

1. Research and Development (R&D) (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2023-24			OUTCOMES 2023-24		
	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators
21	1. Research Project sanctioned and initiated in the new Thrust areas ¹	1.1. No. of research projects sanctioned during the year	4 ²	1. Solutions provided from R&D projects successfully adopted	1.1. No. of new technological innovations/ solutions adopted in Coal Industry	1
		1.2. No. of on-going research projects completed during the year	4		1.2. No. of research papers published in peer reviewed journal	2
					1.3. No. of patent registered for new innovation in current FY	Target not amenable

2. Exploration of Coal and Lignite (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2023-24			OUTCOMES 2023-24		
	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators
450	1. Promotional (Regional) exploration	1.1. Length of drilling with 2D/3D Seismic Survey (in line-km with 24-fold CDP) (in lakh	2	1. New resource to be added	1.1. Addition of new resource during the year (in billion tonnes)	2

¹ Advanced technology/methodology for improvement of production & productivity from underground mining and open cast Mining, Improvement of safety, health and environment, Alternative use of coal and clean coal technologies, Coal beneficiation and utilization, Exploration

² Subject to receipt of potential project proposals and their approval

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2023-24			OUTCOMES 2023-24			
	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators	Target 2023-24
			meters)				
	2.	Area explored in Regional exploration	2.1. Area explored during the year (in Sq. km)	150			
	3.	Detailed Exploration	3.1. Length of drilling (in lakh meters)	1.60	2. Resource to be added in Proven category	2.1. Proven resources added during the year (in billion tonnes)	2
	4.	Area explored in detailed exploration	4.1. Area explored during the year (in Sq. km)	100			

3. Conservation, Safety and Infrastructural Development in Coal Mines (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2023-24			OUTCOME 2023-24			
	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators	Target 2023-24
92.50	a. Conservation and Safety in Coal Mines						
	1.	Protective works taken in mines	1.1. No. of mines where protective works are taken up	7	1. Improvement in Safety	1.1. No. of surface features/structures protected during the year	7
	2.	Installation of tele monitoring system in UG mines	2.1. No. of mines where Tele-monitoring systems are installed during the year	1			
			2.2. No of persons benefitted in UG Mines from Tele-monitoring system	400			
	3.	Replacement of Steam winders by Electrical	3.1. No. of mines where electrical winders are	6	2. Conservation of coal	2.1. Change in internal coal consumption from the	26

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2023-24			OUTCOME 2023-24			
	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators	Target 2023-24
		winders in UG mines	installed during the year			previous FY (in thousand tonnes)	
	4.	Installation of Man-riding system	4.1. No. of mines where Man-riding systems are installed during the year	8	3. Improvement in working condition	3.1. No of Miners benefitted (nos)	3,200
	b. Development of transport infrastructure in coalfields						
	1.	Road construction : Strengthening and widening of coal transportation road /wharf wall	1.1. Length of road constructed during the year (in km)	0.49	1. Improvement in mine infrastructure	1.1. No. of mines connected with roads during the year (nos.)	3
	2.	Rail line construction : renovation of track and extension of siding	2.1. Length of Rail line constructed during the year (in km)	10.75	2. Enhanced coal evacuation	2.1. Increase in coal evacuation (in Million Tonnes)	*3
	c. Environment Measures and Subsidence Control (EMSC)						
	1.	Relocation of affected Population	1.1. No. of Houses constructed for affected families in Jharia by JRDA ⁴	*5	1. Rehabilitation of families in Jharia and Raniganj	1.1. No. of BCCL families Rehabilitated in Jharia	*5
1.2. No. of Houses constructed for Affected families in Raniganj by housing dept of West Bengal			1.2. No. of Non-BCCL Families rehabilitated in Jharia				
			1.3. No. of families Rehabilitated in Raniganj by ADDA ⁶				

³ To be assessed after completion of the projects

⁴ Jharia Rehabilitation and Development Authority

⁵ Not covered under Coal Conservation & Development Authority Committee (CCDAC)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2023-24			OUTCOME 2023-24			
	2023-24	Output	Indicators	Targets 2023-24	Outcome	Indicators	Target 2023-24
	2.	Dealing with fire in Jharia	2.1. Award of work order for fire patches for Dousing of fire (No. of sites)		2.	Reduction in areas affected by fire	2.1. % change in area affected by fire