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Q12

"Investment in infrastructure is essential for more rapid and inclusive economic growth. "Discuss in the light of India's experience.

UPSC Civil Services Mains 2021 · GS III · 15 marks · Infrastructure

Infrastructure: Energy, Ports, Roads, Airports, Railways etc.

Core demand of the question

- "Investment in infrastructure is essential for more rapid and inclusive economic growth." Discuss in the light of India's experience
- Keep the explanation within a 15-mark length

Revision summary

Infrastructure cuts logistics and power costs and crowds in private investment when last-mile links exist.

India's **Golden Quadrilateral**, **PMGSY**, ports, and digital public infrastructure supported growth and some inclusion.

A highway that bypasses the poor, or a project that displaces without R&R, is not inclusive.

Gati Shakti is the 2021 attempt to treat assets as a network.

Maintenance, DISCOM health, and eastern connectivity decide whether the next rupee of capex really raises broad-based growth.

Introduction

Roads, rails, power, ports, digital pipes, and irrigation lower the cost of moving goods and people. In India they have also been a way to pull lagging districts into the market. Infrastructure is essential for rapid and inclusive growth. It is not sufficient if land, skills, and last-mile public services stay broken.

Body**Why infrastructure raises growth**

- Lower **logistics cost** raises tradable manufacturing. India has long paid a growth tax in slow ports, mixed-gauge delays, and truck time on poor roads.
- **Power and logistics** are complementary capital: a factory without both is a shed.
- Public infrastructure crowds in private investment when the State completes **last-mile links** and a predictable tariff.
- Multiplier effects in **construction employment** matter in a labour-surplus economy, if the asset then actually works.

India's experience of faster growth

- **Golden Quadrilateral**, **NHDP**, and later **Bharatmala** cut inter-city time and supported the 2000s growth burst in auto, durables, and organised retail.
- **PMGSY** village roads expanded market access for produce and non-farm work, which is inclusion as well as GDP.
- **Ports, airports, and dedicated freight corridor** logic (and **PM Gati Shakti**, 2021) aim to treat infrastructure as a **network**, not a ribbon-cutting list.
- **Telecom liberalisation, Aadhaar, UPI, and BharatNet** are digital infrastructure. They cut transaction costs for the poor more than a new steel mill sometimes does.
- **Irrigation and rural electrification** (including later **Saubhagya**) raised farm and household capability, though quality of power remains uneven.

Inclusion is not automatic

- A highway can **bypass** a poor block if there is no feeder, bus, or skill to use the new market.
- **Large dams and urban metro** can displace the weak unless rehabilitation is real. Inclusion needs **R&R and local hiring**, not only a GDP multiplier slide.
- **Public-private partnerships** (airports, some ports, HAM highways) brought capital. They also brought toll and land conflicts. The State must still specify **universal access**.
- **Regional imbalance**: coastal and metro corridors absorbed more private infra than the eastern and hill States, which is why **public capex** still has an equalising job.
- Debt-financed infra that does not earn or save cash becomes a **macro risk** (power DISCOM dues, stalled projects). Bad infrastructure investment can slow growth.

What India should keep doing

- Coordinate ministries on one map (**Gati Shakti**), finish stalled assets, and pair hard infra with **schools, primary health, and skilling**.
- Target **logistics cost** and **eastern freight**, not only more kilometres of the same corridor class.
- Maintain assets. An unmaintained **PMGSY** road is not inclusion.

Flow diagram

Infra investment -> Lower logistics and power cost
 Lower logistics and power cost -> Faster growth
 Infra investment -> PMGSY digital rural access
 PMGSY digital rural access -> Inclusion if feeders and skills
 Bypass displacement debt -> Growth without inclusion

Conclusion

India's highways, village roads, ports, power, and digital rails show that infrastructure is essential for speed and for widening the market. Inclusion follows when feeders, skills, and fair displacement rules travel with the concrete. Kilometres alone do not.

Facts & figures

Golden Quadrilateral

Early-2000s national highway loop linking four metros; a classic growth-infra episode.

PMGSY

Pradhan Mantri Gram Sadak Yojana: all-weather rural connectivity as an inclusion instrument.

PM Gati Shakti

2021 National Master Plan to coordinate multi-modal infrastructure across ministries.

UPI / digital public infrastructure

Low-cost payment and identity rails that cut transaction costs for small users.

HAM / PPP highways

Hybrid Annuity and other PPPs that brought private capital with public traffic-risk sharing.

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