ZIGMA INTERNATIONAL
DJOXKZ GROUP – EU SALES PARTNER

Indian Bauxite Operations

Supply & Processing Proposal

Maharashtra, India
8–10 MT Reserves • Grade Min. 45% Al_2O_3

CONFIDENTIAL | 2026

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Geology

Ratnagiri district in Maharashtra hosts significant bauxite deposits, primarily found as cappings on elevated plateau regions and hills..

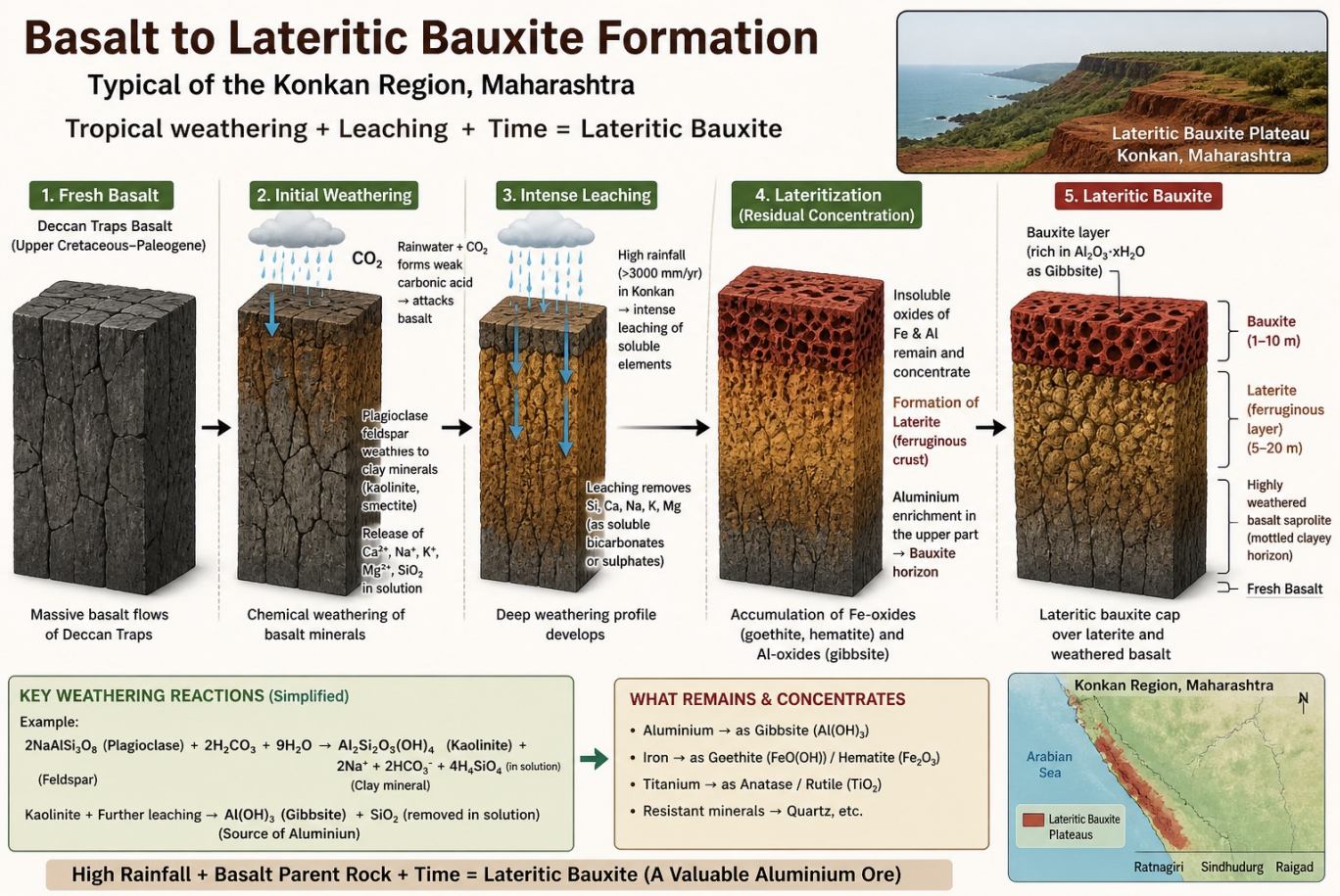
Geological Features and Formation

Formation: The bauxite is formed by the intense chemical weathering (lateritization) of Deccan basalts.

Occurrence: Bauxite occurs as boulder beds and layered deposits within lateritic zones.

Geology: The area features Deccan basaltic lava flows (Upper Cretaceous to Lower Eocene), topped by lateritic profiles.

Types: Both in-situ (grey to pink) and transported (white to ash grey) varieties of bauxite exist.



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PROJECT OVERVIEW

100 Acres	8–10 MT	45–48%	50 km
Potential Mining Area	**Resource Potential**	**Grade**	**Port Distance**
40 + 40 + 20 acres		Al_2O_3 average grade	Processing plot

Material Types

- **Laterite /Bauxite Bricks**
- **Debris / Fines**
- **Run-of-Mine (ROM)**

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MINING OPERATIONS — GUHAGHAR

Excavation

- Method: Open-cast excavation only (no blasting)
- Equipment: 280 HP excavator
- Capacity: 5,000 tons per 12-hour shift
- Daily output Potential: ~10,000 tons/day (2 shifts)

Transport to Plot

- Distance: 50 km (single-lane road)
- Fleet: 40–60 ton trucks
- Loading time: 8 minutes per truck
- Daily shifting: 2,000 tons/day
- Plot size: 9 acres

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PROCESSING & CRUSHING — PLOT OPERATIONS

Plot Stockpile: 9 Acres | 64,000 Tons Ready | Material Stacking & Blending

Mobile Crusher Setup

Primary Crusher

Capacity: 2,000 tons/day
Screens: 10 mm & 100 mm
Output: Sized bauxite for supply

Secondary Crusher

Capacity: 750 tons/day
Screens: 10 mm & 100 mm
Output: Sized bauxite for supply

Combined Crushing Output: 2,750 tons/day | Port Dispatch: 5,000 tons/day (Plot → JSW Jaigarh Port, 10 km)

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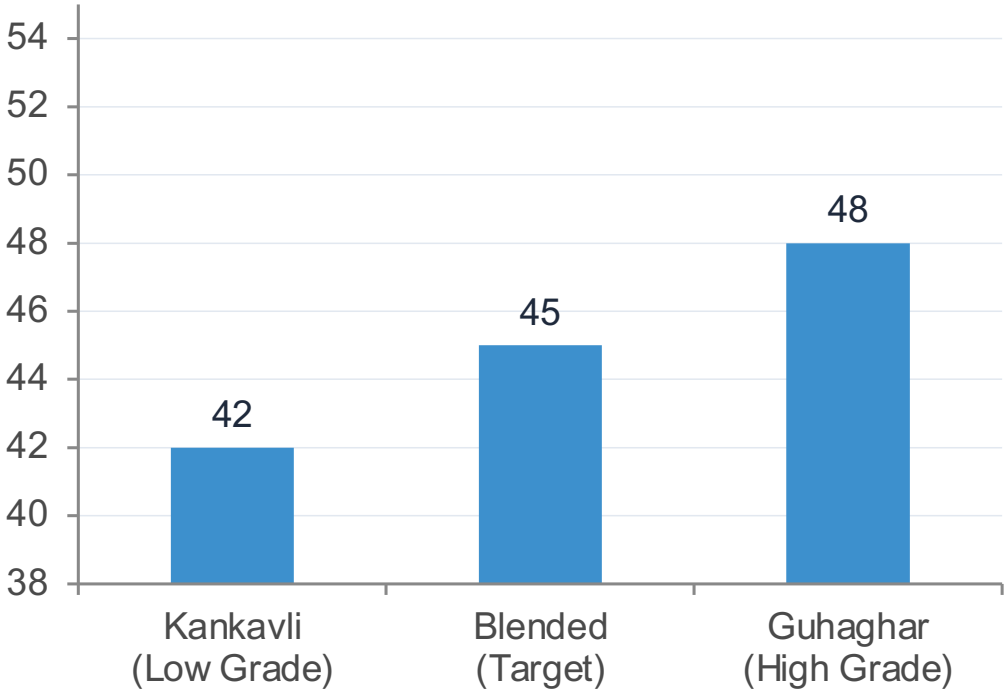
GRADE MANAGEMENT & BLENDING STRATEGY

Grade Comparison (% Al_2O_3)



*45 min guarantee

Blending Rationale

Objective: Blend Guhaghar (46–52%) with Kankavli low-grade (40–45%) to achieve a consistent minimum 46% average.

Benefit: Extends mine life significantly — key driver of long-term supply continuity.

Low-grade source: Kankavli deposit, available for blending to balance overall output grade.

Client assurance: Stable, guaranteed grade enables long-term offtake planning.

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SUPPLY CHAIN — END TO END

01

Mine (Guhaghar)

100 acres
8–10 MT resource
Grade 46–52%

02

Excavate & Load

280 HP excavator
5,000 T / 12-hr shift
8 min truck load

03

Haul to Plot

40–60 T trucks
40 km road
2,000 T/day

04

Crush & Blend

Mobile crushers
2,750 T/day output
10 & 100 mm screens

05

Dispatch to Port

10 km to JSW
Jaigarh Port
5,000 T/day

Activity	Daily Capacity	Notes
Excavation (1 shift)	5,000 T	280 HP excavator
Mine-to-Plot haulage	2,000 T	40 km, single-lane, 40–60T trucks
Crushing (combined)	2,750 T	2,000 T + 750 T mobile crushers
Plot-to-Port dispatch	5,000 T	10 km to JSW Jaigarh Port

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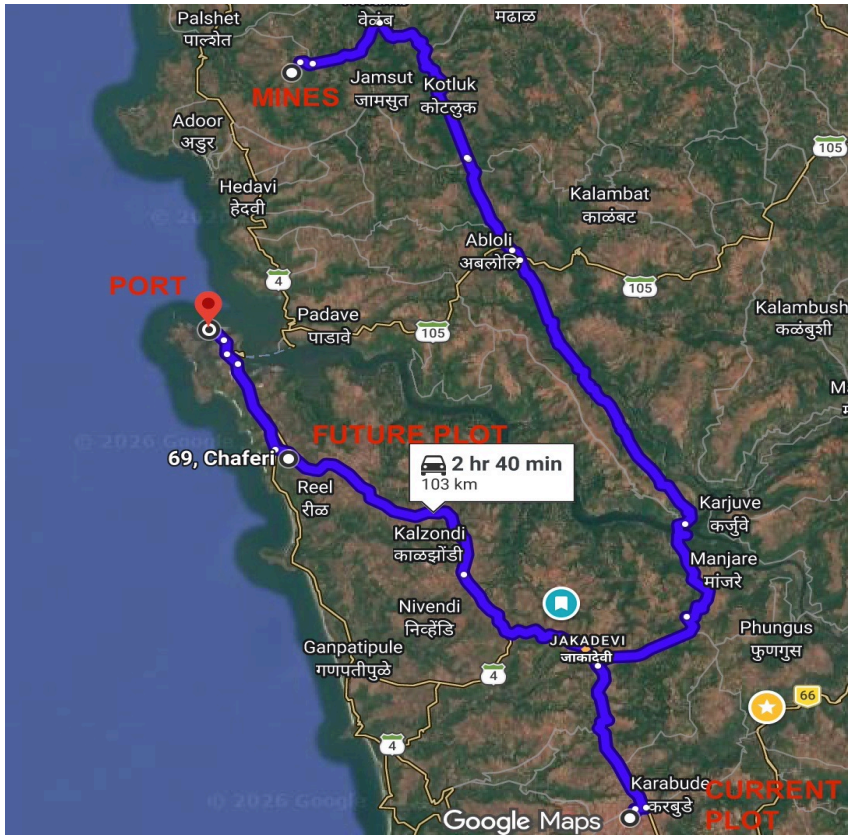
LOCATION — GUHAGHAR & JSW JAIGARH PORT



Guhaghar Mine

Ratnagiri District, Maharashtra
Lat 17.49°N / Lon 73.19°E
100 acres across 3 parcels

Processing Plot

9 acres / 1,00,000 T capacity
~40 km from mine
Mobile crushers on site

JSW Jaigarh Port

Deep water, all-weather port

SGS

- SGS team is available at Jaigarh port for sampling
- Wet Chemical analysis is conducted at their lab. in Hospet, and XRF in Porbandar
- Sampling will be carried out as per IS 1999:1987 (Reaffirmed 2019) and analysis as per Annexure A & B (please refer below table) and in absence of that it will be carried out as per any recognized International Standard.

Analysis annexure (A) Wet chemical analysis

Sr. No.	TEST PARAMETERS	TEST PROTOCOL
1	Alumina as Al_2O_3, %	SGS/PBR/IHM-02/Ver.1.0/10.06.2017
2	Silica as SiO_2, %	IS : 2000 (Part-2) - 1985 (Reaff.2022)
3	Moisture Content, %	SGS/PBR/IHM-04/Ver.1.0/04.08.2017
4	Titanium as TiO_2, %	IS : 2000 (Part-5) - 1985 (Reaff.2022)

Note : TiO2 is mandatory for Al2O3

Analysis annexure (B) XRF.

Sr. No.	TEST PARAMETERS	TEST PROTOCOL
1	Alumina as Al_2O_3, %	BBSR/WI_XRF_02
2	Silica as SiO_2, %	

JSW JAIGARH PORT

Port Info

https://www.jswinfrastructure.in/infrastructure/about-jaigarh--port

Tariff

https://www.jswinfrastructure.in/sites/default/files/assets/industry/infrastructure/jaigarh/JSW-Jaigarh-Port-Tariff-wef-01.05.2026.pdf

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Why Choose Us?

- Proven 8–10 MT bauxite resource at Guhaghar, Maharashtra
- Consistent grade 45% Al_2O_3 guaranteed through intelligent blending
- End-to-end control: mine → crush → blend → port in <50 km
- JSW Jaigarh Port: deep-water, 24/7, all-weather — between Mumbai & Goa
- Flexible crushing: 2,750 T/day capacity with 10 mm & 100 mm fractions, can increase production easily
- Long supply longevity ensured via low-grade blending from Kankavli