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EDITORIAL ANALYSIS

The Magnet Trap: Why India's Rare Earth Push Must Master Processing, Not Just Assembly

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ECONOMY**GS3**

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THE LIFT LINE

A country can build the factory that stamps out magnets and still be a hostage, because the **leverage** (<https://ujjayi.com/vocab/leverage/>) in rare earths lies not in the last step of assembly but in the chemistry of separation that China has quietly monopolised for a generation.

WHY THIS EDITORIAL MATTERS FOR YOUR EXAM

The Ministry of Heavy Industries has extended the global tender for its Rare Earth Permanent Magnet (REPM) scheme, moving the bid deadline to late July 2026, with large firms signalling interest. The scheme, backed by an outlay of about Rs 7,280 crore and targeting integrated manufacturing of sintered neodymium-iron-boron magnets, is India's bid to break China's near-total grip on the magnets that power electric vehicles, wind turbines, electronics and defence systems. The editorial matters because the visible story of building magnet plants hides a harder one: India still depends on China for heavy rare earths such as dysprosium and terbium, and lacks the hydrometallurgy and separation skills that convert ore into usable material. Self-reliance in assembly is not self-reliance in the supply chain.

GS Paper 3: Indian economy, mobilisation of resources, science and technology, and issues relating to **indigenisation** (<https://ujjayi.com/vocab/indigenisation/>) and supply-chain security.

For **Prelims**, hold the specifics: rare earths are seventeen elements including neodymium, praseodymium, dysprosium and terbium; light rare earths are relatively abundant while heavy rare earths are scarce and concentrated in China; the **National Critical Mineral Mission** (<https://ujjayi.com/schemes/national-critical-mineral-mission/>) launched to secure such minerals; KABIL (Khanij Bidesh India Limited) tasked with acquiring overseas

mineral assets; and IREL (India) Limited handling domestic monazite processing. For **Mains**, argue that the strategic bottleneck is processing and separation, not mining, and that export controls have turned critical minerals (<https://ujiyari.com/terms/critical-minerals/>) into instruments of statecraft.

BACKGROUND AND CONTEXT

Rare earths are not geologically rare, but the ability to separate and refine them cheaply and cleanly is. China controls the overwhelming majority of global rare earth processing and an even larger share of the sintered magnet market, a dominance built over decades through scale, tolerance of the pollution that separation generates, and **deliberate** (<https://ujiyari.com/vocab/deliberate/>) industrial policy. When China tightened export controls on certain rare earths and magnets, downstream industries worldwide, from automakers to defence contractors, felt the squeeze almost immediately.

India holds significant reserves of monazite sand, a source of light rare earths, but has historically exported raw or lightly processed material and imported finished magnets. The REPM scheme is meant to close that loop by incentivising domestic magnet manufacturing with capital subsidy and sales-linked incentives.

THE CORE ARGUMENT / ISSUE

Mining is not the bottleneck

The instinctive response to a supply shock is to dig more, but reserves are not the constraint. The constraint is the mid-stream: separating individual rare earth oxides and converting them into metals and alloys. India can mine monazite, yet without world-scale separation capacity it must still send material abroad and buy back the refined product.

The heavy rare earth blind spot

Sintered NdFeB magnets that must withstand heat, as in EV motors and missiles, require small additions of dysprosium and terbium, the heavy rare earths that China dominates most completely. A magnet plant fed by imported heavy rare earths simply relocates the dependence one step downstream rather than removing it.

STAGE OF THE VALUE CHAIN	INDIA'S POSITION	STRATEGIC EXPOSURE
Mining and ore (monazite)	Reserves available via IREL	Low to moderate
Separation and refining	Limited hydrometallurgy and separation skills	High
Heavy rare earths (Dy, Tb)	Dependent on imports, largely from China	Very high
Magnet manufacturing (REPM scheme)	Being built with subsidy and incentives	Reducing, if fed domestically

Export controls as economic weapons

China's use of export licensing on rare earths and magnets shows that critical minerals are now bargaining chips in geopolitics (<https://ujiyari.com/vocab/geopolitics/>). A subsidy to assemble magnets does little if the essential inputs can be turned off at source. Genuine security requires control over separation and a diversified supply of heavy rare earths.

HOW TO THINK ABOUT THIS (ANALYTICAL FRAME)

Locate the choke point, then judge the policy against it. In rare earths the choke point is processing and separation, especially of heavy rare earths, not mining and not final assembly. The transferable rule for GS3 is that supply-chain sovereignty (<https://ujiyari.com/vocab/sovereignty/>) is decided at the least substitutable stage of the value chain, and industrial policy that funds the visible end while ignoring the hidden bottleneck buys the appearance of self-reliance without its substance. The examiner rewards the candidate who reads the REPM scheme as a necessary first step, not a finished answer.

THE DIAGRAM IN WORDS

China dominates rare earth separation and heavy rare earths -> export controls squeeze EVs, wind, electronics, defence -> India launches REPM scheme (Rs 7,280 crore, sintered NdFeB, bid extended to late July 2026) -> builds magnet assembly capacity -> BUT still imports dysprosium and terbium and lacks separation skills -> real bottleneck = processing, not mining -> true self-reliance needs National Critical Mineral Mission + KABIL sourcing + domestic hydrometallurgy + skilled separation

WAY FORWARD

- ❶ **Invest in separation and hydrometallurgy.** Fund domestic capacity to separate and refine rare earth oxides and build the skilled workforce for it, since this is the stage where dependence truly bites.
- ❷ **Secure heavy rare earths.** Use KABIL and the National Critical Mineral Mission to acquire and diversify sources of dysprosium and terbium beyond China, including through friendly-country partnerships and recycling.
- ❸ **Sequence the scheme with inputs.** Pair the REPM manufacturing incentives with guaranteed domestic feedstock (<https://ujiyari.com/vocab/feedstock/>), so magnet plants are not left dependent on imported material that can be embargoed.
- ❹ **Build a recycling and substitution ecosystem.** Support recovery of rare earths from end-of-life products and research into magnet designs that reduce heavy rare earth content.

PYO LINKAGE AND PRACTICE

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UPSC has asked about critical minerals, resource security and indigenisation of strategic technology. This editorial sharpens that theme by distinguishing mining from processing and exposing the heavy rare earth blind spot, which is exactly the layered analysis the examiner rewards over a general note on rare earths.

Practice question: “India’s rare earth strategy will remain incomplete until it masters processing and separation, not merely magnet assembly.” Critically examine in the context of the REPM scheme and China’s dominance of the rare earth value chain. (250 words, 15 marks)

Sources: *The Economic Times* (<https://economictimes.indiatimes.com/>), *Ministry of Heavy Industries* (<https://heavyindustries.gov.in/>), *Ministry of Mines* (<https://mines.gov.in/>)

Source: The Magnet Trap: Why India's Rare Earth Push Must Master Processing, Not Just Assembly — Ujjayari.com
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