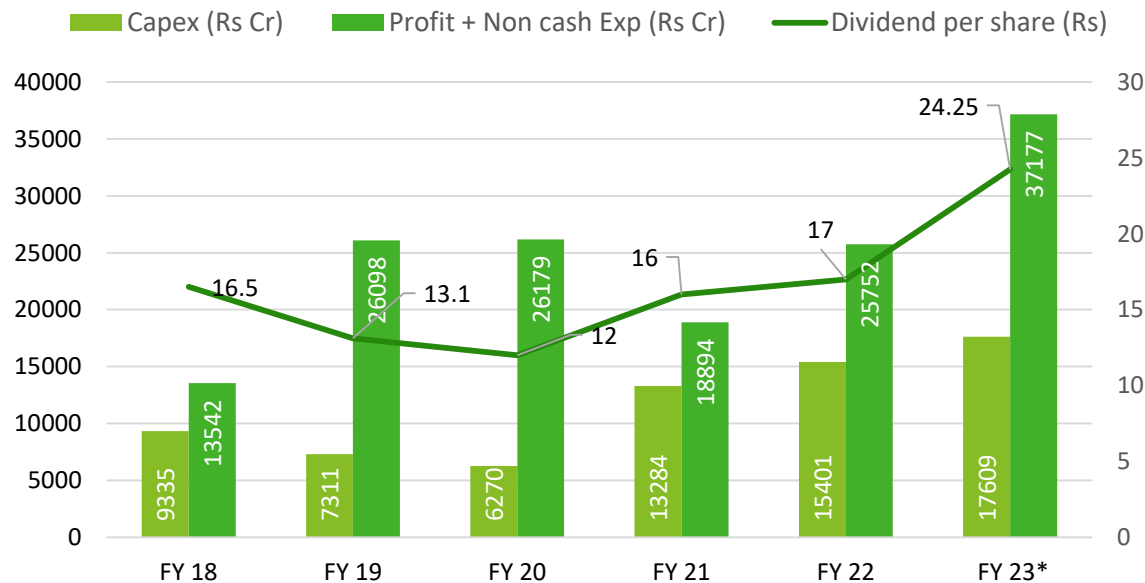


# Maximizing Shareholder Value and Returns



# Payout ratio is calculated as ratio of Dividend Declared to PAT.

\*Including Final Dividend of ₹ 4.00 per share for FY 22-23 which has been recommended by the Board subject to approval in the ensuing AGM and has been considered in the above.



**Note:** 'Profit + Non cash Exp.' is PAT + Depreciation + Stripping Activity Adjustment + Provisions + Write Off

As per SEBI LODR, the Board has approved the Dividend Distribution Policy. The Policy provides clarity to the shareholders on Dividend distribution framework to be adopted by the company.

CIL intends to payout maximum dividend post capex out of the cash profits

- CIL is regularly paying considerable dividend to its shareholders.
- CIL intends to pay free cash flow after capex as dividends annually.
- CIL intends to incur capex according to the demand growth in the long-term.
- FY 22-23 capex is ~INR 17,609 crore (Prov.) against target of INR 16,500 crore.
- Since IPO CIL has paid more than Rs. 1,39,699 Crores as Dividend.\*

## What should Investors expect?

- Sustained volume growth
- Good disclosures and compliances as per global standards
- Transparent payout policy
- Action on green commitments

# Coal India's Commitment on Carbon Emission and Climate Change

Despite absolute growth in India's demand for coal as per the IEA, Coal India is committed to support India's journey to achieve its Intended Nationally Determined Contributions (INDCs) by 2030 and utilize the opportunity to devise our own journey towards becoming a net zero company.

What does  
'Net Zero  
Emissions'  
mean for  
Coal India?

- CIL is a producer of coal and not an end user
- CIL's emissions footprint during production and transportation of coal, energy usage and adverse environmental impact due to mining of coal are the negative contributors
- Positive contributing factors - emission reduction through mechanized evacuation, cleaner transportation, reducing energy and water consumption, clean coal technologies, focus on renewables, enhancing green cover etc.
- CIL strives to achieve a 'Net Zero' sum of negative and positive contributing factors at the earliest

# Carbon Emission and Climate Change – Coal India's Objectives



*Support and contribute towards India's INDCs to reduce emissions*



*Reduce emissions in the most cost effective manner while ensuring India's energy security*

## Coal India's Objectives



*Expedite move towards better, environmentally-friendlier mining, clean coal technologies and renewables*



*Continue to responsibly play our role as provider of reliable, competitive, efficient, safe and secure domestic fuel source for growth of India's industries and for baseload power generation*

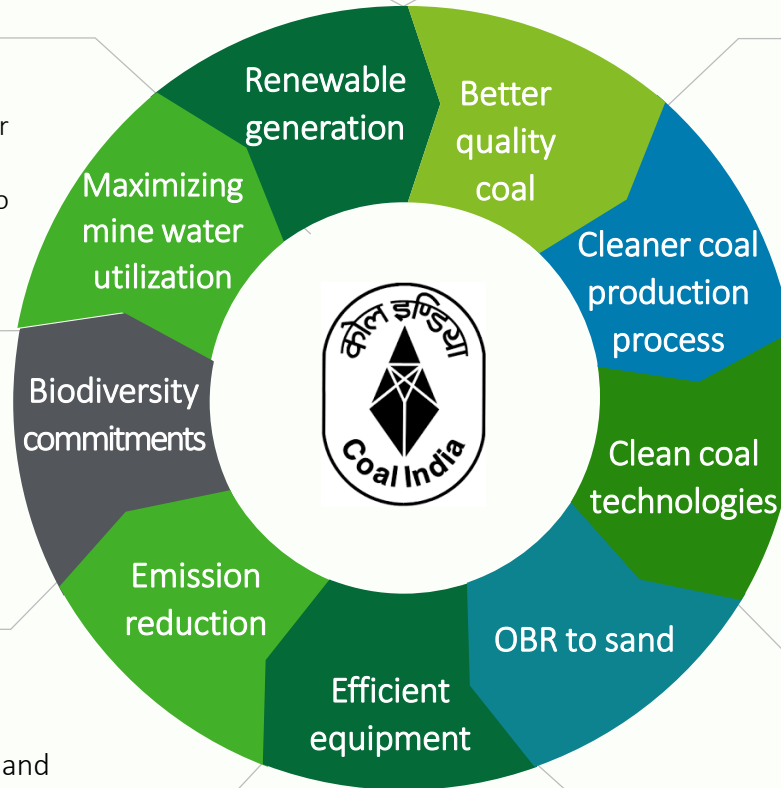
# Carbon Emission and Climate Change – How CIL aims to contribute and move towards a ‘Net Zero Emission’ Company

- Both for captive and non-captive power requirement. Aim at 3GW of RE capacity by FY 25-26.

- Utilize mine water more efficiently.
- More than 2691 Lakh KL mine water has been shared for community use in FY 2022-23.
- Additionally, 1081 Lakh KL mine water has been offered to State of Jharkhand.

- Enhancing green cover at all locations to counter negative impact on environment
- Plantation has been carried over 1613 Ha in FY 2022-23 against the annual target of 1510 Ha

- Control of CO<sub>2</sub> emission from operations.
- Massive Plantation in and around mining areas
- Adoption of new technology for coal production and dispatch of coal



- Higher OBR to improve quality of coal with lower impurities producing lower pollutants when burnt

- FMC projects, coal evacuation by conveyor belts and transportation through railways to minimize particulate matter and exhaust gases, reducing carbon footprint and water usage.
- Closing unviable mines with lower quality coal

- Coal gasification
- Coal-to-liquid
- Coal mine methane
- Coal bed methane
- Coal washeries

- Optimize over burden usage
- Prevent mining / dredging of nearby rivers

- Investment in procuring machines which are more efficient and productive, having lower carbon footprint



**Coal India Limited**  
A Government of India Undertaking  
A Maharatna Company



Pisciculture at Bishrampur Opencast Mine, SECL



**Q4 & FY 22-23 Results**



# FY 22-23 Operational Highlights

Strong performance on all fronts

Scripting a new record, CIL achieved highest ever Coal Production , Offtake & OBR during FY 22-23

Production  
(Raw coal)

703.2 million tons

(622.6 million tons in FY 21-22)

Offtake  
(Raw coal)

694.7 million tons

(661.9 million tons in FY 21-22)

OBR

1656.9 Million CuM

(1362.1 Million CuM in FY 21-22)

Average Realization

INR 1,835 per ton

(INR 1,518 per ton in FY 21-22)

Manpower  
(as on 01.04.2023)

2,39,210

(2,48,550 as on 01.04.2022)

Health & Safety  
( Accident Statistics #)

Fatal Injuries reduced by 31% ( 20 in CY 2022 from 29 CY 2021)

Fatality Rate per million tons of coal production reduced by 40% (i.e. 0.028 in CY 2022 from 0.047 CY 21 )

# FY 22-23 Financial Highlights

CIL achieved highest ever PBT , PAT & Net Sales in FY 22-23

Sales (Net)

INR 1,27,627 crores

(INR 1,00,563 crores in FY 21-22)

EBITDA\*

INR 40,291 crores

(INR 26,974 crores in FY 21-22)

PBT @

INR 38,001 crores

(INR 23,616 crores in FY 21-22)

EPS

INR 45.70 per share

(INR 28.17 per share in FY 21-22)

EBITDA margin

32 %

(27 % in FY 21-22)

CAPEX #

INR 17,609 crores

(INR 15,401 crores in FY 21-22)

Net worth  
(31.03.2023)

INR 57,225 crores

(INR 43,124 crores as on  
31.03.2022)

Fund balance  
(31.03.2023)

INR 43,415 crores

(INR 35,964 crores as on  
31.03.2022)

Net Receivables  
(31.03.2023)

INR 13,060 crores

(INR 11,368 crores as on  
31.03.2022)

\* EBITDA has been calculated by adjusting (adding back) with profit before tax the finance cost, depreciation / amortization / impairment and deducting interest income.

# Provisional

@ After provisioning an amount of Rs. 8152.75 Crores in FY 22-23 vis-à-vis Rs. 1080.97 Crores in FY 21-22 towards National Coal Wage Agreement- XI for the salary of Non-Executives.

# Q4 FY 22-23 Financial Highlights

## CIL achieved highest ever Quarterly Net Sales in Q4 FY 22-23

Sales (Net)

INR 35,161 crores

(INR 29,985 crores in Q4 21-22)

EBITDA\*

INR 8,293 crores

(INR 10,205 crores in Q4 21-22)

PBT @

INR 7,642 crores

(INR 9,335 crores in Q4 21-22)

EPS

INR 8.98 per share

(INR 10.86 per share in Q4 21-22)

EBITDA margin

24 %

(34 % in Q4 21-22)

Capex

INR 5,809 crores

(INR 4,684 crores in Q4 21-22)

\* EBITDA has been calculated by adjusting (adding back) with profit before tax the finance cost, depreciation / amortization / impairment and deducting interest income.

@ After provisioning an amount of Rs. 5,870.16 Crores in Q4 22-23 vis-à-vis Rs. 475.28 Crores in Q4 21-22 towards National Coal Wage Agreement- XI for the salary of Non-Executives.

# Consolidated Statement of Sales

Particulars	FY 22-23			FY 21-22		
	Quantity (million tons)	Net sales (INR crores)	Avg. realization (INR per ton)	Quantity (million tons)	Net sales (INR crores)	Avg. realization (INR per ton)
FSA	620.71	91,550.91	1,474.93	540.20	75,956.86	1,406.08
E-Auction	62.32	30,171.90	4,841.14	110.80	20,824.59	1,879.42
Sale of Imported Coal	0.36	469.74	13,158.04	--	--	--
<b>Total raw coal</b>	<b>683.39</b>	<b>1,22,192.55</b>	<b>1,788.02</b>	<b>651.01</b>	<b>96,781.45</b>	<b>1,486.65</b>
Washed coal (coking)	2.13	2,151.40	10,105.21	1.70	1,290.81	7,588.54
Washed coal (non coking)	5.25	1,547.34	2,946.75	5.65	1,171.59	2,074.71
<b>Total washed coal</b>	<b>7.38</b>	<b>3,698.74</b>	<b>5,011.84</b>	<b>7.35</b>	<b>2,462.40</b>	<b>3,351.12</b>
Other by products	4.80	1,736.18	3,616.29	3.95	1,318.71	3,335.97
<b>Grand total</b>	<b>695.58</b>	<b>1,27,627.47</b>	<b>1,834.85</b>	<b>662.31</b>	<b>1,00,562.56</b>	<b>1,518.37</b>

# Consolidated Financial Performance – Statement of Profit & Loss

Particulars (in INR crore)	FY 22-23	FY 21-22	% change
Revenue from operations	1,38,251.91	1,09,715.42	26.01%
Other income	6,550.66	3,881.41	68.77%
<b>Total income</b>	<b>1,44,802.57</b>	<b>1,13,596.83</b>	<b>27.47%</b>
Cost of materials consumed	13,557.00	9,443.51	43.56%
Purchases of Stock-in-Trade	469.74	103.56	353.59%
Changes in inventories	-678.12	2,308.49	--
Employee Benefits Expense	49,409.16	40,473.21	22.08%
Power Expense	2,759.89	2,638.46	4.60%
CSR expense	586.50	548.98	6.83%
Repairs	1,772.28	1,632.33	8.57%
Contractual Expense	23,289.21	18,875.16	23.39%
Finance Costs	684.31	541.49	26.38%
Depreciation/Amortization/ Impairment expense	4,675.27	4,428.67	5.57%
Provisions	374.93	172.77	117.01%
Write off	192.60	11.56	1566.09%
Stripping activity adjustment	3,809.11	3,760.86	1.28%
Other expenses	5,891.74	5,032.91	17.06%
<b>PBT before share of JVs/associates</b>	<b>38,008.95</b>	<b>23,624.87</b>	<b>60.89%</b>
Share of JVs/associates	-8.14	-8.59	5.24%
<b>PBT</b>	<b>38,000.81</b>	<b>23,616.28</b>	<b>60.91%</b>
Tax	9,875.87	6,237.86	58.32%
<b>Profit for the period</b>	<b>28,124.94</b>	<b>17,378.42</b>	<b>61.84%</b>
Other comprehensive income	264.63	51.31	415.75%
<b>Total comprehensive income</b>	<b>28,389.57</b>	<b>17,429.73</b>	<b>62.88%</b>

# Consolidated Financial Performance – Balance Sheet

Particulars (in INR crore)	As at 31.03.2023	As at 31.03.2022	% change
<b>Assets</b>			
<u>Non current assets</u>			
Property, Plant & Equipment	44,447.97	42,697.79	4.10%
Capital Work in Progress	15,262.62	12,713.73	20.05%
Exploration and Evaluation assets	4,924.85	3,873.55	27.14%
Intangible assets	2,588.11	105.62	2350.40%
Intangible assets under development	2,359.35	183.41	1186.38%
Investments	3,085.40	2,426.97	27.13%
Loans	372.21	355.47	4.71%
Other financial assets	16,300.29	14,498.79	12.43%
Deferred Tax Assets (Net)	4,177.00	4,128.42	1.18%
Other Non current assets	9,606.15	6,407.94	49.91%
<b>Total non current assets</b>	<b>1,03,123.95</b>	<b>87,391.69</b>	<b>18.00%</b>
<u>Current assets</u>			
Inventories	8,154.68	7,075.68	15.25%
Investments	4,054.01	6,493.63	-37.57%
Trade receivables	13,060.48	11,367.68	14.89%
Cash & cash equivalents	5,665.38	7,063.48	-19.79%
Other bank balances	34,256.47	22,901.75	49.58%
Loans	20.79	0.32	--
Other financial assets	2,716.96	2,620.91	3.66%
Current tax assets (Net)	8,719.00	8,423.19	3.51%
Other current assets	31,434.93	26,899.35	16.86%
<b>Total current assets</b>	<b>1,08,082.70</b>	<b>92,845.99</b>	<b>16.41%</b>
<b>Total Assets</b>	<b>2,11,206.65</b>	<b>1,80,237.68</b>	<b>17.18%</b>

# Consolidated Financial Performance – Balance Sheet



कोल इण्डिया लिमिटेड  
Coal India Limited  
भारत सरकार का उपक्रम  
A Government of India Undertaking  
एक महारत्न कंपनी A Maharatna Company

Particulars (in INR crore)	As at 31.03.2023	As at 31.03.2022	% change
<b>Equities and liabilities</b>			
<b>Equity</b>			
Equity share capital	6,162.73	6,162.73	--
Other equity	51,082.16	36,980.31	38.13%
<b>Equity attributable to equity holders</b>	<b>57,244.89</b>	<b>43,143.04</b>	<b>32.69%</b>
Non-Controlling interests	770.68	673.79	14.38%
<b>Total equity</b>	<b>58,015.57</b>	<b>43,816.83</b>	<b>32.40%</b>
<b>Liabilities</b>			
<b>Non-Current Liabilities</b>			
Borrowings	4,106.25	3,301.78	24.36%
Lease Liabilities	157.00	159.66	-1.67%
Other Financial Liabilities	3,207.57	2,477.84	29.45%
Provisions	68,827.95	65,944.00	4.37%
Deferred Tax Liabilities (Net)	1,330.68	801.35	66.05%
Other Non-Current Liabilities	6,826.99	6,527.71	4.58%
<b>Total Non-Current Liabilities</b>	<b>84,456.44</b>	<b>79,212.34</b>	<b>6.62%</b>
<b>Current liabilities</b>			
Borrowings	8.48	7.98	6.27%
Lease Liabilities	59.69	44.22	34.98%
Trade payables			
Total outstanding dues of MSMEs	53.90	42.54	26.70%
Other than MSMEs	8,495.28	8,560.99	-0.77%
Other Financial Liabilities	12,815.19	11,431.07	12.11%
Other Current Liabilities	32,313.94	30,897.32	4.58%
Provisions	14,963.38	6,224.39	140.40%
Current Tax Liabilities (Net)	24.78	-	--
<b>Total Current Liabilities</b>	<b>68,734.64</b>	<b>57,208.51</b>	<b>20.15%</b>
<b>Total Equity and Liabilities</b>	<b>2,11,206.65</b>	<b>1,80,237.68</b>	<b>17.18%</b>



कोल इण्डिया लिमिटेड  
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एक महारत्न कंपनी | A Maharatna Company

# Peek into our ESG initiatives

Plantation on an overburden dump at Kakri area of Northern Coalfields Limited in Uttar Pradesh



# ESG – Committed to continuous improvement

## Environment initiatives

- Coal evacuation and FMC projects will help reduce air pollution and environmental impact.
- Mine closure plan is an integral part of the project report for Coal mines, which also forms a part of the EIA/EMP.
- All opencast mines as per their EC Conditions have commissioned effluent treatment plants.
- CIL's efforts to make water available to communities around its mining areas benefited more than 11.1 Lakh people in 2022-23.
- In order to become Net Zero Energy company CIL proposes to execute Solar Projects to generate 3 GW of solar energy.

## Social initiatives

- Fatal Injuries reduced by 31% ( 20 in CY 2022 compare to 29 in CY 2021)
- Total Injuries (F+S) reduced by 4.4% ( 86 in CY 2022 compare to 90 in CY 2021)
- Fatality rate per million tonne of coal production reduced by 40% ( 0.028 in CY 2022 compare to 0.047 in CY 2021)
- Video Clips / Short Animation Films on Mine Accidents , Best Safety Practices and Do's & Don'ts on Mine Safety prepared and shared amongst employees for enhancing safety awareness.
- Personal Safety Counselling/Family counselling/Safety Drive/Safety Campaign/Health Counselling and camp are being regularly organized.
- More than Rs. 4500 cr. cumulative expenditure booked in CSR since FY16 (Rs. 586.50 cr. in FY 22-23).
- Major focus on National Priority Themes such as Healthcare & Nutrition, Education & Livelihood, Rural Development and Disaster Management.
- Focus on peripheral areas – at least 80% fund is spent within 25 kms. of mines as per policy

## Governance initiatives


- With an objective of becoming an efficient and modern dynamic organization, CIL has deployed **SAP ERP System** in CIL and its Subsidiaries.
- CIL **adheres to all regulatory norms** and **meets the necessary compliances**. Before operationalizing of any new project, CIL ensures that necessary clearances (including environmental clearances and forest clearances) have been obtained.


**Environmental issues** include company's commitment on afforestation, reducing energy use, waste, pollution and conservation of natural resources especially land, forests etc.


**Social issues** include company's business relationships with suppliers, customers, stakeholders, local community and working conditions for its employees - their health & safety.


**Governance issues** includes accurate and transparent accounting methods, listening to stockholder's opinions, refraining from contribution for undue favourable treatment and abhorrence of illegal practices.

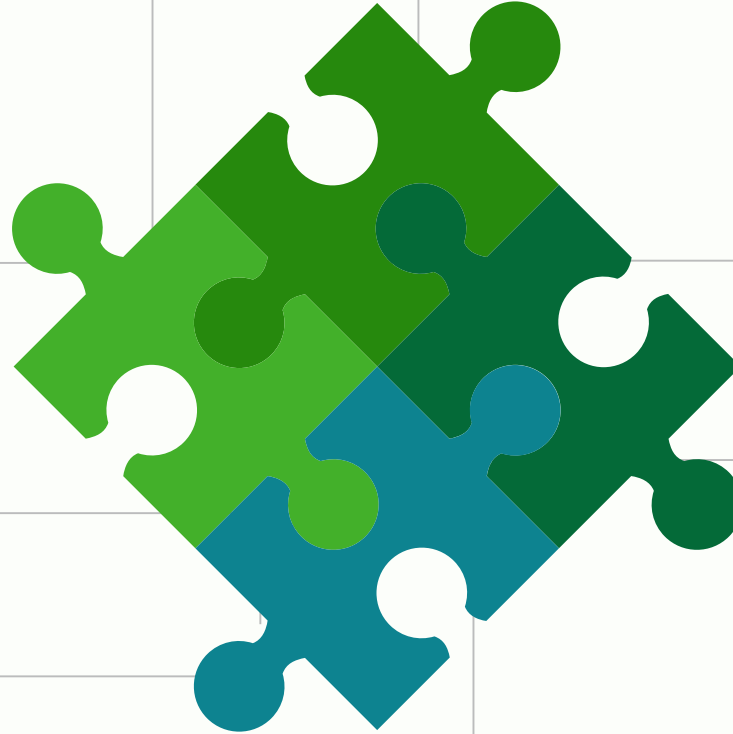
# Environmental Highlights


 2691 Lakh KL mine water has been shared for community use in 2022-23.


 Irrigated 837 villages with more than 11.1 Lakh beneficiaries in FY 2022-23

 Added 3 no. of Eco Parks in FY 2022-23 making the total to 30 no. of Eco-Parks & Eco-Tourism Projects


 In FY 2022-23, plantation has been carried out in more than 1613 Ha land area.



 In FY 2022-23, out of discharged 5,974.6 Lakh KL, 92.44% water was utilized for own use and community use and remaining 7.56% is retained for future use and ground water recharging.

 CIL is developing 3,000 MW solar power projects by FY 25-26

 440 Rainwater harvesting projects

 35 FMC Projects of 414.5 MTY capacity is being built in 1st Phase. Seven (07) FMC Projects of 92 MTPA capacity have been commissioned till date.

*(PG Test for Jayant FMC (15 MTPA) commenced from 09.01.2023 and targeted to be completed by Jun-23).* The balance remaining projects are anticipated to be completed by FY 24-25.

# Social and CSR Initiatives

## Social Highlights



19794

Female employees working in CIL and its Subsidiary companies



1 : 1

Remuneration at CIL for Women & Men, focusing on gender equality

## CSR Goals



Good Health & Well Being



Decent work & Economic growth



Clean Water & Sanitation



No Poverty



Gender Equality



Reduce Inequality



Quality Education

01

Ensuring affordability of healthcare by improving Healthcare infrastructure in remote areas and providing last mile healthcare services

02

Rural development initiatives by construction of bridges/culverts/roads to improve connectivity and ensuring water supply/sanitation

03

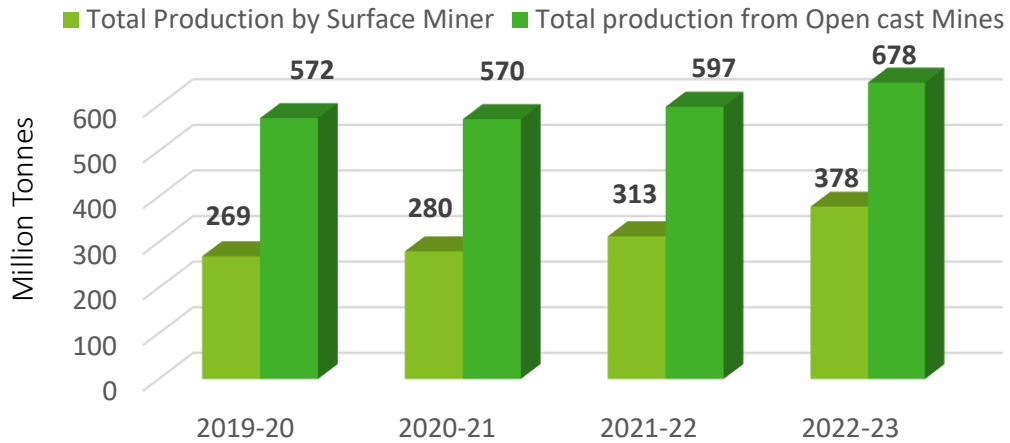
Enhancing accessibility of quality education and skill development to improve learning outcome and livelihood opportunities

04

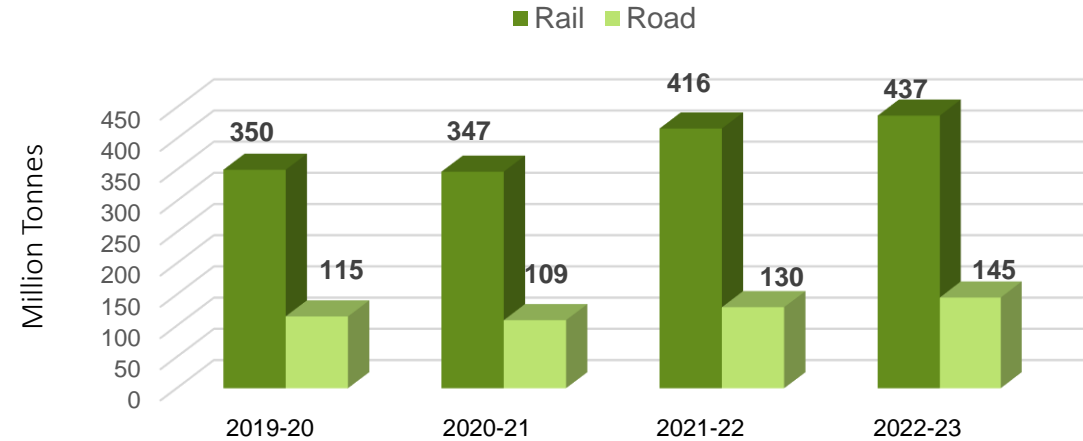
Promotion of sports, Disaster management & relief and environmental sustainability are other focus themes

# Committed to a Cleaner Environment

Production of Coal by Surface Miners



Rail and Road share of Coal Transportation



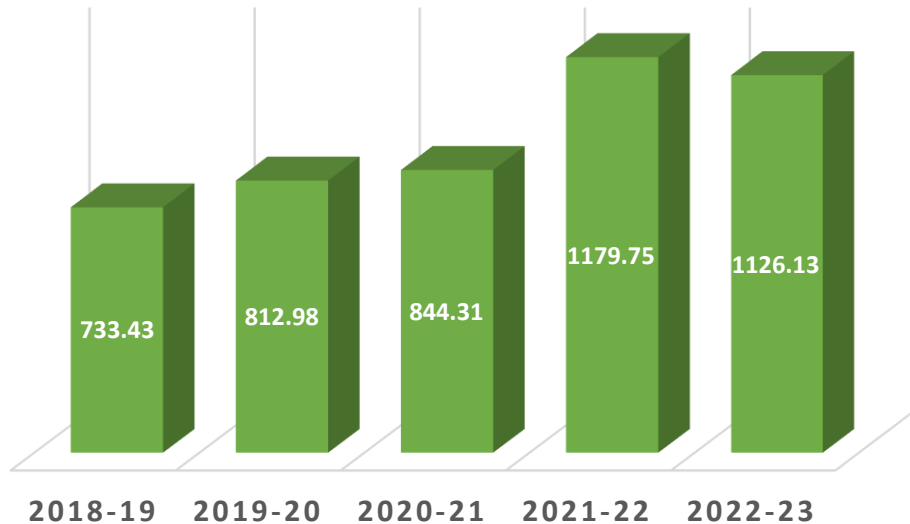
## Details of subsidiary-wise Solar installations

Subsidiary & Location	Type of Solar Installation	Installed Solar Projects
ECL	Roof-top Solar	1046 kWp
BCCL	Roof-top Solar	1310 kWp
CCL	Roof-top Solar	1247.5 kWp
WCL	Roof-top Solar	2000 kWp
SECL	Roof-top Solar	580 kWp

Subsidiary & Location	Type of Solar Installation	Installed Solar Projects
CIL HQ	Roof-top Solar	160 kWp
CMPDIL HQ and Regional institutes	Roof-top Solar	1250 kWp
MCL HQ	Ground mounted & Rooftop Solar	3210 kWp
NCL	Roof-top Solar	470 kWp

# Biodiversity Management and Occupational Health & Safety

PLANTATION WITHIN MINE LEASEHOLD AREA(HA)

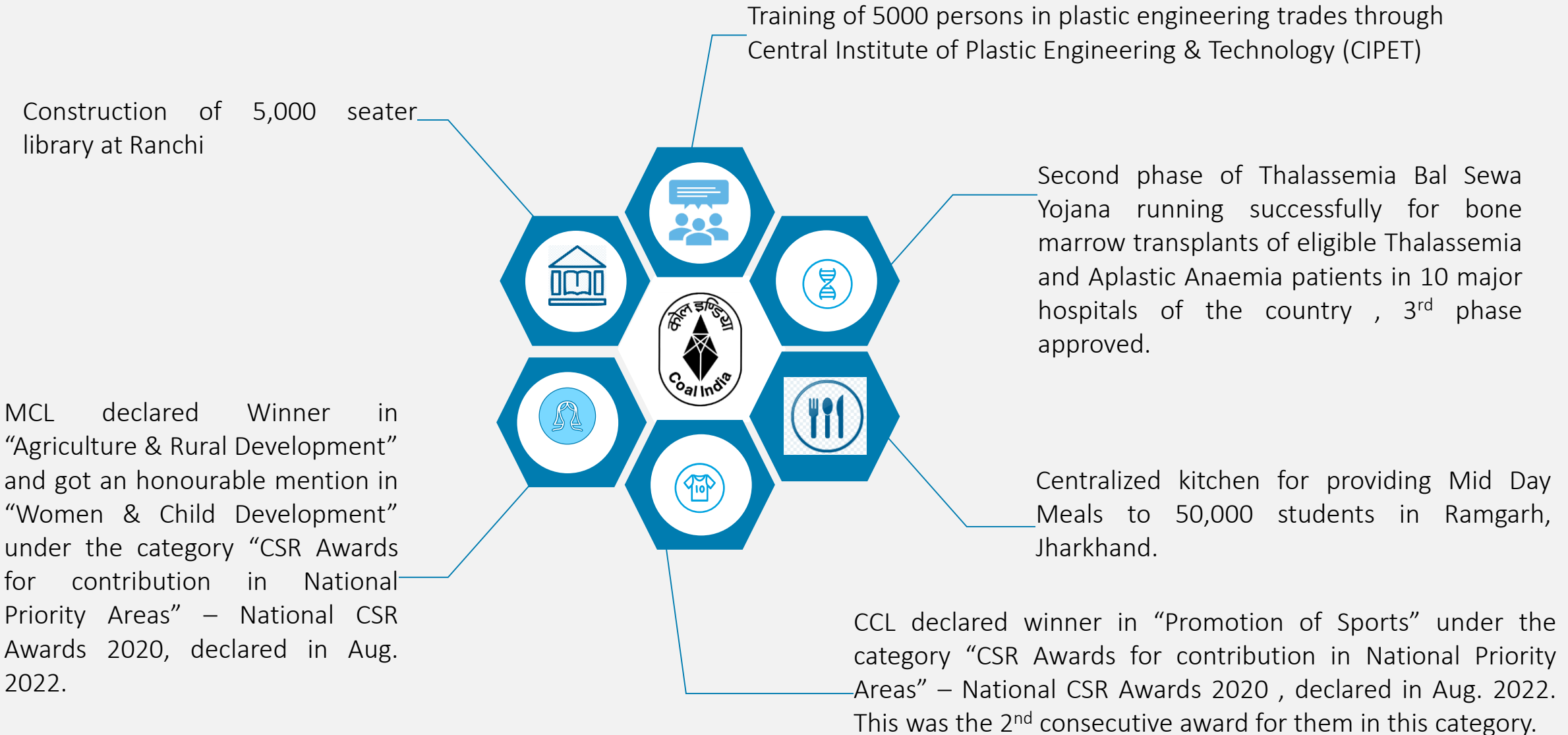


- Plantation has been carried over 1613 Ha in 2022-23 against the annual target of 1510 Ha
- During 2018-19 to 2022-23, CIL planted 110.74 Lakh no. of saplings over an area of more than 4,697 Ha in mine leasehold area.
- In addition to the above, during the same period, CIL planted 12.12 Lakh no. of saplings over an area of more than 1019 Ha outside the mine leasehold area.

Indicators	2018	2019	2020	2021	2022 #
Fatalities (nos.)	43	34	30	29	20
Fatality rate (per MT of coal production)	0.07	0.06	0.05	0.05	0.028
Serious injuries (nos.)	96	90	80	61	66
Serious injury rate (per MT of coal production)	0.16	0.15	0.13	0.10	0.10

# Accident Statistics are maintained calendar-year-wise in conformity with DGMS practice, CIL has achieved the lowest ever fatality in the year 2022 since its inception in 1975.

# Corporate Social Responsibility



# Notable CSR Initiatives in recent years



MCL has constructed Mahanadi Institute of Medical Sciences & Research (MIMSR) at Talcher, Angul district, Odisha which is a 500 bedded hospital cum 100 seater medical college



SECL has supported procurement and installation of 782 nos. of smart class equipment in different govt. schools located in its operational districts to enhance the learning experience and outcome of the students



CIL has trained 5,000 youth (mostly for peripheral areas) in plastic engineering related trades through Central Institute of Petrochemicals Engineering & Technology (CIPET). The programme has more than 80% placement with starting salary of more than Rs. 10,000 per month.



NCL has improved connectivity of more than 65 villages benefitting around 1.5 lakh people. A total of 210 kms. of roads have been constructed at a cost of Rs. 108 cr.



# Notable CSR Initiatives in recent years (Contd...)



NCL is empowering tribal women of Singrauli through its Small Holder Poultry Project. Women are given financial assistance for poultry shed and buying chicken initially and the units become self-sufficient after 2/3 cycles. The project has helped women earn upto Rs. 3,500 p.m. thereby increasing their say in the household matters.



Around 250 students have secured admissions in good engineering colleges like IITs, NITs and other reputed engineering colleges through the CCL Ke Lal & CCL Ki Ladli initiative of CCL under which coaching for engineering entrance examinations with accommodation and food is provided free of cost.



CCL in association with Govt. of Jharkhand is running a sports academy in Ranchi for identification and grooming of sports talents from Jharkhand. Along with sports education, formal schooling with accommodation and food is provided to the cadets.



CIL published a Coffee Table Book “Coal India wins over COVID” documenting the efforts of Coal Indians to fight off challenges posed by the Covid-19 pandemic. The book was inaugurated by the Hon’ble Minister (Coal).





# Notable CSR Initiatives in recent years (Contd...)



Thalassemia Bal Sewa Yojana (TBSY) is a first of its kind CSR project under which CIL has joined hands with 10 major hospitals of the nation under the guiding framework of Ministry of Health & Family Welfare, Govt. of India to provide ₹ 10 lakh per BMT of eligible Thalassemia and Aplastic Anemia patients. The scheme is running successfully since 2017 and has saved more than 326 lives so far. 3<sup>rd</sup> phase of the scheme has been approved by CIL Board.



CIL is supporting skill development of 540 youth from peripheral areas in Jharsuguda and Rajmahal areas. Overall, CIL & subsidiaries have approved projects for training 14,377 persons in 22-23 in market oriented/livelihood development trades. Most of the skill development trainings are residential. Gender parity and preference to vulnerable groups is especially taken care of.



Comprehensive Community Development Programme (CCDP) Utthan project of MCL for 8,000 families in MCL command districts is creating additional income through Agro-forestry and backyard poultry. Existing participants have started earning from intercropping to the scale of ₹ 20,000-30,000 a year. Further, carbon sequestration potential from the plantation is offering added environmental benefit.



SOCIAL RESPONSIBILITY

CIL and CCL successfully organized “CSR & Sustainability Conclave 2022” at Ranchi on 6th & 7th May 2022. Twelve thought leaders shared their valuable insights with the audience. About 250 participants attended the event which included top management and senior executives of the company, CSR executives from all across CIL and students of reputed colleges such as IIM.



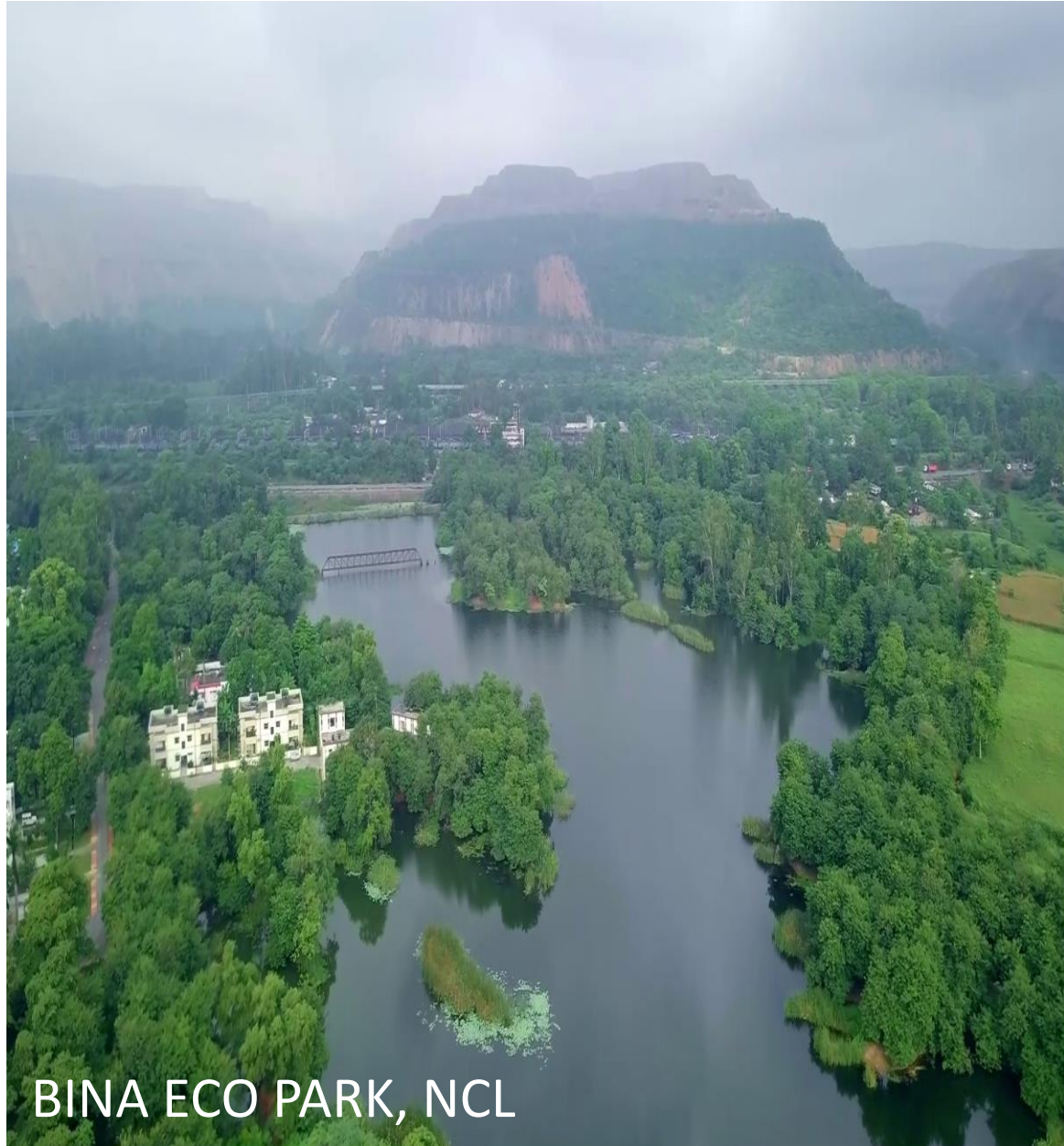
"कृत्य से कर्तव्य तक"

# Initiatives to mitigate COVID – 19

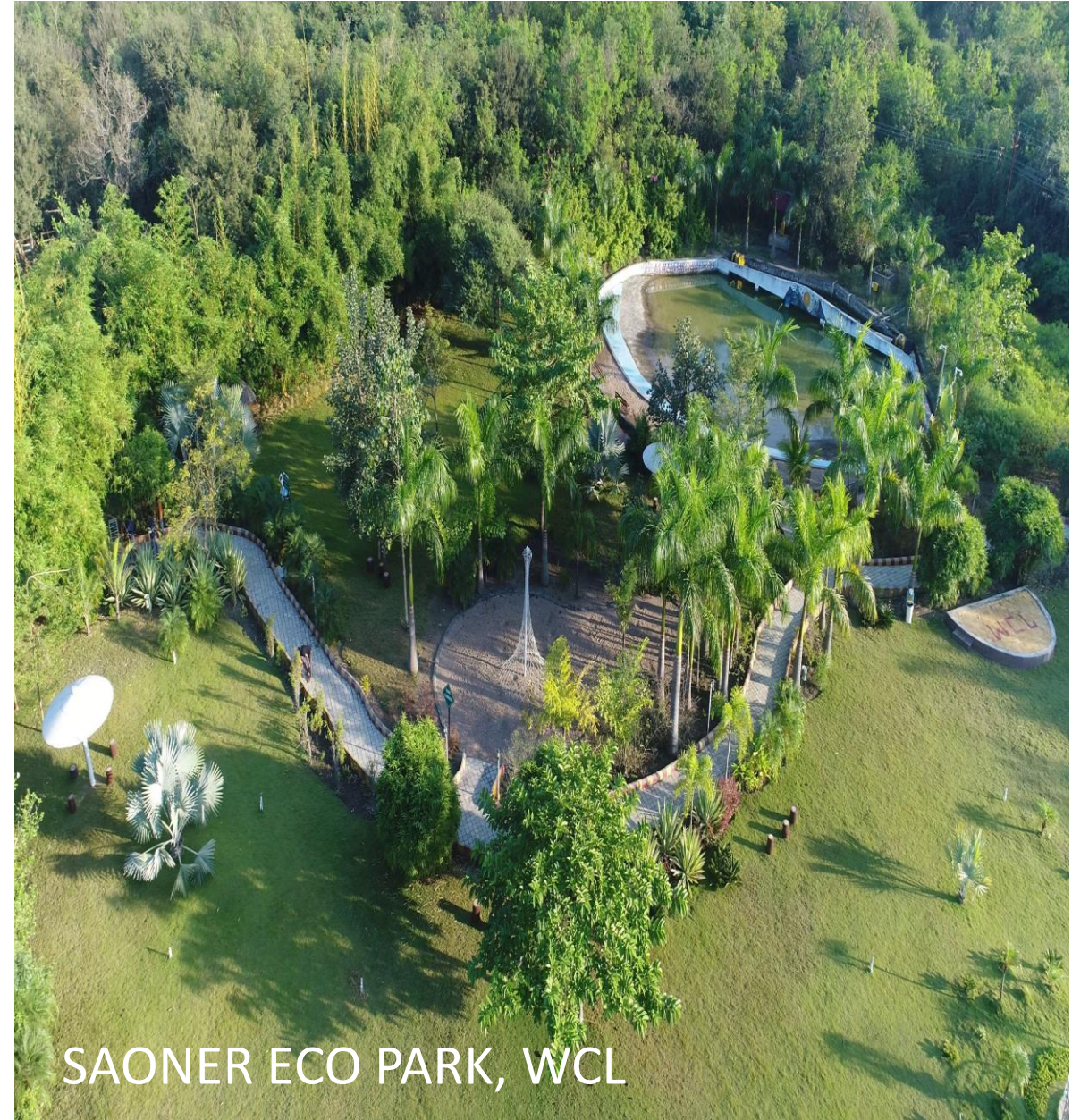


- CIL and subsidiaries have spent Rs. 734 cr. in total on COVID-19 relief during FY 19-20 to FY 21-22
- CIL had contributed Rs. 221 crores to PM-CARES fund for supporting COVID-19 relief measures.
- In addition, Rs. 90 crores in total have been contributed to the disaster management authorities/relief funds of West Bengal, Maharashtra, Chattisgarh, Madhya Pradesh and Jharkhand.
- 31 medical oxygen plants with a total outlay of Rs. 45.93 cr. set up under “Mission Praan Vayu” in FY 21-22.
- MCL has funded a 1250 bed COVID hospital in Bhubaneswar for COVID treatment and a 150 bed hospital at Talcher.
- ECL has set up 200 bedded COVID hospital at Godda, Jharkhand
- SECL has converted Govt. hospitals of Bilaspur & Ambikapur into 100 bedded COVID treatment centers with testing labs
- NCL has provided 50 ambulances in Uttar Pradesh
- CIL has converted 100 general beds into ICU beds at Karnataka Institute of Medical Sciences (KIMS), Hubballi, Karnataka
- Over 5.5 lakh food packets, over 19.5 lakh masks and over 84,000 liters of hand sanitizers have been distributed during the pandemic
- CIL and SECL together have handed over 111 Ice Lined Refrigerators, 121 Deep Freezers, 1 Walk-in Freezer and 2 refrigerated trucks in total to the Govt. of West Bengal, Chattisgarh and Meghalaya to help transport COVID-19 vaccines.

# ENVIRONMENTAL HIGHLIGHTS



BINA ECO PARK, NCL



SAONER ECO PARK, WCL

# Environmental Highlights

CIL undertook extensive plantation along avenues, on OB dumps, around mines & residential colonies to maintain the ecological balance in & around its operations.

MCL & NCL have developed Miyawaki forest in their command area covering 4.5 Ha and 2.5 Ha land respectively in FY 2022-23. This technique involves planting dozens of native species in the same area which results in 30 times denser than usual, 10-time quicker growth.

CIL has always endeavored to create an ecological balance in and around its operations. In an effort to become a valuable part of the ecosystem, CIL has developed 30 Ecological Parks/Mine Tourism/Eco-Restoration sites till FY23.

During FY2022-23, three (03) no. of Eco Parks have already been developed.

CIL has planned to develop 39 Eco-parks within the 5 years period from FY 2021-22 to FY 2025-26.

SECL transformed its abandoned quarry no. 6 of its Bishrampur open cast mine into a pisciculture and water sports centre. It has not only created livelihood for local people from pisciculture, boating and running of the restaurant but also enriched the ecology and surrounding biodiversity.



# Environmental Highlights



A reclamation drive, using grassing/cropping method, was carried out over the external OB dump on an area of 75 Ha in Bhubaneswari OCP during FY 2021-22. The grassing/cropping was carried out by planting and sprinkling red grams bamboo seeds over the OB dump.



To promote mine tourism and create a tourism-based source of income for the local communities around the identified Eco-Tourism parks, NCL, a subsidiary of CIL, signed an MoU with Madhya Pradesh State Tourism Development Corporation (MPSTDC) in August 2021 with an objective to link all bio-diversity hotspots of the Singrauli region (i.e., Son-Ghariyal Sanctuary, Bagdara Sanctuary, Sanjay Dubri Tiger Reserve, Mada caves, etc.), mine tourism, village tourism, etc. with both state and national tourism bodies.



# Thank You