

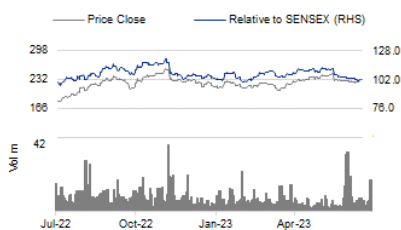
India

REDUCE (previously ADD)

Consensus ratings*:	Buy 14 Hold 3 Sell 6
Current price:	Rs232
Target price:	Rs209
Previous target:	Rs233
Up/downside:	-9.9%
InCred Research / Consensus:	-21.0%
Reuters:	
Bloomberg:	COAL IN
Market cap:	US\$19,660m
	Rs1,427,596m
Average daily turnover:	US\$22.9m
	Rs1663.0m
Current shares o/s:	6,162.7m
Free float:	36.9%
*Source: Bloomberg	

Key changes in this note

- We downgrade our rating on the stock to REDUCE (ADD earlier) with a lower target price of Rs209.



Source: Bloomberg

Price performance	1M	3M	12M
Absolute (%)	0.3	5.2	26.4
Relative (%)	(3.8)	(4.6)	3.2

Major shareholders	% held
Promoter & Promoter Group	63.1
LIC India	11.0
Nippon Life India	3.0

Analyst(s)



Satish KUMAR
 T (91) 22 4161 1562
 E satish.kumar@incredcapital.com
Abbas PUNJANI
 T (91) 22 4161 1598
 E abbas.punjani@incredcapital.com

Coal India

The trade is over – downgrade to REDUCE

- Coal India's e-auction prices are likely to fall below Rs2,500/t in the coming months as thermal coal prices in the global market have declined to US\$100/t.
- In 2022, surplus coal production was the highest in the last 23 years. Coupled with soft demand, it will ensure ~US\$100/t(6,200Kcal) price for many quarters.
- We have cut FY24F and FY25F EPS by 46% and 15.3%, respectively. Downgrade our rating on the stock to REDUCE with a lower TP of Rs209.

Global coal production outstrips demand, driving prices down

The global energy panic in 2022 led to a surge in coal production as Europe navigated through an energy crisis. Countries around the world produced more coal than they needed, leading to a global surplus of coal, exerting downward pressure on prices. Global coal consumption has been less than its production for the past five years, which means there is already more coal supply in the market than its demand. The recent surge in coal production has only exacerbated this imbalance. The overproduction of coal in 2022 was the highest in the past decade, indicating that the current surplus is likely to persist for some time. A combination of these factors has created a perfect storm for falling coal prices, leading to a significant impact on the global energy market.

EU has sufficient gas supply—panic coal buying, like CY22, is unlikely

European coal demand did not increase significantly in the wake of the Russia-Ukraine, war, but panic buying by EU countries (particularly Germany) led to sky-high prices. Most European consumers were buying high-quality South African coal, which led to the high prices. The price of 6,000 Kcal of coal, which was once trading at US\$375/t, has fallen back to the US\$100 level. We wouldn't be surprised if the prices decline significantly below US\$100. European gas storage is filled to the highest level at this time of year, and the incremental consumption of imported gas is also declining. Europe has managed to reduce its energy consumption significantly, which reduces the requirement of coal for power generation. Finland has witnessed the largest decline in demand among European countries. Germany's industrial demand appears to be at last year's level, but household demand is still declining. It was not at all expected that Europe would be able to reduce its consumption significantly. However, a combination of factors like panic buying, and higher coal production led to lower coal prices. This is exerting downward pressure on Indian e-auction coal prices, which is negative for Coal India.

Downgrade to REDUCE; 1QFY24F PAT to decline by 36% YoY

We have downgraded our rating on Coal India to REDUCE (ADD earlier) and have valued the stock at 10x FY25F EPS to arrive at our lower target price of Rs209. We also assume that from FY24F, e-auction prices will fall to Rs2,000/t and thus, we have cut our EPS estimates. 1QFY24F PAT is likely to decline by 36% YoY as e-auction coal prices will moderate. Falling coal prices are good for cement companies. Upside risk: Lower-than-expected wage hike for employees.

Financial Summary	Mar-22A	Mar-23A	Mar-24F	Mar-25F	Mar-26F
Revenue (Rsm)	1,097,135	1,382,519	1,320,962	1,348,144	1,426,585
Operating EBITDA (Rsm)	246,905	368,179	216,866	181,803	191,892
Net Profit (Rsm)	173,784	281,249	151,957	128,723	139,520
Core EPS (Rs)	28.2	45.6	24.7	20.9	22.6
Core EPS Growth	36.8%	61.8%	(46.0%)	(15.3%)	8.4%
FD Core P/E (x)	8.21	5.08	9.39	11.09	10.23
DPS (Rs)	12.5	12.5	12.5	12.5	12.5
Dividend Yield	5.40%	5.40%	5.40%	5.40%	5.40%
EV/EBITDA (x)	4.37	2.73	4.12	4.26	3.32
P/FCFE (x)	11.86	5.61	5.26	7.04	6.45
Net Gearing	(75.7%)	(68.7%)	(79.9%)	(90.9%)	(101.4%)
P/BV (x)	3.31	2.49	2.21	2.04	1.87
ROE	43.6%	56.0%	24.9%	19.1%	19.1%
% Change In Core EPS Estimates					
InCred Research/Consensus EPS (x)					

SOURCE: INCRED RESEARCH, COMPANY REPORTS

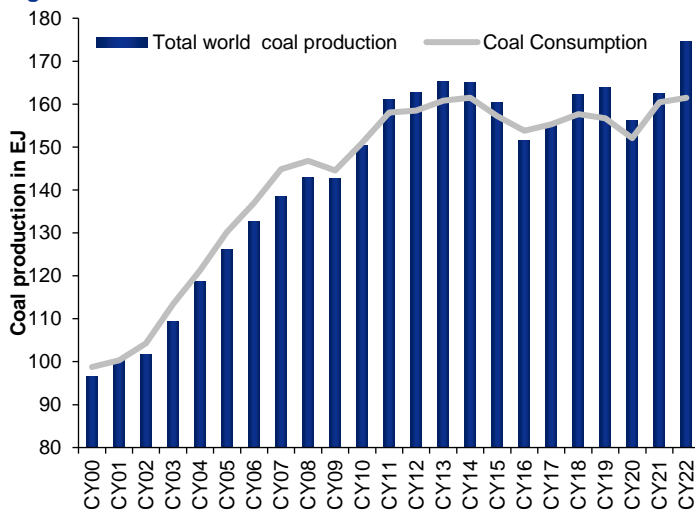
The trade is over – downgrade to REDUCE

Correcting global coal prices will lead to stress on e-auction prices, which is negative for Coal India. The best time to buy Coal India is when FSA (fuel supply agreement) and e-auction converge. In the past five years, this has happened twice and at both the times Coal India has given 50% returns.

Global energy panic led to huge coal production in CY22

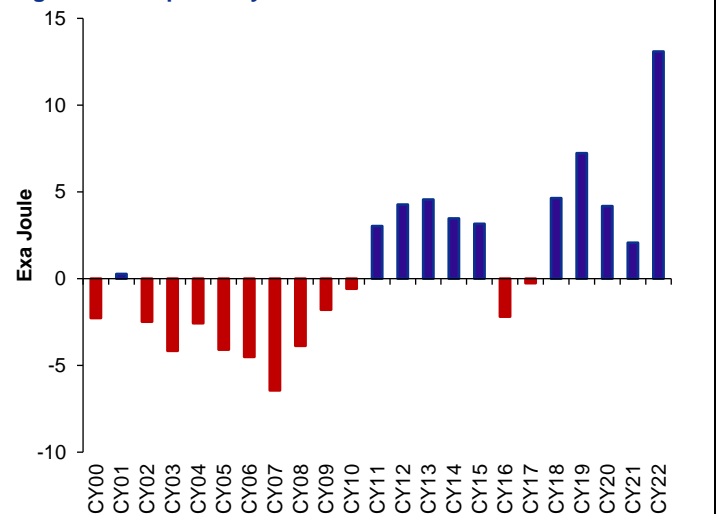
There is always a case of overdoing in commodities and the same happened in coal in 2022. As Europe was navigating through an energy crisis, coal was overproduced globally. Probably, the highest in the last decade.

Figure 1: Global coal consumption has been less than its production for the past five years, but overproduction was the highest in 2022



SOURCE: INCRED RESEARCH, BP ENERGY STATISTICS 2022

Figure 2: Coal is in huge surplus, and it may keep prices down for multiple years; global overproduction in CY22 was the highest in the past 23 years

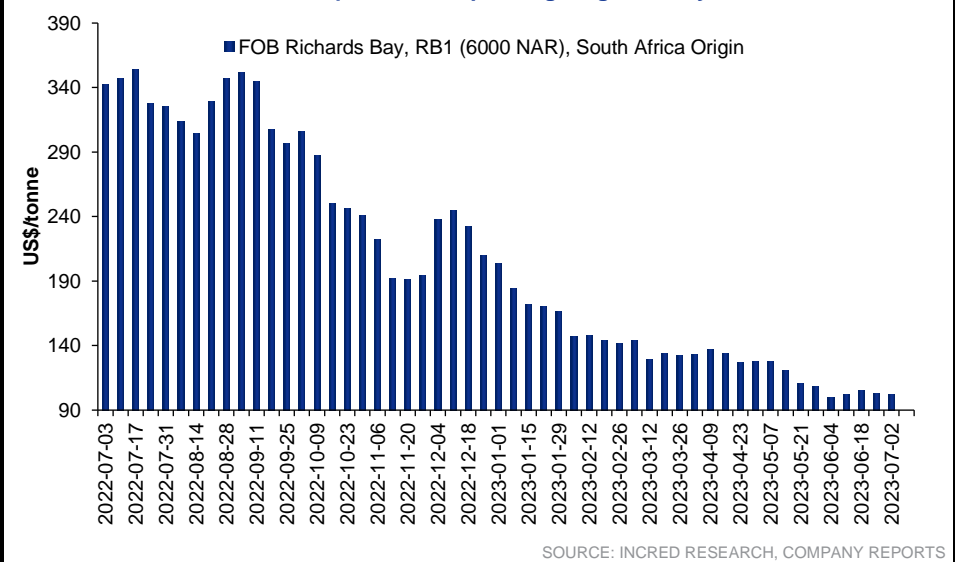


SOURCE: INCRED RESEARCH, BP ENERGY STATISTICS 2022

European coal demand to taper off as gas supply is adequate

While on a yearly basis European coal demand didn't increase much, the panic that was created after the Russian invasion of Ukraine led to panic-stocking of coal by the EU (particularly, Germany) which led to sky-high prices. Most European consumers were buying high-quality South African coal, which led to sky-high prices, but they have tapered down a lot.

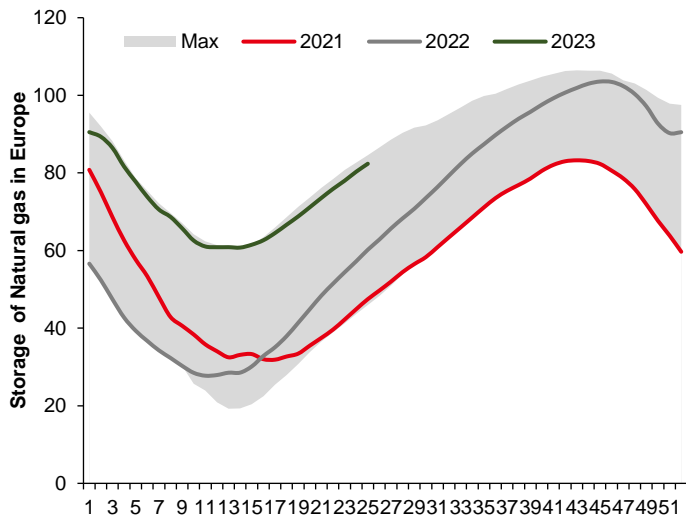
Figure 3: 6,000 Kcal of coal, which was trading at US\$375/t once, has fallen back to the US\$100 level; we won't be surprised if the prices go significantly below US\$100



SOURCE: INCRED RESEARCH, COMPANY REPORTS

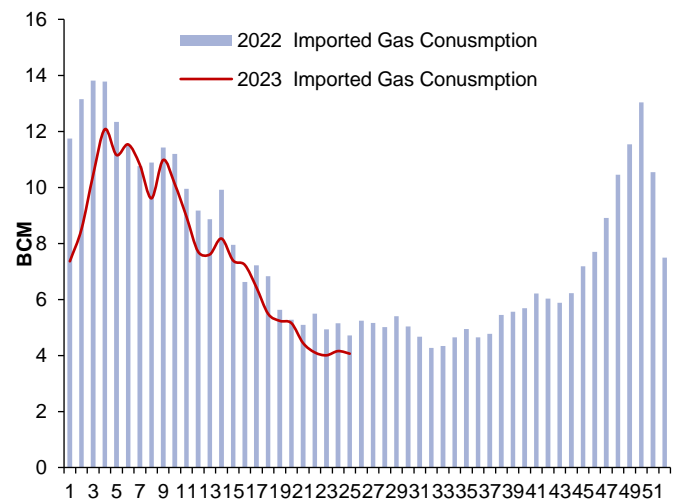
Please note that European gas storage is filled to the highest level at this time of the season and incremental consumption of imported gas is also going down ➤

Figure 4: European gas capacity is filled to the maximum level



SOURCE: INCRED RESEARCH, COMPANY REPORTS

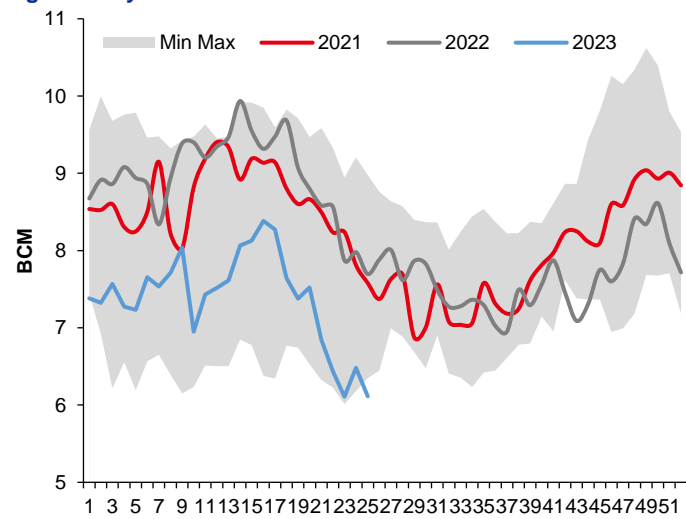
Figure 5: Imported gas consumption is well below last year's level



SOURCE: INCRED RESEARCH, COMPANY REPORTS

Europe has managed to cut its gas consumption significantly, which reduces the requirement of coal for power generation ➤

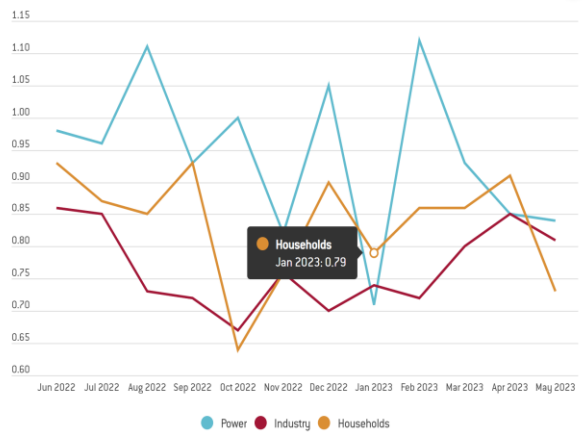
Figure 6: European gas consumption itself is coming down significantly...



SOURCE: INCRED RESEARCH, COMPANY REPORTS

Figure 7: ...even as Europe is cutting energy demand

Figure 3: Natural Gas Demand 2022/23 as ratio of 2019-21 average, by sector

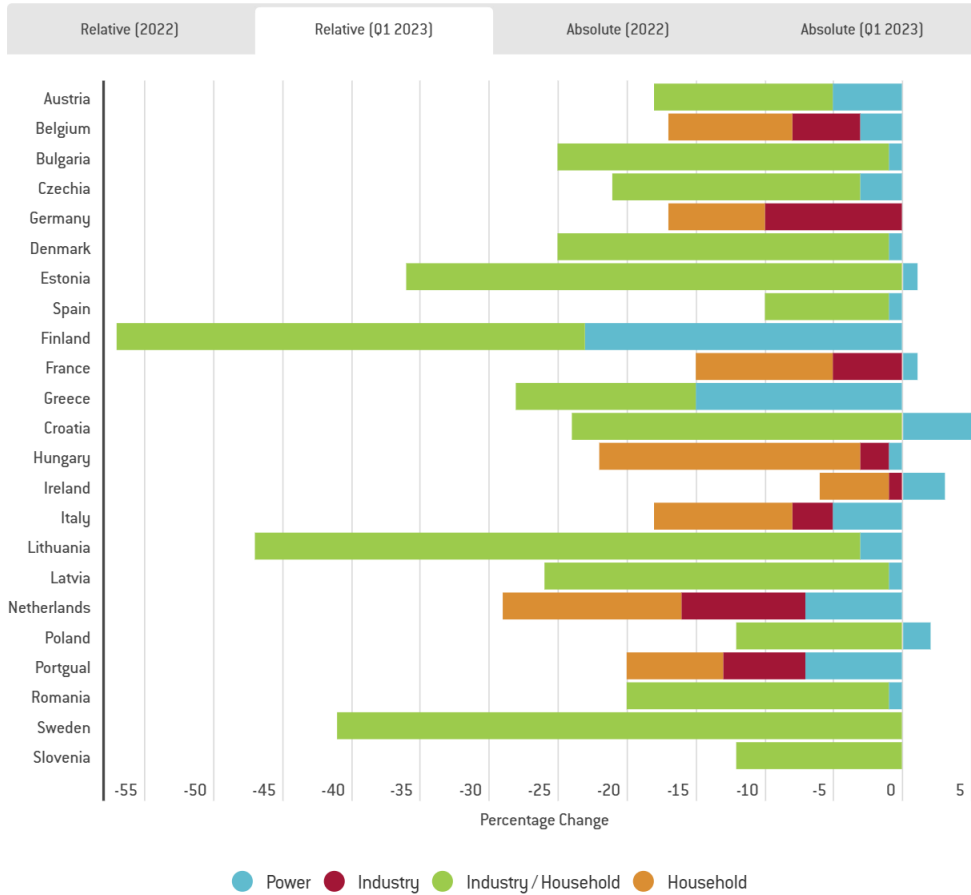


The ratio is the average of ratios across countries with available data.

SOURCE: INCRED RESEARCH, COMPANY REPORTS

Figure 8: Country-wise demand decline is the highest in Finland; Germany's industrial demand appears to be at last year's level but household demand is still going down

Figure 4: Sectoral demand reductions compared to average 2019-21

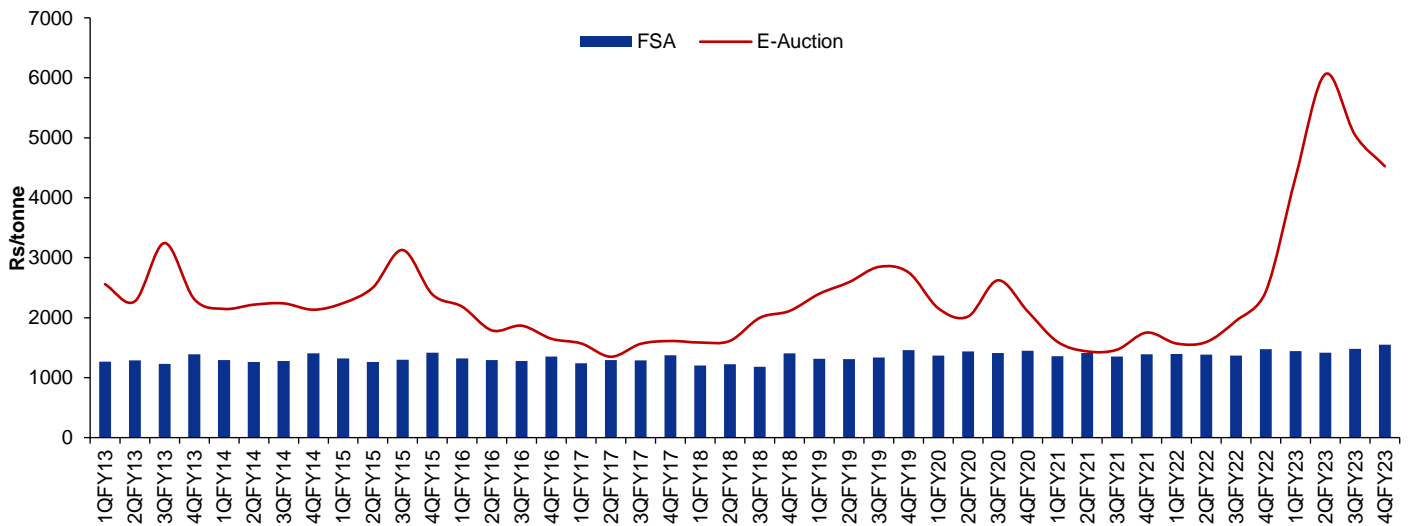


Absolute Changes show differences in consumption by sector in TWh. Relative changes are changes in sectoral demand in 2022 divided by total average demand in 2019-21. The intuition is that the figure shows the contribution of individual components to overall demand change in 2022 vs 2019-21 average.

SOURCE: INCRED RESEARCH, COMPANY REPORTS

Coal India's e-auction prices likely to fall to Rs2,500/t in the coming quarters ➤

Figure 9: Coal India' e-auction prices peaked when thermal coal prices in the international market stood at US\$350/t; as of now, thermal coal prices have fallen to US\$100/t (6,200 Kcal) and hence, most likely e-auction prices will fall below Rs2,500/t



SOURCE: INCRED RESEARCH, COMPANY REPORTS

Coal India's e-auction prices likely to fall to Rs3,500/t in 1QFY24F ➔

Figure 10: For 1QFY24F, PAT is likely to fall by 36% YoY, but will be 4% higher QoQ; QoQ PAT will be higher because of lower staff cost provision for the quarter; we have also assumed that there will be a 4% rise in FSA realization

	1QFY22	2QFY22	3QFY22	4QFY22	1QFY23	2QFY23	3QFY23	4QFY23	1QFY24F	YoY	QoQ
Net Revenue	2,52,822	2,32,911	2,84,335	3,27,068	3,50,922	2,98,381	3,51,693	3,81,523	3,37,317	-4%	-12%
Total Cost of Goods Sold	41,210	33,886	32,825	10,621	44,476	42,240	35,626	11,144	41,140	-8%	269%
Employee Cost	1,03,936	95,482	99,363	1,08,226	1,00,727	1,08,290	1,15,247	1,69,828	1,35,062	34%	-20%
Power & Fuel Cost	6,180	6,973	7,170	6,062	6,267	7,269	7,091	6,972	6,267	0%	-10%
Corporate Social Responsibility Expense	1,168	752	1,536	2,034	327	248	1,483	3,807	327	0%	-91%
Repairs	2,608	3,174	3,773	5,474	3,021	3,962	4,156	6,583	3,021	0%	-54%
Contractual Expenses	40,225	39,923	51,942	56,579	55,657	44,205	62,636	70,395	55,657	0%	-21%
Other Expenses	10,947	11,203	13,870	13,636	12,890	11,923	13,027	21,078	12,890	0%	-39%
Total Expenses	2,06,273	1,91,393	2,10,480	2,02,632	2,23,365	2,18,136	2,39,266	2,89,807	2,54,363	14%	-12%
Adjusted EBITDA	46,548	41,518	73,855	1,24,436	1,27,557	80,244	1,12,428	91,716	82,953	-35%	-10%
Stripping Activity Adjustment	-2,572	688	5,600	33,893	4,820	7,367	8,470	17,435	4,820	0%	-72%
Provisions	564	1,386	0	-222	229	75	71	3,374	229	0%	-93%
EBITDA	48,439	39,423	68,255	90,788	1,22,508	72,802	1,03,887	68,981	77,905	-36%	13%
Depreciation	10,406	9,344	10,413	14,124	9,938	10,771	12,620	13,425	9,938	0%	-26%
EBIT	38,033	30,079	57,842	76,665	1,12,571	62,031	91,268	55,557	67,967	-40%	22%
Other Income	6,810	7,818	6,529	17,889	9,945	17,612	15,850	22,100	9,945	0%	-55%
Interest Expenses	1,476	1,414	1,316	1,209	1,502	1,352	2,039	1,951	1,502	0%	-23%
Profit Before Tax	43,366	36,483	63,054	93,345	1,21,014	78,291	1,05,079	75,706	76,410	-37%	1%
Total Tax Expense	11,614	7,105	17,457	26,203	32,432	16,435	28,746	21,147	19,714	-39%	-7%
Profit After Tax	31,752	29,378	45,597	67,142	88,582	61,856	76,333	54,560	56,696	-36%	4%

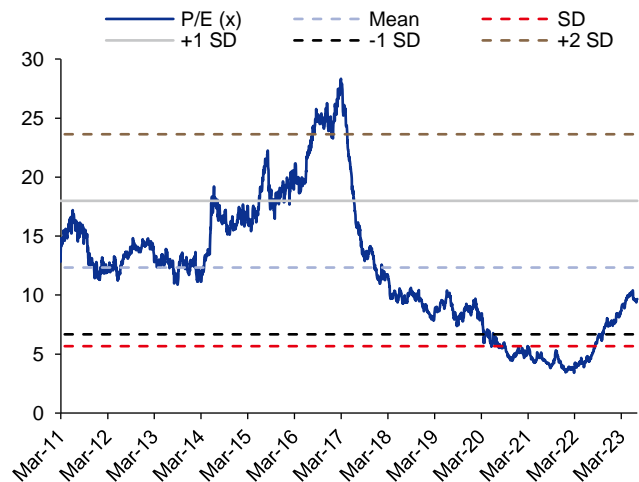
SOURCE: INCRED RESEARCH, COMPANY REPORTS

We also assume that from FY24F, e-auction prices will fall to Rs 2,000/t and thus, we have cut our EPS estimates ➔

Figure 11: We have valued Coal India at 10x FY25F EPS to arrive at our target price of Rs209

	Value	Unit
FY25F EPS	20.89	Rs/share
FY24F EPS	24.66	Rs/share
FY23 EPS	45.65	Rs/share
P/E multiple	10	x
Target price	208.87	Rs/share

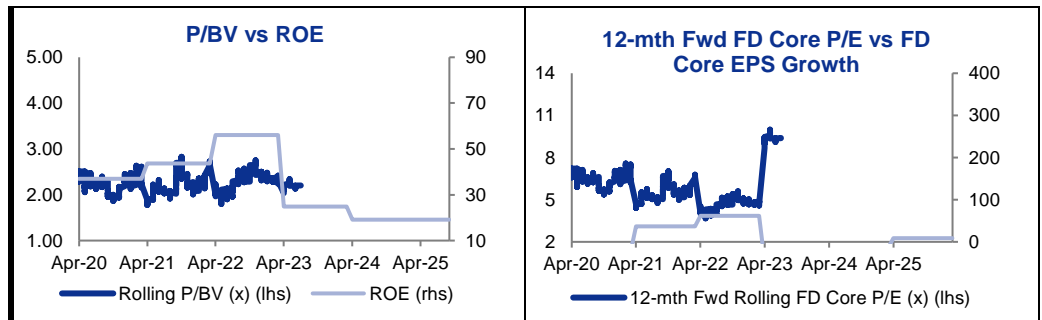
Figure 12: Coal India currently trades at 9.7x P/E



SOURCE: INCRED RESEARCH, COMPANY REPORTS

SOURCE: INCRED RESEARCH, COMPANY REPORTS

BY THE NUMBERS



Profit & Loss

(Rs mn)	Mar-22A	Mar-23A	Mar-24F	Mar-25F	Mar-26F
Total Net Revenues	1,097,135	1,382,519	1,320,962	1,348,144	1,426,585
Gross Profit	978,593	1,249,033	1,174,343	1,189,576	1,255,094
Operating EBITDA	246,905	368,179	216,866	181,803	191,892
Depreciation And Amortisation	(44,287)	(46,753)	(56,057)	(62,675)	(69,292)
Operating EBIT	202,618	321,426	160,809	119,128	122,599
Financial Income/(Expense)	(5,415)	(6,843)	(6,739)	(6,739)	(6,739)
Pretax Income/(Loss) from Assoc.	(86)	(81)			
Non-Operating Income/(Expense)	39,045	65,507	61,361	70,104	81,939
Profit Before Tax (pre-EI)	236,163	380,008	215,430	182,493	197,799
Exceptional Items					
Pre-tax Profit	236,163	380,008	215,430	182,493	197,799
Taxation	(62,379)	(98,759)	(63,474)	(53,769)	(58,279)
Exceptional Income - post-tax					
Profit After Tax	173,784	281,249	151,957	128,723	139,520
Minority Interests					
Preferred Dividends					
FX Gain/(Loss) - post tax					
Other Adjustments - post-tax					
Net Profit	173,784	281,249	151,957	128,723	139,520
Recurring Net Profit	173,784	281,249	151,957	128,723	139,520
Fully Diluted Recurring Net Profit	173,784	281,249	151,957	128,723	139,520

Cash Flow

(Rs mn)	Mar-22A	Mar-23A	Mar-24F	Mar-25F	Mar-26F
EBITDA	246,905	368,179	216,866	181,803	191,892
Cash Flow from Invt. & Assoc.					
Change In Working Capital	174,479	27,977	(139,490)	38,583	3,866
(Incr)/Decr in Total Provisions					
Other Non-Cash (Income)/Expense	(25,013)	(79,713)	5,726	(90,215)	(81,089)
Other Operating Cashflow	82,759	116,116	162,187	176,162	193,715
Net Interest (Paid)/Received	(5,415)	(6,843)	(6,739)	(6,739)	(6,739)
Tax Paid	(62,840)	(98,759)	(63,474)	(53,769)	(58,279)
Cashflow From Operations	410,875	326,957	175,076	245,825	243,365
Capex	(120,232)	(146,841)	(27,161)	(100,000)	(90,000)
Disposals Of FAs/subsidiaries					
Acq. Of Subsidiaries/investments	(156,028)	25,670	51,665		
Other Investing Cashflow	11,450	40,743	48,392	56,919	68,101
Cash Flow From Investing	(264,810)	(80,428)	72,896	(43,081)	(21,899)
Debt Raised/(repaid)	(25,732)	8,050	23,190		
Proceeds From Issue Of Shares					
Shares Repurchased					
Dividends Paid	(107,834)	(77,034)	(77,034)	(77,034)	(77,034)
Preferred Dividends					
Other Financing Cashflow	(847)	(6,843)	(6,739)	(6,739)	(6,739)
Cash Flow From Financing	(134,412)	(75,828)	(60,583)	(83,774)	(83,774)
Total Cash Generated	11,652	170,702	187,389	118,970	137,693
Free Cashflow To Equity	120,333	254,579	271,163	202,744	221,466
Free Cashflow To Firm	151,480	253,373	254,712	209,483	228,206

SOURCE: INCRED RESEARCH, COMPANY REPORTS

BY THE NUMBERS...cont'd

Balance Sheet					
(Rs mn)	Mar-22A	Mar-23A	Mar-24F	Mar-25F	Mar-26F
Total Cash And Equivalents	364,589	439,759	587,605	706,575	844,268
Total Debtors	113,677	130,605	162,858	166,210	175,880
Inventories	70,757	81,547	79,620	81,258	85,986
Total Other Current Assets	379,407	428,917	343,094	343,411	344,036
Total Current Assets	928,430	1,080,827	1,173,177	1,297,454	1,450,171
Fixed Assets	595,741	695,829	666,933	704,258	724,965
Total Investments	24,270	30,854	18,732	18,732	18,732
Intangible Assets					
Total Other Non-Current Assets	253,993	304,557	231,460	257,939	263,878
Total Non-current Assets	874,004	1,031,240	917,125	980,929	1,007,576
Short-term Debt	80	85	44,326	44,326	44,326
Current Portion of Long-Term Debt					
Total Creditors	85,918	85,492	112,791	115,112	121,810
Other Current Liabilities	496,139	601,770	379,484	421,053	433,246
Total Current Liabilities	582,137	687,346	536,601	580,491	599,381
Total Long-term Debt	33,018	41,063	20,012	20,012	20,012
Hybrid Debt - Debt Component					
Total Other Non-Current Liabilities	89,670	101,916	67,869	67,869	67,869
Total Non-current Liabilities	122,688	142,978	87,880	87,880	87,880
Total Provisions	659,440	701,586	810,742	903,244	1,001,231
Total Liabilities	1,364,265	1,531,911	1,435,224	1,571,615	1,688,493
Shareholders Equity	431,430	572,449	647,371	699,061	761,547
Minority Interests	6,738	7,707	7,707	7,707	7,707
Total Equity	438,168	580,156	655,078	706,768	769,253

Key Ratios					
	Mar-22A	Mar-23A	Mar-24F	Mar-25F	Mar-26F
Revenue Growth	21.9%	26.0%	(4.5%)	2.1%	5.8%
Operating EBITDA Growth	32.9%	49.1%	(41.1%)	(16.2%)	5.5%
Operating EBITDA Margin	22.5%	26.6%	16.4%	13.5%	13.5%
Net Cash Per Share (Rs)	53.79	64.68	84.91	104.21	126.56
BVPS (Rs)	70.01	92.89	105.05	113.43	123.57
Gross Interest Cover	37.42	46.97	23.86	17.68	18.19
Effective Tax Rate	26.4%	26.0%	29.5%	29.5%	29.5%
Net Dividend Payout Ratio	44.3%	27.4%	50.7%	59.8%	55.2%
Accounts Receivables Days	51.55	32.25	40.54	44.55	43.76
Inventory Days	246.68	208.23	200.61	185.16	177.98
Accounts Payables Days	249.86	234.35	246.81	262.30	252.13
ROIC (%)	15.9%	27.3%	11.9%	8.5%	8.5%
ROCE (%)	45.0%	58.1%	23.8%	16.0%	15.3%
Return On Average Assets	10.4%	14.6%	7.5%	6.1%	6.1%

SOURCE: INCRED RESEARCH, COMPANY REPORTS

DISCLAIMER

This report (including the views and opinions expressed therein, and the information comprised therein) has been prepared by Incred Research Services Private Ltd. (formerly known as Earnest Innovation Partners Private Limited) (hereinafter referred to as "IRSPL"). IRSPL is registered with SEBI as a Research Analyst vide Registration No. INH000007793. Pursuant to a trademark agreement, IRSPL has adopted "Incred Equities" as its trademark for use in this report.

The term "IRSPL" shall, unless the context otherwise requires, mean IRSPL and its affiliates, subsidiaries and related companies. This report is not directed or intended for distribution to or use by any person or entity resident in a state, country or any jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject IRSPL and its affiliates/group companies to registration or licensing requirements within such jurisdictions.

This report is being supplied to you strictly on the basis that it will remain confidential. No part of this report may be (i) copied, photocopied, duplicated, stored or reproduced in any form by any means; or (ii) redistributed or passed on, directly or indirectly, to any other person in whole or in part, for any purpose without the prior written consent of IRSPL.

The information contained in this report is prepared from data believed to be correct and reliable at the time of issue of this report.

IRSPL is not required to issue regular reports on the subject matter of this report at any frequency and it may cease to do so or change the periodicity of reports at any time. IRSPL is not under any obligation to update this report in the event of a material change to the information contained in this report. IRSPL has not any and will not accept any, obligation to (i) check or ensure that the contents of this report remain current, reliable or relevant; (ii) ensure that the content of this report constitutes all the information a prospective investor may require; (iii) ensure the adequacy, accuracy, completeness, reliability or fairness of any views, opinions and information, and accordingly, IRSPL and its affiliates/group companies (and their respective directors, associates, connected persons and/or employees) shall not be liable in any manner whatsoever for any consequences (including but not limited to any direct, indirect or consequential losses, loss of profits and damages) of any reliance thereon or usage thereof.

Unless otherwise specified, this report is based upon reasonable sources. Such sources will, unless otherwise specified, for market data, be market data and prices available from the main stock exchange or market where the relevant security is listed, or, where appropriate, any other market. Information on the accounts and business of company(ies) will generally be based on published statements of the company(ies), information disseminated by regulatory information services, other publicly available information and information resulting from our research. Whilst every effort is made to ensure that statements of facts made in this report are accurate, all estimates, projections, forecasts, expressions of opinion and other subjective judgments contained in this report are based on assumptions considered to be reasonable as of the date of the document in which they are contained and must not be construed as a representation that the matters referred to therein will occur. Past performance is not a reliable indicator of future performance. The value of investments may go down as well as up and those investing may, depending on the investments in question, lose more than the initial investment. No report shall constitute an offer or an invitation by or on behalf of IRSPL and its affiliates/group companies to any person to buy or sell any investments.

The opinions expressed are based on information which are believed to be accurate and complete and obtained through reliable public or other non-confidential sources at the time made. (Information barriers and other arrangements may be established where necessary to prevent conflicts of interests arising. However, the analyst(s) may receive compensation that is based on his/their coverage of company(ies) in the performance of his/their duties or the performance of his/their recommendations. In reviewing this report, an investor should be aware that any or all of the foregoing, among other things, may give rise to real or potential conflicts of interest. Additional information is, subject to the duties of confidentiality, available on request. The report is not a "prospectus" as defined under Indian Law, including the Companies Act, 2013, and is not, and shall not be, approved by, or filed or registered with, any Indian regulator, including any Registrar of Companies in India, SEBI, any Indian stock exchange, or the Reserve Bank of India. No offer, or invitation to offer, or solicitation of subscription with respect to any such securities listed or proposed to be listed in India is being made, or intended to be made, to the public, or to any member or section of the public in India, through or pursuant to this report.

The research analysts, strategists or economists principally responsible for the preparation of this research report are segregated from the other activities of IRSPL. Information barriers and other arrangements have been established, as required, to prevent any conflicts of interests.

The research analysts, strategists or economists principally responsible for the preparation of this research report are segregated from the other activities of IRSPL. Information barriers and other arrangements have been established, as required, to prevent any conflicts of interests.

IRSPL may have issued other reports (based on technical analysis, event specific, short term views etc.) that are inconsistent with and reach different conclusion from the information presented in this report.

Holding of Analysts/Relatives of Analysts, IRSPL and Associates of IRSPL in the covered securities, as on the date of publishing of this report

	Analyst/ Relative	Entity/ Associates
any financial interests in the company covered in this report (subject company) and nature of such financial interest	NO	NO
actual/beneficial ownership of 1% or more in securities of the subject company at the end of the month immediately preceding the date of publication of the research report or date of the public appearance;	NO	NO
any other material conflict of interest at the time of publication of the research report or at the time of public appearance	NO	NO
received any compensation from the subject company in the past twelve months for investment banking or merchant banking or brokerage services or investment advisory or depository or distribution from the subject company in the last twelve months for products/services other than investment banking or merchant banking or broker- age services or investment advisory or depository or distribution from the subject company in the last twelve months	NO	NO
managed or co-managed public offering of securities for the subject company in the last twelve months	NO	NO
received any compensation or other benefits from the subject company or third party in connection with the research report	NO	NO
served as an officer, director or employee of the subject company	NO	NO
been engaged in market making activity for the subject company	NO	NO

Analyst declaration

- The analyst responsible for the production of this report hereby certifies that the views expressed herein accurately and exclusively reflect his or her personal views and opinions about any and all of the issuers or securities analysed in this report and were prepared independently and autonomously in an unbiased manner.
- No part of the compensation of the analyst(s) was, is, or will be directly or indirectly related to the inclusion of specific recommendations(s) or view(s) in this report or based any specific investment banking transaction.
- The analyst(s) has(have) not had any serious disciplinary action taken against him/her(them).
- The analyst, strategist, or economist does not have any material conflict of interest at the time of publication of this report.
- The analyst(s) has(have) received compensation based upon various factors, including quality, accuracy and value of research, overall firm performance, client feedback and competitive factors.

IRSPL and/or its affiliates and/or its Directors/employees may own or have positions in securities of the company(ies) covered in this report or any securities related thereto and may from time to time add to or dispose of, or may be materially interested in, any such securities.

IRSPL and/or its affiliates and/or its Directors/employees may do and seek to do business with the company(ies) covered in this research report and may from time to time (a) buy/sell the securities covered in this report, from time to time and/or (b) act as market maker or have assumed an underwriting commitment in securities of such company(ies), and/or (c) may sell them to or buy them from customers on a principal basis and/or (d) may also perform or seek to perform significant investment banking, advisory, underwriting or placement services for or relating to such company(ies) and/or (e) solicit such investment, advisory or other services from any entity mentioned in this report and/or (f) act as a lender/borrower to such company and may earn brokerage or other compensation. However, Analysts are forbidden to acquire, on their own account or hold securities (physical or uncertificated, including derivatives) of companies in respect of which they are compiling and producing financial recommendations or in the result of which they play a key part.