



## Manufactured Capital

# CEMENTING EXCELLENCE

JSW Cement's manufacturing excellence is pillared upon its seamlessly integrated value chain and world-class operations. Leveraging this powerful combination allows us to minimise resource consumption while continuously enriching our product portfolio with innovative, high-value offerings. Through strategic expansion of our manufacturing footprint, optimising existing assets, and embracing continuous innovation, we effectively capture the benefits of scale, ensuring long-term competitiveness.



## STRATEGIES LINKED

S1

S2

S3

S5

## RISKS

R1

R2

R3

R4

R5

## SDGs



## MATERIAL TOPICS

- Raw material conservation
- Circular economy

## FOCUS AREA

1. Capacity optimisation and expansion
2. Sustainable production
3. Responsible mining
4. Cost rationalisation
5. Product quality



## KPIs

**12.15** MT  
Saleable Production

**67.50%**  
Capacity Utilisation

**6.89%**  
Thermal Substitution rate

**ZERO**  
Mining waste policy



## FY 2023-24 HIGHLIGHTS AND DEVELOPMENTS

### Inputs

<b>1</b> Integrated unit	<b>2</b> Clinkerisation unit
<b>6</b> Grinding units	<b>20.60</b> MTPA Cumulative capacity

### Outputs

<b>67.5%</b> Capacity utilisation	<b>6.89%</b> Thermal Substitution Rate	<b>33.22</b> units Specific power consumption (Grinding)
<b>53.12</b> units Specific power consumption (Clinker)	<b>60.67</b> Kcal Specific heat consumption (Grinding)	<b>738</b> Kcal/kg Specific heat consumption (Clinker)

### PLANNED CAPACITY EXPANSION

At JSW Cement, we have been consistently investing to scale our production capacity to 40.85 MTPA. This strategy demonstrates our commitment to diversify our market presence and capitalise on growing demand with our sustainable product portfolio.

#### Unit

Grinding unit at VJNR, Karnataka
Grinding unit at Dolvi, Mumbai
Grinding unit at BPSL, Karnataka
Clinker facility at Nagaur, Rajasthan
Grinding unit at Nagaur, Rajasthan
Grinding unit in Punjab
Clinker facility at Damoh, Madhya Pradesh
Grinding unit at Damoh, Madhya Pradesh
Grinding unit at Uttar Pradesh

#### Capacity addition

4.0 MTPA
4.0 MTPA
1.0 MTPA
3.30 MTPA
3.26 MTPA
3.26 MTPA
3.3 MTPA
1.0 MTPA
5.0 MTPA



### INCREASED ALTERNATIVE RAW MATERIAL CONSUMPTION

We are committed to minimising our environmental footprint and optimising resource utilisation. At our Nandyal plant, we have implemented the innovative use of alumina-rich steel-making slag. This serves as a cost-effective and sustainable replacement for aluminium laterite in the clinker-making process. Additionally, we utilise AOD slag during cement grinding, maximising resource efficiency throughout the production chain.

Both the Nandyal and Salem facilities prioritise sustainability through the utilisation of waste heat for slag drying. Nandyal utilises waste hot gases from the clinker plant, while Salem leverages hot

air from the JSW Steel Sinter Plant. These initiatives demonstrate our dedication to responsible resource management and operational excellence.

**66,218 tonnes**  
Waste co-processed sustainably

### MAINTAINING PRODUCT QUALITY

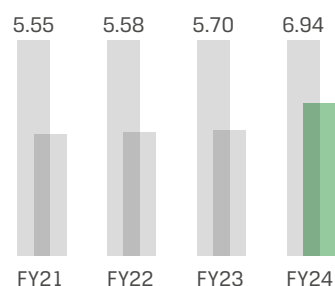
We are committed to delivering superior products through rigorous testing procedures. We adhere to the highest industry standards like IS 269 (OPC), IS 455 (PSC), IS 16415 (Composite) for cement and IS 16714 for GGBS. Further, we are actively pursuing NABL accreditation for

concrete labs in Salboni, Dolvi, Hyderabad, and Kolkata, demonstrating our dedication to continuous improvement.

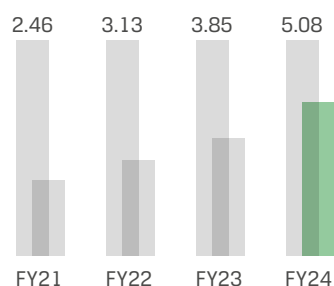
To strengthen our raw material analysis capabilities, we have implemented advanced equipment for microscope and glass content testing specifically for GGBS. Additionally, at our Nandyal plant, we have established a dedicated alternate fuel testing facility with cutting-edge equipment like Auto Titers, Flashpoint testers, and Chloride testing instruments. These investments empower us to explore and utilise sustainable alternative fuels with confidence.

## CONSISTENT VOLUME GROWTH

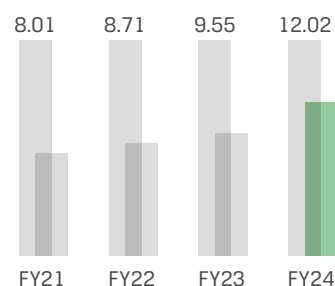
**Cement Sales Volume**  
(MMT)



**GGBS Sales Volume**  
(MMT)



**Total Cement and GGBS Sales Volume**  
(MMT)



### CAPTIVE POWER GENERATION AND REDUCTION IN ELECTRICITY USAGE

All our plants continued to optimise energy consumption in FY 2023-24 by optimising processes and increased use of technology.

### RESPONSIBLE MINING

JSW Cement ensures optimum utilisation of mineral resources at captive mines.

### GREEN PRODUCTS

JSW Cement focusses on sustainable products with:

#### Low clinker ratios

Minimising resource use and energy consumption

#### Industry-leading CO<sub>2</sub> emissions

241 kg/Tcm in FY 2023-24

#### Expansion into construction chemicals

Offering innovative green products for a growing market

