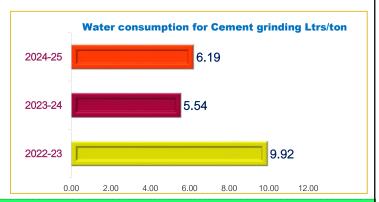


CO2 Reduction & Environmental benefits:



In 2024-25 Our unit reduced 30081 MT CO2 by using 100% renewable energy instead of Conventional Energy.

Calculation of CO2 of Grid power in scope 2			
Unit	Kwh	MWh	
Total Power consumption FY 2024-25	41377307	41377.307	
MW Grid emission factor	727		
CO2 emission in MT	30081.3		



Environmental benefits		
Coal usage reduction in OPC & PPC	100%	
Waste Reduction	Utilization of Gypsum, Wet, Dry Fly ash & Slag of 1484587 MT in 4 years from 2021-22 to 2024-25.	
Water Consumption Reduction (in kilolitres)	While comparing with Fy 2022-23 Cement mill water consumption reduces from 9.92 to 6.19 L/T in Fy 2024-25.	

2

Result / Tangible Benefits



Parameter	Result	
Finance (report both in Cr INR and Mn USD)		
CAPEX/ OPEX deployed*	0.19 Cr, 0.022 Mn USD for SFF	
Overall Rupee/Dollar Value Saved*	0.95 Cr, 0.11 Mn USD (Fuel cost-Coal & Oil)	
Operational Efficiency		
Increase in Production	378494 MT. Increase in Production by 36.86% compared to 2020-21.	
OTIF	107%	
Reduction in unplanned downtime	MTBF of GICW has been increased from 485hrs to 1374hrs in FY-24.	

2024-2025 Power landed cost		
comparison		
Source of power	Unit price	
Solar Power	3.02	
Onsite Solar	4.03	
02	4.64	
Hybrid	5.01	
Wind 1	5.65	
Average Rate	4.67	
SEB	8.12	
Saving per unit	3.45	
2024-25 power consumption(kwh)	41377307	
Savings as per 2024-25 consumption basis in Lacs	1427.52	

3

Actions implemented for Cement Mill Capacity Enhancement:













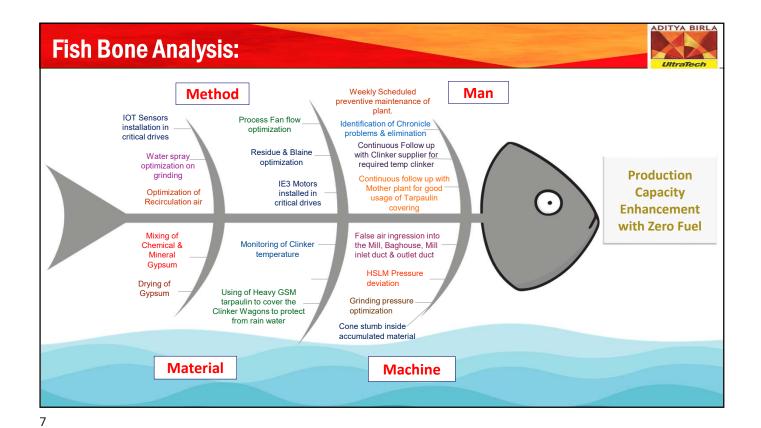






DITYA BIRL Zero Fuel in OPC and PPC Challenges / Problems Challenge-01: Challenge-02: **※ Without using the Fuel** * To maintain the consistent enhancement of the Cement GICW Fly ash addition in PPC & Mill productivity, Reduction of PPCS. Power consumption & GICW Challenge-03: Challenge-04: * Mill outlet temperature issues * Increase in Vibration, GICW with usage of low Hydraulic pressure deviation temperature Clinker material. problems. Outside group receipt of Mill main motor drawing high hydrated Clinker. power consumption.

L 6



National Benchmark/ Standard:



Project-1: The project aligns with several national and industry benchmarks:

- > Bureau of Energy Efficiency (BEE) guidelines for energy conservation.
- > CPCB norms for emission reduction and sustainable industrial practices.
- National Action Plan on Climate Change (NAPCC) goals for reducing fossil fuel dependency.
- > Cement Sustainability Initiative (CSI) targets for low-carbon cement production.

Project-2: The project aligns with several national and industry benchmarks:

- Energy Conservation Act (2001) Promotes efficient energy use in industries.
- Central Pollution Control Board (CPCB) Guidelines for reducing industrial emissions.
- National Action Plan on Climate Change (NAPCC) Supports renewable energy adoption.
- ISO 50001 Energy Management Systems.
- **UN Sustainable Development Goals (SDGs)** Especially SDG 7 (Affordable and Clean Energy) and SDG 13 (Climate Action).

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